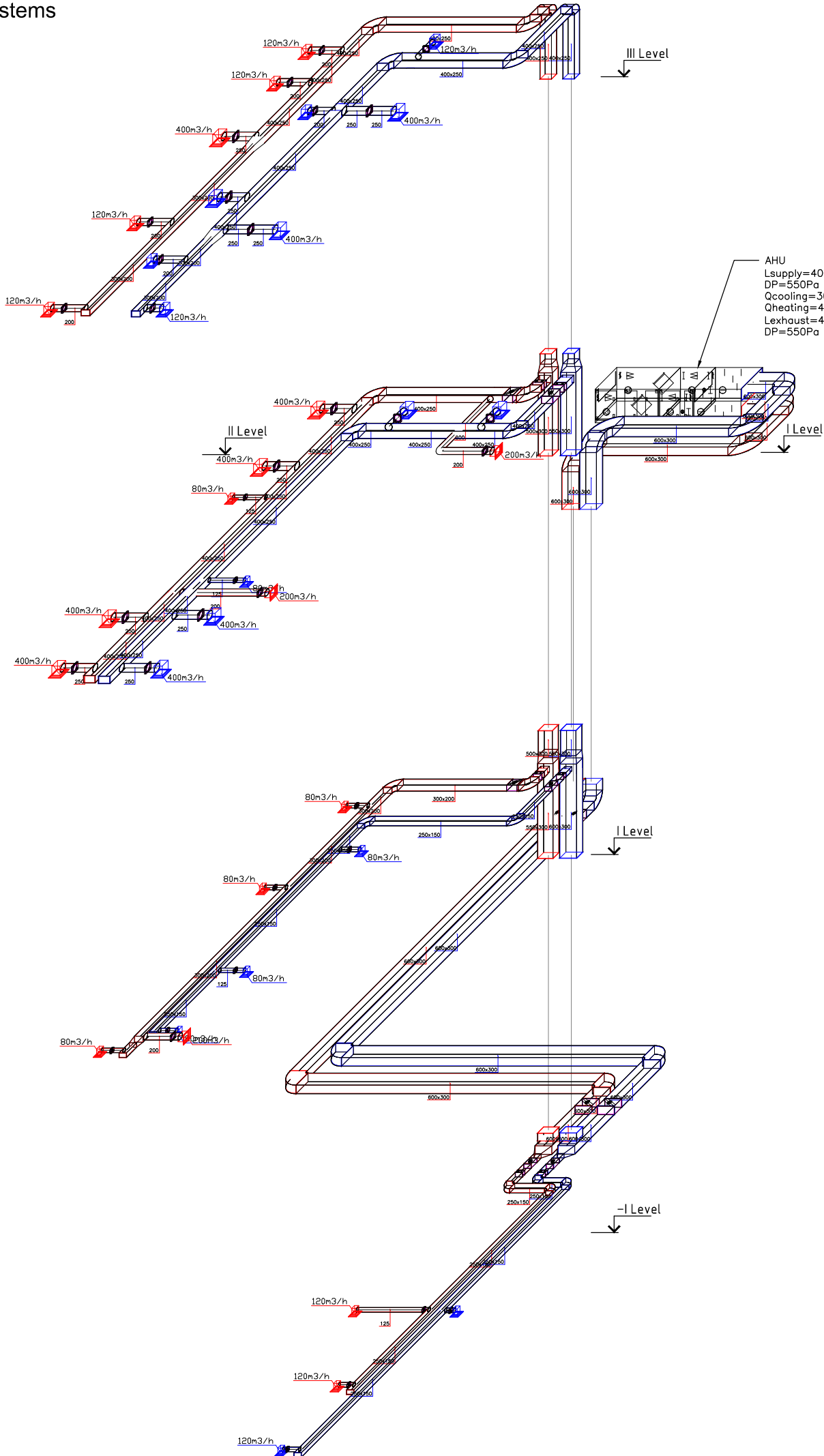


#2 Axnometric View Of Supply And Exhaust Ventilation Systems

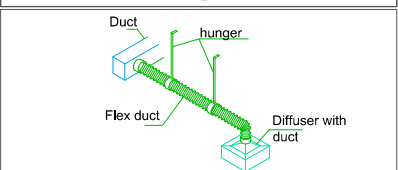
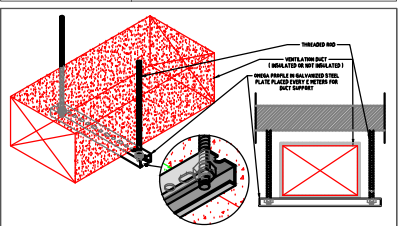
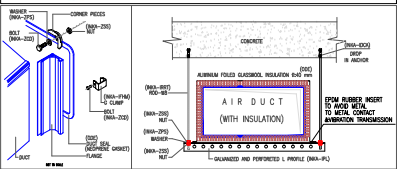
№2 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა



- Supply Duct (with insulation)
- Exhaust Duct (with insulation)
- Flex Duct (with insulation)
- Silencer
- Fire Damper
- Damper
- Supply diffuser
- Exhaust diffuser
- Exhaust Grille
- Up
- Down

MagiCAD 3D image, line drawing	Top view product image, line drawing (2D)	Product name
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN

სახანძრო შესაფრთხილებლის მოწოდება
უნდა მოხდეს საპროექტო საპროექტო
ლოგოსტის ამოწმება, რეგულირებადობა და კაპაზიტის
კეპული და ორივე მხარეს მხარეს მხარეს

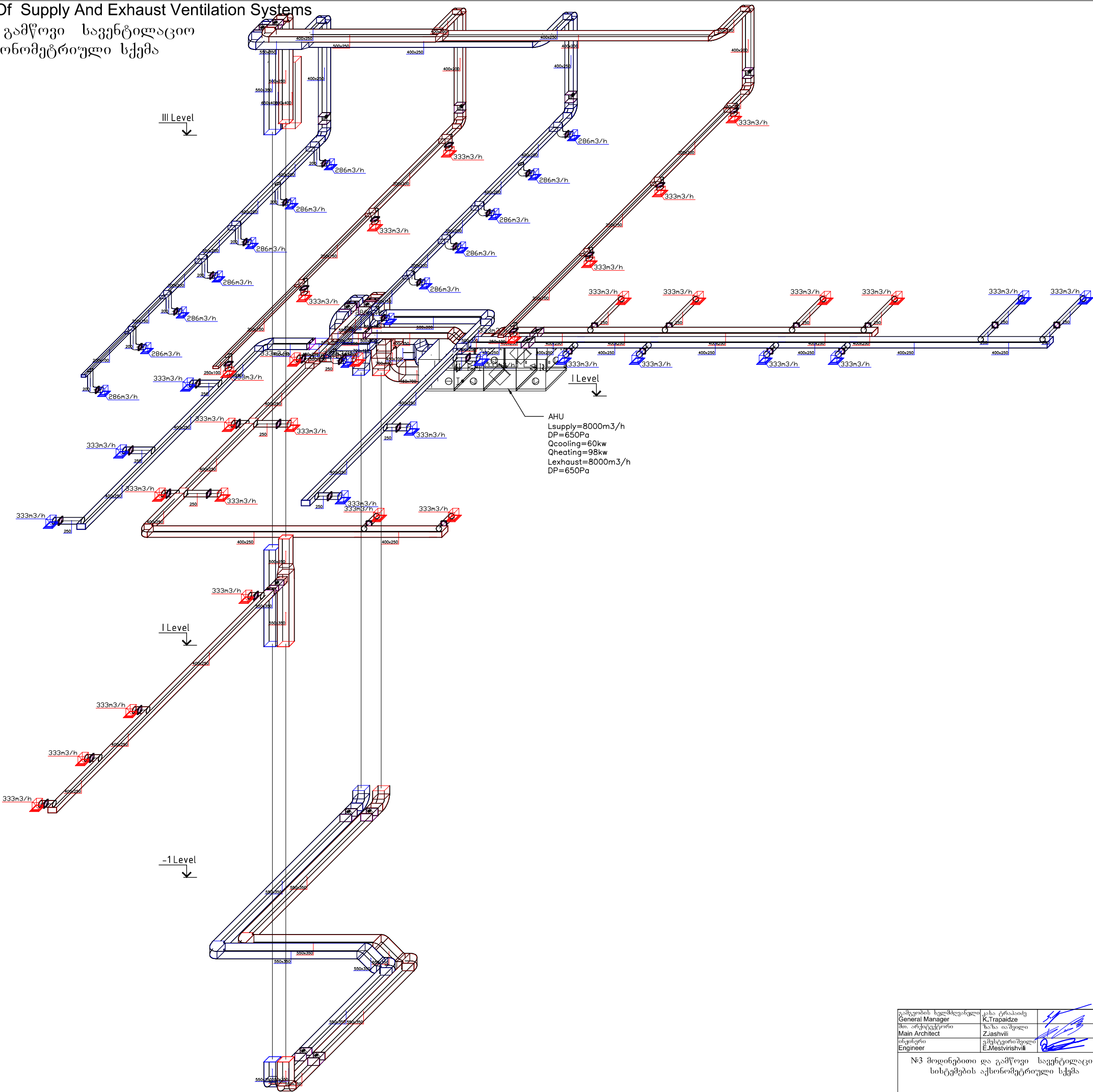


კავშირის ხელმძღვანელი General Manager	კახა ტრაპაიძე K. Trapaidze			ა(ა)იპ საქართველოს მემკვიდრეობა NPLE georgian Heritage სახლი მუზეუმი მცხეთაში Museum Of Mtskheta	2017
მთ. არქიტექტორი Main Architect	ზაზა იაშვილი Z. Jashvili				Scale: 1:200
ინჟინერი Engineer	გიორგი მესტირისი G. Mestvishvili				A3
№2 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა					108

#2 Axnometric View Of Supply And Exhaust Ventilation Systems

#3 Axnometric View Of Supply And Exhaust Ventilation Systems

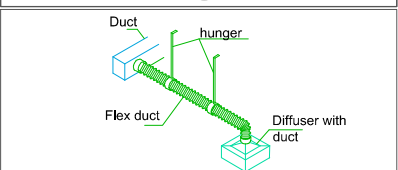
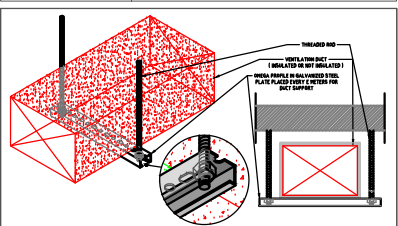
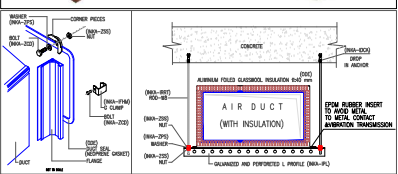
№3 მოდინებითი და გამწოვი სავენტლაციო სისტემების აქსონომეტრიული სქემა



- Supply Duct (with insulation)
- Exhaust Duct (with insulation)
- Flex Duct (with insulation)
- Silencer
- Fire Damper
- Damper
- Supply diffuser
- Exhaust diffuser
- Exhaust Grille
- Up
- Down

MagiCAD 3D image, line drawing	Top view product image, line drawing (2D)	Product name
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN

სახანძრო შესაფრთხილებელი მოწყობის
შენიშვნა მოხდა საპროექტო დოკუმენტაციაში
ლიტერატურის ამოწმების, რეკომენდირებულია კვალიფიკაციის
კერძო და ორგანიზაციის მხარდაჭერა მოხდეს

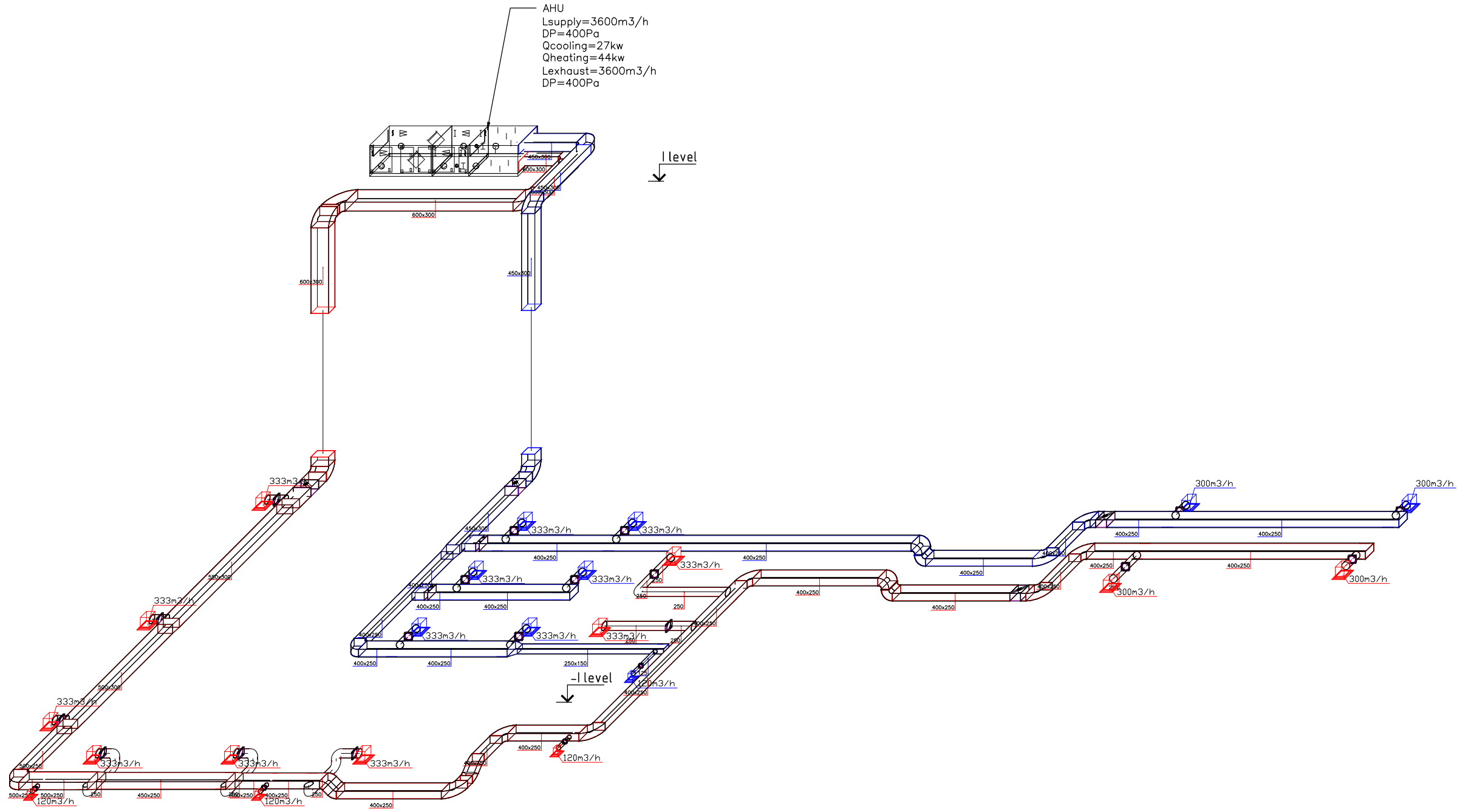


პროექტის ხელმძღვანელი General Manager	პას. გრაფიკი K.Trapaidze			ა(ა)პ საქართველოს მემკვიდრეობა NPLE georgian Heritage სახლი მუზეუმი მცხეთაში Museum Of Mtskheta	2017
მთ. არქიტექტორი Main Architect	ზაზა იაშვილი Z.iashvili				Scale: 1:200
ინჟინერი Engineer	გიორგი მესტიშვილი G.Mestvishvili				A3
№3 მოდინებითი და გამწოვი სავენტლაციო სისტემების აქსონომეტრიული სქემა					109

#3 Axnometric View Of
Supply And Exhaust Ventilation
Systems

#4 Axnometric View Of Supply And Exhaust Ventilation Systems

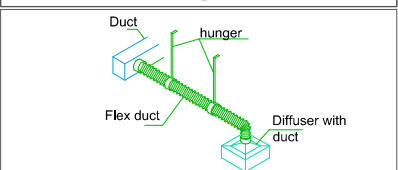
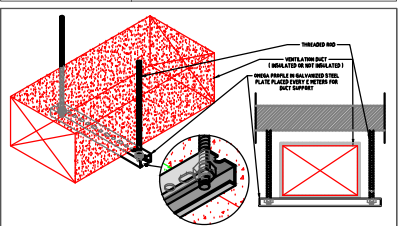
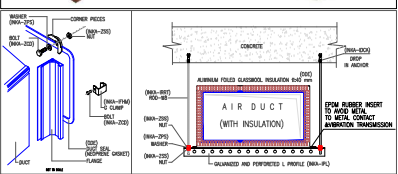
№4 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა



- Supply Duct (with insulation)
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- Damper
- Supply diffuser
- Exhaust diffuser
- Exhaust Grille
- Up
- Down

MagiCAD 3D image, line drawing	Top view picture (2D)	Product name
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN

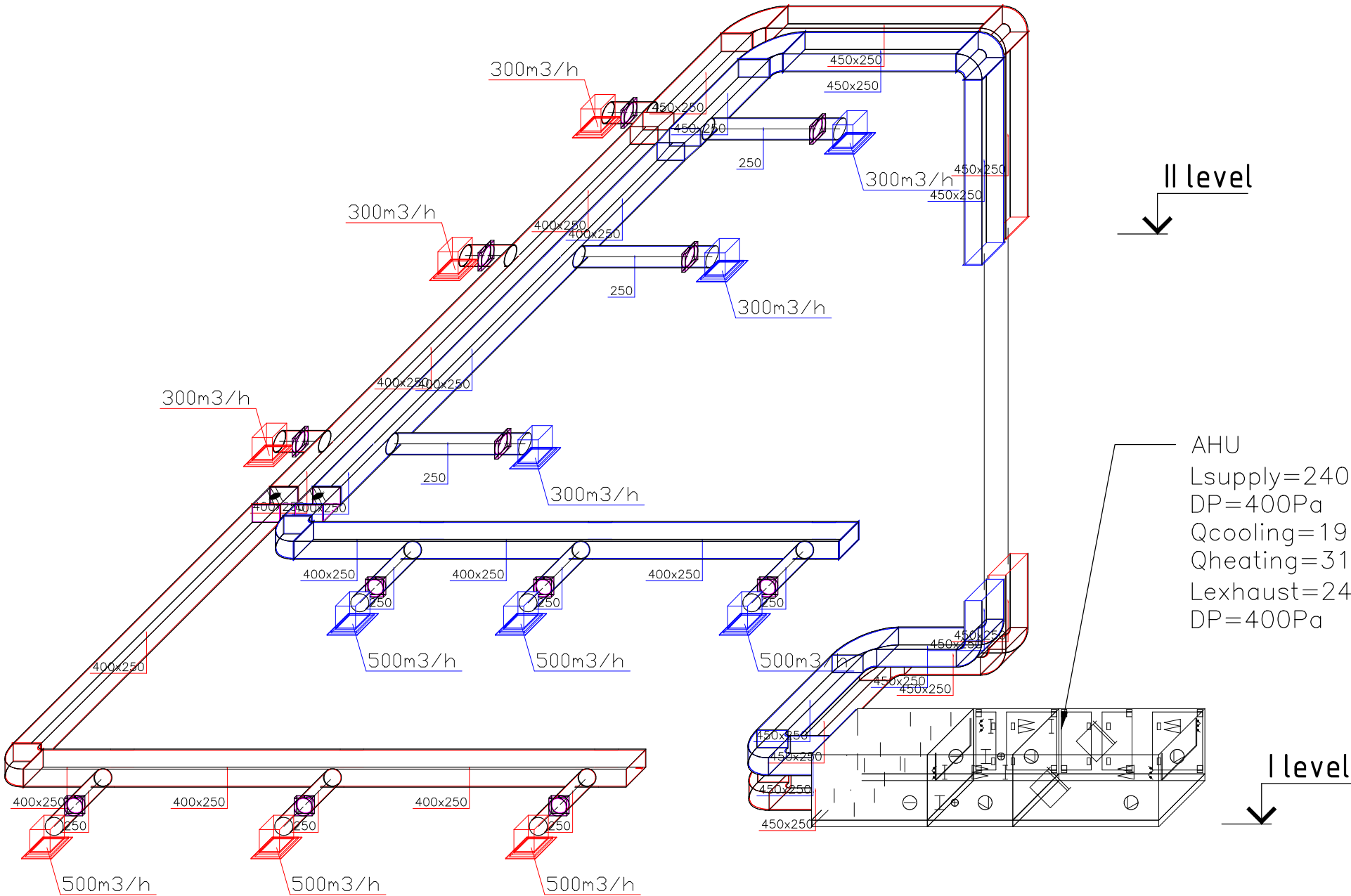
სახანძრო შესაფრთხილებელი მოწყობის
უნაღეს მოხელის საკომუნიკაციო
ლიზინგის ამოცანა, რეკონსტრუქციის და
კაპიტალური და რეკონსტრუქციის
კომპლექსური და რეკონსტრუქციის
კომპლექსური და რეკონსტრუქციის



კომპიუტერული სისტემების General Manager	კახა ტრაპაიძე K.Trapaidze		ა(ა)იპ საქართველოს მემკვიდრეობა NPLE georgian Heritage	2017
მთავარი არქიტექტორი Main Architect	ზაზა იაშვილი Z.iashvili		საქართველოს მემკვიდრეობა Museum Of Mtskheta	Scale: 1:200
ინჟინერი Engineer	გიორგი მესტირია G.Mestiriashvili			A3
№4 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა				110

#5 Axnometric View Of Supply And Exhaust Ventilation Systems

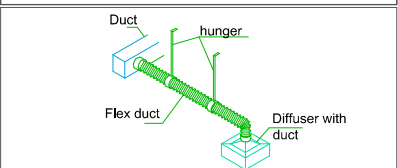
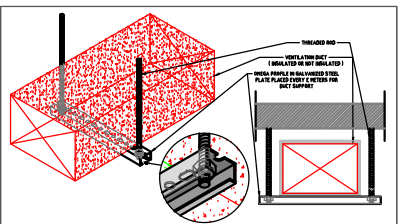
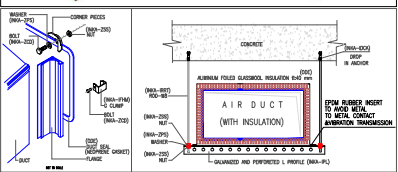
№5 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა



- Supply Duct (with insulation)
- Exhaust Duct (with insulation)
- Flex Duct (with insulation)
- Silencer
- Fire Damper
- Damper
- Supply diffuser
- Exhaust diffuser
- Exhaust Grille
- Up
- Down

MagiCAD 3D image, line drawing	Top view product image (2D)	Product name
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN

სახანძრო შესაფრთხილებელი მოწყობილობა
უნდა მოხდეს საპროექტო დოკუმენტაციაში
ლიტერატურის ამოცანის, რეგულირებადი კაპაზიტის
კელები და ორივე მხარეს მონტაჟი უნდა



პროექტის ხელმძღვანელი General Manager	კახა ტრაპაიძე K. Trapaidze		2017
მთავარი არქიტექტორი Main Architect	ზაზა იაშვილი Z. Jashvili		Scale: 1:200
ინჟინერი Engineer	გიორგი მესტირისვილი G. Mestvishvili		A3

№5 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა

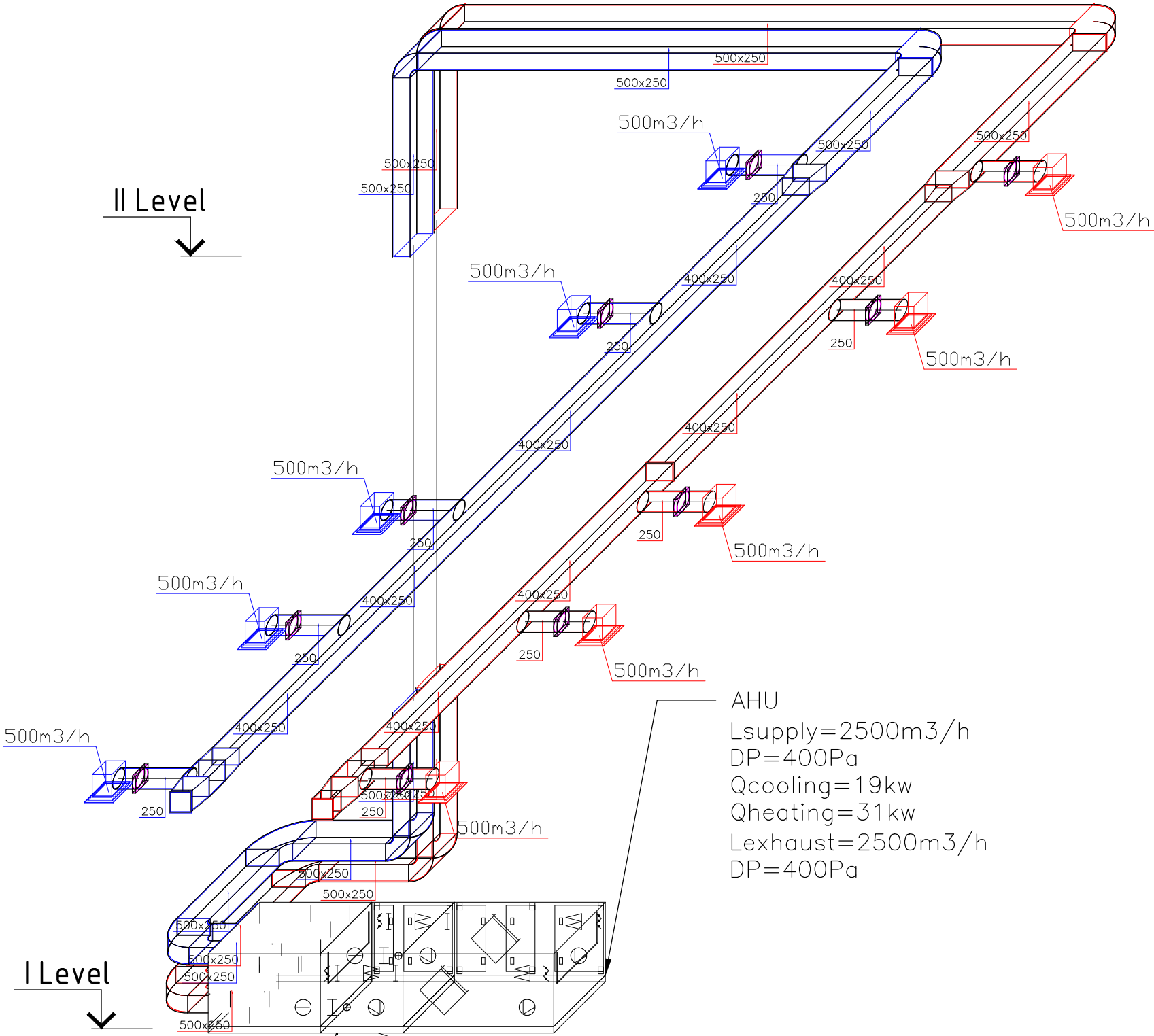
აქსონომეტრიული სქემა
NPLE georgian Heritage
Museum Of Mtskheta

#5 Axnometric View Of Supply And Exhaust Ventilation Systems

111

#6 Axnometric View Of Supply And Exhaust Ventilation Systems

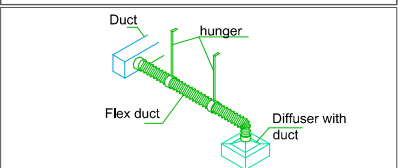
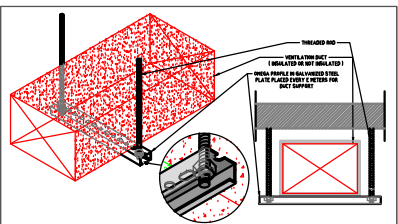
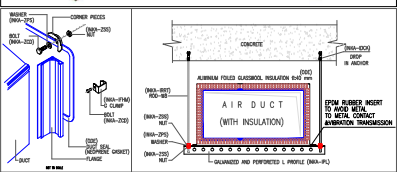
№6 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა



- Supply Duct (with insulation)
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- Flex Duct (with insulation)
- Silencer
- Fire Damper
- Damper
- Supply diffuser
- Exhaust diffuser
- Exhaust Grille
- Up
- Down

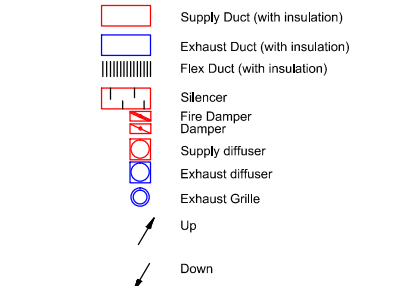
MagiCAD 3D image, line of raw	Top view picture	Product name
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN

სახანძრო შესაფრთხილებლის მოწოდება
უნდა მოხდეს საპროექტო სივრცეში
ლიტერატურის ამოწმება, რეკომენდირებულია კვალიფიკაციის
კერძო და ორივე მხარესთან მშენებლის შეთანხმება

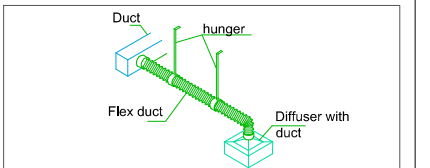


პროექტის ხელმძღვანელი General Manager	კახა ტრაპაიძე K.Trapaidze	2017
მთავარი არქიტექტორი Main Architect	ზაზა იაშვილი Z.Jashvili	Scale: 1:200
ინჟინერი Engineer	გიორგი მესტირისი G.Mestvishvili	აქსონომეტრიული სქემა #6 Axnometric View Of Supply And Exhaust Ventilation Systems
№6 მოდინებითი და გამწოვი სავენტილაციო სისტემების აქსონომეტრიული სქემა		112

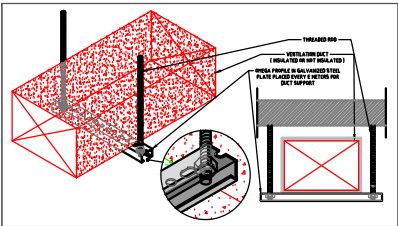
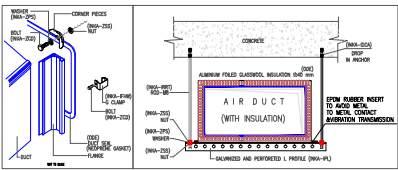
გამწოვი სავენტილაციო
სისტემების აქსონომეტრიული სქემა



MagiCAD 3D image, line drawing	Top view preview (2D)	Product
		DIFFUSER 300x300
		DIFFUSER 225x225
		Extract Grille 200
		DIFFUSER 300x300
		Exhaust Diffuser 120
		Smoke Grille
		HOOD
		DAMPER
		DAMPER
		FIRE DAMPER
		FAN



სახანძრო უსაფრთხოების მიზნით
უნდა მოხდეს საკომუნიკაციო
ლიზების ამოწმება, რეკომენდირებულია ჰვანამბო
კედელი და ორივე მხარეაან მშრალი შედუსვა



ავტორის ხელმოწერა	კახა ტრაპაძე K. Trapidze		ა) ა) ა) საქართველოს მემკვიდრეობა	2017
General Manager	კახა ტრაპაძე K. Trapidze		NPLE georgian Heritage	Scale: 1:200
მთ. არქიტექტორი Main Architect	ზაზა იაშვილი Z. Iashvili		სახლი მუხეზეში მცხეთაში Museum Of Mskheta	A3
ინჟინერი Engineer	გიორგი მესტირისხელი E. Mestvirishvili			
გაშვით სავნერალაიო ხიხტეპეის აქსონომეტრიული სქემა			Axnometric View Of Exhaust Ventilation Systems	



ა(ა)იპ საქართველოს მემკვიდრეობა
NPLe georgian Heritage

ახალი მუზეუმი მცხეთაში
გათბობა გაგარილებს სისტემების ნაწილი

Museum Of Mtskheta
HEATING AND COOLING PART

გამგეობის ხელმძღვანელი
General Manager

კახა ტრაპაიძე
K.Trapaidze

ინჟინერი
Engineer

ე.მესტვირიშვილი
E.Mestvirishvili

#	ნახაზები Plansს უწყისი DRAWING LIST	Page	Format	Sum.Page
I	II	III	IV	V
	გათობა გაგრილების ნაწილი Part Of Heating And Cooling Systems	200		
	დოკუმენტაცია (დანართის სახით) Documents Documents			
1	განმარტებითი ბარათი The Explanatory Note	200.1	A4	10
2	სპეციფიკაცია BOQ	200.2	A4	11
3	თბოდანაკარგების და სითბოს მოღინების ანგარიშები Calculaton Of heat losses	200.3	A4	3
4	გათობა გაგრილების მილგაყვანილობის სისტემის მიმწოდ მილის ჰიდრავლიკური ანგარიშები Calculations Of heating And Cooling Supply Pipe	200.4	A4	41
5	გათობა გაგრილების მილგაყვანილობის სისტემის უკუსვლის მილის ჰიდრავლიკური ანგარიშები Calculations Of heating And Cooling Return Pipe	200.5	A4	41
6	დანადგარების ელექტრო მახასიათებლები	200.6	A4	1
	ნახაზები Plans			
1	სარდაფის სართულის გეგმა გათობა გაგრილების მილგაყვანილობის სისტემების დატანით Basment floor of Heating And Cooling Systems	201	A3	1
2	პირველი სართულის გეგმა გათობა გაგრილების მილგაყვანილობის სისტემების დატანით 1st floor of Heating And Cooling Systems	202	A3	1
3	მეორე სართულის გეგმა გათობა გაგრილების მილგაყვანილობის სისტემების დატანით 2rd floor of Heating And Cooling Systems	203	A3	1
4	მესამე სართულის გეგმა გათობა გაგრილების მილგაყვანილობის სისტემების დატანით 3rd floor of Heating And Cooling Systems	204	A3	1
5	ტექნიკური ოთახის გეგმა გათობა გაგრილების მილგაყვანილობის სისტემების დატანით Technical room , Heating And Cooling Systems	205	A3	1
6	გათობა გაგრილები მილგაყვანილობის სისტემების აქსონომეტრიული სქემა Axonometric View of Heating And Cooling Systems	206	A3	1
6	გათობა გაგრილები მილგაყვანილობის სისტემების აქსონომეტრიული სქემა 1-1 Axonometric View of Heating And Cooling Systems 1-1	206.1	A3	1
6	გათობა გაგრილები მილგაყვანილობის სისტემების აქსონომეტრიული სქემა 1-2 Axonometric View of Heating And Cooling Systems	206.2	A3	1
7	გათობა გაგრილების მილგაყვანილობის პრინციპიალური სქემა Principial Scheme of Heating And Cooling Systems	207	A3	1
			Sum.	116

ქ. მცხეთის მუზეუმის შენობა ნაგებობის გათბობა გაბრილების სისტემების პროექტირებისათვის განკუთვნილი განმარტებითი ბარათი.

პროექტირებისათვის განკუთვნილი განმარტებითი ბარათი დამუშავებულია.

- საქართველოში მოქმედი საპროექტო ნორმების.
- ქ. თბილისის კლიმატური პირობების.
- არქიტექტურულ-ტექნოლოგიური ნახაზების მონაცემთა ბაზების მიხედვით
- დამკვეთის მიერ მოცემული ტექნიკური დავალების მიხედვით.

I. ზოგადი ნაწილი.

ბარე ჰაერის საანგარიშო პარამეტრებია:

ზამთრის პერიოდში: ტემპერატურა - 9.0°C.

ზაფხულის პერიოდში: ტემპერატურა +40°C.

შიგა ჰაერის ტემპერატურებია:

ზამთრის პერიოდში – 20-22°C.

ზაფხულის პერიოდში- კონდიციონერულ სითავეებში 23-25°C

1. DT=80- 60 °C ტემპერატურულ რეჟიმზე მომუშავე წყალგამაცხელებელი ძვაბი

2. შენობის გათბობისთვის შერჩეულია $N=350\text{kW}$ სიმძლავრის 2ც ქვაბი (სულ $N=700\text{kW}$) ზამთრის გარე $T=-9^\circ\text{C}$ საანგარიშო საპროექტო ტემპერატურისათვის რომელიც ემსახურება შენობის გათბობა-ვენტილაციის და ცხელწყალმომარაგების სისტემებს.
3. საქვაბე გათვალისწინებულია, მაღალი ეფექტურობის და ექსპლუატაციაში უსაფრთხო გათბობა-ვენტილაციისთვის და ცხელიწყალ მომარაგებისათვის განკუთვნილი მსოფლიოს სხვადასვა ფირმების მიერ წარმოებული ქვაბები , რომლებზეც დამონაშებულია, ბუნებრივი აირის $P=20\text{mbar}$ დაბალ წნევაზე მომუშავე სანთურები.
4. ქვაბებში წყლის სამუშაო ტემპერატურულ რეჟიმს შეადგენს $DT=80- 60^\circ\text{C}$.
5. პროექტით ძირითად საწვავად გათვალისწინებულია $P=20\text{mbar}$ დაბალი წნევის ბუნებრივი აირი.
6. ქვაბები აღჭურვილია, ბუნებრივი აირის $P=20\text{mbar}$ დაბალ წნევაზე მომუშავე სანთურებით, რომლებიც თავისი $E=91-93\%$ მ.ქ.კოეფიციენტის მონაცემებით უზრუნველყოფენ საწვავის მაქსიმალურ და ეფექტურ წვას.
7. საქვაბეში დაპროექტირებულია ნორმით გათვალისწინებული ბუნებრივი ვენტილაცია, მათ შორის სახურავზე დამონტაჟებული ორი ცალი დეფლექტორი $\Phi 400\text{მმ}$ დიამეტრით და კედელში $F=1.5\text{მ}^2$ ფართის გამწოვ-მოდინებითი მეტალის დეკორატიული გისოსი.
8. პროექტით თვითოეული ქვაბებისათვის გათვალისწინებულია $\Phi 350\text{მმ}$ დიამეტრის საკვამლე მილი. შაკვამური უნდა აცდეს შენობის სახურავს მინ. 2 მეტრით რათა არ მოხდეს სავენტილაციო აგრეგატებში მავნე ნივთიერებების შეტანა.
9. კონდესატის თავიდან აცილების მიზნით საკვამლე მილები იმოსება $d=50\text{მმ}$ სისქის სპეციალური ცეცხლგამძლე იზოლაციით და გარედან იმოსება $d=0,5\text{მმ}$ სისქის ფოლადის მოთუთიებული ფურცლით.

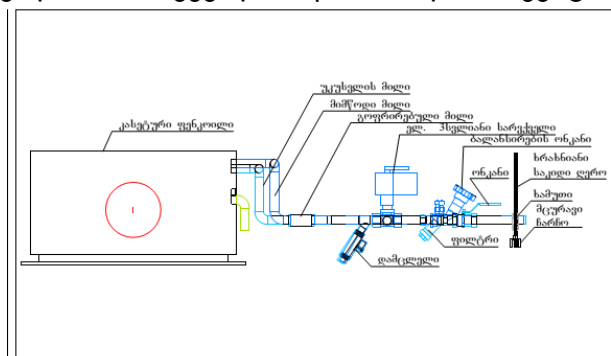
DT=7-12 °C ტემპერატურულ რეჟიმზე და ეკოლოგიურად სუფთა სამაცივრო აბენტზე მომუშავე მაცივარ მანქანა (Chiller)-ი. აღჭურვილი საცირკულაციო ტუმბოთი გაგარილების სისტემა დაპროექტებულია პრინციპით **“Chiller +Fencoil”** რომლის მოთხოვნილი ჯამური სიმძლავრე გარე **t =+45°C** . ტემპერატურის დროს შეადგენს **N=284kw** საანგარიშო პირობებისათვის (თბოდადაკარგების მიხედვით) დადგენილი სიმძლავრეა 2ჯალი **N=350kw** ჩილერი.

სადრენაჟო (საკონდენსაციო) სისტემა.

პროექტით სიცივის სისტემისათვის განკუთვნილი **Φ32mm** დიამეტრის სპეციალური პლასტმასის მილებისაგან დაპროექტირებული სადრენაჟო სისტემა უზრუნველყოფს ყველა გამაცივებელი ჭერის კასეტური ფენკოილებიდან კონდენსატის მოცილებას და შესაბამისად მის ჩაღვრას სახურავიდან წვიმის წყლის გამყვან მილგაყვანილობის სისტემაში შუალედური სიფონების მეშვეობით. ზემოთ აღნიშნული სადრენაჟო სისტემა განლაგებულია შეკიდულ ჭერში საჭირო **J=1%** დახრილობით, შემოსილია **d=10mm** სისქის ზემოთ მოყვანილი კაუჩუკის თბური იზოლაციით.

მილგაყვანილობის სისტემა დათბუნებული არის ნიტრილის რეზინის 9 მმ სისქის EN 14706, EN 14707 და EN 14304 სტანდარტების შესაბამისად თბოგამტარობა $\lambda 0^\circ = 0.033 = W/(m \cdot K)$ თბოიზოლაციით. შოვები და გადაბმები უნდა დამუშავდეს ზედმინევნით ისე რომ გამოირიცხოს მილის ზედაპირზე ჰაერის მოხვედრა. ჩამკეტ მარეგულირებელი არმატურა სრულად უნდა შეიფუთოს. აუცილებელია მოხდეს ყოველი დეტალის ინდივიდუალური დამუშავება და შემდგომ არმატური შესაბამისად შეფუთვა.

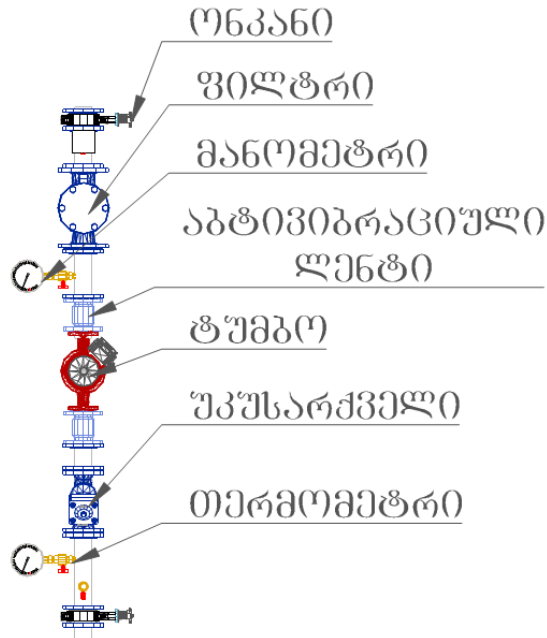
Φ110 დიამეტრის ზემოთ გათვალისწინებული არის არმირებული PP (პოლიეთილენის მილები) PEX-a ტექნიკური მახასიათებლებით. დასაშვებია ასევე არმირებული PPR (პოლიპროპილენის მილები) PEX-B ტიპის . მილის ნომინალური წნევა არ უნდა იყოს 16 ატმ ნაკლები წნევის მედეგობის რეკომენდირებული არის PN25 წნევის ნომინალის მილები. არმირება აუცილებელია. იატაკის გათბობის მილებად შერჩეულია PP (პოლიეთილენის მილები) PEX-a ტექნიკური მახასიათებლებით. ფანკოილებს მართავს კედლის მექანიკური გადამრთველი პულტები (არასენსორული). ყველა ფანკოილი აღჭურვილი არის შემავალზე ონკანით ფილტრით სამსვლიანი სარქველით და საბალანსო ვენტილით.



ზოგადი ტექნიკური მახასიათებლები

საქვებში კოლექტორზე განთავსებული არის რეცირკულაციის ტუმბოები ყველა ტუმბო აღჭურვილი არის მშრალი სვლის დაცვით და შესაბამისი ჩამკეტ მარეგულირებელი არმატურით ისეთებიც როგორიც არის საბალანსო ვენტილი დამცლელი მანომეტრი და სხვა. პროექტში წარმოდგენილი თანმიმდევრობის შესაბამისად.

კოლექტორზე განთავსებული არის რეცირკულაციის ტუმბოები



1. გარე მილგაყვანილობის სისტემებზე თბოიზოლაციის შემდგომ მოხდეს შესაფუთი მასალის დაცვა მოთუთიებული თუნუქის დამატებითი ფენით, რომელიც უზრუნველყოფს წლების განმავლობაში შესაფუთი მასალის მექანიკური დაზიანებისაგან დაცვას. რაც აუცილებელია სისტემის გამართულად მუშაობისათვის. აღნიშნული სამუშაოები ჩატარდეს

საცავისთვის სისტემები დაპროექტებულია „Heatpump+Precizion Cooling Unit“

ეკოლოგიურად სუფთა სამაცივრო აგენით დამუხტული (მაგ: R134a.R407.R410 დასხვა) ჰაერი-წყალი პრინციპით შესრულებული, 40%-იანი შუალედური სითბოს მიმღები ელემენტით, საცირკულაციო ტუმბოთი და ჰიფრომოდულით, ზამთრის და ზაფხულის რეჟიმზე მომუშავე "თბურიტუმბო" რომლის თბოტექნიკური მაჩვენებლებია:

1. ზაფხულის რეჟიმი $N=25\text{kw}$ სიცივის სიმძლავრის, ზაფხულის $T=42^\circ\text{C}$ დროს და $DT=7-12^\circ\text{C}$ ცივი წლის მომზადებული ამორთქლებელით, 40%-იანი შუალედური სითბოს მიმღები ელემენტით სიმძლავრით $N=16\text{kw}$ და $T=+50/40^\circ\text{C}$ ტემპერატურულ რეჟიმზე მომუშავე ცხელი წყლის მომზადებელი კვანძით, რომლის კონდესატორის გაციება ხდება გარე ჰაერით, ზაფხულის გარე ჰაერის საანგარიშო პარამეტრებზე

2. ზამთრის რეჟიმი: $N=16\text{kw}$ სითბოს სიმძლავრის $T=-12^\circ\text{C}$ საანგარიშო პარამეტრზე მომუშავე ამორთქლებელით და $T=+50/40^\circ\text{C}$ ტემპერატურ მომუშავე ცხელი წყლისმომზადებელი კვანძით

(რომელიც ღჭურვილია: კოპლექტი: ფილტრით ,უკუსარქველით და ჩამკეტი მარეგულირებელი ვენტილებით)

სამაცივრო ციკლით მომუშავე მოწყობილობა, რომელიც ახდენს არსებული პოტენციალის სითბური ენერგიის გარდაქმნას მაღალი პოტენციალის სითბოდ, ამ უკანასკნელის შენობაში გადატუმბვის შემდეგ, შეიძლება გამოყენებული იქნას ჰაერის ან წყლის გასათბობად სასურველ ტემპერატურამდე; ამას- თანავე შესაძლებლობას იძლევა შენობაში არსებულ ჭარბი სითბო გადაიტუმბოს გარემოში (ამ შემთხვევაში ადგილი აქვს შენობის ჰაერის გაგრილებას). ამრიგად თბური ტუმბო რევერსიული მანქანაა, რომელსაც შეუძლია როგორც გათბობის, ასევე გავრი- ლების რეჟიმშიც მუშაობა. თბური ტუმბო სამაცივრო ციკლის განსახორციელებლად თავად მოიხმარს გარკვეული რაოდენობის ელექტროენერგიას, რომლის შესაბამისი სითბური ენერგიისა და გარემოდან (გრუნტი, ჰაერი, 2 წყალსატევები და ა.შ.) არინებული მნიშვნელოვნად მეტი თბური ენერგიების ჯამი მოიხმარება მოთხოვნილებისამებრ. ასე მაგალი- თად, თბური ტუმბოს შესასვლელზე 1 კვტ სიმძლავრის ელექტრო- ენერგიის მიწოდებით მივიღებთ 3 კვტ სიმძლავრის თბურ ენერ- გიას (იხ. ნახაზი). აგრეგატის ეფექტურობას ახასიათებენ სითბოს გარდაქმნის კოეფიციენტი (COP), რომელიც წარმოადგენს მიღე- ბული თბური ენერგიის ფარდობით მოხმარებული ელექტროენერ- გიის შესაბამის სითბურ ენერგიასთან. მოყვანილ შემთხვევაში $COP=3$.

ყველა მაღალი ხარისხის თბური ტუმბო აღჭურვილია დამატები- თი ელექტრული თბური ელემენტით, რომელიც უზრუნველყოფს სანიტარულ-ჰიგიენურ უსაფრთხოების მოთხოვნებს: ელექტრული თბური ელემენტი საჭიროების შემთხვევაში თბური ტუმბოდან გამომავალ წყალს აცხელებს სანიტარულ-ჰიგიენური მოთხოვნების შესაბამის მინიმალურ ტემპერატურამდე, რათა არ დაუშვას ლეგიონელას ბაქტერიების ფორმირება.

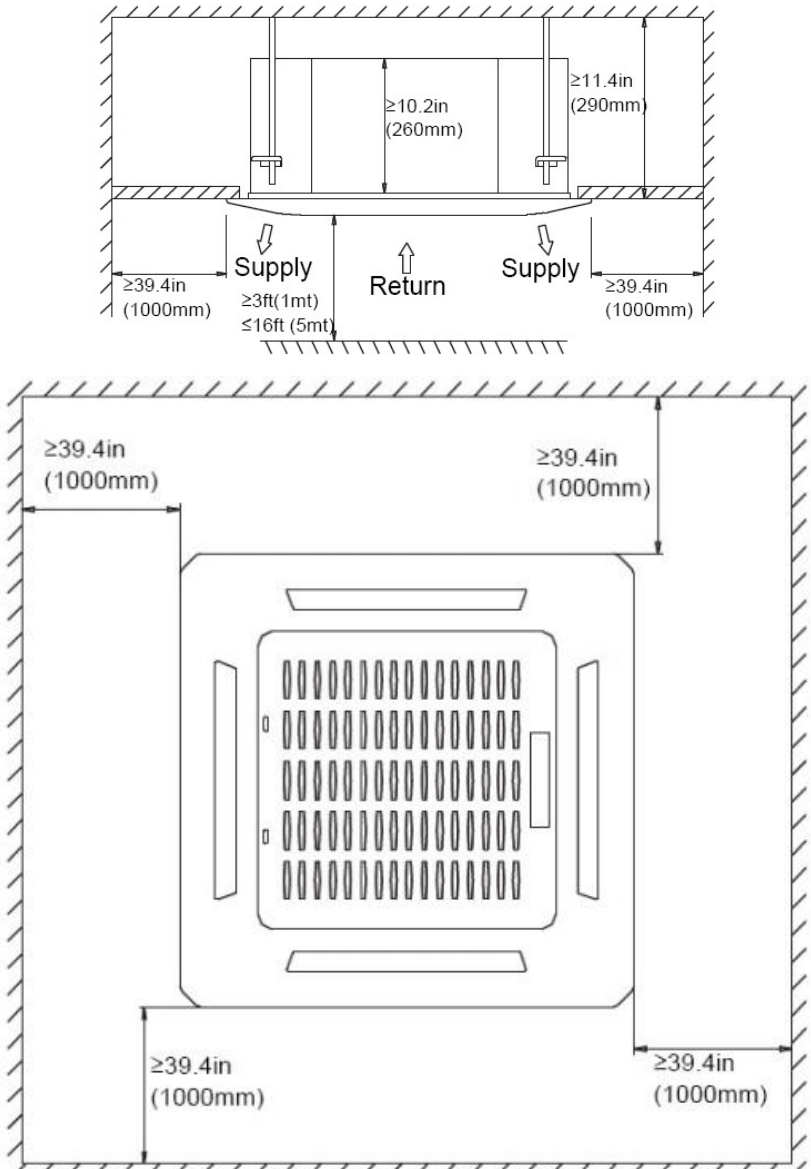
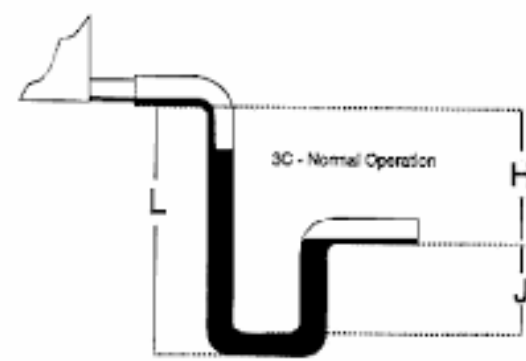
თბური ტუმბო წარმოადგენს აირკომპრესიულ სამაცივრო დანადგარს, რომელიც შედგება შემდეგი ძირითადი კომპონენტებისაგან:

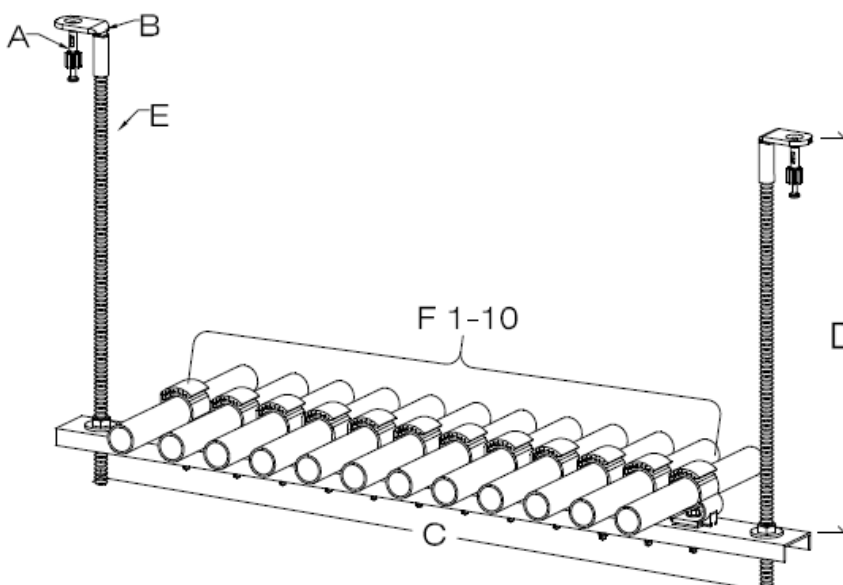
- კომპრესორი;
- კონდენსატორი (თბომცვლელი);
- გამაფართოებელი ვენტილი;
- ამორთქლებელი(თბომცვლელი).

საცავის სივრცეში და საცავებში ტენიანობას უზრუნველყოფს პრეციზიული კონდენციონერი რომლის მუშაობის არეალი იქნება $+17^{\circ}\text{C}$ $+25^{\circ}\text{C}$ $RH=50\pm 5\%$, გაგრილების სისტემა მუშაობს შემდეგნაირად – აპარატურის მიერ გამოყოფილი სითბო გადაეცემა მასში გამავალ ჰაერს, გამთბარი ჰაერი გაგრილების კარადის ვენტილატორების დახმარებით ხვდება მის რადიატორებში, რომლებშიც მოძრაობს ჩილერის მიერ მოწოდებული ცივი სითხე, რაც იწვევს ჰაერის გაცივებას და რადიატორში მოძრავი სითხის გათბობას, რომელიც ბრუნდება ჩილერში და ხდება მისი გაცივება, შემდეგ ეს პროცესი გრძელდება იგივე სქემით. რომელიც ჰაერის ტემპერატურის ზუსტ (პრეციზიულ, $\pm 1^{\circ}\text{C}$) რეგულირებას ახორციელებს გაგრილების კარადა მასში შესული და გამოსული ჰაერის ნაკადების ტემპერატურაზე დაყრდნობით. გაგრილების კარადას ასევე გააჩნია კონდენსატის შეგროვების და გადღვრის სისტემა.

შენიშვნა:

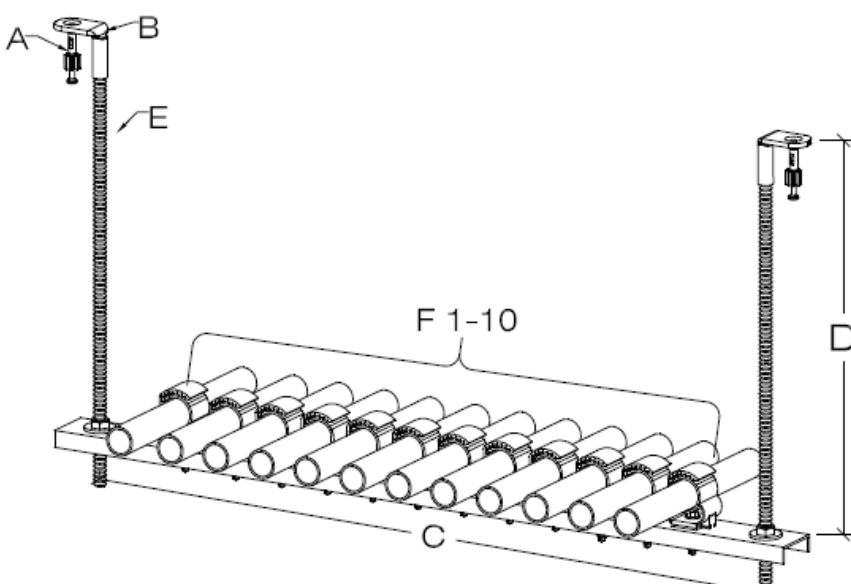
1. სამონტაჟო ღირებამ სპეციფიკაციაში ჩამოთვლილი მასალები ღააზუსტოს მონტაჟის ღაუქებაგდე.

No.	აღწერა	სურათი
საინსტალაციო კვანძები		
	კასეტური ფანკოლის დაკიდების მეთოდი და შეზღუდვები	
	ფანკოლის სიფონის სიმაღლის განსაზღვრის მეთოდი J=1/2H J=მილის კვეთი *3	

მიღების დაკიდების პრინციპული სქემა A-მეტალის ანკერი B -საკიდი C-ხარისა D-დაკიდების სიმაღლე პროექტის შესაბამისად E-რეზბიანი მეტალის ღერო F-მიღების რაოდენობა პროექტის შესაბამისად																																																																																				
მიღგაყვანილობისთვის საკიდების დაშორება	<table><tr><th colspan="7">Suggested Max. Span between Supports (steel pipe)</th></tr><tr><th rowspan="2">Nominal Pipe Size in/mm</th><th colspan="4">Water Service (meters)</th><th colspan="2">Gas or Air Service (meters)</th></tr><tr><th>1)</th><th>2)</th><th>3)</th><th>4)</th><th>1)</th><th>2)</th></tr><tr><td>1 / 25</td><td>2.1</td><td>2.7</td><td>3.7</td><td>2.0</td><td>2.7</td><td>2.7</td></tr><tr><td>1.25 / 32</td><td>2.1</td><td>3.4</td><td>3.7</td><td>2.0</td><td>2.7</td><td>3.4</td></tr><tr><td>1.5 / 40</td><td>2.1</td><td>3.7</td><td>4.6</td><td>2.0</td><td>2.7</td><td>4.0</td></tr><tr><td>2 / 50</td><td>3.1</td><td>4.0</td><td>4.6</td><td>2.0</td><td>4.0</td><td>4.6</td></tr><tr><td>3 / 80</td><td>3.7</td><td>4.6</td><td>4.6</td><td>2.0</td><td>4.6</td><td>5.2</td></tr><tr><td>4 / 100</td><td>4.3</td><td>5.2</td><td>4.6</td><td>2.0</td><td>5.2</td><td>6.4</td></tr><tr><td>6 / 150</td><td>5.2</td><td>6.1</td><td>4.6</td><td>3.0</td><td>6.4</td><td>7.6</td></tr><tr><td>8 / 200</td><td>5.8</td><td>6.4</td><td>4.6</td><td>3.0</td><td>7.3</td><td>8.5</td></tr><tr><td>10 / 250</td><td>5.8</td><td>6.4</td><td></td><td>3.0</td><td>7.3</td><td>9.5</td></tr></table> 1) ANSI B31.1 Power Piping Code 2) ANSI B31.9 Building Services Piping Code 3) NFPA 13 Sprinkler systems 4) Ministry of Land & Transportation of Japan: Mechanical Equipment Construction Guide	Suggested Max. Span between Supports (steel pipe)							Nominal Pipe Size in/mm	Water Service (meters)				Gas or Air Service (meters)		1)	2)	3)	4)	1)	2)	1 / 25	2.1	2.7	3.7	2.0	2.7	2.7	1.25 / 32	2.1	3.4	3.7	2.0	2.7	3.4	1.5 / 40	2.1	3.7	4.6	2.0	2.7	4.0	2 / 50	3.1	4.0	4.6	2.0	4.0	4.6	3 / 80	3.7	4.6	4.6	2.0	4.6	5.2	4 / 100	4.3	5.2	4.6	2.0	5.2	6.4	6 / 150	5.2	6.1	4.6	3.0	6.4	7.6	8 / 200	5.8	6.4	4.6	3.0	7.3	8.5	10 / 250	5.8	6.4		3.0	7.3	9.5
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	საბალანსო ვენტილი	
	სამსვლიანი სარქველი	
	სამსვლიანი სარქველის სერვოდრავი 220V	

მილის შეფუთვის მეთოდოლოგია იხილეთ შემდგომ ქვეთავებში.

მილების დაკიდების პრინციპიპალური სქემა A-მეტალის ანკერი B -საკიდი C-ხარისხა D-დაკიდების სიმაღლე პროექტის შესაბამისად E-რეზბიანი მეტალის ღერო F-მილების რაოდენობა პროექტის შესაბამისად	
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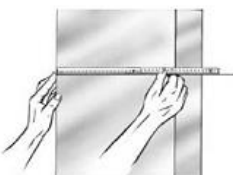
1.1	მილგაყვანილობის თვის საკიდების დაშორება	<table><tr><th colspan="7">Suggested Max. Span between Supports (steel pipe)</th></tr><tr><th rowspan="2">Nominal Pipe Size in/mm</th><th colspan="4">Water Service (meters)</th><th colspan="2">Gas or Air Service (meters)</th></tr><tr><th>1)</th><th>2)</th><th>3)</th><th>4)</th><th>1)</th><th>2)</th></tr><tr><td>1 / 25</td><td>2.1</td><td>2.7</td><td>3.7</td><td>2.0</td><td>2.7</td><td>2.7</td></tr><tr><td>1.25 / 32</td><td>2.1</td><td>3.4</td><td>3.7</td><td>2.0</td><td>2.7</td><td>3.4</td></tr><tr><td>1.5 / 40</td><td>2.1</td><td>3.7</td><td>4.6</td><td>2.0</td><td>2.7</td><td>4.0</td></tr><tr><td>2 / 50</td><td>3.1</td><td>4.0</td><td>4.6</td><td>2.0</td><td>4.0</td><td>4.6</td></tr><tr><td>3 / 80</td><td>3.7</td><td>4.6</td><td>4.6</td><td>2.0</td><td>4.6</td><td>5.2</td></tr><tr><td>4 / 100</td><td>4.3</td><td>5.2</td><td>4.6</td><td>2.0</td><td>5.2</td><td>6.4</td></tr><tr><td>6 / 150</td><td>5.2</td><td>6.1</td><td>4.6</td><td>3.0</td><td>6.4</td><td>7.6</td></tr><tr><td>8 / 200</td><td>5.8</td><td>6.4</td><td>4.6</td><td>3.0</td><td>7.3</td><td>8.5</td></tr><tr><td>10 / 250</td><td>5.8</td><td>6.4</td><td></td><td>3.0</td><td>7.3</td><td>9.5</td></tr></table>	Suggested Max. Span between Supports (steel pipe)							Nominal Pipe Size in/mm	Water Service (meters)				Gas or Air Service (meters)		1)	2)	3)	4)	1)	2)	1 / 25	2.1	2.7	3.7	2.0	2.7	2.7	1.25 / 32	2.1	3.4	3.7	2.0	2.7	3.4	1.5 / 40	2.1	3.7	4.6	2.0	2.7	4.0	2 / 50	3.1	4.0	4.6	2.0	4.0	4.6	3 / 80	3.7	4.6	4.6	2.0	4.6	5.2	4 / 100	4.3	5.2	4.6	2.0	5.2	6.4	6 / 150	5.2	6.1	4.6	3.0	6.4	7.6	8 / 200	5.8	6.4	4.6	3.0	7.3	8.5	10 / 250	5.8	6.4		3.0	7.3	9.5
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მილის ნიტრილის იზოლაციით შეფუთვის მეთოდოლოგია

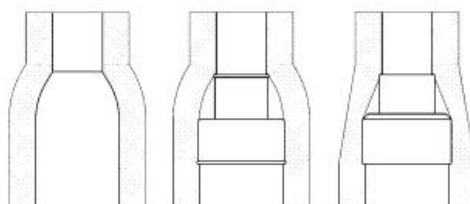
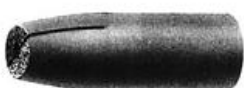
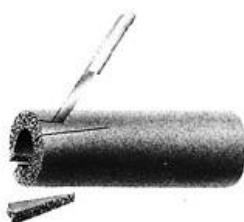


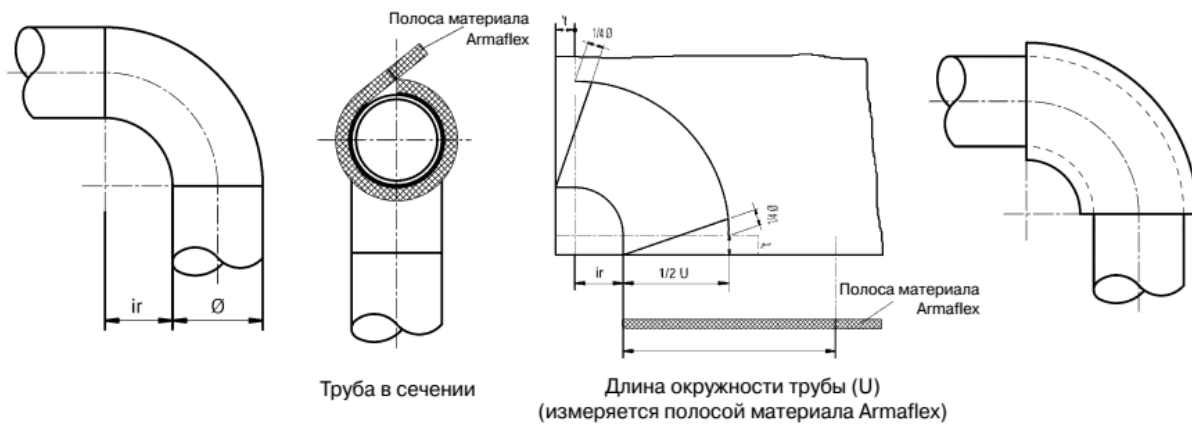


*

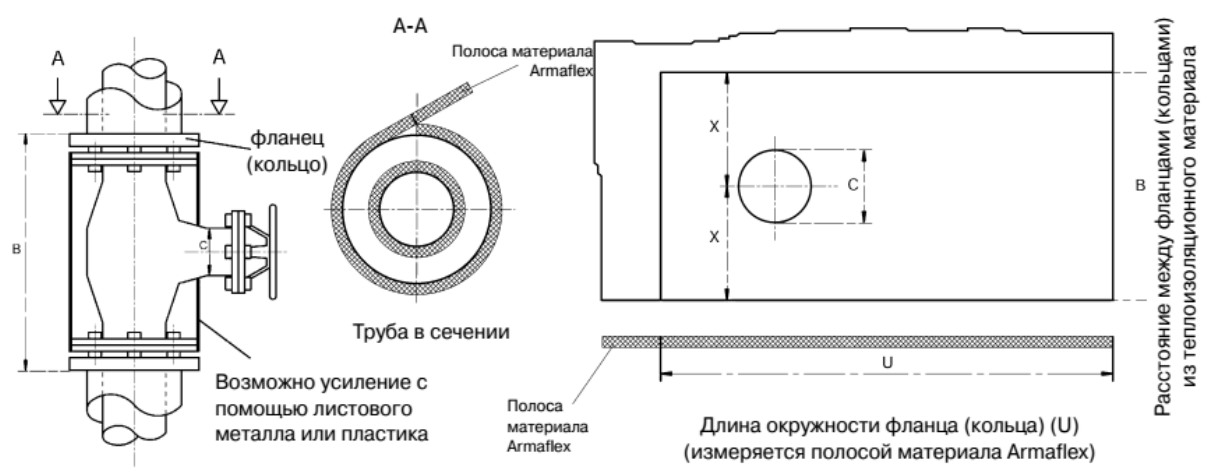


**





	D	F	H	K	M	R	T	V
t	6 мм	10 мм	13 мм	16 мм	19 мм	25 мм	32 мм	50 мм



EXPLANATORY NOTE

Explanatory note for the Project of heating and cooling systems of the of the Museum of Mckheta, is prepared according to:

- Design norms acting in Georgia
- Climatic conditions in Tbilisi
- Architecturally-technological drawings
- Client's draft proposal

Cooling /heating parameters of the building Thermal calculations for the Municipal House Culture In Lagodekhy carried out for external air design temperature in the cold period $t = -9.0^{\circ}\text{C}$ and external air design temperature in the warm period $t = +40.0^{\circ}\text{C}$. As result, heat losses during the cold period are $N = 180\text{kW}$ "Boiller+Cassette Fencoil+Radiator" and heat gain during the warm period – $N = 284\text{kW}$. (Chiller +Fencoil+AHU")

Heat and cool supply system – "Fancoils" system

Various capacity and dimensions ($600*600*300(\text{h})$ and $900*900*300(\text{h})$) cassette type ceiling fancoils working on $Dt = 80-60^{\circ}\text{C}$ heating temperature regime and $Dt = 7-12^{\circ}\text{C}$ cooling temperature regime are considered as air cooling and heating units

Fancoils are equipped with the standard control panel, three-way valves and condensate drainage pumps.

Hot water boiler working on $DT = 80-60^{\circ}\text{C}$ temperature regime

1.

boiler, each $2*N = 350\text{kW}$ capacity, designed for external air temperature in the cold period $T = -12^{\circ}\text{C}$ are located in the boiler-room. boilers serve the heating, ventilation and hot water supply systems of the building area.

Refrigerating machine chiller working on the water.

Under the Project preparation of $DT = 7-12^{\circ}\text{C}$ temperature regime for the cooling system is implemented by high-performance, fully automatized, low noise, compatible with the general control system refrigerating machines chillers working on the water. $2*N = 350\text{kW}$.

Performance of chiller's condencers should be ensured for external air design temperature in the warm period $+45^{\circ}\text{C}$

გათბობა –გაგარილება სპეციფიკაცია 200.2

#	დასახელება	ზომა	ტიპი	რაოდენობა	სიგრძე,მ	იზოლაც,მ2	ფართი მ2
1	მილი	50	მეტალი		1		
2	მილი	108	მეტალი		16.8		
3	მილი	127	მეტალი		9.5		
4	მილი	125	მეტალი		107.8		
5	მილი	150	მეტალი		9.9		
6	მილი	200	მეტალი		120		
7	მილი	350	მეტალი		24.1		
8	მილი	20	პლასტმასი		454.6		
9	მილი	25	პლასტმასი		265.7		
10	მილი	32	პლასტმასი		741.1		
11	მილი	40	პლასტმასი		204.4		
12	მილი	50	პლასტმასი		293		
13	მილი	63	პლასტმასი		420.8		
14	მილი	75	პლასტმასი		47.2		
15	მილი	90	პლასტმასი		52.3		
16	მილი	110	პლასტმასი		63.2		
17	მილი	200	პლასტმასი		4.4		
18	მილი-90	108	მეტალი	6			
19	მილი-90	127	მეტალი	4			
20	მილი-90	125	მეტალი	23			
21	მილი-90	150	მეტალი	2			
22	მილი-90	200	მეტალი	8			
23	მილი-90	20	პლასტმასი	93			
24	მილი-90	25	პლასტმასი	44			
25	მილი-90	32	პლასტმასი	138			
26	მილი-90	40	პლასტმასი	38			
27	მილი-90	50	პლასტმასი	48			
28	მილი-90	63	პლასტმასი	86			
29	მილი-90	75	პლასტმასი	10			
30	მილი-90	90	პლასტმასი	12			
31	მილი-90	110	პლასტმასი	8			
32	მილი-90	200	პლასტმასი	2			
33	მილი-40	80	მეტალი	2			
34	მილი-52	350	მეტალი	2			
35	მილი-65	350	მეტალი	2			
36	მილი-40	32	პლასტმასი	6			
37	მილი-40	50	პლასტმასი	2			
38	მილი-40	63	პლასტმასი	4			
39	მილი-50	32	პლასტმასი	2			
40	მილი-50	50	პლასტმასი	2			
41	სამკაპი-45	100/100/80	მეტალი	2			
42	სამკაპი-90	80/80/50	მეტალი	2			
43	სამკაპი-90	125/125/50	მეტალი	2			
44	სამკაპი-90	125/125/63	მეტალი	2			
45	სამკაპი-90	125/125	მეტალი	2			
46	სამკაპი-90	200/200/32	მეტალი	6			
47	სამკაპი-90	200/200/63	მეტალი	2			
48	სამკაპი-90	200/200/75	მეტალი	2			
49	სამკაპი-90	200/200/90	მეტალი	2			
50	სამკაპი-90	200/200/150	მეტალი	2			
51	სამკაპი-90	350/350	მეტალი	2			
52	სამკაპი-90	20/20	პლასტმასი	88			
53	სამკაპი-90	25/25/20	პლასტმასი	72			
54	სამკაპი-90	32/32/20	პლასტმასი	78			
55	სამკაპი-90	32/32/25	პლასტმასი	24			
56	სამკაპი-90	32/32	პლასტმასი	10			
57	სამკაპი-90	40/40/20	პლასტმასი	24			
58	სამკაპი-90	40/40/25	პლასტმასი	10			
59	სამკაპი-90	40/40/32	პლასტმასი	14			
60	სამკაპი-90	40/40	პლასტმასი	2			
61	სამკაპი-90	50/50/20	პლასტმასი	30			
62	სამკაპი-90	50/50/25	პლასტმასი	2			
63	სამკაპი-90	50/50/32	პლასტმასი	14			
64	სამკაპი-90	50/50/40	პლასტმასი	14			
65	სამკაპი-90	50/50	პლასტმასი	2			
66	სამკაპი-90	50/50/63	პლასტმასი	2			
67	სამკაპი-90	63/63/20	პლასტმასი	2			
68	სამკაპი-90	63/63/25	პლასტმასი	2			
69	სამკაპი-90	63/63/32	პლასტმასი	14			
70	სამკაპი-90	63/63/40	პლასტმასი	8			
71	სამკაპი-90	63/63/50	პლასტმასი	20			
72	სამკაპი-90	63/63/75	პლასტმასი	2			

73	სამკაპი-90	75/75/32	პლასტმასი	2			
74	სამკაპი-90	75/75/50	პლასტმასი	6			
75	სამკაპი-90	75/75/63	პლასტმასი	2			
76	სამკაპი-90	90/90/63	პლასტმასი	2			
77	სამკაპი-90	90/90/75	პლასტმასი	4			
78	სამკაპი-90	90/90/110	პლასტმასი	2			
79	სამკაპი-90	110/110/32	პლასტმასი	2			
80	სამკაპი-90	110/110/40	პლასტმასი	2			
81	სამკაპი-90	110/110/63	პლასტმასი	6			
82	სამკაპი-90	200/200/63	პლასტმასი	6			
83	სამკაპი-90	200/200/125	პლასტმასი	4			
84	გადამყვანი	100/80	მეტალი	2			
85	გადამყვანი	125/80	მეტალი	2			
86	გადამყვანი	125/110	მეტალი	4			
87	გადამყვანი	200/100	მეტალი	2			
88	გადამყვანი	200/150	მეტალი	2			
89	გადამყვანი	20x20/20x20	პლასტმასი	2			
90	გადამყვანი	25/20	პლასტმასი	64			
91	გადამყვანი	32/20	პლასტმასი	60			
92	გადამყვანი	32/25	პლასტმასი	26			
93	გადამყვანი	40/20	პლასტმასი	24			
94	გადამყვანი	40/32	პლასტმასი	22			
95	გადამყვანი	50/20	პლასტმასი	30			
96	გადამყვანი	50/32	პლასტმასი	2			
97	გადამყვანი	50/40	პლასტმასი	20			
98	გადამყვანი	63/50	პლასტმასი	26			
99	გადამყვანი	75/63	პლასტმასი	10			
100	გადამყვანი	90/63	პლასტმასი	2			
101	გადამყვანი	90/75	პლასტმასი	8			
102	გადამყვანი	90/80	პლასტმასი	2			
103	გადამყვანი	110/90	პლასტმასი	4			
104	იზოლაცია/მილი	50	21		1	0.339 m ²	30
105	იზოლაცია/მილი	80	21		16.8	7.376 m ²	30
106	იზოლაცია/მილი	100	21		9.5	5.366 m ²	40
107	იზოლაცია/მილი	125	21		107.8	69.432 m ²	40
108	იზოლაცია/მილი	150	21		9.9	7.123 m ²	40
109	იზოლაცია/მილი	200	21		23.7	22.371 m ²	50
110	იზოლაცია/მილი	350	21		24.1	35.549 m ²	60
111	იზოლაცია/მილი	20	21		454.6	85.695 m ²	20
112	იზოლაცია/მილი	25	21		265.7	54.252 m ²	20
113	იზოლაცია/მილი	32	21		741.1	167.643 m ²	20
114	იზოლაცია/მილი	40	21		204.4	51.367 m ²	20
115	იზოლაცია/მილი	50	21		293	82.833 m ²	20
116	იზოლაცია/მილი	63	21		420.8	162.602 m ²	30
117	იზოლაცია/მილი	75	21		47.2	20.013 m ²	30
118	იზოლაცია/მილი	90	21		52.3	24.631 m ²	30
119	იზოლაცია/მილი	110	21		63.2	37.743 m ²	40
120	იზოლაცია/მილი	200	21		4.4	4.13 m ²	50
121	იზოლაცია/მილი-90	80	21	6			30
122	იზოლაცია/მილი-90	100	21	4			40
123	იზოლაცია/მილი-90	125	21	23			40
124	იზოლაცია/მილი-90	150	21	2			40
125	იზოლაცია/მილი-90	200	21	8			50
126	იზოლაცია/მილი-90	20	21	93			20
127	იზოლაცია/მილი-90	25	21	44			20
128	იზოლაცია/მილი-90	32	21	138			20
129	იზოლაცია/მილი-90	40	21	38			20
130	იზოლაცია/მილი-90	50	21	48			20
131	იზოლაცია/მილი-90	63	21	86			30
132	იზოლაცია/მილი-90	75	21	10			30
133	იზოლაცია/მილი-90	90	21	12			30
134	იზოლაცია/მილი-90	110	21	8			40
135	იზოლაცია/მილი-90	200	21	2			50
136	იზოლაცია/მილი-40	80	21	2			30
137	იზოლაცია/მილი-52	350	21	2			60
138	იზოლაცია/მილი-65	350	21	2			60
139	იზოლაცია/მილი-40	32	21	6			20
140	იზოლაცია/მილი-40	50	21	2			20
141	იზოლაცია/მილი-40	63	21	4			30
142	იზოლაცია/მილი-50	32	21	2			20
143	იზოლაცია/მილი-50	50	21	2			20
144	იზოლაცია/სამკაპი-45	100/100/80	21	2			40
145	იზოლაცია/სამკაპი-90	80/80/50	21	2			30
146	იზოლაცია/სამკაპი-90	125/125/50	21	2			40

147	იზოლაცია/სამკაპი-90	125/125/63	21	2		40
148	იზოლაცია/სამკაპი-90	125/125	21	2		40
149	იზოლაცია/სამკაპი-90	200/200/32	21	6		50
150	იზოლაცია/სამკაპი-90	200/200/63	21	2		50
151	იზოლაცია/სამკაპი-90	200/200/75	21	2		50
152	იზოლაცია/სამკაპი-90	200/200/90	21	2		50
153	იზოლაცია/სამკაპი-90	200/200/150	21	2		50
154	იზოლაცია/სამკაპი-90	350/350	21	2		60
155	იზოლაცია/სამკაპი-90	20/20	21	88		20
156	იზოლაცია/სამკაპი-90	25/25/20	21	72		20
157	იზოლაცია/სამკაპი-90	32/32/20	21	78		20
158	იზოლაცია/სამკაპი-90	32/32/25	21	24		20
159	იზოლაცია/სამკაპი-90	32/32	21	10		20
160	იზოლაცია/სამკაპი-90	40/40/20	21	24		20
161	იზოლაცია/სამკაპი-90	40/40/25	21	10		20
162	იზოლაცია/სამკაპი-90	40/40/32	21	14		20
163	იზოლაცია/სამკაპი-90	40/40	21	2		20
164	იზოლაცია/სამკაპი-90	50/50/20	21	30		20
165	იზოლაცია/სამკაპი-90	50/50/25	21	2		20
166	იზოლაცია/სამკაპი-90	50/50/32	21	14		20
167	იზოლაცია/სამკაპი-90	50/50/40	21	14		20
168	იზოლაცია/სამკაპი-90	50/50	21	2		20
169	იზოლაცია/სამკაპი-90	50/50/63	21	2		20
170	იზოლაცია/სამკაპი-90	63/63/20	21	2		30
171	იზოლაცია/სამკაპი-90	63/63/25	21	2		30
172	იზოლაცია/სამკაპი-90	63/63/32	21	14		30
173	იზოლაცია/სამკაპი-90	63/63/40	21	8		30
174	იზოლაცია/სამკაპი-90	63/63/50	21	20		30
175	იზოლაცია/სამკაპი-90	63/63/75	21	2		30
176	იზოლაცია/სამკაპი-90	75/75/32	21	2		30
177	იზოლაცია/სამკაპი-90	75/75/50	21	6		30
178	იზოლაცია/სამკაპი-90	75/75/63	21	2		30
179	იზოლაცია/სამკაპი-90	90/90/63	21	2		30
180	იზოლაცია/სამკაპი-90	90/90/75	21	4		30
181	იზოლაცია/სამკაპი-90	90/90/110	21	2		30
182	იზოლაცია/სამკაპი-90	110/110/32	21	2		40
183	იზოლაცია/სამკაპი-90	110/110/40	21	2		40
184	იზოლაცია/სამკაპი-90	110/110/63	21	6		40
185	იზოლაცია/სამკაპი-90	200/200/63	21	6		50
186	იზოლაცია/სამკაპი-90	200/200/125	21	4		50
187	იზოლაცია/გადამყვანი	100/80	21	2		40
188	იზოლაცია/გადამყვანი	125/80	21	2		40
189	იზოლაცია/გადამყვანი	125/110	21	4		40
190	იზოლაცია/გადამყვანი	200/100	21	2		50
191	იზოლაცია/გადამყვანი	200/150	21	2		50
192	იზოლაცია/გადამყვანი	20x20/20x20	21	2		20
193	იზოლაცია/გადამყვანი	25/20	21	64		20
194	იზოლაცია/გადამყვანი	32/20	21	60		20
195	იზოლაცია/გადამყვანი	32/25	21	26		20
196	იზოლაცია/გადამყვანი	40/20	21	24		20
197	იზოლაცია/გადამყვანი	40/32	21	22		20
198	იზოლაცია/გადამყვანი	50/20	21	30		20
199	იზოლაცია/გადამყვანი	50/32	21	2		20
200	იზოლაცია/გადამყვანი	50/40	21	20		20
201	იზოლაცია/გადამყვანი	63/50	21	26		30
202	იზოლაცია/გადამყვანი	75/63	21	10		30
203	იზოლაცია/გადამყვანი	90/63	21	2		30
204	იზოლაცია/გადამყვანი	90/75	21	8		30
205	იზოლაცია/გადამყვანი	90/80	21	2		30
206	იზოლაცია/გადამყვანი	110/90	21	4		40
207	უკუსარქველი	32	ZV1	3		
208	უკუსარქველი	50	ZV1	5		
209	ვენტილი	32	SV1	8		
210	ვენტილი	50	SV1	4		
211	ვენტილი	65	SV1	6		
212	ვენტილი	100	SV1	2		
213	ვენტილი	50	SV2	23		
214	ვენტილი	65	SV2	20		
215	ვენტილი	80	SV2	15		
216	ვენტილი	100	SV2	5		
217	ვენტილი	125	SV2	6		
218	ვენტილი	150	SV2	4		
219	ვენტილი	200	SV2	1		
220	ვენტილი	100	VAVLE	2		

221	ვენტილი	200	VAVLE	2			
222	ფილტრი	40	ფილტრი	4			
223	ფილტრი	50	ფილტრი	1			
224	ფილტრი	65	ფილტრი	4			
225	ფილტრი	80	ფილტრი	1			
226	ფილტრი	100	ფილტრი	2			
227	ფილტრი	100	ფილტრი	1			
228	ფილტრი	125	ფილტრი	2			
229	ფილტრი	200	ფილტრი	1			
230	უკუსარქველი	40	ფილტრი	4			
231	უკუსარქველი	50	ფილტრი	1			
232	უკუსარქველი	65	ფილტრი	4			
233	უკუსარქველი	80	ფილტრი	1			
234	უკუსარქველი	100	ფილტრი	2			
235	უკუსარქველი	100	ფილტრი	1			
236	უკუსარქველი	125	ფილტრი	2			
237	უკუსარქველი	200	ფილტრი	1			
238	ანტივიბრაციული ფიტინგი	50		6			
239	ანტივიბრაციული ფიტინგი	65		8			
240	ანტივიბრაციული ფიტინგი	80		2			
241	ანტივიბრაციული ფიტინგი	100		2			
242	ანტივიბრაციული ფიტინგი	125		4			
243	ანტივიბრაციული ფიტინგი	200		2			
244	მანომეტრი/თერმომეტრი	32	MANOMETER	23			
245	ბალანსირებადი ვენტილი	32	OPC7	7			
246	ბალანსირებადი ვენტილი	50	OPC7	2			
247	ბალანსირებადი ვენტილი	65	OPC7	7			
248	ბალანსირებადი ვენტილი	80	OPC7	1			
249	ბალანსირებადი ვენტილი	100	OPC7	7			
250	ტუმბო N=0.5l/s H=10m			1			
251	ტუმბო N=1.0l/s H=10m			1			
252	ტუმბო N=10.8l/s H=20m			1			
253	ტუმბო N=0.5l/s H=10m			1			
254	ტუმბო N=1.3l/s H=20m			1			
255	ტუმბო N=10l/s H=5m			1			
256	ტუმბო N=0.5l/s H=10m			1			
257	ტუმბო N=1.0l/s H=10m			1			
258	ტუმბო N=2.0l/s H=5m			1			
259	ტუმბო N=1.3l/s H=20m			1			
260	ტუმბო N=0.5l/s H=10m			1			
261	ტუმბო N=2.6l/s H=10m			1			
262	ტუმბო N=4.5l/s H=5m			2			
263	კოლექტორი D-200				6		
264	კოლექტორი D-300				6		
265	ჩილერი Q=350kw (ჰიდრომოდულით)			2			
266	საფართოებელი ავზი V=300L			3			
267	თბური ტუმბო ტუმბო პრეციზიული კონდენციონერი გარე ბლოკი Qc=25kw Qh=11kw			1			
268	პრეციზიული კონდენციონერი Supply L=4 000 m3/h Exhaust L=4 000m3/h Fresh Air L=500m3/h Qcooling=14.0kw Qheating=8.0kw TS=+18°C.. +25°C RH=55% (±5) DT=7-12°C Sound Level 60 DB			1			
269	4 მილოვანი კასეტრუი ფენჯილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=9kw	Qheating=4.5kw	9			

270	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=3.7kw	Qheating=5.5kw	4			
271	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=2kw	Qheating=1.5kw	2			
272	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=1.6kw	Qheating=1.2kw	1			
273	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=4kw	Qheating=3kw	1			
274	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=3kw	Qheating=2kw	4			
275	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=5kw	Qheating=2.5kw	1			
276	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=4.5kw	Qheating=3.5kw	1			
277	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=3.5kw	Qheating=2.5kw	5			
278	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=5kw	Qheating=3kw	2			
279	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=4.5kw	Qheating=2kw	2			
280	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=4.5kw	Qheating=3kw	4			
281	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=5kw	Qheating=3kw	2			
282	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=2kw	Qheating=2kw	6			
283	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=9kw	Qheating=6kw	6			
284	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=3kw	Qheating=1kw	7			
285	4 მილოვანი კასეტრუი ფენკოილი(2 ცალი - - ბალანსირებადი ვენტილი, უკუსარქველი, ფილტრი, ვენტილი)	Qcooling=1kw	Qheating=1kw	2			
286	ქვაბი N=350KW		boiler	2			
287	სანთურა N=350KW		boiler	2			
288	დრენაჟის მილი	32	პლასტმასი		424.5		
289	მილი-45	32	პლასტმასი	11			
290	მილი-90	32	პლასტმასი	29			
291	მილი-40	32	პლასტმასი	1			
292	მილი-50	32	პლასტმასი	1			
293	სამკაპი-45	32/32	პლასტმასი	1			
294	სამკაპი-90	32/32	პლასტმასი	42			
295	გადამდენი გიბოსი	300*100		2			

საკიდები და წერილობრივი მასალები მიღებულია სისტემის 20%

შენიშვნა: მასალები გადამოწმდეს მონაჟის დაწყებამდე

BOQ - HEATING AND COOLYNG SYSTEM 200.2

#	Class	Size	Series	N	L[m]	Insul.\A	s[mm]
296	Pipe	50	Metal		1		
297	Pipe	108	Metal		16.8		
298	Pipe	127	Metal		9.5		
299	Pipe	125	Metal		107.8		
300	Pipe	150	Metal		9.9		
301	Pipe	200	Metal		120		
302	Pipe	350	Metal		24.1		
303	Pipe	20	Plastic		454.6		
304	Pipe	25	Plastic		265.7		
305	Pipe	32	Plastic		741.1		
306	Pipe	40	Plastic		204.4		
307	Pipe	50	Plastic		293		

308	Pipe	63	Plastic		420.8		
309	Pipe	75	Plastic		47.2		
310	Pipe	90	Plastic		52.3		
311	Pipe	110	Plastic		63.2		
312	Pipe	200	Plastic		4.4		
313	Bend-90	108	Metal	6			
314	Bend-90	127	Metal	4			
315	Bend-90	125	Metal	23			
316	Bend-90	150	Metal	2			
317	Bend-90	200	Metal	8			
318	Bend-90	20	Plastic	93			
319	Bend-90	25	Plastic	44			
320	Bend-90	32	Plastic	138			
321	Bend-90	40	Plastic	38			
322	Bend-90	50	Plastic	48			
323	Bend-90	63	Plastic	86			
324	Bend-90	75	Plastic	10			
325	Bend-90	90	Plastic	12			
326	Bend-90	110	Plastic	8			
327	Bend-90	200	Plastic	2			
328	Bend-40	80	Metal	2			
329	Bend-52	350	Metal	2			
330	Bend-65	350	Metal	2			
331	Bend-40	32	Plastic	6			
332	Bend-40	50	Plastic	2			
333	Bend-40	63	Plastic	4			
334	Bend-50	32	Plastic	2			
335	Bend-50	50	Plastic	2			
336	T-branch-45	100/100/80	Metal	2			
337	T-branch-90	80/80/50	Metal	2			
338	T-branch-90	125/125/50	Metal	2			
339	T-branch-90	125/125/63	Metal	2			
340	T-branch-90	125/125	Metal	2			
341	T-branch-90	200/200/32	Metal	6			
342	T-branch-90	200/200/63	Metal	2			
343	T-branch-90	200/200/75	Metal	2			
344	T-branch-90	200/200/90	Metal	2			
345	T-branch-90	200/200/150	Metal	2			
346	T-branch-90	350/350	Metal	2			
347	T-branch-90	20/20	Plastic	88			
348	T-branch-90	25/25/20	Plastic	72			
349	T-branch-90	32/32/20	Plastic	78			
350	T-branch-90	32/32/25	Plastic	24			
351	T-branch-90	32/32	Plastic	10			
352	T-branch-90	40/40/20	Plastic	24			
353	T-branch-90	40/40/25	Plastic	10			
354	T-branch-90	40/40/32	Plastic	14			
355	T-branch-90	40/40	Plastic	2			
356	T-branch-90	50/50/20	Plastic	30			
357	T-branch-90	50/50/25	Plastic	2			
358	T-branch-90	50/50/32	Plastic	14			
359	T-branch-90	50/50/40	Plastic	14			
360	T-branch-90	50/50	Plastic	2			
361	T-branch-90	50/50/63	Plastic	2			
362	T-branch-90	63/63/20	Plastic	2			
363	T-branch-90	63/63/25	Plastic	2			
364	T-branch-90	63/63/32	Plastic	14			
365	T-branch-90	63/63/40	Plastic	8			
366	T-branch-90	63/63/50	Plastic	20			
367	T-branch-90	63/63/75	Plastic	2			
368	T-branch-90	75/75/32	Plastic	2			
369	T-branch-90	75/75/50	Plastic	6			
370	T-branch-90	75/75/63	Plastic	2			
371	T-branch-90	90/90/63	Plastic	2			
372	T-branch-90	90/90/75	Plastic	4			
373	T-branch-90	90/90/110	Plastic	2			
374	T-branch-90	110/110/32	Plastic	2			
375	T-branch-90	110/110/40	Plastic	2			
376	T-branch-90	110/110/63	Plastic	6			
377	T-branch-90	200/200/63	Plastic	6			
378	T-branch-90	200/200/125	Plastic	4			
379	Outlet	125/63	Metal	2			
380	Outlet	125/110	Metal	2			
381	Outlet	90/50	Plastic	2			

382	Outlet	90/75	Plastic	2			
383	Joint part	25	Plastic	2			
384	Joint part	40	Plastic	2			
385	Joint part	63	Plastic	2			
386	Joint part	110	Plastic	2			
387	Reduction	100/80	Metal	2			
388	Reduction	125/80	Metal	2			
389	Reduction	125/110	Metal	4			
390	Reduction	200/100	Metal	2			
391	Reduction	200/150	Metal	2			
392	Reduction	20x20/20x20	Plastic	2			
393	Reduction	25/20	Plastic	64			
394	Reduction	32/20	Plastic	60			
395	Reduction	32/25	Plastic	26			
396	Reduction	40/20	Plastic	24			
397	Reduction	40/32	Plastic	22			
398	Reduction	50/20	Plastic	30			
399	Reduction	50/32	Plastic	2			
400	Reduction	50/40	Plastic	20			
401	Reduction	63/50	Plastic	26			
402	Reduction	75/63	Plastic	10			
403	Reduction	90/63	Plastic	2			
404	Reduction	90/75	Plastic	8			
405	Reduction	90/80	Plastic	2			
406	Reduction	110/90	Plastic	4			
407	Plug	50	Metal	2			
408	Plug	200	Metal	2			
409	Plug	350	Metal	4			
410	Plug	20	Plastic	240			
411	Plug	63	Plastic	2			
412	Plug	200	Plastic	2			
413	Insulation/Pipe	50	21		1	0.339 m ²	30
414	Insulation/Pipe	80	21		16.8	7.376 m ²	30
415	Insulation/Pipe	100	21		9.5	5.366 m ²	40
416	Insulation/Pipe	125	21		107.8	69.432 m ²	40
417	Insulation/Pipe	150	21		9.9	7.123 m ²	40
418	Insulation/Pipe	200	21		23.7	22.371 m ²	50
419	Insulation/Pipe	350	21		24.1	35.549 m ²	60
420	Insulation/Pipe	20	21		454.6	85.695 m ²	20
421	Insulation/Pipe	25	21		265.7	54.252 m ²	20
422	Insulation/Pipe	32	21		741.1	167.643 m ²	20
423	Insulation/Pipe	40	21		204.4	51.367 m ²	20
424	Insulation/Pipe	50	21		293	82.833 m ²	20
425	Insulation/Pipe	63	21		420.8	162.602 m ²	30
426	Insulation/Pipe	75	21		47.2	20.013 m ²	30
427	Insulation/Pipe	90	21		52.3	24.631 m ²	30
428	Insulation/Pipe	110	21		63.2	37.743 m ²	40
429	Insulation/Pipe	200	21		4.4	4.13 m ²	50
430	Insulation/Bend-90	80	21	6			30
431	Insulation/Bend-90	100	21	4			40
432	Insulation/Bend-90	125	21	23			40
433	Insulation/Bend-90	150	21	2			40
434	Insulation/Bend-90	200	21	8			50
435	Insulation/Bend-90	20	21	93			20
436	Insulation/Bend-90	25	21	44			20
437	Insulation/Bend-90	32	21	138			20
438	Insulation/Bend-90	40	21	38			20
439	Insulation/Bend-90	50	21	48			20
440	Insulation/Bend-90	63	21	86			30
441	Insulation/Bend-90	75	21	10			30
442	Insulation/Bend-90	90	21	12			30
443	Insulation/Bend-90	110	21	8			40
444	Insulation/Bend-90	200	21	2			50
445	Insulation/Bend-40	80	21	2			30
446	Insulation/Bend-52	350	21	2			60
447	Insulation/Bend-65	350	21	2			60
448	Insulation/Bend-40	32	21	6			20
449	Insulation/Bend-40	50	21	2			20
450	Insulation/Bend-40	63	21	4			30
451	Insulation/Bend-50	32	21	2			20
452	Insulation/Bend-50	50	21	2			20
453	Insulation/T-branch-45	100/100/80	21	2			40
454	Insulation/T-branch-90	80/80/50	21	2			30
455	Insulation/T-branch-90	125/125/50	21	2			40

456	Insulation/T-branch-90	125/125/63	21	2		40
457	Insulation/T-branch-90	125/125	21	2		40
458	Insulation/T-branch-90	200/200/32	21	6		50
459	Insulation/T-branch-90	200/200/63	21	2		50
460	Insulation/T-branch-90	200/200/75	21	2		50
461	Insulation/T-branch-90	200/200/90	21	2		50
462	Insulation/T-branch-90	200/200/150	21	2		50
463	Insulation/T-branch-90	350/350	21	2		60
464	Insulation/T-branch-90	20/20	21	88		20
465	Insulation/T-branch-90	25/25/20	21	72		20
466	Insulation/T-branch-90	32/32/20	21	78		20
467	Insulation/T-branch-90	32/32/25	21	24		20
468	Insulation/T-branch-90	32/32	21	10		20
469	Insulation/T-branch-90	40/40/20	21	24		20
470	Insulation/T-branch-90	40/40/25	21	10		20
471	Insulation/T-branch-90	40/40/32	21	14		20
472	Insulation/T-branch-90	40/40	21	2		20
473	Insulation/T-branch-90	50/50/20	21	30		20
474	Insulation/T-branch-90	50/50/25	21	2		20
475	Insulation/T-branch-90	50/50/32	21	14		20
476	Insulation/T-branch-90	50/50/40	21	14		20
477	Insulation/T-branch-90	50/50	21	2		20
478	Insulation/T-branch-90	50/50/63	21	2		20
479	Insulation/T-branch-90	63/63/20	21	2		30
480	Insulation/T-branch-90	63/63/25	21	2		30
481	Insulation/T-branch-90	63/63/32	21	14		30
482	Insulation/T-branch-90	63/63/40	21	8		30
483	Insulation/T-branch-90	63/63/50	21	20		30
484	Insulation/T-branch-90	63/63/75	21	2		30
485	Insulation/T-branch-90	75/75/32	21	2		30
486	Insulation/T-branch-90	75/75/50	21	6		30
487	Insulation/T-branch-90	75/75/63	21	2		30
488	Insulation/T-branch-90	90/90/63	21	2		30
489	Insulation/T-branch-90	90/90/75	21	4		30
490	Insulation/T-branch-90	90/90/110	21	2		30
491	Insulation/T-branch-90	110/110/32	21	2		40
492	Insulation/T-branch-90	110/110/40	21	2		40
493	Insulation/T-branch-90	110/110/63	21	6		40
494	Insulation/T-branch-90	200/200/63	21	6		50
495	Insulation/T-branch-90	200/200/125	21	4		50
496	Insulation/Outlet	125/63	21	2		40
497	Insulation/Outlet	125/110	21	2		40
498	Insulation/Outlet	90/50	21	2		30
499	Insulation/Outlet	90/75	21	2		30
500	Insulation/Joint part	25	21	2		20
501	Insulation/Joint part	40	21	2		20
502	Insulation/Joint part	63	21	2		30
503	Insulation/Joint part	110	21	2		40
504	Insulation/Reduction	100/80	21	2		40
505	Insulation/Reduction	125/80	21	2		40
506	Insulation/Reduction	125/110	21	4		40
507	Insulation/Reduction	200/100	21	2		50
508	Insulation/Reduction	200/150	21	2		50
509	Insulation/Reduction	20x20/20x20	21	2		20
510	Insulation/Reduction	25/20	21	64		20
511	Insulation/Reduction	32/20	21	60		20
512	Insulation/Reduction	32/25	21	26		20
513	Insulation/Reduction	40/20	21	24		20
514	Insulation/Reduction	40/32	21	22		20
515	Insulation/Reduction	50/20	21	30		20
516	Insulation/Reduction	50/32	21	2		20
517	Insulation/Reduction	50/40	21	20		20
518	Insulation/Reduction	63/50	21	26		30
519	Insulation/Reduction	75/63	21	10		30
520	Insulation/Reduction	90/63	21	2		30
521	Insulation/Reduction	90/75	21	8		30
522	Insulation/Reduction	90/80	21	2		30
523	Insulation/Reduction	110/90	21	4		40
524	Insulation/Plug	50	21	2		30
525	Insulation/Plug	200	21	2		50
526	Insulation/Plug	350	21	4		60
527	Insulation/Plug	20	21	240		20
528	Insulation/Plug	63	21	2		30
529	Insulation/Plug	200	21	2		50

530	Insulation/Zone valve	32	21	3			20
531	Insulation/Zone valve	50	21	1			20
532	Insulation/Zone valve	50	21	2			30
533	Insulation/Stop valve	32	21	8			20
534	Insulation/Stop valve	50	21	4			20
535	Insulation/Stop valve	65	21	6			30
536	Insulation/Stop valve	100	21	2			40
537	Insulation/Stop valve	50	21	9			20
538	Insulation/Stop valve	50	21	4			30
539	Insulation/Stop valve	65	21	12			30
540	Insulation/Stop valve	80	21	11			30
541	Insulation/Stop valve	100	21	3			30
542	Insulation/Stop valve	125	21	6			40
543	Insulation/Stop valve	150	21	4			40
544	Insulation/Stop valve	200	21	1			50
545	Insulation/Stop valve	100	21	2			40
546	Insulation/Stop valve	200	21	2			50
547	Insulation/Other pipe component	40	21	4			20
548	Insulation/Other pipe component	50	21	1			20
549	Insulation/Other pipe component	65	21	4			30
550	Insulation/Other pipe component	80	21	1			30
551	Insulation/Other pipe component	100	21	1			30
552	Insulation/Other pipe component	100	21	2			40
553	Insulation/Other pipe component	125	21	2			40
554	Insulation/Other pipe component	200	21	1			50
555	Insulation/Other pipe component	50	21	6			20
556	Insulation/Other pipe component	65	21	8			30
557	Insulation/Other pipe component	80	21	2			30
558	Insulation/Other pipe component	100	21	2			30
559	Insulation/Other pipe component	125	21	4			40
560	Insulation/Other pipe component	200	21	2			50
561	Insulation/Other pipe component	32	21	6			20
562	Insulation/Other pipe component	32	21	12			30
563	Insulation/Other pipe component	32	21	4			40
564	Insulation/Other pipe component	32	21	1			50
565	Insulation/Other pipe component	32	21	7			20
566	Insulation/Other pipe component	50	21	2			20
567	Insulation/Other pipe component	65	21	6			30
568	Insulation/Other pipe component	80	21	1			30
569	Insulation/Other pipe component	100	21	1			30
570	Insulation/Other pipe component	100	21	4			40
571	Insulation/Other pipe component	100	21	1			50
572	Zone valve	32	ZV1	3			
573	Zone valve	50	ZV1	5			
574	Stop valve	32	SV1	8			
575	Stop valve	50	SV1	4			
576	Stop valve	65	SV1	6			
577	Stop valve	100	SV1	2			
578	Stop valve	50	SV2	23			
579	Stop valve	65	SV2	20			
580	Stop valve	80	SV2	15			
581	Stop valve	100	SV2	5			
582	Stop valve	125	SV2	6			
583	Stop valve	150	SV2	4			
584	Stop valve	200	SV2	1			
585	VAVLE	100	VAVLE	2			
586	VAVLE	200	VAVLE	2			
587	FILTER	40	FILTER	4			
588	FILTER	50	FILTER	1			
589	FILTER	65	FILTER	4			
590	FILTER	80	FILTER	1			
591	FILTER	100	FILTER	2			
592	FILTER	100	FILTER	1			
593	FILTER	125	FILTER	2			
594	FILTER	200	FILTER	1			
595	BACK VALVE	40	FILTER	4			
596	BACK VALVE	50	FILTER	1			
597	BACK VALVE	65	FILTER	4			
598	BACK VALVE	80	FILTER	1			
599	BACK VALVE	100	FILTER	2			
600	BACK VALVE	100	FILTER	1			
601	BACK VALVE	125	FILTER	2			
602	BACK VALVE	200	FILTER	1			
603	FLEX	50	FLEX	6			

604	FLEX	65	FLEX	8			
605	FLEX	80	FLEX	2			
606	FLEX	100	FLEX	2			
607	FLEX	125	FLEX	4			
608	FLEX	200	FLEX	2			
609	MANOMETER	32	MANOMETER	23			
610	Other pipe component	32	OPC7	7			
611	Other pipe component	50	OPC7	2			
612	Other pipe component	65	OPC7	7			
613	Other pipe component	80	OPC7	1			
614	Other pipe component	100	OPC7	7			
615	Pump N=0.5l/s H=10m			1			
616	Pump N=1.0l/s H=10m			1			
617	Pump N=10.8l/s H=20m			1			
618	Pump N=0.5l/s H=10m			1			
619	Pump N=1.3l/s H=20m			1			
620	Pump N=10l/s H=5m			1			
621	Pump N=0.5l/s H=10m			1			
622	Pump N=1.0l/s H=10m			1			
623	Pump N=2.0l/s H=5m			1			
624	Pump N=1.3l/s H=20m			1			
625	Pump N=0.5l/s H=10m			1			
626	Pump N=2.6l/s H=10m			1			
627	Pump N=4.5l/s H=5m			2			
628	Collector D-200				6		
629	Collector D-300				6		
630	Connection node			18			
631	Chiller Q=350kw (with Pump:hydromodule)			2			
632	Expansion tank V=300L			3			
633	HeatPump Out Door Unit Qc=25kw Qh=11kw			1			
634	PAC - Precision Air Condentioner Supply L=4 000 m3/h Exhaust L=4 000m3/h Fresh Air L=500m3/h Qcooling=14.0kw Qheating=8.0kw TS=+18°C.. +25°C RH=55% (±5) DT=7-12°C Sound Level 60 DB		PAC	1			
635	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=9kw	Qheating=4.5kw	9			
636	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=3.7kw	Qheating=5.5kw	4			
637	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=2kw	Qheating=1.5kw	2			
638	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=1.6kw	Qheating=1.2kw	1			
639	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=4kw	Qheating=3kw	1			
640	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=3kw	Qheating=2kw	4			
641	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=5kw	Qheating=2.5kw	1			
642	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=4.5kw	Qheating=3.5kw	1			
643	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=3.5kw	Qheating=2.5kw	5			
644	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=5kw	Qheating=3kw	2			
645	Cassete Fancoil 4Way Pipeline (with 2X - balancing valve, back valve, filter, ball valve)	Qcooling=4.5kw	Qheating=2kw	2			

[illegible]

თბილისის მუნიციპალიტეტის ანგარიში												სოფლის მუნიციპალიტეტის ანგარიში																							
გადასმული კონსტრუქცია	კონსტრუქციების აღწერა										სიბიძის ზანაპარბი		კონსტრუქციებიდან				ვიტრაჟიდან შემოსული რადიაცია				სოფლის მუნიციპალიტეტის სხვა წყაროები										284	168			
	პირის			კონსტრუქციის		ფართობი		მ²	ზანაპარბი		Qwt	Qkw	პირის			შემოსული სიბიძის w.	ორიგინალი	ფართობი m²	გთიქული w/m²	შეგასწორებული კოეფიციენტი K1	შემოსული სიბიძის w.	წყაროს დასახელება	მათი რაოდენობა	გთიქული მისული სიბიძის Kw	შეგასწორებული კოეფიციენტი K2	ჯამი	განათება			სიბიძის სიმძლავრე მთლიანად	სოფლის სიმძლავრე მთლიანად				
	Ta	Tb	Ta-Tb	L	H	რადიუსი	სიღრმე		K	მანძილი			ორიგინალი	Ta	Tb												Ta-Tb	წილი	წილი			წილი	წილი		
-1 სართული																																			
-101												-101																							
იატაკი	22	0	22			1	17.0	0.70	1.00	1.0	262	283	23	39	16	190						-	ადამ.	2	116	1	232	10	17	170					
სულ											262	0.28				0.19						0.00					0.232			0.17	0.59	0.28			
-102												-102																							
იატაკი	22	0	22			1	25.0	0.70	1.00	1.0	385	416	23	39	16	280						-	ადამ.	2	116	1	232	10	25	250					
სულ											385	0.42				0.28						0.00					0.232			0.25	0.76	0.42			
-103												-103																							
იატაკი	22	0	22			1	17.0	0.70	1.00	1.0	262	283	23	39	16	190						-	ადამ.	2	116	1	232	10	17	170					
სულ											262	0.28				0.19						0.00					0.232			0.17	0.59	0.28			
-104												-104																							
იატაკი	22	0	22			1	46.0	0.70	1.00	1.0	708	765	23	39	16	515						-	ადამ.	2	116	1	232	10	46	460					
სულ											708	0.77				0.52						0.00					0.232			0.46	1.21	0.77			
-105												-105																							
იატაკი	22	0	22			1	36.0	0.70	1.00	1.0	554	599	23	39	16	403						-	ადამ.	2	116	1	232	10	36	360					
სულ											554	0.60				0.40						0.00					0.232			0.36	1.00	0.60			
-106												-106																							
იატაკი	22	0	22			1	21.0	0.70	1.00	1.0	323	349	23	39	16	235						-	ადამ.	4	116	1	464	10	21	210					
სულ											323	0.35				0.24						0.00					0.464			0.21	0.91	0.35			
-107												-107																							
იატაკი	22	0	22			1	200.0	0.70	1.00	1.0	3,080	3326	23	39	16	2,240						-	ადამ.	100	116	1	11600	10	200	2000					
სულ											3,080	3.33				2.24						0.00					11.6			2.00	15.84	3.33			
-108												-108																							
იატაკი	22	0	22			1	30.0	0.70	1.00	1.0	462	499	23	39	16	336						-	ადამ.	2	116	1	232	10	30	300					
სულ											462	0.50				0.34						0.00					0.232			0.30	0.87	0.50			
-109												-109																							
იატაკი	22	0	22			1	14.0	0.70	1.00	1.0	216	233	23	39	16	157						-	ადამ.	10	116	1	1160	10	14	140					
სულ											216	0.23				0.16						0.00					1.16			0.14	1.46	0.23			
-110												-110																							
იატაკი	22	0	22			1	17.0	0.70	1.00	1.0	262	283	23	39	16	190						-	ადამ.	2	116	1	232	10	17	170					
სულ											262	0.28				0.19						0.00					0.232			0.17	0.59	0.28			
1 სართული																																			
101												101																							
ფანჯ.	22	-9	31				113.0	3.00	1.20	1.05	13,241	13241	23	39	16	5,695			113.0	300	0.8	27,120													
ფანჯ.	22	-9	31	17.6	6.10	1	107.4	3.00	1.20	1.05	12,580	12580	23	39	16	5,411			107.4	250	0.8	21,472													
ფანჯ.	22	-9	31				93.0	3.00	1.20	1.05	10,898	10898	23	39	16	4,687			93.0	80	0.8	5,952													
ბ.კ.	22	-9	31	2.00	6.00	1	12.0	0.70	1.10	1.0	286	309	23	39	16	134						კომპ.	1	150	1	150									
იატაკი	22	0	22			1	450.0	0.70	1.00	1.0	6,930	7484	23	39	16	5,040						-	ადამ.	100	116	1	11600	10	450	4500					
სულ											43,936	44.51				20.97						54.54					11.75			4.50	91.76	44.51			
102												102																							
კარები	22	-9	31	2.0	2.10	1	4.2	3.00	1.20	1.05	492	492	23	39	16	212			4.2	300	0.8	1,008													
ბ.კ.	22	-9	31	2.00	4.60	1	9.2	0.70	1.10	1.0	220	237	23	39	16	103																			
იატაკი	22	0	22			1	30.0	0.70	1.00	1.0	462	499	23	39	16	336						-	ადამ.	4	116	1	464	10	30	300					
სულ											1,174	1.23				0.65						1.01					0.464			0.30	2.42	1.23			
103												103																							
ფანჯ.	22	-9	31	2.0	1.80	1	3.6	3.00	1.20	1.05	422	422	23	39	16	181			3.6	50	0.8	144													
ბ.კ.	22	-9	31	3.00	4.60	1	13.8	0.70	1.10	1.0	329	356	23	39	16	155																			
იატაკი	22	0	22			1	10.0	0.70	1.00	1.0	154	166	23	39	16	112						-	ადამ.	2	116	1	232	10	10	100					
სულ											905	0.94				0.45						0.14					0.232			0.10	0.92	0.94			
104												104																							
ფანჯ.	22	-9	31	5.0	1.80	1	9.0	3.00	1.20	1.05	1,055	1055	23	39	16	454			9.0	50	0.8	360													

Project Information

Project name:	HVAC	Project number:	2016
Address:		Notes:	
City:	Hotel In Bakuriani	:	
Author:	HELPme	:	
Software version:	2016.4 UR-1	Calculation date:	5/17/2017 01:43

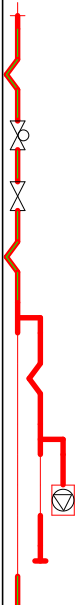
Project Calculation Data

Systems:	H1, C1	Fluid type:	*Multiple*
Total flow:	*Multiple*	Fluid temperature:	*Multiple*
Fluid density:	*Multiple*	Fluid dyn. viscosity:	*Multiple*
Fluid spec. heat capacity:	*Multiple*		

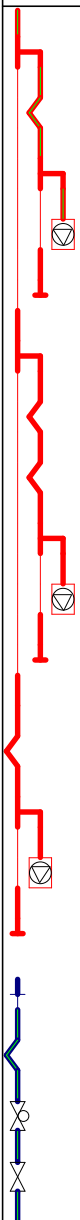
Calculation Input Values

Min. dp zone valves:	2.000 - 3.000 kPa	Balancing target pressure:	Minimum
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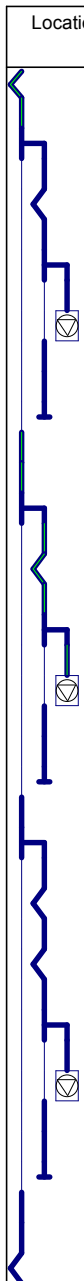
Calculation Results / Supply

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	CONN.NODE			32				0.0833	0.15			368.262		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.0833	0.15	0.042	0.015	368.262		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.0833	0.15	0.006		368.220		
	2 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0833	0.15	0.004	0.015	368.214		
	2 Level	H1	ZONE VALVE		AT1310-32	32				0.0833		1.372		368.211	0.50	
	2 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0833	0.15	0.003	0.015	366.839		
	2 Level	H1	STOPVALVE		AT3600-32	32				0.0833				366.835		
	2 Level	H1	PIPE	Fusio		32	2.1	21/20		0.0833	0.15	0.032	0.015	366.835		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.0833	0.15	0.006		366.803		
	2 Level	H1	PIPE	Fusio		32	3.3	21/20		0.0833	0.15	0.049	0.015	366.798		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.0833	0.15	0.012		366.749		
	2 Level	H1	PIPE	Fusio		20	5.8	21/20		0.0250	0.15	0.187	0.032	366.737		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		366.550		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	366.545		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		366.538		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	366.527		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.830		366.520		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.006		366.749		

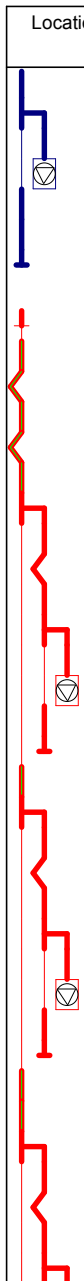
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		25	3.7	21/20		0.0583	0.23	0.179	0.048	366.743		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23	0.026		366.564		
	2 Level	H1	PIPE	Fusio		20	5.8	21/20		0.0250	0.15	0.187	0.032	366.538		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		366.352		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	366.346		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		366.339		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.006	0.032	366.328		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.440		366.322		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		25	3.6	21/20		0.0333	0.13	0.066	0.018	366.564		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.008		366.499		
	2 Level	H1	PIPE	Fusio		20	5.3	21/20		0.0167	0.10	0.085	0.016	366.490		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		366.405		
	2 Level	H1	PIPE	Fusio		20	2.3	21/20		0.0167	0.10	0.036	0.016	366.402		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		366.366		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	366.364		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		366.361		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	366.355		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		0.479		366.352		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		366.499		
	2 Level	H1	PIPE	Fusio		20	2.3	21/20		0.0167	0.10	0.036	0.016	366.498		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		366.462		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	366.459		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		366.456		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	366.451		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		0.663		366.447		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	C1	CONN.NODE			63				0.9292	0.45			4390.979		
	2 Level	C1	PIPE	Fusio		63	2.8	21/30		0.9292	0.45	0.144	0.052	4390.979		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.9292	0.45	0.048		4390.834		
	2 Level	C1	PIPE	Fusio		63	0.2	21/30		0.9292	0.45	0.013	0.052	4390.787		
	2 Level	C1	ZONE VALVE		AT1310-50	50				0.9292		3.000		4390.774	2.2	
	2 Level	C1	PIPE	Fusio		63	0.1	21/30		0.9292	0.45	0.007	0.052	4387.774		
	2 Level	C1	STOPVALVE		AT3600-65	65				0.9292				4387.766		
	2 Level	C1	PIPE	Fusio		63	2.3	21/30		0.9292	0.45	0.121	0.052	4387.766		

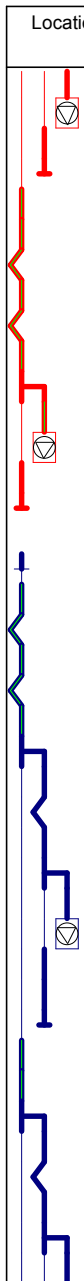
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	BEND-90	Fusio		63		21/30		0.9292	0.45	0.048		4387.645		
	2 Level	C1	PIPE	Fusio		63	3.7	21/30		0.9292	0.45	0.192	0.052	4387.597		
	2 Level	C1	BRANCH	Fusio		63/40		21/30		0.9292	0.45	0.100		4387.404		Error: Balancing can
	2 Level	C1	PIPE	Fusio		40	6.1	21/20		0.2445	0.29	0.271	0.044	4387.303		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4387.032		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2445	0.29	0.009	0.044	4387.012		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		4387.003		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2445	1.50	0.829	2.185	4386.960		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		12.371		4386.132		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.6847	0.33	0.021		4387.404		
	2 Level	C1	PIPE	Fusio		50	3.7	21/20		0.6847	0.52	0.340	0.092	4387.383		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6847	0.52	0.137		4387.043		
	2 Level	C1	PIPE	Fusio		40	6.1	21/20		0.2445	0.29	0.271	0.044	4386.905		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4386.634		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2445	0.29	0.009	0.044	4386.614		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		4386.605		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2445	1.50	0.806	2.185	4386.562		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		11.624		4385.756		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	3.7	21/20		0.4402	0.34	0.156	0.043	4387.042		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.4402	0.34	0.057		4386.887		Error: Balancing can
	2 Level	C1	PIPE	Fusio		40	5.4	21/20		0.2201	0.26	0.200	0.037	4386.830		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4386.631		
	2 Level	C1	PIPE	Fusio		40	2.0	21/20		0.2201	0.26	0.074	0.037	4386.614		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4386.540		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	4386.524		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		4386.516		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.626	1.812	4386.481		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.651		4385.855		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2201	0.17	0.005		4386.888		
	2 Level	C1	PIPE	Fusio		40	2.0	21/20		0.2201	0.26	0.074	0.037	4386.882		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4386.808		

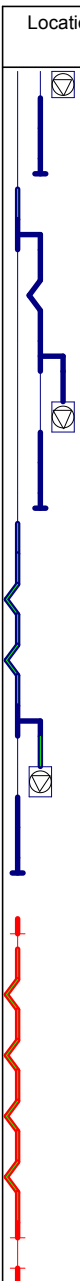
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	4386.792		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		4386.784		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2201	1.35	0.798	1.812	4386.749		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.891		4385.952		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	H1	CONN.NODE			32				0.1000	0.19			1.862		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.1000	0.19	0.057	0.021	1.862		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1000	0.19	0.008		1.805		
	2 Level	H1	PIPE	Fusio		32	8.1	21/20		0.1000	0.19	0.167	0.021	1.797		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1000	0.19	0.008		1.630		
	2 Level	H1	PIPE	Fusio		32	1.2	21/20		0.1000	0.19	0.025	0.021	1.622		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.1000	0.19	0.017		1.597		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.040	0.032	1.580		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		1.540		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.534		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		1.528		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.516		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1.178		1.509		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.5	21/20		0.0750	0.14	0.057	0.012	1.597		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.0750	0.14	0.010		1.540		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.040	0.032	1.530		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		1.490		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.485		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		1.478		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.467		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1.072		1.460		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0500	0.09	0.004		1.540		
	2 Level	H1	PIPE	Fusio		25	4.4	21/20		0.0500	0.20	0.163	0.037	1.536		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		1.373		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.040	0.032	1.354		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		1.313		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.308		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		1.301		

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Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.290		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.721		1.283		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		1.373		
	2 Level	H1	PIPE	Fusio		20	4.6	21/20		0.0250	0.15	0.146	0.032	1.371		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		1.225		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.040	0.032	1.219		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		1.179		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.174		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		1.167		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	1.156		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.440		1.149		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	C1	CONN.NODE			63				0.8803	0.42			16.095		
	2 Level	C1	PIPE	Fusio		63	2.8	21/30		0.8803	0.42	0.131	0.048	16.095		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.8803	0.42	0.043		15.963		
	2 Level	C1	PIPE	Fusio		63	8.3	21/30		0.8803	0.42	0.393	0.048	15.920		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.8803	0.42	0.043		15.527		
	2 Level	C1	PIPE	Fusio		63	1.2	21/30		0.8803	0.42	0.057	0.048	15.484		
	2 Level	C1	BRANCH	Fusio		63/40		21/30		0.8803	0.42	0.090		15.427		
	2 Level	C1	PIPE	Fusio		40	1.1	21/20		0.2201	0.26	0.039	0.037	15.337		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		15.298		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	15.281		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		15.274		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2201	1.35	0.798	1.812	15.239		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		13.106		14.441		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.6602	0.32	0.020		15.427		
	2 Level	C1	PIPE	Fusio		50	4.5	21/20		0.6602	0.51	0.390	0.086	15.407		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6602	0.51	0.127		15.017		
	2 Level	C1	PIPE	Fusio		40	1.1	21/20		0.2201	0.26	0.039	0.037	14.890		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		14.851		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	14.834		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		14.827		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2201	1.35	0.798	1.812	14.792		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		12.245		13.994		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	4.4	21/20		0.4402	0.34	0.188	0.043	15.017		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.4402	0.34	0.057		14.829		
	2 Level	C1	PIPE	Fusio		40	1.1	21/20		0.2201	0.26	0.039	0.037	14.773		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		14.733		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	14.717		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		14.709		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2201	1.35	0.798	1.812	14.675		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.929		13.877		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2201	0.17	0.005		14.829		
	2 Level	C1	PIPE	Fusio		40	4.5	21/20		0.2201	0.26	0.168	0.037	14.824		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		14.656		
	2 Level	C1	PIPE	Fusio		40	1.1	21/20		0.2201	0.26	0.039	0.037	14.639		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		14.600		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	14.584		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		14.577		
	2 Level	C1	PIPE	Fusio		20	0.4	21/20		0.2201	1.35	0.798	1.812	14.542		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.624		13.744		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	CONN.NODE			32				0.0666	0.12			1.006		
	1 Level	H1	PIPE	Fusio		32	2.2	21/20		0.0666	0.12	0.022	0.010	1.006		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.984		
	1 Level	H1	PIPE	Fusio		32	1.0	21/20		0.0666	0.12	0.011	0.010	0.980		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.970		
	1 Level	H1	PIPE	Fusio		32	5.5	21/20		0.0666	0.12	0.056	0.010	0.966		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.910		
	1 Level	H1	PIPE	Fusio		32	3.0	21/20		0.0666	0.12	0.031	0.010	0.907		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.876		
	1 Level	H1	PIPE	Fusio		32	2.4	21/20		0.0666	0.12	0.025	0.010	0.873		
	1 Level	H1	CONN.NODE			32				0.0666	0.12			0.848		
	-1 Level	H1	CONN.NODE			32				0.0666	0.12			0.848		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PIPE	Fusio		32	1.1	21/20		0.0666	0.12	0.011	0.010	0.848		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.837		
	-1 Level	H1	PIPE	Fusio		32	1.4	21/20		0.0666	0.12	0.014	0.010	0.834		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.820		
	-1 Level	H1	PIPE	Fusio		32	13.1	21/20		0.0666	0.12	0.133	0.010	0.816		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.683		
	-1 Level	H1	PIPE	Fusio		32	7.2	21/20		0.0666	0.12	0.073	0.010	0.679		
	-1 Level	H1	BEND-50	Fusio		32		21/20		0.0666	0.12	0.002		0.606		
	-1 Level	H1	PIPE	Fusio		32	3.7	21/20		0.0666	0.12	0.038	0.010	0.604		
	-1 Level	H1	BEND-40	Fusio		32		21/20		0.0666	0.12	0.002		0.566		
	-1 Level	H1	PIPE	Fusio		32	1.9	21/20		0.0666	0.12	0.020	0.010	0.564		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.544		
	-1 Level	H1	PIPE	Fusio		32	2.4	21/20		0.0666	0.12	0.024	0.010	0.541		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.516		
	-1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0666	0.12	0.002	0.010	0.513		
	-1 Level	H1	OTHER PIPE						8000	0.0666				0.510		
	1 Level	C1	CONN.NODE			50				0.6847	0.52			9.171		
	1 Level	C1	PIPE	Fusio		50	2.1	21/20		0.6847	0.52	0.198	0.092	9.171		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		8.973		
	1 Level	C1	PIPE	Fusio		50	0.7	21/20		0.6847	0.52	0.064	0.092	8.907		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		8.844		
	1 Level	C1	PIPE	Fusio		50	4.9	21/20		0.6847	0.52	0.452	0.092	8.778		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		8.327		
	1 Level	C1	PIPE	Fusio		50	2.6	21/20		0.6847	0.52	0.244	0.092	8.261		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		8.018		
	1 Level	C1	PIPE	Fusio		50	2.4	21/20		0.6847	0.52	0.221	0.092	7.952		
	1 Level	C1	CONN.NODE			50				0.6847	0.52			7.731		
	-1 Level	C1	CONN.NODE			50				0.6847	0.52			7.731		
	-1 Level	C1	PIPE	Fusio		50	1.1	21/20		0.6847	0.52	0.097	0.092	7.731		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		7.635		
	-1 Level	C1	PIPE	Fusio		50	1.0	21/20		0.6847	0.52	0.095	0.092	7.569		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		7.475		
	-1 Level	C1	PIPE	Fusio		50	12.5	21/20		0.6847	0.52	1.151	0.092	7.409		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		6.258		
	-1 Level	C1	PIPE	Fusio		50	6.7	21/20		0.6847	0.52	0.613	0.092	6.192		
	-1 Level	C1	BEND-50	Fusio		50		21/20		0.6847	0.52	0.036		5.580		
	-1 Level	C1	PIPE	Fusio		50	3.5	21/20		0.6847	0.52	0.321	0.092	5.543		
	-1 Level	C1	BEND-40	Fusio		50		21/20		0.6847	0.52	0.029		5.222		
	-1 Level	C1	PIPE	Fusio		50	1.9	21/20		0.6847	0.52	0.174	0.092	5.193		

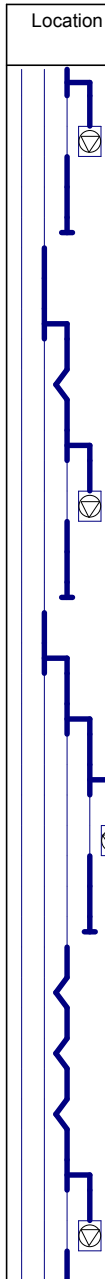
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		5.019		
	-1 Level	C1	PIPE	Fusio		50	2.4	21/20		0.6847	0.52	0.216	0.092	4.954		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		4.738		
	-1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.6847	0.52	0.020	0.092	4.672		
	-1 Level	C1	OTHER PIPE						14000	0.6847				4.652		
	1 Level	C1	ROOT NODE							10.7792				51654.988		
	1 Level	C1	PIPE	Fe-35		125	1.7	21/40		10.7792	0.80	0.087	0.050	51654.988		
	1 Level	C1	BRANCH	Fe-35		125/125		21/40		10.7792	0.80	0.323		51654.900		Error: Balancing can
	1 Level	C1	REDUCER	Fe-35		125/80				3.2279	0.24	0.046		51654.588		
	1 Level	C1	PIPE	Fe-35		80	0.9	21/30		3.2279	0.60	0.050	0.052	51654.540		
	1 Level	C1	REDUCER	Fusio		90/80				3.2279	0.60	0.025		51654.492		
	1 Level	C1	BEND-90	Fusio		90		21/30		3.2279	0.76	0.137		51654.468		
	1 Level	C1	PIPE	Fusio		90	5.4	21/30		3.2279	0.76	0.462	0.086	51654.332		
	1 Level	C1	BRANCH	Fusio		90/75		21/30		3.2279	0.76	0.288		51653.868		Error: Balancing can
	1 Level	C1	PIPE	Fusio		75	0.1	21/30		1.7607	0.60	0.007	0.070	51653.576		
	1 Level	C1	BRANCH	Fusio		75/50		21/30		1.7607	0.60	0.179		51653.568		
	1 Level	C1	PIPE	Fusio		50	0.8	21/20		0.4402	0.34	0.034	0.043	51653.388		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51653.356		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51653.328		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51653.320		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51653.264		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51648.100		51651.132		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		75/63				1.3205	0.45	0.025		51653.568		
	1 Level	C1	PIPE	Fusio		63	6.5	21/30		1.3205	0.64	0.638	0.097	51653.544		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.202		51652.908		
	1 Level	C1	PIPE	Fusio		50	0.8	21/20		0.4402	0.34	0.034	0.043	51652.704		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51652.672		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51652.644		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51652.636		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51652.580		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51646.748		51650.448		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		63	7.4	21/30		0.8803	0.42	0.351	0.048	51652.908		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.090		51652.556		Error: Balancing can

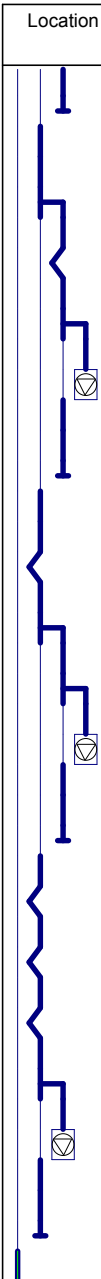
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	PIPE	Fusio		50	0.8	21/20		0.4402	0.34	0.034	0.043	51652.464		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51652.432		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51652.404		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51652.396		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51652.340		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51646.144		51650.208		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.009		51652.556		
	1 Level	C1	PIPE	Fusio		50	6.7	21/20		0.4402	0.34	0.284	0.043	51652.548		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51652.264		
	1 Level	C1	PIPE	Fusio		50	0.8	21/20		0.4402	0.34	0.033	0.043	51652.236		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51652.204		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51652.176		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51652.168		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51652.112		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51645.620		51649.980		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		90/75				1.4672	0.34	0.016		51653.868		
	1 Level	C1	PIPE	Fusio		75	0.9	21/30		1.4672	0.50	0.047	0.051	51653.852		
	1 Level	C1	BRANCH	Fusio		75/32		21/30		1.4672	0.50	0.124		51653.804		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	6.7	21/20		0.1956	0.36	0.572	0.085	51653.684		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.066		51653.112		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.006	0.026	51653.044		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51653.040		
	1 Level	C1	PIPE	Fusio		20	0.9	21/20		0.0978	0.60	0.389	0.439	51653.024		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.576		51652.636		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.139	0.026	51653.112		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.972		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	51652.964		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.932		
	1 Level	C1	PIPE	Fusio		32	2.0	21/20		0.0978	0.18	0.051	0.026	51652.924		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.872		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.005	0.026	51652.864		

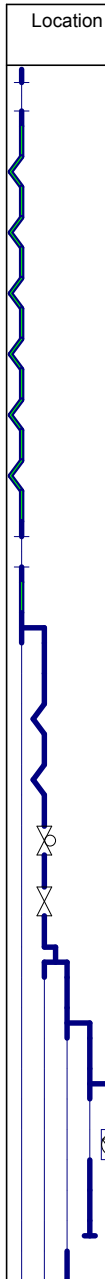
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51652.860		
	1 Level	C1	PIPE	Fusio		20	0.9	21/20		0.0978	0.60	0.389	0.439	51652.844		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.172		51652.456		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		75/63				1.2716	0.43	0.023		51653.804		
	1 Level	C1	PIPE	Fusio		63	1.4	21/30		1.2716	0.61	0.123	0.091	51653.780		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		1.2716	0.61	0.188		51653.656		
	1 Level	C1	PIPE	Fusio		50	1.0	21/20		0.4402	0.34	0.041	0.043	51653.468		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51653.428		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51653.400		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51653.392		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51653.336		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51648.072		51651.204		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		63	2.6	21/30		0.8314	0.40	0.110	0.043	51653.656		
	1 Level	C1	BRANCH	Fusio		63/32		21/30		0.8314	0.40	0.080		51653.548		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	6.7	21/20		0.1956	0.36	0.573	0.085	51653.464		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.066		51652.892		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.006	0.026	51652.820		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51652.816		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.153	0.439	51652.800		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.544		51652.648		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.139	0.026	51652.892		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.752		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	51652.744		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.712		
	1 Level	C1	PIPE	Fusio		32	2.0	21/20		0.0978	0.18	0.051	0.026	51652.704		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.652		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.005	0.026	51652.644		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51652.640		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.153	0.439	51652.624		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.140		51652.472		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										

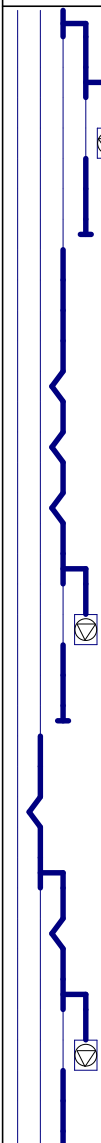
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		63/50				0.6358	0.31	0.018		51653.548		
	1 Level	C1	PIPE	Fusio		50	2.5	21/20		0.6358	0.49	0.204	0.081	51653.528		
	1 Level	C1	BRANCH	Fusio		50/50		21/20		0.6358	0.49	0.118		51653.324		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	1.0	21/20		0.4402	0.34	0.041	0.043	51653.208		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51653.168		
	1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.4402	0.34	0.008	0.043	51653.140		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51653.132		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.132	6.260	51653.076		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51647.420		51650.944		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/32				0.1956	0.15	0.016		51653.324		
	1 Level	C1	PIPE	Fusio		32	2.1	21/20		0.1956	0.36	0.181	0.085	51653.308		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1956	0.36	0.031		51653.128		
	1 Level	C1	PIPE	Fusio		32	6.7	21/20		0.1956	0.36	0.573	0.085	51653.096		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.066		51652.524		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.006	0.026	51652.452		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51652.448		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.153	0.439	51652.432		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51649.716		51652.280		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.139	0.026	51652.524		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.384		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	51652.376		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.344		
	1 Level	C1	PIPE	Fusio		32	2.0	21/20		0.0978	0.18	0.051	0.026	51652.336		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51652.284		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.005	0.026	51652.276		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51652.272		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.153	0.439	51652.256		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51649.312		51652.104		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fe-35		125	3.1	21/40		7.5513	0.56	0.080	0.026	51654.576		

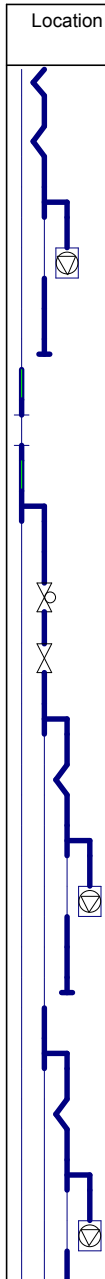
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	CONN.NODE			125				7.5513	0.56			51654.496		
	-1 Level	C1	CONN.NODE			125				7.5513	0.56			51654.496		
	-1 Level	C1	PIPE	Fe-35		125	0.2	21/40		7.5513	0.56	0.006	0.026	51654.496		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51654.488		
	-1 Level	C1	PIPE	Fe-35		125	14.2	21/40		7.5513	0.56	0.372	0.026	51654.420		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51654.048		
	-1 Level	C1	PIPE	Fe-35		125	4.7	21/40		7.5513	0.56	0.123	0.026	51653.980		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51653.856		
	-1 Level	C1	PIPE	Fe-35		125	5.4	21/40		7.5513	0.56	0.141	0.026	51653.788		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51653.648		
	-1 Level	C1	PIPE	Fe-35		125	5.4	21/40		7.5513	0.56	0.141	0.026	51653.580		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51653.440		
	-1 Level	C1	PIPE	Fe-35		125	1.3	21/40		7.5513	0.56	0.033	0.026	51653.372		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		51653.340		
	-1 Level	C1	PIPE	Fe-35		125	0.8	21/40		7.5513	0.56	0.021	0.026	51653.272		
	-1 Level	C1	CONN.NODE			125				7.5513	0.56			51653.252		
	1 Level	C1	CONN.NODE			125				7.5513	0.56			51653.252		
	1 Level	C1	PIPE	Fe-35		125	3.0	21/40		7.5513	0.56	0.079	0.026	51653.252		
	1 Level	C1	BRANCH	Fe-35		125/63		21/40		7.5513	0.56	0.158		51653.172		Error: Balancing can
	1 Level	C1	REDUCER	Fe-35		63				0.9292	0.45			51653.020		
	1 Level	C1	PIPE	Fusio		63	0.1	21/30		0.9292	0.45	0.006	0.052	51653.020		
	1 Level	C1	BEND-40	Fusio		63		21/30		0.9292	0.45	0.021		51653.012		
	1 Level	C1	PIPE	Fusio		63	0.9	21/30		0.9292	0.45	0.047	0.052	51652.992		
	1 Level	C1	BEND-40	Fusio		63		21/30		0.9292	0.45	0.021		51652.944		
	1 Level	C1	PIPE	Fusio		63	0.3	21/30		0.9292	0.45	0.017	0.052	51652.924		
	1 Level	C1	ZONE VALVE		AT1310-50	50				0.9292		38.952		51652.908	0.50	
	1 Level	C1	PIPE	Fusio		63	0.2	21/30		0.9292	0.45	0.008	0.052	51613.956		
	1 Level	C1	STOPVALVE		AT3600-65	65				0.9292				51613.948		
	1 Level	C1	PIPE	Fusio		63	1.1	21/30		0.9292	0.45	0.057	0.052	51613.948		
	1 Level	C1	BRANCH	Fusio		50/63		21/20		0.9292	0.45	0.100		51613.892		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	0.7	21/20		0.5869	0.45	0.050	0.070	51613.792		
	1 Level	C1	BRANCH	Fusio		50/32		21/20		0.5869	0.45	0.101		51613.744		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1712	0.32	0.014	0.068	51613.644		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		51613.632		
	1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1712	1.05	0.591	1.162	51613.580		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47238.156		51612.988		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		50	2.8	21/20		0.4157	0.32	0.108	0.039	51613.744		

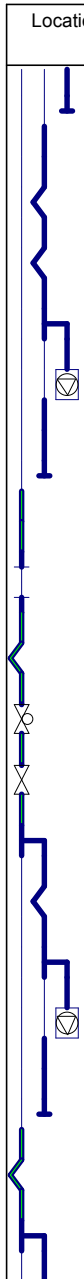
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BRANCH	Fusio		50/32		21/20		0.4157	0.32	0.051		51613.636		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1712	0.32	0.014	0.068	51613.588		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		51613.576		
	1 Level	C1	PIPE	Fusio		20	0.8	21/20		0.1712	1.05	0.946	1.162	51613.524		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47237.272		51612.576		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/40				0.2445	0.19	0.007		51613.636		
	1 Level	C1	PIPE	Fusio		40	1.3	21/20		0.2445	0.29	0.057	0.044	51613.628		
	1 Level	C1	JOINT	Fusio		40		21/20		0.2445	0.29			51613.572		
	1 Level	C1	PIPE	Fusio		40	2.8	21/20		0.2445	0.29	0.126	0.044	51613.572		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51613.448		
	1 Level	C1	PIPE	Fusio		40	9.0	21/20		0.2445	0.29	0.402	0.044	51613.428		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51613.024		
	1 Level	C1	PIPE	Fusio		40	1.2	21/20		0.2445	0.29	0.055	0.044	51613.004		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51612.948		
	1 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2445	0.29	0.009	0.044	51612.928		
	1 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		51612.920		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.755	2.185	51612.876		
	1 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		47236.320		51612.120		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		40/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/40				0.3424	0.26	0.013		51613.796		
	1 Level	C1	PIPE	Fusio		40	0.1	21/20		0.3424	0.41	0.012	0.080	51613.784		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.3424	0.41	0.040		51613.772		
	1 Level	C1	PIPE	Fusio		40	6.0	21/20		0.3424	0.41	0.481	0.080	51613.732		
	1 Level	C1	BRANCH	Fusio		40/32		21/20		0.3424	0.41	0.084		51613.252		
	1 Level	C1	PIPE	Fusio		32	1.6	21/20		0.1712	0.32	0.105	0.068	51613.168		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		51613.064		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1712	0.32	0.014	0.068	51613.040		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		51613.028		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.406	1.162	51612.976		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47237.148		51612.568		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		40/32				0.1712	0.21	0.007		51613.252		
	1 Level	C1	PIPE	Fusio		32	6.1	21/20		0.1712	0.32	0.413	0.068	51613.244		

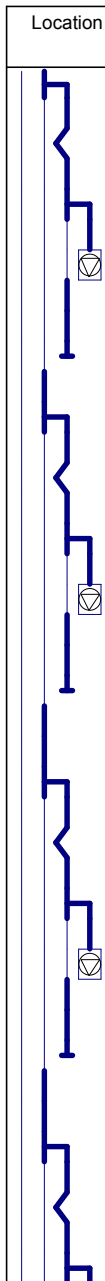
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		51612.832		
	1 Level	C1	PIPE	Fusio		32	1.1	21/20		0.1712	0.32	0.075	0.068	51612.808		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		51612.732		
	1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1712	0.32	0.014	0.068	51612.708		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		51612.696		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.406	1.162	51612.644		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47236.428		51612.236		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fe-35		125	1.6	21/40		6.6221	0.49	0.032	0.021	51653.172		
	1 Level	C1	CONN.NODE			125				6.6221	0.49			51653.140		
	2 Level	C1	CONN.NODE			125				6.6221	0.49			51653.140		
	2 Level	C1	PIPE	Fe-35		125	2.6	21/40		6.6221	0.49	0.053	0.021	51653.140		
	2 Level	C1	BRANCH	Fe-35		125/50		21/40		6.6221	0.49	0.122		51653.088		Error: Balancing can
	2 Level	C1	REDUCER	Fe-35		50/50				0.6358	0.27	0.022		51652.980		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.6358	0.49	0.037	0.081	51652.960		
	2 Level	C1	ZONE VALVE		AT1310-50	50				0.6358		18.234		51652.924	0.50	
	2 Level	C1	PIPE	Fusio		50	0.1	21/20		0.6358	0.49	0.011	0.081	51634.688		
	2 Level	C1	STOPVALVE		AT3600-50	50				0.6358				51634.676		
	2 Level	C1	PIPE	Fusio		50	2.5	21/20		0.6358	0.49	0.203	0.081	51634.676		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6358	0.49	0.118		51634.472		Error: Balancing can
	2 Level	C1	PIPE	Fusio		40	1.0	21/20		0.2201	0.26	0.039	0.037	51634.356		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		51634.316		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2201	0.26	0.007	0.037	51634.300		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		51634.292		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.626	1.812	51634.256		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		46392.852		51633.628		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	5.7	21/20		0.4157	0.32	0.219	0.039	51634.472		
	2 Level	C1	BRANCH	Fusio		50/32		21/20		0.4157	0.32	0.051		51634.252		Error: Balancing can
	2 Level	C1	PIPE	Fusio		32	1.1	21/20		0.1712	0.32	0.071	0.068	51634.204		
	2 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		51634.132		
	2 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1712	0.32	0.014	0.068	51634.108		
	2 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		51634.096		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.406	1.162	51634.044		
	2 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		46392.744		51633.636		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		32/20										

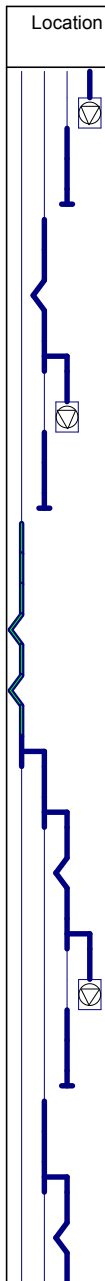
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2445	0.19	0.007		51634.252		
	2 Level	C1	PIPE	Fusio		40	4.7	21/20		0.2445	0.29	0.211	0.044	51634.244		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51634.032		
	2 Level	C1	PIPE	Fusio		40	1.0	21/20		0.2445	0.29	0.046	0.044	51634.012		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51633.968		
	2 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2445	0.29	0.009	0.044	51633.948		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		51633.940		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.755	2.185	51633.896		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		46391.792		51633.140		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fe-35		125/110				5.9863	0.45	0.098		51653.088		
	2 Level	C1	PIPE	Fusio		110	0.6	21/40		5.9863	0.94	0.055	0.098	51652.992		
	2 Level	C1	CONN.NODE			110				5.9863	0.94			51652.936		
	3 Level	C1	CONN.NODE			110				5.9863	0.94			51652.936		
	3 Level	C1	PIPE	Fusio		110	2.8	21/40		5.9863	0.94	0.274	0.098	51652.936		
	3 Level	C1	BEND-90	Fusio		110		21/40		5.9863	0.94	0.211		51652.660		
	3 Level	C1	PIPE	Fusio		110	0.3	21/40		5.9863	0.94	0.033	0.098	51652.448		
	3 Level	C1	ZONE VALVE		AT1310-50	50				5.9863		15.314		51652.416	10	
	3 Level	C1	PIPE	Fusio		110	0.2	21/40		5.9863	0.94	0.016	0.098	51637.104		
	3 Level	C1	STOPVALVE		AT3600-100	100				5.9863				51637.088		
	3 Level	C1	PIPE	Fusio		110	0.6	21/40		5.9863	0.94	0.060	0.098	51637.088		
	3 Level	C1	BRANCH	Fusio		110/32		21/40		5.9863	0.94	0.443		51637.028		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	0.7	21/20		0.1467	0.27	0.038	0.052	51636.600		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51636.560		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	51636.544		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51636.532		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.311	0.890	51636.496		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		26.224		51636.184		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	0.8	21/40		5.8395	0.92	0.077	0.094	51637.028		
	3 Level	C1	BEND-90	Fusio		110		21/40		5.8395	0.92	0.201		51636.952		
	3 Level	C1	PIPE	Fusio		110	1.6	21/40		5.8395	0.92	0.151	0.094	51636.752		
	3 Level	C1	BRANCH	Fusio		110/63		21/40		5.8395	0.92	0.421		51636.600		Error: Balancing can
	3 Level	C1	PIPE	Fusio		63	2.4	21/30		0.8803	0.42	0.114	0.048	51636.184		

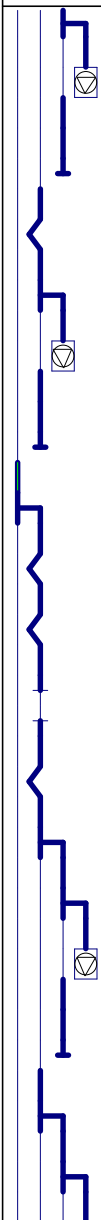
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	BRANCH	Fusio		63/32		21/30		0.8803	0.42	0.090		51636.072		
	3 Level	C1	PIPE	Fusio		32	2.2	21/20		0.1467	0.27	0.112	0.052	51635.984		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51635.872		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	51635.856		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51635.844		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.311	0.890	51635.808		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.984		51635.496		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		63	3.5	21/30		0.7336	0.35	0.122	0.035	51636.072		
	3 Level	C1	BRANCH	Fusio		63/40		21/30		0.7336	0.35	0.062		51635.948		Error: Balancing can
	3 Level	C1	PIPE	Fusio		40	2.1	21/20		0.2445	0.29	0.096	0.044	51635.896		
	3 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51635.800		
	3 Level	C1	PIPE	Fusio		40	0.2	21/20		0.2445	0.29	0.009	0.044	51635.780		
	3 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		51635.772		
	3 Level	C1	PIPE	Fusio		20	0.6	21/20		0.2445	1.50	1.212	2.185	51635.728		
	3 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		23.076		51634.516		Out of dp-range
	3 Level	C1	REDUCER	Fusio		40/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		63/50				0.4891	0.24	0.011		51635.948		
	3 Level	C1	PIPE	Fusio		50	0.3	21/20		0.4891	0.37	0.017	0.051	51635.936		
	3 Level	C1	BRANCH	Fusio		50/32		21/20		0.4891	0.37	0.070		51635.920		
	3 Level	C1	PIPE	Fusio		32	3.6	21/20		0.1956	0.36	0.306	0.085	51635.852		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1956	0.36	0.031		51635.548		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1956	0.36	0.017	0.085	51635.516		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1956	0.36	0.066		51635.500		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1956	1.20	0.514	1.471	51635.436		
	3 Level	C1	FANCOIL		SK-ECM 14	12			4000	0.1956		23.824		51634.920		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		50/40				0.2934	0.22	0.009		51635.920		
	3 Level	C1	PIPE	Fusio		40	3.4	21/20		0.2934	0.35	0.207	0.061	51635.912		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.062		51635.704		
	3 Level	C1	PIPE	Fusio		32	2.2	21/20		0.1467	0.27	0.113	0.052	51635.644		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51635.532		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	51635.516		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51635.504		

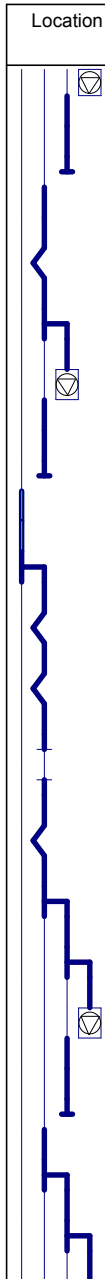
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.311	0.890	51635.468		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.264		51635.156		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.006		51635.704		
	3 Level	C1	PIPE	Fusio		32	3.1	21/20		0.1467	0.27	0.161	0.052	51635.700		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51635.540		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	51635.524		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51635.512		
	3 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1467	0.90	0.389	0.890	51635.476		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.112		51635.088		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	3.7	21/40		4.9592	0.78	0.261	0.070	51636.600		
	3 Level	C1	JOINT	Fusio		110		21/40		4.9592	0.78			51636.340		
	3 Level	C1	PIPE	Fusio		110	0.1	21/40		4.9592	0.78	0.009	0.070	51636.340		
	3 Level	C1	BEND-90	Fusio		110		21/40		4.9592	0.78	0.145		51636.332		
	3 Level	C1	PIPE	Fusio		110	0.2	21/40		4.9592	0.78	0.013	0.070	51636.188		
	3 Level	C1	BEND-90	Fusio		110		21/40		4.9592	0.78	0.145		51636.176		
	3 Level	C1	PIPE	Fusio		110	8.4	21/40		4.9592	0.78	0.593	0.070	51636.032		
	3 Level	C1	BRANCH	Fusio		110/40		21/40		4.9592	0.78	0.304		51635.440		Error: Balancing can
	3 Level	C1	PIPE	Fusio		40	2.9	21/20		0.2739	0.33	0.157	0.054	51635.136		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.2739	0.33	0.054		51634.980		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	1.7	21/20		0.0978	0.18	0.045	0.026	51634.928		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51634.884		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.005	0.026	51634.876		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51634.872		
	3 Level	C1	PIPE	Fusio		20	0.5	21/20		0.0978	0.60	0.205	0.439	51634.856		
	3 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		23.124		51634.652		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1761	0.21	0.008		51634.988		
	3 Level	C1	PIPE	Fusio		32	4.2	21/20		0.1761	0.33	0.300	0.071	51634.980		
	3 Level	C1	BRANCH	Fusio		32/32		21/20		0.1761	0.33	0.053		51634.680		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	1.7	21/20		0.0978	0.18	0.045	0.026	51634.620		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51634.576		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0978	0.18	0.005	0.026	51634.568		

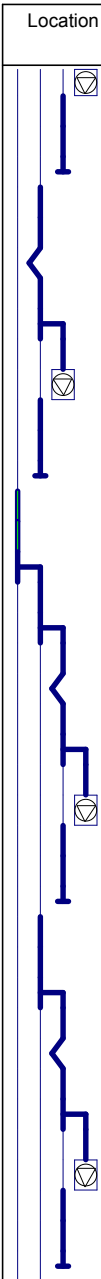
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51634.564		
	3 Level	C1	PIPE	Fusio		20	0.5	21/20		0.0978	0.60	0.205	0.439	51634.548		
	3 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		22.496		51634.344		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		32	3.0	21/20		0.0783	0.15	0.053	0.018	51634.680		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0783	0.15	0.005		51634.628		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.0783	0.15	0.004	0.018	51634.624		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0783	0.15	0.011		51634.620		
	3 Level	C1	PIPE	Fusio		20	0.5	21/20		0.0783	0.48	0.139	0.298	51634.608		
	3 Level	C1	FANCOIL		SK-ECM 14	12			1600	0.0783		22.680		51634.468		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	2.5	21/40		4.6853	0.74	0.160	0.064	51635.444		
	3 Level	C1	BRANCH	Fusio		110/63		21/40		4.6853	0.74	0.271		51635.284		Error: Balancing can
	3 Level	C1	PIPE	Fusio		63	0.5	21/30		1.3205	0.64	0.046	0.097	51635.020		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51634.976		
	3 Level	C1	PIPE	Fusio		63	2.6	21/30		1.3205	0.64	0.250	0.097	51634.880		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51634.628		
	3 Level	C1	PIPE	Fusio		63	2.0	21/30		1.3205	0.64	0.198	0.097	51634.532		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51634.332		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51634.332		
	2 Level	C1	PIPE	Fusio		63	2.7	21/30		1.3205	0.64	0.267	0.097	51634.332		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51634.064		
	2 Level	C1	PIPE	Fusio		63	3.6	21/30		1.3205	0.64	0.348	0.097	51633.968		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.202		51633.620		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51633.416		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51633.392		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.867	6.260	51633.336		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		15.640		51630.468		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.6	21/30		0.8803	0.42	0.219	0.048	51633.620		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.090		51633.400		Error: Balancing can
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51633.312		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51633.288		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.867	6.260	51633.232		

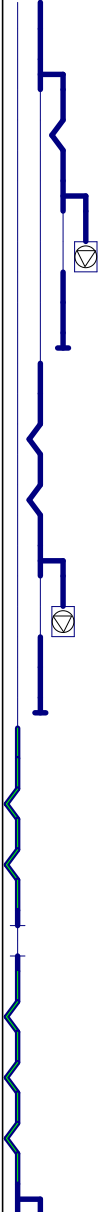
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		15.300		51630.364		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.009		51633.404		
	2 Level	C1	PIPE	Fusio		50	5.1	21/20		0.4402	0.34	0.219	0.043	51633.396		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51633.176		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51633.148		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51633.124		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.867	6.260	51633.068		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.908		51630.200		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		110/90				3.3648	0.53	0.043		51635.284		
	3 Level	C1	PIPE	Fusio		90	5.7	21/30		3.3648	0.79	0.527	0.092	51635.240		
	3 Level	C1	BRANCH	Fusio		90/63		21/30		3.3648	0.79	0.313		51634.712		Error: Balancing can
	3 Level	C1	PIPE	Fusio		63	0.2	21/30		1.3205	0.64	0.018	0.097	51634.404		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51634.388		
	3 Level	C1	PIPE	Fusio		63	2.7	21/30		1.3205	0.64	0.261	0.097	51634.292		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51634.032		
	3 Level	C1	PIPE	Fusio		63	2.3	21/30		1.3205	0.64	0.228	0.097	51633.936		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51633.708		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51633.708		
	2 Level	C1	PIPE	Fusio		63	2.2	21/30		1.3205	0.64	0.218	0.097	51633.708		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51633.492		
	2 Level	C1	PIPE	Fusio		63	3.0	21/30		1.3205	0.64	0.288	0.097	51633.396		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.202		51633.108		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51632.904		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51632.880		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.847	6.260	51632.824		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.640		51629.976		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.9	21/30		0.8803	0.42	0.232	0.048	51633.108		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.090		51632.876		Error: Balancing can
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51632.788		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51632.764		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.847	6.260	51632.708		

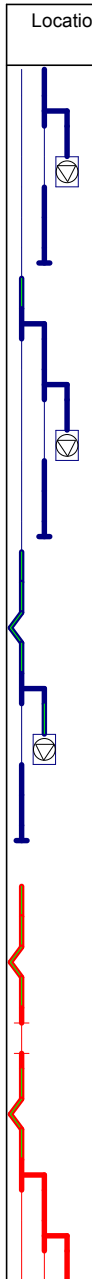
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.276		51629.860		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.009		51632.872		
	2 Level	C1	PIPE	Fusio		50	4.8	21/20		0.4402	0.34	0.206	0.043	51632.864		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51632.660		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51632.632		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51632.608		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.847	6.260	51632.552		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		13.908		51629.704		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		90/75				2.0443	0.48	0.031		51634.712		
	3 Level	C1	PIPE	Fusio		75	0.8	21/30		2.0443	0.69	0.076	0.092	51634.680		
	3 Level	C1	BRANCH	Fusio		75/63		21/30		2.0443	0.69	0.241		51634.604		Error: Balancing can
	3 Level	C1	PIPE	Fusio		63	2.1	21/30		0.7238	0.35	0.071	0.034	51634.380		
	3 Level	C1	BRANCH	Fusio		63/32		21/30		0.7238	0.35	0.061		51634.308		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	6.5	21/20		0.1810	0.34	0.487	0.074	51634.248		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51633.760		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1810	0.34	0.015	0.074	51633.732		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51633.716		
	3 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1810	1.11	0.535	1.282	51633.660		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		20.072		51633.124		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		63/50				0.5429	0.26	0.013		51634.300		
	3 Level	C1	PIPE	Fusio		50	1.4	21/20		0.5429	0.42	0.086	0.061	51634.288		
	3 Level	C1	BRANCH	Fusio		50/32		21/20		0.5429	0.42	0.086		51634.204		
	3 Level	C1	PIPE	Fusio		32	4.2	21/20		0.1810	0.34	0.313	0.074	51634.116		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51633.804		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1810	0.34	0.015	0.074	51633.776		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51633.760		
	3 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1810	1.11	0.574	1.282	51633.704		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		20.168		51633.128		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								

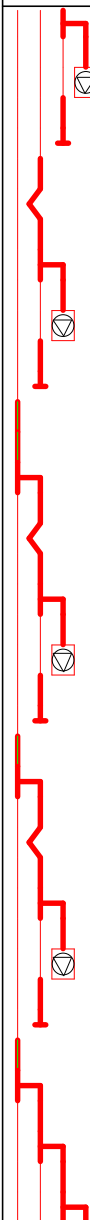
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	REDUCER	Fusio		50/40				0.3619	0.28	0.014		51634.204		
	3 Level	C1	PIPE	Fusio		40	4.7	21/20		0.3619	0.43	0.418	0.088	51634.188		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.3619	0.43	0.094		51633.772		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	6.5	21/20		0.1810	0.34	0.487	0.074	51633.680		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51633.192		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1810	0.34	0.015	0.074	51633.164		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51633.148		
	3 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1810	1.11	0.555	1.282	51633.092		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		18.904		51632.536		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1810	0.22	0.008		51633.768		
	3 Level	C1	PIPE	Fusio		32	1.0	21/20		0.1810	0.34	0.077	0.074	51633.760		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51633.684		
	3 Level	C1	PIPE	Fusio		32	4.2	21/20		0.1810	0.34	0.313	0.074	51633.656		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51633.344		
	3 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1810	0.34	0.015	0.074	51633.316		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51633.300		
	3 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1810	1.11	0.598	1.282	51633.244		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		19.136		51632.648		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.1	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		75/63				1.3205	0.45	0.025		51634.604		
	3 Level	C1	PIPE	Fusio		63	8.2	21/30		1.3205	0.64	0.800	0.097	51634.580		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51633.780		
	3 Level	C1	PIPE	Fusio		63	3.1	21/30		1.3205	0.64	0.301	0.097	51633.684		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51633.384		
	3 Level	C1	PIPE	Fusio		63	2.6	21/30		1.3205	0.64	0.257	0.097	51633.288		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51633.032		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51633.032		
	2 Level	C1	PIPE	Fusio		63	1.3	21/30		1.3205	0.64	0.125	0.097	51633.032		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51632.908		
	2 Level	C1	PIPE	Fusio		63	0.5	21/30		1.3205	0.64	0.044	0.097	51632.812		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51632.768		
	2 Level	C1	PIPE	Fusio		63	1.1	21/30		1.3205	0.64	0.110	0.097	51632.672		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51632.564		
	2 Level	C1	PIPE	Fusio		63	3.5	21/30		1.3205	0.64	0.342	0.097	51632.468		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.202		51632.124		Error: Balancing can

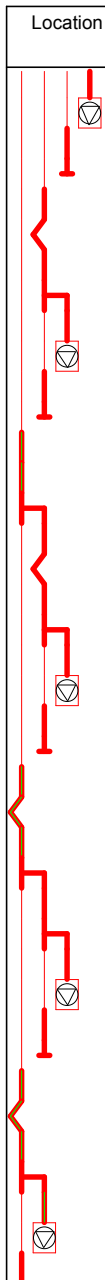
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51631.920		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51631.896		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.914	6.260	51631.840		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		12.360		51628.924		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.6	21/30		0.8803	0.42	0.219	0.048	51632.120		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.090		51631.900		Error: Balancing can
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51631.812		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51631.788		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.914	6.260	51631.732		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		12.016		51628.816		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.009		51631.904		
	2 Level	C1	PIPE	Fusio		50	5.1	21/20		0.4402	0.34	0.219	0.043	51631.896		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51631.676		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4402	0.34	0.023	0.043	51631.648		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51631.624		
	2 Level	C1	PIPE	Fusio		20	0.5	21/20		0.4402	2.70	2.914	6.260	51631.568		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		11.624		51628.652		
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	ROOT NODE							0.0750				1.545		
	1 Level	H1	PIPE	Fusio		32	1.3	21/20		0.0750	0.14	0.016	0.012	1.545		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0750	0.14	0.005		1.529		
	1 Level	H1	PIPE	Fusio		32	4.3	21/20		0.0750	0.14	0.054	0.012	1.524		
	1 Level	H1	CONN.NODE			32				0.0750	0.14			1.470		
	-1 Level	H1	CONN.NODE			32				0.0750	0.14			1.470		
	-1 Level	H1	PIPE	Fusio		32	0.4	21/20		0.0750	0.14	0.005	0.012	1.470		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0750	0.14	0.005		1.465		
	-1 Level	H1	PIPE	Fusio		32	3.8	21/20		0.0750	0.14	0.047	0.012	1.461		
	-1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0750	0.14	0.010		1.413		
	-1 Level	H1	PIPE	Fusio		20	5.8	21/20		0.0167	0.10	0.092	0.016	1.404		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		1.311		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.306		

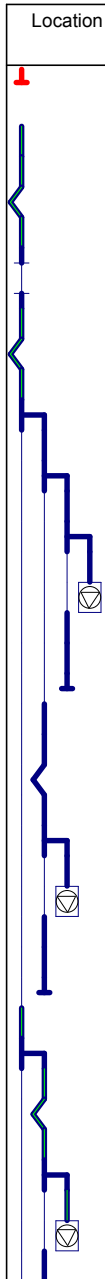
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.305		
	-1 Level	H1	PIPE	Fusio		20	0.3	21/20		0.0083	0.05	0.001	0.004	1.304		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		1.074		1.303		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	1.311		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		1.279		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.279		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.278		
	-1 Level	H1	PIPE	Fusio		20	0.3	21/20		0.0083	0.05	0.001	0.004	1.277		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		1.016		1.276		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.006		1.413		
	-1 Level	H1	PIPE	Fusio		25	0.9	21/20		0.0583	0.23	0.045	0.048	1.407		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23	0.026		1.363		
	-1 Level	H1	PIPE	Fusio		20	17.7	21/20		0.0083	0.05	0.071	0.004	1.337		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		1.266		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.265		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.264		
	-1 Level	H1	PIPE	Fusio		20	1.1	21/20		0.0083	0.05	0.005	0.004	1.263		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.993		1.258		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		25	2.2	21/20		0.0500	0.20	0.080	0.037	1.363		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		1.283		
	-1 Level	H1	PIPE	Fusio		20	1.4	21/20		0.0083	0.05	0.005	0.004	1.264		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		1.259		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.258		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.257		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.256		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.981		1.255		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		25	2.0	21/20		0.0416	0.16	0.053	0.027	1.283		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.013		1.231		
	-1 Level	H1	PIPE	Fusio		20	5.8	21/20		0.0167	0.10	0.092	0.016	1.217		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		1.125		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.120		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.119		

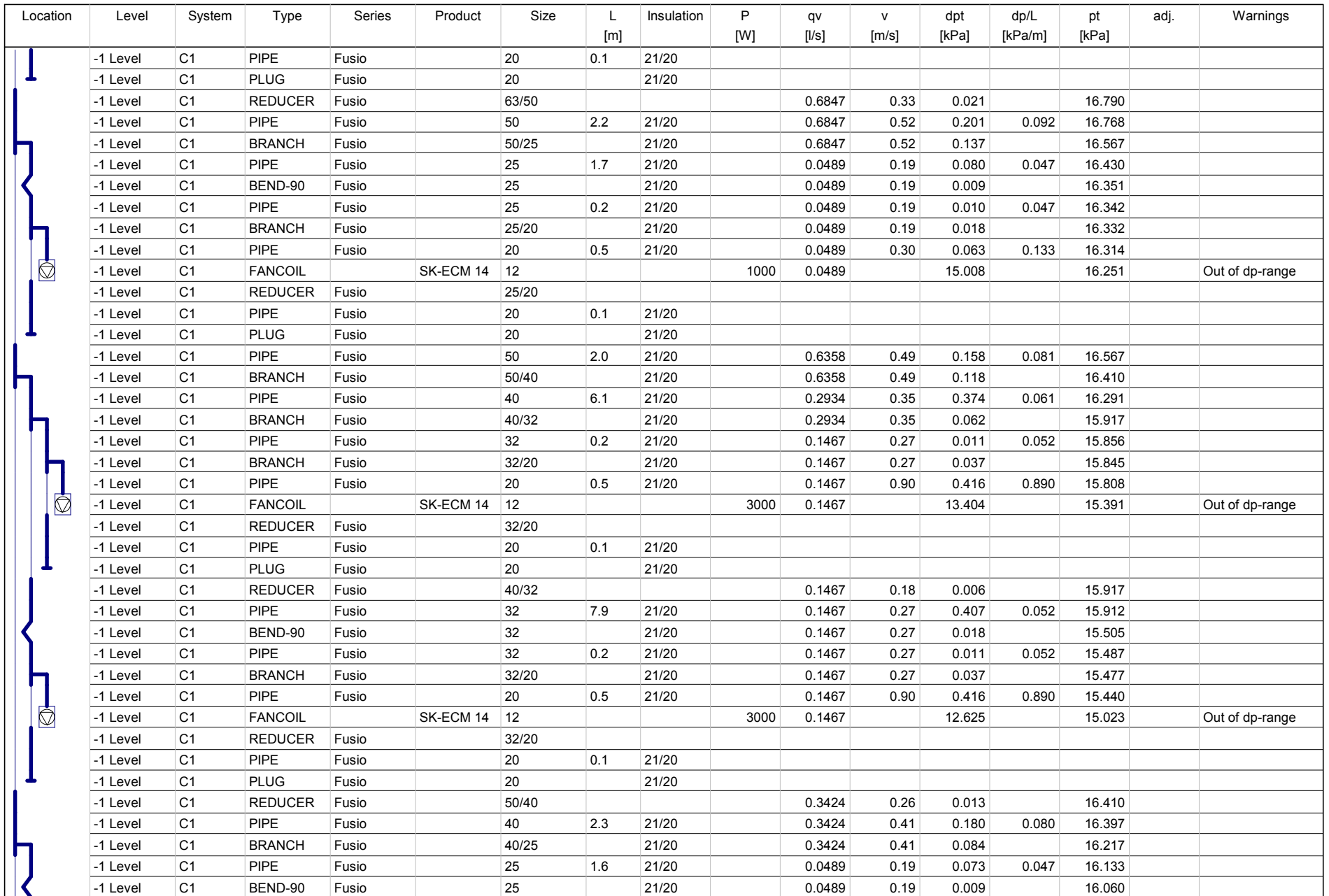
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.118		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.702		1.117		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	1.125		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		1.093		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.093		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.092		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.090		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.644		1.090		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		1.231		
	-1 Level	H1	PIPE	Fusio		20	2.8	21/20		0.0250	0.15	0.090	0.032	1.229		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		1.139		
	-1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0083	0.05	0.008	0.004	1.128		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		1.120		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.119		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.119		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.117		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.688		1.116		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	0.9	21/20		0.0167	0.10	0.014	0.016	1.139		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		1.125		
	-1 Level	H1	PIPE	Fusio		20	5.8	21/20		0.0167	0.10	0.092	0.016	1.123		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		1.030		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.025		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		1.024		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	1.023		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.498		1.022		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	1.030		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.998		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.998		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.997		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.996		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.440		0.995		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20								

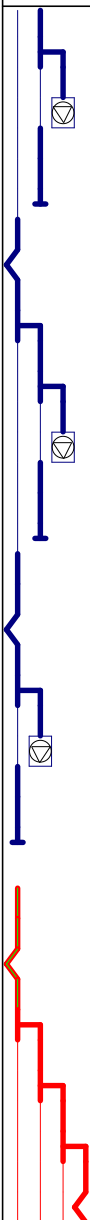
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	C1	ROOT NODE							1.1249				17.719		
	1 Level	C1	PIPE	Fusio		63	1.4	21/30		1.1249	0.54	0.102	0.073	17.719		
	1 Level	C1	BEND-90	Fusio		63		21/30		1.1249	0.54	0.070		17.617		
	1 Level	C1	PIPE	Fusio		63	4.5	21/30		1.1249	0.54	0.329	0.073	17.547		
	1 Level	C1	CONN.NODE			63				1.1249	0.54			17.218		
	-1 Level	C1	CONN.NODE			63				1.1249	0.54			17.218		
	-1 Level	C1	PIPE	Fusio		63	0.4	21/30		1.1249	0.54	0.028	0.073	17.218		
	-1 Level	C1	BEND-90	Fusio		63		21/30		1.1249	0.54	0.070		17.190		
	-1 Level	C1	PIPE	Fusio		63	4.0	21/30		1.1249	0.54	0.291	0.073	17.119		
	-1 Level	C1	BRANCH	Fusio		63/40		21/30		1.1249	0.54	0.147		16.829		
	-1 Level	C1	PIPE	Fusio		40	6.1	21/20		0.2934	0.35	0.374	0.061	16.682		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.062		16.309		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	16.247		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		16.236		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1467	0.90	0.437	0.890	16.199		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		14.172		15.762		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.006		16.309		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20		0.1467	0.27	0.407	0.052	16.303		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		15.896		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.878		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.868		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1467	0.90	0.437	0.890	15.831		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		13.393		15.394		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	PIPE	Fusio		63	0.9	21/30		0.8314	0.40	0.039	0.043	16.829		
	-1 Level	C1	BRANCH	Fusio		63/32		21/30		0.8314	0.40	0.080		16.790		
	-1 Level	C1	PIPE	Fusio		32	17.3	21/20		0.1467	0.27	0.896	0.052	16.710		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		15.813		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.796		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.785		
	-1 Level	C1	PIPE	Fusio		20	1.3	21/20		0.1467	0.90	1.193	0.890	15.748		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		11.624		14.555		
	-1 Level	C1	REDUCER	Fusio		32/20										

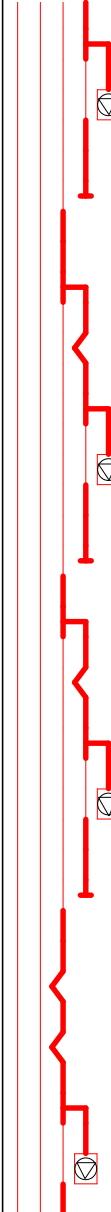
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		63/50				0.6847	0.33	0.021		16.790		
	-1 Level	C1	PIPE	Fusio		50	2.2	21/20		0.6847	0.52	0.201	0.092	16.768		
	-1 Level	C1	BRANCH	Fusio		50/25		21/20		0.6847	0.52	0.137		16.567		
	-1 Level	C1	PIPE	Fusio		25	1.7	21/20		0.0489	0.19	0.080	0.047	16.430		
	-1 Level	C1	BEND-90	Fusio		25		21/20		0.0489	0.19	0.009		16.351		
	-1 Level	C1	PIPE	Fusio		25	0.2	21/20		0.0489	0.19	0.010	0.047	16.342		
	-1 Level	C1	BRANCH	Fusio		25/20		21/20		0.0489	0.19	0.018		16.332		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.0489	0.30	0.063	0.133	16.314		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			1000	0.0489		15.008		16.251		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		25/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	PIPE	Fusio		50	2.0	21/20		0.6358	0.49	0.158	0.081	16.567		
	-1 Level	C1	BRANCH	Fusio		50/40		21/20		0.6358	0.49	0.118		16.410		
	-1 Level	C1	PIPE	Fusio		40	6.1	21/20		0.2934	0.35	0.374	0.061	16.291		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.062		15.917		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.856		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.845		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1467	0.90	0.416	0.890	15.808		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		13.404		15.391		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.006		15.917		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20		0.1467	0.27	0.407	0.052	15.912		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		15.505		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.487		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.477		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.1467	0.90	0.416	0.890	15.440		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		12.625		15.023		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		50/40				0.3424	0.26	0.013		16.410		
	-1 Level	C1	PIPE	Fusio		40	2.3	21/20		0.3424	0.41	0.180	0.080	16.397		
	-1 Level	C1	BRANCH	Fusio		40/25		21/20		0.3424	0.41	0.084		16.217		
	-1 Level	C1	PIPE	Fusio		25	1.6	21/20		0.0489	0.19	0.073	0.047	16.133		
	-1 Level	C1	BEND-90	Fusio		25		21/20		0.0489	0.19	0.009		16.060		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	C1	PIPE	Fusio		25	0.2	21/20		0.0489	0.19	0.010	0.047	16.051		
	-1 Level	C1	BRANCH	Fusio		25/20		21/20		0.0489	0.19	0.018		16.042		
	-1 Level	C1	PIPE	Fusio		20	0.5	21/20		0.0489	0.30	0.063	0.133	16.023		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			1000	0.0489		14.335		15.960		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		25/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	PIPE	Fusio		40	1.3	21/20		0.2934	0.35	0.082	0.061	16.217		
	-1 Level	C1	BEND-90	Fusio		40		21/20		0.2934	0.35	0.029		16.135		
	-1 Level	C1	PIPE	Fusio		40	6.1	21/20		0.2934	0.35	0.373	0.061	16.105		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.062		15.732		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.670		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.659		
	-1 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1467	0.90	0.376	0.890	15.622		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		12.983		15.246		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.006		15.732		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20		0.1467	0.27	0.407	0.052	15.726		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		15.319		
	-1 Level	C1	PIPE	Fusio		32	0.2	21/20		0.1467	0.27	0.011	0.052	15.302		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		15.291		
	-1 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1467	0.90	0.376	0.890	15.254		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		12.203		14.878		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.1	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	ROOT NODE							1.2719				2297.157		
	1 Level	H1	PIPE	Fusio		75	1.1	21/30		1.2719	0.43	0.034	0.032	2297.157		
	1 Level	H1	BEND-90	Fusio		75		21/30		1.2719	0.43	0.044		2297.123		
	1 Level	H1	PIPE	Fusio		75	0.1	21/30		1.2719	0.43	0.004	0.032	2297.079		
	1 Level	H1	BRANCH	Fusio		75/50		21/30		1.2719	0.43	0.092		2297.075		Error: Balancing can
	1 Level	H1	PIPE	Fusio		50	5.7	21/20		0.3998	0.31	0.162	0.028	2296.984		
	1 Level	H1	BRANCH	Fusio		50/40		21/20		0.3998	0.31	0.046		2296.822		
	1 Level	H1	PIPE	Fusio		40	0.9	21/20		0.1999	0.24	0.021	0.024	2296.776		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1999	0.24	0.028		2296.755		
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0500	0.20	0.037	0.037	2296.727		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.690		

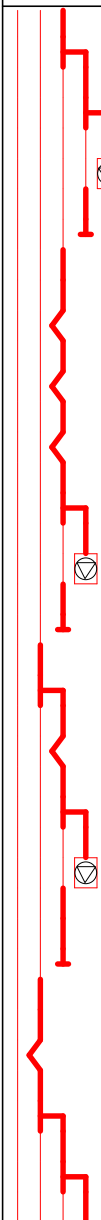
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.681		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.673		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2296.654		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.246		2296.633		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		40/32				0.1499	0.18	0.006		2296.755		
	1 Level	H1	PIPE	Fusio		32	6.6	21/20		0.1499	0.28	0.274	0.042	2296.749		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1499	0.28	0.038		2296.475		
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0500	0.20	0.037	0.037	2296.437		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.400		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.391		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.383		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2296.364		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2295.675		2296.343		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	7.4	21/20		0.1000	0.19	0.152	0.021	2296.475		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1000	0.19	0.017		2296.323		
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0500	0.20	0.037	0.037	2296.305		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.269		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.260		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.252		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2296.233		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2295.388		2296.211		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0500	0.09	0.004		2296.323		
	1 Level	H1	PIPE	Fusio		25	6.7	21/20		0.0500	0.20	0.247	0.037	2296.318		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.072		
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0500	0.20	0.037	0.037	2296.063		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.026		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.017		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.010		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2295.990		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2294.890		2295.969		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										

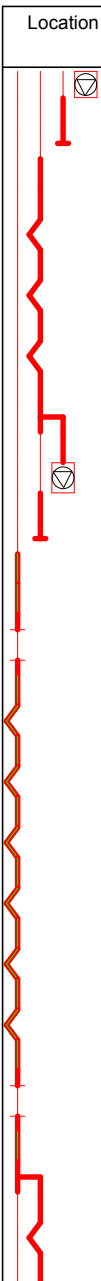
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		50/40				0.1999	0.15	0.004		2296.822		
	1 Level	H1	PIPE	Fusio		40	0.5	21/20		0.1999	0.24	0.012	0.024	2296.818		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1999	0.24	0.028		2296.806		
	1 Level	H1	PIPE	Fusio		25	6.1	21/20		0.0333	0.13	0.112	0.018	2296.778		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.008		2296.666		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.004	0.016	2296.657		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.654		
	1 Level	H1	PIPE	Fusio		20	0.6	21/20		0.0167	0.10	0.010	0.016	2296.649		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2296.240		2296.638		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		2296.665		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.087	0.016	2296.664		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.577		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	2296.575		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.555		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.031	0.016	2296.552		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.521		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.519		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.516		
	1 Level	H1	PIPE	Fusio		20	0.6	21/20		0.0167	0.10	0.010	0.016	2296.510		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.959		2296.500		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		40	1.8	21/20		0.1666	0.20	0.032	0.018	2296.806		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1666	0.20	0.020		2296.775		
	1 Level	H1	PIPE	Fusio		25	1.5	21/20		0.0500	0.20	0.056	0.037	2296.755		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.700		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.691		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.683		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2296.664		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.228		2296.643		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		40/32				0.1166	0.14	0.003		2296.775		
	1 Level	H1	PIPE	Fusio		32	2.3	21/20		0.1166	0.22	0.061	0.027	2296.771		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1166	0.22	0.023		2296.710		

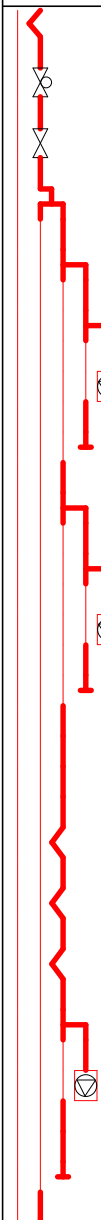
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		25	6.1	21/20		0.0333	0.13	0.112	0.018	2296.687		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.008		2296.575		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.004	0.016	2296.566		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.563		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.558		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2296.068		2296.555		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		2296.575		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.087	0.016	2296.574		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.487		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	2296.484		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.464		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.031	0.016	2296.462		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.431		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.429		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.425		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.420		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.787		2296.417		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	2.9	21/20		0.0833	0.15	0.043	0.015	2296.710		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.0833	0.15	0.012		2296.667		
	1 Level	H1	PIPE	Fusio		25	1.5	21/20		0.0500	0.20	0.056	0.037	2296.655		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		2296.600		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0500	0.20	0.008	0.037	2296.591		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		2296.583		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0500	0.31	0.021	0.106	2296.564		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.019		2296.543		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0333	0.06	0.002		2296.667		
	1 Level	H1	PIPE	Fusio		25	1.9	21/20		0.0333	0.13	0.034	0.018	2296.665		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0333	0.13	0.004		2296.632		
	1 Level	H1	PIPE	Fusio		25	6.1	21/20		0.0333	0.13	0.112	0.018	2296.628		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.008		2296.516		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.004	0.016	2296.507		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.504		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.498		

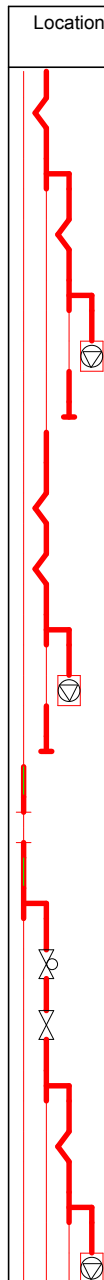
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.927		2296.495		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		2296.515		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.087	0.016	2296.514		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.427		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	2296.425		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.405		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.031	0.016	2296.402		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2296.372		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.369		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2296.366		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2296.361		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.646		2296.357		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		75/63				0.8721	0.30	0.011		2297.075		
	1 Level	H1	PIPE	Fusio		63	4.3	21/30		0.8721	0.42	0.160	0.038	2297.064		
	1 Level	H1	CONN.NODE			63				0.8721	0.42			2296.904		
	-1 Level	H1	CONN.NODE			63				0.8721	0.42			2296.904		
	-1 Level	H1	PIPE	Fusio		63	0.4	21/30		0.8721	0.42	0.015	0.038	2296.904		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2296.890		
	-1 Level	H1	PIPE	Fusio		63	14.1	21/30		0.8721	0.42	0.528	0.038	2296.848		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2296.320		
	-1 Level	H1	PIPE	Fusio		63	4.9	21/30		0.8721	0.42	0.185	0.038	2296.278		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2296.093		
	-1 Level	H1	PIPE	Fusio		63	5.5	21/30		0.8721	0.42	0.208	0.038	2296.052		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2295.844		
	-1 Level	H1	PIPE	Fusio		63	4.7	21/30		0.8721	0.42	0.175	0.038	2295.802		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2295.627		
	-1 Level	H1	PIPE	Fusio		63	1.0	21/30		0.8721	0.42	0.036	0.038	2295.586		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		2295.550		
	-1 Level	H1	PIPE	Fusio		63	0.9	21/30		0.8721	0.42	0.035	0.038	2295.508		
	-1 Level	H1	CONN.NODE			63				0.8721	0.42			2295.473		
	1 Level	H1	CONN.NODE			63				0.8721	0.42			2295.473		
	1 Level	H1	PIPE	Fusio		63	3.0	21/30		0.8721	0.42	0.114	0.038	2295.473		
	1 Level	H1	BRANCH	Fusio		63/32		21/30		0.8721	0.42	0.087		2295.359		
	1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1249	0.23	0.005	0.030	2295.273		
	1 Level	H1	BEND-40	Fusio		32		21/20		0.1249	0.23	0.006		2295.267		
	1 Level	H1	PIPE	Fusio		32	0.7	21/20		0.1249	0.23	0.023	0.030	2295.262		

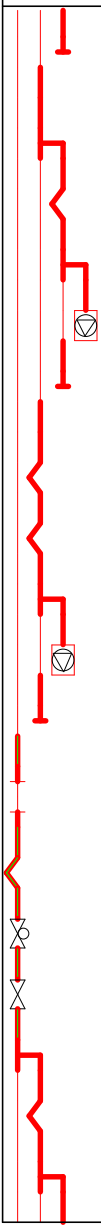
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	BEND-40	Fusio		32		21/20		0.1249	0.23	0.006		2295.239		
	1 Level	H1	PIPE	Fusio		32	0.5	21/20		0.1249	0.23	0.014	0.030	2295.234		
	1 Level	H1	ZONE VALVE		AT1310-32	32				0.1249		3.086		2295.220	0.50	
	1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1249	0.23	0.005	0.030	2292.134		
	1 Level	H1	STOPVALVE		AT3600-32	32				0.1249				2292.129		
	1 Level	H1	PIPE	Fusio		32	0.9	21/20		0.1249	0.23	0.028	0.030	2292.129		
	1 Level	H1	BRANCH	Fusio		32/32		21/20		0.1249	0.23	0.026		2292.101		
	1 Level	H1	PIPE	Fusio		32	0.4	21/20		0.0833	0.15	0.006	0.015	2292.075		
	1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0833	0.15	0.012		2292.069		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2292.057		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2292.052		
	1 Level	H1	PIPE	Fusio		20	0.3	21/20		0.0208	0.13	0.006	0.023	2292.044		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1468.104		2292.038		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	2.8	21/20		0.0625	0.12	0.026	0.009	2292.068		
	1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0625	0.12	0.007		2292.043		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2292.036		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2292.031		
	1 Level	H1	PIPE	Fusio		20	0.6	21/20		0.0208	0.13	0.013	0.023	2292.023		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1468.043		2292.010		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0416	0.08	0.003		2292.043		
	1 Level	H1	PIPE	Fusio		25	0.8	21/20		0.0416	0.16	0.023	0.027	2292.040		
	1 Level	H1	JOINT	Fusio		25		21/20		0.0416	0.16			2292.017		
	1 Level	H1	PIPE	Fusio		25	3.1	21/20		0.0416	0.16	0.083	0.027	2292.017		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		2291.934		
	1 Level	H1	PIPE	Fusio		25	9.2	21/20		0.0416	0.16	0.246	0.027	2291.928		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		2291.683		
	1 Level	H1	PIPE	Fusio		25	1.1	21/20		0.0416	0.16	0.029	0.027	2291.677		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		2291.648		
	1 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0416	0.16	0.006	0.027	2291.642		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.013		2291.636		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0416	0.26	0.016	0.077	2291.623		
	1 Level	H1	FANCOIL		SK-ECM 14	12			5000	0.0416		1467.243		2291.608		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.1	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0416	0.08	0.003		2292.075		

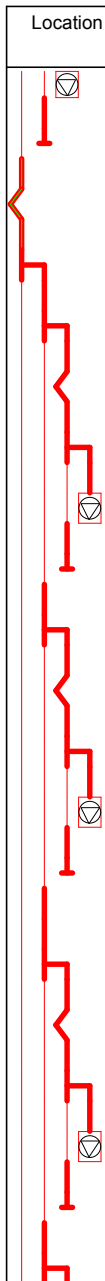
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings	
	1 Level	H1	PIPE	Fusio		25	0.7	21/20		0.0416	0.16	0.020	0.027	2292.072			
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		2292.052			
	1 Level	H1	PIPE	Fusio		25	6.4	21/20		0.0416	0.16	0.173	0.027	2292.046			
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.013		2291.873			
	1 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0208	0.13	0.040	0.023	2291.860			
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2291.820			
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2291.816			
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2291.811			
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2291.803			
	1 Level	H1	FANCOIL		SK-ECM 14	12				2500	0.0208		1467.605		2291.798		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20									
	1 Level	H1	PLUG	Fusio		20		21/20									
	1 Level	H1	REDUCER	Fusio		25/20					0.0208	0.08	0.001		2291.873		
	1 Level	H1	PIPE	Fusio		20	6.1	21/20			0.0208	0.13	0.143	0.023	2291.872		
	1 Level	H1	BEND-90	Fusio		20		21/20			0.0208	0.13	0.004		2291.729		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20			0.0208	0.13	0.029	0.023	2291.725		
	1 Level	H1	BEND-90	Fusio		20		21/20			0.0208	0.13	0.004		2291.696		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0208	0.13	0.005	0.023	2291.692		
	1 Level	H1	BRANCH	Fusio		20/20		21/20			0.0208	0.13	0.008		2291.687		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0208	0.13	0.005	0.023	2291.679		
	1 Level	H1	FANCOIL		SK-ECM 14	12				2500	0.0208		1467.346		2291.674		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.1	21/20									
	1 Level	H1	PLUG	Fusio		20		21/20									
	1 Level	H1	PIPE	Fusio		63	1.6	21/30			0.7471	0.36	0.045	0.028	2295.359		
	1 Level	H1	CONN.NODE			63					0.7471	0.36			2295.314		
	2 Level	H1	CONN.NODE			63					0.7471	0.36			2295.314		
	2 Level	H1	PIPE	Fusio		63	2.6	21/30			0.7471	0.36	0.073	0.028	2295.314		
	2 Level	H1	BRANCH	Fusio		63/32		21/30			0.7471	0.36	0.064		2295.240		
	2 Level	H1	PIPE	Fusio		32	0.5	21/20			0.0750	0.14	0.006	0.012	2295.178		
	2 Level	H1	ZONE VALVE		AT1310-32	32					0.0750		1.111		2295.171	0.50	
	2 Level	H1	PIPE	Fusio		32	0.1	21/20			0.0750	0.14	0.002	0.012	2294.060		
	2 Level	H1	STOPVALVE		AT3600-32	32					0.0750				2294.058		
	2 Level	H1	PIPE	Fusio		32	2.4	21/20			0.0750	0.14	0.030	0.012	2294.058		
	2 Level	H1	BRANCH	Fusio		32/20		21/20			0.0750	0.14	0.010		2294.028		
	2 Level	H1	PIPE	Fusio		20	1.5	21/20			0.0292	0.18	0.064	0.042	2294.019		
	2 Level	H1	BEND-90	Fusio		20		21/20			0.0292	0.18	0.007		2293.955		
2 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0292	0.18	0.009	0.042	2293.948			
2 Level	H1	BRANCH	Fusio		20/20		21/20			0.0292	0.18	0.016		2293.939			
2 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0292	0.18	0.009	0.042	2293.923			
2 Level	H1	FANCOIL		SK-ECM 14	12				3500	0.0292		1995.946		2293.915		Out of dp-range,High	

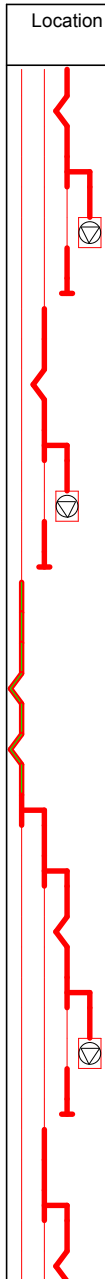
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0458	0.08	0.004		2294.028		
	2 Level	H1	PIPE	Fusio		25	5.7	21/20		0.0458	0.18	0.180	0.032	2294.025		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2293.845		
	2 Level	H1	PIPE	Fusio		20	1.5	21/20		0.0208	0.13	0.036	0.023	2293.829		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2293.793		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2293.789		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2293.784		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2293.776		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1995.662		2293.771		Out of dp-range,High
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		2293.845		
	2 Level	H1	PIPE	Fusio		20	4.8	21/20		0.0250	0.15	0.152	0.032	2293.843		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		2293.691		
	2 Level	H1	PIPE	Fusio		20	1.5	21/20		0.0250	0.15	0.049	0.032	2293.685		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		2293.637		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	2293.631		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		2293.624		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	2293.613		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1995.320		2293.606		Out of dp-range,High
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		63	0.6	21/30		0.6722	0.32	0.014	0.024	2295.240		
	2 Level	H1	CONN.NODE			63				0.6722	0.32			2295.227		
	3 Level	H1	CONN.NODE			63				0.6722	0.32			2295.227		
	3 Level	H1	PIPE	Fusio		63	2.8	21/30		0.6722	0.32	0.067	0.024	2295.227		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.6722	0.32	0.025		2295.160		
	3 Level	H1	PIPE	Fusio		63	0.4	21/30		0.6722	0.32	0.009	0.024	2295.135		
	3 Level	H1	ZONE VALVE		AT1310-50	50				0.6722		2.000		2295.126	2.0	
	3 Level	H1	PIPE	Fusio		63	0.2	21/30		0.6722	0.32	0.004	0.024	2293.126		
	3 Level	H1	STOPVALVE		AT3600-65	65				0.6722				2293.122		
	3 Level	H1	PIPE	Fusio		63	0.5	21/30		0.6722	0.32	0.012	0.024	2293.122		
	3 Level	H1	BRANCH	Fusio		63/20		21/30		0.6722	0.32	0.052		2293.110		
	3 Level	H1	PIPE	Fusio		20	1.2	21/20		0.0208	0.13	0.029	0.023	2293.059		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2293.030		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2293.027		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2293.022		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2293.014		

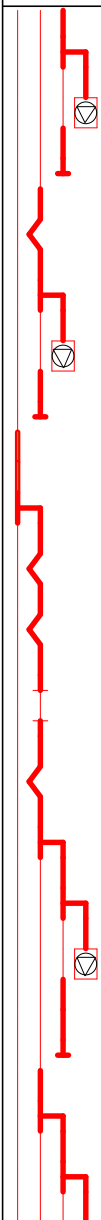
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		3.135		2293.009		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		63	0.6	21/30		0.6514	0.31	0.014	0.022	2293.110		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.6514	0.31	0.023		2293.097		
	3 Level	H1	PIPE	Fusio		63	0.9	21/30		0.6514	0.31	0.021	0.022	2293.074		
	3 Level	H1	BRANCH	Fusio		63/32		21/30		0.6514	0.31	0.048		2293.053		
	3 Level	H1	PIPE	Fusio		32	2.7	21/20		0.0958	0.18	0.051	0.019	2293.005		
	3 Level	H1	BRANCH	Fusio		32/20		21/20		0.0958	0.18	0.016		2292.953		
	3 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.030	0.016	2292.938		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2292.908		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.905		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2292.902		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.896		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.929		2292.893		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		32	3.6	21/20		0.0791	0.15	0.049	0.014	2292.953		
	3 Level	H1	BRANCH	Fusio		32/20		21/20		0.0791	0.15	0.011		2292.904		
	3 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0208	0.13	0.045	0.023	2292.894		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2292.849		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.005	0.023	2292.845		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2292.841		
	3 Level	H1	PIPE	Fusio		20	0.4	21/20		0.0208	0.13	0.010	0.023	2292.833		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		2.786		2292.823		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.006		2292.904		
	3 Level	H1	PIPE	Fusio		25	0.7	21/20		0.0583	0.23	0.032	0.048	2292.899		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23	0.026		2292.866		
	3 Level	H1	PIPE	Fusio		20	3.8	21/20		0.0250	0.15	0.122	0.032	2292.841		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		2292.719		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	2292.713		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		2292.707		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0250	0.15	0.007	0.032	2292.695		
	3 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		2.511		2292.689		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		25	3.1	21/20		0.0333	0.13	0.057	0.018	2292.867		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.008		2292.810		

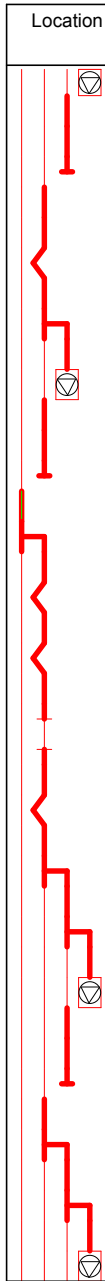
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.031	0.016	2292.801		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2292.771		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.769		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2292.765		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.760		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.639		2292.757		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		2292.809		
	3 Level	H1	PIPE	Fusio		20	3.2	21/20		0.0167	0.10	0.052	0.016	2292.809		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2292.757		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.755		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2292.751		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0167	0.10	0.003	0.016	2292.746		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.603		2292.743		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		63	3.6	21/30		0.5556	0.27	0.060	0.017	2293.053		
	3 Level	H1	JOINT	Fusio		63		21/30		0.5556	0.27			2292.992		
	3 Level	H1	PIPE	Fusio		63	0.6	21/30		0.5556	0.27	0.010	0.017	2292.992		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.5556	0.27	0.017		2292.982		
	3 Level	H1	PIPE	Fusio		63	0.3	21/30		0.5556	0.27	0.005	0.017	2292.966		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.5556	0.27	0.017		2292.961		
	3 Level	H1	PIPE	Fusio		63	8.2	21/30		0.5556	0.27	0.138	0.017	2292.944		
	3 Level	H1	BRANCH	Fusio		63/25		21/30		0.5556	0.27	0.035		2292.806		
	3 Level	H1	PIPE	Fusio		25	3.1	21/20		0.0350	0.14	0.061	0.020	2292.771		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0350	0.14	0.009		2292.709		
	3 Level	H1	PIPE	Fusio		20	1.4	21/20		0.0125	0.08	0.009	0.006	2292.700		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0125	0.08	0.001		2292.691		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0125	0.08	0.001	0.006	2292.690		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0125	0.08	0.003		2292.689		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0125	0.08	0.001	0.006	2292.686		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1500	0.0125		2.489		2292.685		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		25/20				0.0225	0.09	0.001		2292.710		
	3 Level	H1	PIPE	Fusio		20	4.2	21/20		0.0225	0.14	0.113	0.027	2292.708		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0225	0.14	0.009		2292.595		
	3 Level	H1	PIPE	Fusio		20	1.4	21/20		0.0125	0.08	0.009	0.006	2292.586		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0125	0.08	0.001		2292.577		

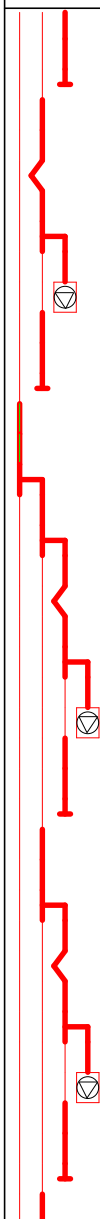
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0125	0.08	0.001	0.006	2292.575		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0125	0.08	0.003		2292.574		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0125	0.08	0.001	0.006	2292.571		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1500	0.0125		2.257		2292.570		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		20	3.2	21/20		0.0100	0.06	0.016	0.005	2292.595		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0100	0.06	0.001		2292.579		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0100	0.06	0.001	0.005	2292.578		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0100	0.06	0.002		2292.577		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0100	0.06	0.001	0.005	2292.575		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1200	0.0100		2.258		2292.574		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		63/50				0.5206	0.25	0.012		2292.806		
	3 Level	H1	PIPE	Fusio		50	2.6	21/20		0.5206	0.40	0.117	0.045	2292.794		
	3 Level	H1	BRANCH	Fusio		50/32		21/20		0.5206	0.40	0.078		2292.678		
	3 Level	H1	PIPE	Fusio		32	0.5	21/20		0.1124	0.21	0.014	0.025	2292.599		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.586		
	3 Level	H1	PIPE	Fusio		32	2.2	21/20		0.1124	0.21	0.056	0.025	2292.575		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.519		
	3 Level	H1	PIPE	Fusio		32	2.1	21/20		0.1124	0.21	0.052	0.025	2292.509		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2292.457		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2292.457		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.1124	0.21	0.070	0.025	2292.457		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.387		
	2 Level	H1	PIPE	Fusio		32	3.6	21/20		0.1124	0.21	0.090	0.025	2292.377		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.021		2292.286		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2292.265		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2292.252		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2292.241		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.641		2292.227		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.6	21/20		0.0750	0.14	0.058	0.012	2292.286		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.010		2292.228		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2292.218		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2292.206		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2292.195		

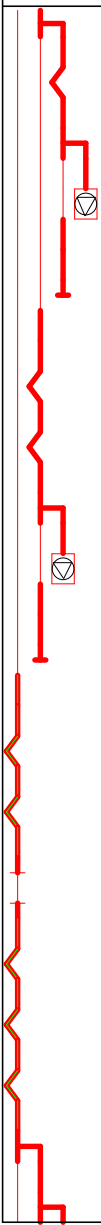
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.535		2292.181		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.002		2292.228		
	2 Level	H1	PIPE	Fusio		25	5.2	21/20		0.0375	0.15	0.116	0.022	2292.226		
	2 Level	H1	BEND-90	Fusio		25		21/20		0.0375	0.15	0.005		2292.110		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2292.105		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2292.093		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2292.082		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.301		2292.068		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		50	5.8	21/20		0.4081	0.31	0.170	0.029	2292.678		
	3 Level	H1	BRANCH	Fusio		50/32		21/20		0.4081	0.31	0.048		2292.508		
	3 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1124	0.21	0.006	0.025	2292.459		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.454		
	3 Level	H1	PIPE	Fusio		32	2.3	21/20		0.1124	0.21	0.059	0.025	2292.443		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.385		
	3 Level	H1	PIPE	Fusio		32	2.4	21/20		0.1124	0.21	0.060	0.025	2292.374		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2292.315		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2292.315		
	2 Level	H1	PIPE	Fusio		32	2.3	21/20		0.1124	0.21	0.057	0.025	2292.315		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.257		
	2 Level	H1	PIPE	Fusio		32	3.0	21/20		0.1124	0.21	0.075	0.025	2292.247		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.021		2292.172		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2292.151		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2292.138		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2292.127		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.382		2292.113		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.9	21/20		0.0750	0.14	0.061	0.012	2292.172		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.010		2292.111		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2292.101		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2292.088		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2292.077		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.270		2292.063		Out of dp-range

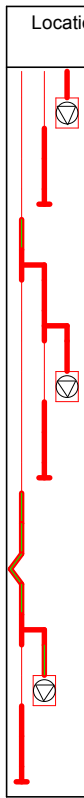
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings		
	2 Level	H1	REDUCER	Fusio		25/20												
	2 Level	H1	PIPE	Fusio		20	0.1	21/20										
	2 Level	H1	PLUG	Fusio		20		21/20										
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.002		2292.111				
	2 Level	H1	PIPE	Fusio		25	4.9	21/20			0.0375	0.15	0.109	0.022	2292.108			
	2 Level	H1	BEND-90	Fusio		25		21/20			0.0375	0.15	0.005		2292.000			
	2 Level	H1	PIPE	Fusio		25	0.6	21/20			0.0375	0.15	0.013	0.022	2291.995			
	2 Level	H1	BRANCH	Fusio		25/20		21/20			0.0375	0.15	0.011		2291.982			
	2 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0375	0.23	0.014	0.064	2291.972			
	2 Level	H1	FANCOIL		SK-ECM 14	12				4500	0.0375		1.050		2291.957		Out of dp-range	
	2 Level	H1	REDUCER	Fusio		25/20												
	2 Level	H1	PIPE	Fusio		20	0.1	21/20										
	2 Level	H1	PLUG	Fusio		20		21/20										
	3 Level	H1	REDUCER	Fusio		50/40					0.2957	0.23	0.009		2292.508			
	3 Level	H1	PIPE	Fusio		40	0.8	21/20			0.2957	0.35	0.039	0.049	2292.498			
	3 Level	H1	BRANCH	Fusio		40/40		21/20			0.2957	0.35	0.062		2292.460			
	3 Level	H1	PIPE	Fusio		40	2.8	21/20			0.1832	0.22	0.058	0.021	2292.398			
	3 Level	H1	BRANCH	Fusio		40/25		21/20			0.1832	0.22	0.024		2292.340			
	3 Level	H1	PIPE	Fusio		25	6.8	21/20			0.0458	0.18	0.216	0.032	2292.317			
	3 Level	H1	BEND-90	Fusio		25		21/20			0.0458	0.18	0.007		2292.101			
	3 Level	H1	PIPE	Fusio		25	0.2	21/20			0.0458	0.18	0.007	0.032	2292.094			
	3 Level	H1	BRANCH	Fusio		25/20		21/20			0.0458	0.18	0.016		2292.087			
	3 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0458	0.28	0.018	0.091	2292.071			
	3 Level	H1	FANCOIL		SK-ECM 14	12				5500	0.0458		1.244		2292.053		Out of dp-range	
	3 Level	H1	REDUCER	Fusio		25/20												
	3 Level	H1	PIPE	Fusio		20	0.1	21/20										
	3 Level	H1	PLUG	Fusio		20		21/20										
	3 Level	H1	REDUCER	Fusio		40/32					0.1374	0.16	0.005		2292.340			
	3 Level	H1	PIPE	Fusio		32	0.9	21/20			0.1374	0.25	0.034	0.036	2292.336			
	3 Level	H1	BRANCH	Fusio		32/25		21/20			0.1374	0.25	0.032		2292.302			
	3 Level	H1	PIPE	Fusio		25	3.9	21/20			0.0458	0.18	0.122	0.032	2292.270			
	3 Level	H1	BEND-90	Fusio		25		21/20			0.0458	0.18	0.007		2292.148			
	3 Level	H1	PIPE	Fusio		25	0.2	21/20			0.0458	0.18	0.007	0.032	2292.141			
	3 Level	H1	BRANCH	Fusio		25/20		21/20			0.0458	0.18	0.016		2292.134			
	3 Level	H1	PIPE	Fusio		20	0.2	21/20			0.0458	0.28	0.018	0.091	2292.118			
	3 Level	H1	FANCOIL		SK-ECM 14	12				5500	0.0458		1.362		2292.100		Out of dp-range	
3 Level	H1	REDUCER	Fusio		25/20													
3 Level	H1	PIPE	Fusio		20	0.1	21/20											
3 Level	H1	PLUG	Fusio		20		21/20											
3 Level	H1	PIPE	Fusio		32	5.2	21/20			0.0916	0.17	0.093	0.018	2292.302				

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	BRANCH	Fusio		32/25		21/20		0.0916	0.17	0.014		2292.209		
	3 Level	H1	PIPE	Fusio		25	6.8	21/20		0.0458	0.18	0.216	0.032	2292.195		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2291.979		
	3 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0458	0.18	0.007	0.032	2291.972		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2291.965		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0458	0.28	0.018	0.091	2291.949		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		0.991		2291.931		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		32/25				0.0458	0.08	0.004		2292.209		
	3 Level	H1	PIPE	Fusio		25	0.5	21/20		0.0458	0.18	0.017	0.032	2292.206		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2292.188		
	3 Level	H1	PIPE	Fusio		25	3.8	21/20		0.0458	0.18	0.121	0.032	2292.181		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2292.059		
	3 Level	H1	PIPE	Fusio		25	0.2	21/20		0.0458	0.18	0.007	0.032	2292.052		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2292.046		
	3 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0458	0.28	0.018	0.091	2292.030		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		1.156		2292.011		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.1	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		40/32				0.1124	0.13	0.003		2292.460		
	3 Level	H1	PIPE	Fusio		32	8.3	21/20		0.1124	0.21	0.210	0.025	2292.457		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.247		
	3 Level	H1	PIPE	Fusio		32	2.7	21/20		0.1124	0.21	0.069	0.025	2292.236		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.167		
	3 Level	H1	PIPE	Fusio		32	2.7	21/20		0.1124	0.21	0.067	0.025	2292.157		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2292.090		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2292.090		
	2 Level	H1	PIPE	Fusio		32	1.3	21/20		0.1124	0.21	0.033	0.025	2292.090		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.056		
	2 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1124	0.21	0.006	0.025	2292.046		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.040		
	2 Level	H1	PIPE	Fusio		32	1.2	21/20		0.1124	0.21	0.030	0.025	2292.030		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2292.000		
	2 Level	H1	PIPE	Fusio		32	3.8	21/20		0.1124	0.21	0.096	0.025	2291.990		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.021		2291.894		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2291.872		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.859		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2291.849		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.780		2291.834		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.6	21/20		0.0750	0.14	0.058	0.012	2291.894		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.010		2291.836		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2291.826		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.813		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2291.803		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.674		2291.788		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.002		2291.836		
	2 Level	H1	PIPE	Fusio		25	5.2	21/20		0.0375	0.15	0.116	0.022	2291.834		
	2 Level	H1	BEND-90	Fusio		25		21/20		0.0375	0.15	0.005		2291.718		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.013	0.022	2291.713		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.700		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0375	0.23	0.014	0.064	2291.690		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.440		2291.675		
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								

Project Information

Project name:	HVAC	Project number:	2016
Address:		Notes:	
City:	Hotel In Bakuriani	:	
Author:	HELPme	:	
Software version:	2016.4 UR-1	Calculation date:	5/17/2017 01:43

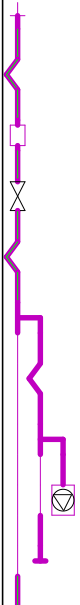
Project Calculation Data

Systems:	H1, C1	Fluid type:	*Multiple*
Total flow:	*Multiple*	Fluid temperature:	*Multiple*
Fluid density:	*Multiple*	Fluid dyn. viscosity:	*Multiple*
Fluid spec. heat capacity:	*Multiple*		

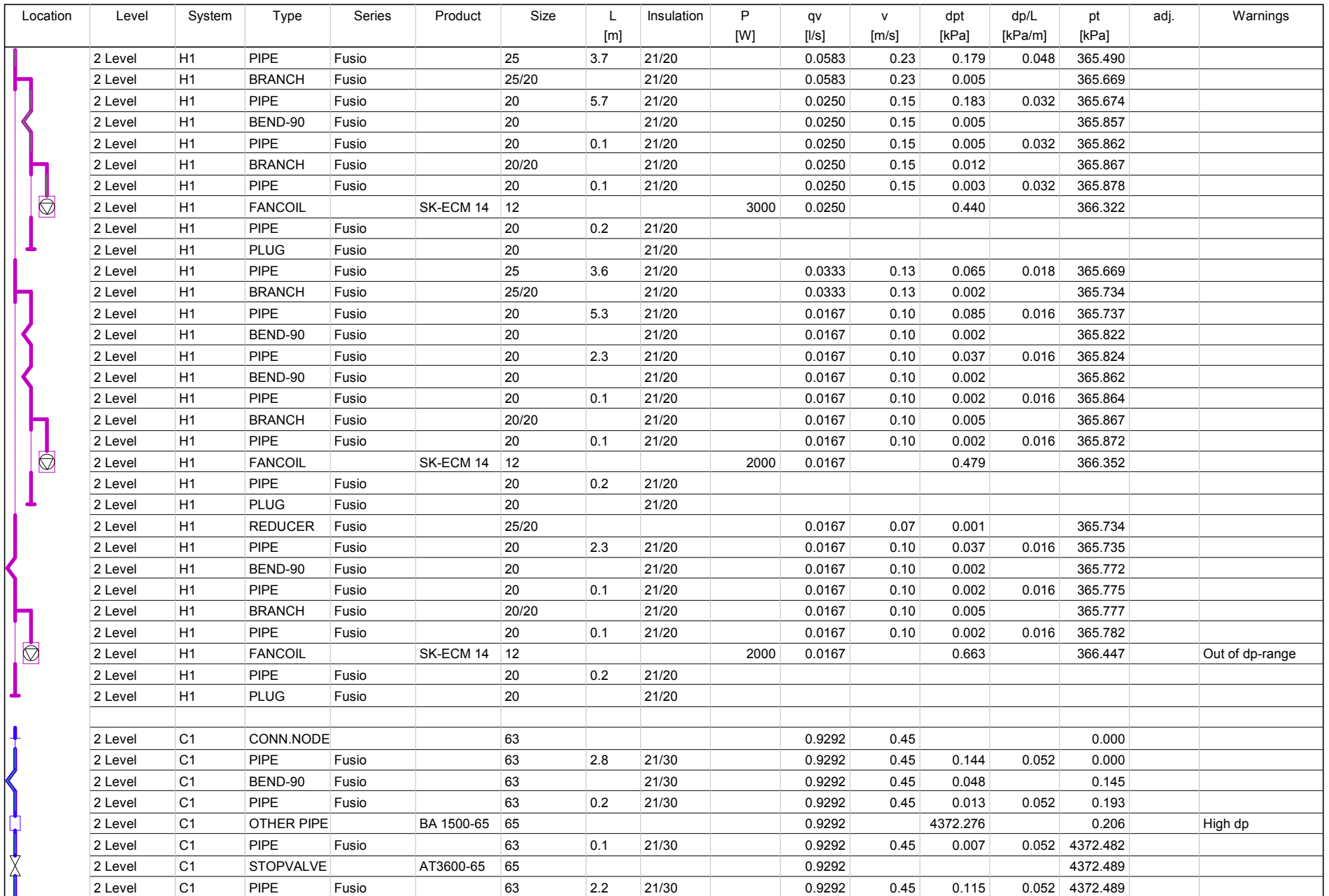
Calculation Input Values

Min. dp zone valves:	2.000 - 3.000 kPa	Balancing target pressure:	Minimum
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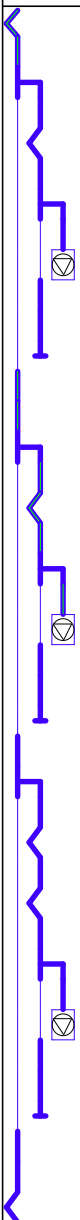
Calculation Results / Return

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	CONN.NODE			32				0.0833	0.15			0.000		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.0833	0.15	0.042	0.015	0.000		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.0833	0.15	0.006		0.042		
	2 Level	H1	PIPE	Fusio		32	0.3	21/20		0.0833	0.15	0.004	0.015	0.047		
	2 Level	H1	OTHER PIPE		BA 1500-32	32				0.0833		365.346		0.052		High dp
	2 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0833	0.15	0.003	0.015	365.397		
	2 Level	H1	STOPVALVE		AT3600-32	32				0.0833				365.400		
	2 Level	H1	PIPE	Fusio		32	2.0	21/20		0.0833	0.15	0.031	0.015	365.400		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.0833	0.15	0.006		365.431		
	2 Level	H1	PIPE	Fusio		32	3.1	21/20		0.0833	0.15	0.046	0.015	365.437		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.0833	0.15			365.482		
	2 Level	H1	PIPE	Fusio		20	5.7	21/20		0.0250	0.15	0.183	0.032	365.482		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		365.665		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	365.671		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		365.675		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	365.687		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.830		366.520		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.007		365.482		

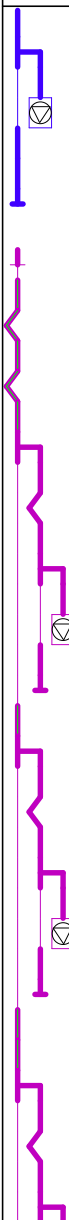
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		25	3.7	21/20		0.0583	0.23	0.179	0.048	365.490		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23	0.005		365.669		
	2 Level	H1	PIPE	Fusio		20	5.7	21/20		0.0250	0.15	0.183	0.032	365.674		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		365.857		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	365.862		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		365.867		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	365.878		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.440		366.322		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		25	3.6	21/20		0.0333	0.13	0.065	0.018	365.669		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.002		365.734		
	2 Level	H1	PIPE	Fusio		20	5.3	21/20		0.0167	0.10	0.085	0.016	365.737		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		365.822		
	2 Level	H1	PIPE	Fusio		20	2.3	21/20		0.0167	0.10	0.037	0.016	365.824		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		365.862		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	365.864		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		365.867		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	365.872		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		0.479		366.352		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		365.734		
	2 Level	H1	PIPE	Fusio		20	2.3	21/20		0.0167	0.10	0.037	0.016	365.735		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		365.772		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	365.775		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		365.777		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	365.782		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		0.663		366.447		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	C1	CONN.NODE			63				0.9292	0.45			0.000		
	2 Level	C1	PIPE	Fusio		63	2.8	21/30		0.9292	0.45	0.144	0.052	0.000		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.9292	0.45	0.048		0.145		
	2 Level	C1	PIPE	Fusio		63	0.2	21/30		0.9292	0.45	0.013	0.052	0.193		
	2 Level	C1	OTHER PIPE		BA 1500-65	65				0.9292		4372.276		0.206		High dp
	2 Level	C1	PIPE	Fusio		63	0.1	21/30		0.9292	0.45	0.007	0.052	4372.482		
	2 Level	C1	STOPVALVE		AT3600-65	65				0.9292				4372.489		
	2 Level	C1	PIPE	Fusio		63	2.2	21/30		0.9292	0.45	0.115	0.052	4372.489		

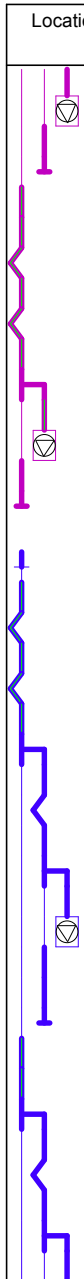
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	BEND-90	Fusio		63		21/30		0.9292	0.45	0.048		4372.604		
	2 Level	C1	PIPE	Fusio		63	3.4	21/30		0.9292	0.45	0.178	0.052	4372.652		
	2 Level	C1	BRANCH	Fusio		63/40		21/30		0.9292	0.45			4372.830		
	2 Level	C1	PIPE	Fusio		40	5.9	21/20		0.2445	0.29	0.265	0.044	4372.830		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4373.095		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2445	0.29	0.005	0.044	4373.115		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		4373.121		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.597	2.185	4373.163		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		12.371		4386.132		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.6847	0.33	0.019		4372.830		
	2 Level	C1	PIPE	Fusio		50	3.7	21/20		0.6847	0.52	0.341	0.092	4372.849		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6847	0.52	0.011		4373.190		
	2 Level	C1	PIPE	Fusio		40	6.0	21/20		0.2445	0.29	0.265	0.044	4373.201		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4373.466		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2445	0.29	0.005	0.044	4373.487		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		4373.492		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.597	2.185	4373.535		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		11.624		4385.756		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	3.6	21/20		0.4402	0.34	0.153	0.043	4373.191		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.4402	0.34	0.016		4373.344		
	2 Level	C1	PIPE	Fusio		40	5.3	21/20		0.2201	0.26	0.198	0.037	4373.360		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4373.558		
	2 Level	C1	PIPE	Fusio		40	2.1	21/20		0.2201	0.26	0.079	0.037	4373.574		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4373.654		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	4373.670		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		4373.675		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.495	1.812	4373.709		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.651		4385.855		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2201	0.17	0.005		4373.345		
	2 Level	C1	PIPE	Fusio		40	2.1	21/20		0.2201	0.26	0.079	0.037	4373.349		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		4373.429		

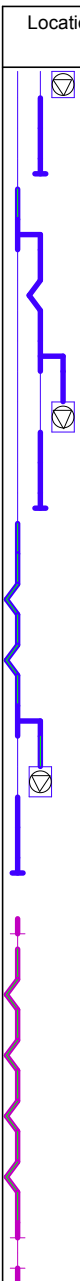
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	4373.445		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		4373.449		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.577	1.812	4373.484		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.891		4385.952		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	H1	CONN.NODE			32				0.1000	0.19			-0.000		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.1000	0.19	0.057	0.021	-0.000		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1000	0.19	0.008		0.057		
	2 Level	H1	PIPE	Fusio		32	8.0	21/20		0.1000	0.19	0.165	0.021	0.065		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1000	0.19	0.008		0.230		
	2 Level	H1	PIPE	Fusio		32	1.2	21/20		0.1000	0.19	0.025	0.021	0.238		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.1000	0.19			0.264		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.043	0.032	0.264		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		0.306		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	0.311		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		0.316		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	0.328		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1.178		1.509		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.5	21/20		0.0750	0.14	0.057	0.012	0.264		
	2 Level	H1	BRANCH	Fusio		32/20		21/20		0.0750	0.14	0.000		0.320		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.043	0.032	0.321		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		0.363		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	0.369		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		0.373		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	0.385		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1.072		1.460		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0500	0.09	0.005		0.320		
	2 Level	H1	PIPE	Fusio		25	4.4	21/20		0.0500	0.20	0.163	0.037	0.326		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.005		0.489		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.043	0.032	0.494		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		0.537		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	0.542		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		0.547		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	0.558		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.721		1.283		Out of dp-range
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		0.489		
	2 Level	H1	PIPE	Fusio		20	4.6	21/20		0.0250	0.15	0.146	0.032	0.490		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		0.636		
	2 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0250	0.15	0.042	0.032	0.642		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		0.684		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	0.690		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		0.694		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	0.706		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		0.440		1.149		
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	C1	CONN.NODE			63				0.8803	0.42			-0.000		
	2 Level	C1	PIPE	Fusio		63	2.8	21/30		0.8803	0.42	0.131	0.048	-0.000		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.8803	0.42	0.043		0.131		
	2 Level	C1	PIPE	Fusio		63	8.1	21/30		0.8803	0.42	0.387	0.048	0.174		
	2 Level	C1	BEND-90	Fusio		63		21/30		0.8803	0.42	0.043		0.561		
	2 Level	C1	PIPE	Fusio		63	1.2	21/30		0.8803	0.42	0.056	0.048	0.604		
	2 Level	C1	BRANCH	Fusio		63/40		21/30		0.8803	0.42			0.660		
	2 Level	C1	PIPE	Fusio		40	1.2	21/20		0.2201	0.26	0.043	0.037	0.660		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		0.703		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	0.720		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		0.724		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.577	1.812	0.759		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		13.106		14.441		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.6602	0.32	0.017		0.660		
	2 Level	C1	PIPE	Fusio		50	4.5	21/20		0.6602	0.51	0.390	0.086	0.678		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6602	0.51	0.006		1.067		
	2 Level	C1	PIPE	Fusio		40	1.2	21/20		0.2201	0.26	0.043	0.037	1.073		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		1.116		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	1.133		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		1.138		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.577	1.812	1.172		

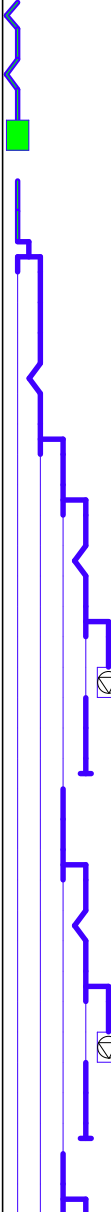
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		12.245		13.994		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	4.4	21/20		0.4402	0.34	0.188	0.043	1.067		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.4402	0.34	0.016		1.256		
	2 Level	C1	PIPE	Fusio		40	1.2	21/20		0.2201	0.26	0.043	0.037	1.272		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		1.315		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	1.331		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		1.336		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.577	1.812	1.371		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.929		13.877		Out of dp-range
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2201	0.17	0.005		1.256		
	2 Level	C1	PIPE	Fusio		40	4.5	21/20		0.2201	0.26	0.168	0.037	1.260		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		1.428		
	2 Level	C1	PIPE	Fusio		40	1.2	21/20		0.2201	0.26	0.043	0.037	1.445		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		1.487		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	1.504		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		1.508		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.577	1.812	1.543		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		11.624		13.744		
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	CONN.NODE			32				0.0666	0.12			-0.000		
	1 Level	H1	PIPE	Fusio		32	2.2	21/20		0.0666	0.12	0.022	0.010	-0.000		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.022		
	1 Level	H1	PIPE	Fusio		32	1.2	21/20		0.0666	0.12	0.012	0.010	0.026		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.038		
	1 Level	H1	PIPE	Fusio		32	5.8	21/20		0.0666	0.12	0.059	0.010	0.041		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.100		
	1 Level	H1	PIPE	Fusio		32	3.1	21/20		0.0666	0.12	0.032	0.010	0.104		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.136		
	1 Level	H1	PIPE	Fusio		32	2.4	21/20		0.0666	0.12	0.025	0.010	0.139		
	1 Level	H1	CONN.NODE			32				0.0666	0.12			0.164		
	-1 Level	H1	CONN.NODE			32				0.0666	0.12			0.164		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PIPE	Fusio		32	1.1	21/20		0.0666	0.12	0.011	0.010	0.164		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.175		
	-1 Level	H1	PIPE	Fusio		32	1.5	21/20		0.0666	0.12	0.016	0.010	0.179		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.194		
	-1 Level	H1	PIPE	Fusio		32	13.4	21/20		0.0666	0.12	0.136	0.010	0.198		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.334		
	-1 Level	H1	PIPE	Fusio		32	7.4	21/20		0.0666	0.12	0.076	0.010	0.337		
	-1 Level	H1	BEND-50	Fusio		32		21/20		0.0666	0.12	0.002		0.413		
	-1 Level	H1	PIPE	Fusio		32	3.9	21/20		0.0666	0.12	0.039	0.010	0.415		
	-1 Level	H1	BEND-40	Fusio		32		21/20		0.0666	0.12	0.002		0.455		
	-1 Level	H1	PIPE	Fusio		32	2.0	21/20		0.0666	0.12	0.020	0.010	0.456		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.477		
	-1 Level	H1	PIPE	Fusio		32	2.4	21/20		0.0666	0.12	0.024	0.010	0.480		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0666	0.12	0.004		0.504		
	-1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0666	0.12	0.002	0.010	0.508		
	-1 Level	H1	OTHER PIPE						8000	0.0666				0.510		
	1 Level	C1	CONN.NODE			50				0.6847	0.52			0.000		
	1 Level	C1	PIPE	Fusio		50	2.1	21/20		0.6847	0.52	0.198	0.092	0.000		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		0.198		
	1 Level	C1	PIPE	Fusio		50	0.8	21/20		0.6847	0.52	0.077	0.092	0.263		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		0.341		
	1 Level	C1	PIPE	Fusio		50	5.2	21/20		0.6847	0.52	0.479	0.092	0.406		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		0.885		
	1 Level	C1	PIPE	Fusio		50	2.8	21/20		0.6847	0.52	0.257	0.092	0.951		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		1.208		
	1 Level	C1	PIPE	Fusio		50	2.4	21/20		0.6847	0.52	0.221	0.092	1.274		
	1 Level	C1	CONN.NODE			50				0.6847	0.52			1.495		
	-1 Level	C1	CONN.NODE			50				0.6847	0.52			1.495		
	-1 Level	C1	PIPE	Fusio		50	1.1	21/20		0.6847	0.52	0.097	0.092	1.495		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		1.591		
	-1 Level	C1	PIPE	Fusio		50	1.2	21/20		0.6847	0.52	0.109	0.092	1.657		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		1.765		
	-1 Level	C1	PIPE	Fusio		50	12.8	21/20		0.6847	0.52	1.179	0.092	1.831		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		3.009		
	-1 Level	C1	PIPE	Fusio		50	6.9	21/20		0.6847	0.52	0.633	0.092	3.075		
	-1 Level	C1	BEND-50	Fusio		50		21/20		0.6847	0.52	0.036		3.708		
	-1 Level	C1	PIPE	Fusio		50	3.6	21/20		0.6847	0.52	0.332	0.092	3.744		
	-1 Level	C1	BEND-40	Fusio		50		21/20		0.6847	0.52	0.029		4.077		
	-1 Level	C1	PIPE	Fusio		50	1.9	21/20		0.6847	0.52	0.179	0.092	4.106		

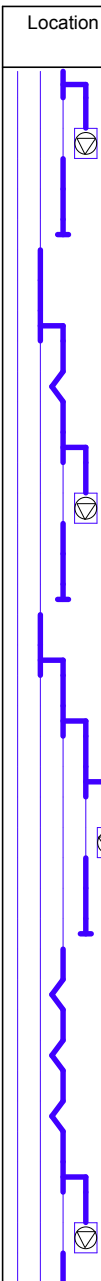
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		4.285		
	-1 Level	C1	PIPE	Fusio		50	2.4	21/20		0.6847	0.52	0.216	0.092	4.350		
	-1 Level	C1	BEND-90	Fusio		50		21/20		0.6847	0.52	0.065		4.566		
	-1 Level	C1	PIPE	Fusio		50	0.2	21/20		0.6847	0.52	0.020	0.092	4.632		
	-1 Level	C1	OTHER PIPE						14000	0.6847				4.652		
	1 Level	C1	ROOT NODE							10.7792				-0.010		
	1 Level	C1	PIPE	Fe-35		125	1.1	21/40		10.7792	0.80	0.054	0.050	-0.010		
	1 Level	C1	BRANCH	Fe-35		125/125		21/40		10.7792	0.80	0.323		0.044		Error: Balancing can
	1 Level	C1	REDUCER	Fe-35		125/80				3.2279	0.24	0.066		0.360		
	1 Level	C1	PIPE	Fe-35		80	0.9	21/30		3.2279	0.60	0.050	0.052	0.426		
	1 Level	C1	REDUCER	Fusio		90/80				3.2279	0.60	0.012		0.475		
	1 Level	C1	BEND-90	Fusio		90		21/30		3.2279	0.76	0.137		0.487		
	1 Level	C1	PIPE	Fusio		90	5.5	21/30		3.2279	0.76	0.472	0.086	0.625		
	1 Level	C1	BRANCH	Fusio		90/75		21/30		3.2279	0.76	0.101		1.096		Error: Balancing can
	1 Level	C1	PIPE	Fusio		75	0.5	21/30		1.7607	0.60	0.034	0.070	1.195		
	1 Level	C1	BRANCH	Fusio		75/50		21/30		1.7607	0.60			1.229		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	0.9	21/20		0.4402	0.34	0.037	0.043	1.227		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		1.264		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	1.291		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		1.296		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	1.352		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51648.100		51651.132		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		75/63				1.3205	0.45	0.018		1.229		
	1 Level	C1	PIPE	Fusio		63	6.5	21/30		1.3205	0.64	0.638	0.097	1.247		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.010		1.885		
	1 Level	C1	PIPE	Fusio		50	0.9	21/20		0.4402	0.34	0.038	0.043	1.894		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		1.932		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	1.959		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		1.964		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	2.020		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51646.748		51650.448		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		63	7.4	21/30		0.8803	0.42	0.351	0.048	1.885		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.026		2.236		Error: Balancing can

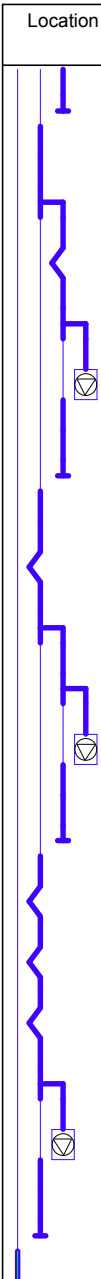
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	PIPE	Fusio		50	0.9	21/20		0.4402	0.34	0.038	0.043	2.258		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		2.296		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	2.323		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		2.328		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	2.384		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51646.144		51650.208		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.008		2.236		
	1 Level	C1	PIPE	Fusio		50	6.7	21/20		0.4402	0.34	0.284	0.043	2.243		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		2.528		
	1 Level	C1	PIPE	Fusio		50	0.9	21/20		0.4402	0.34	0.037	0.043	2.555		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		2.592		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	2.619		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		2.624		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	2.680		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51645.620		51649.980		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		90/75				1.4672	0.34	0.012		1.096		
	1 Level	C1	PIPE	Fusio		75	0.7	21/30		1.4672	0.50	0.035	0.051	1.108		
	1 Level	C1	BRANCH	Fusio		75/32		21/30		1.4672	0.50			1.143		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	6.4	21/20		0.1956	0.36	0.544	0.085	1.145		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.019		1.688		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.004	0.026	1.709		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		1.713		
	1 Level	C1	PIPE	Fusio		20	0.8	21/20		0.0978	0.60	0.331	0.439	1.729		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.576		51652.636		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.140	0.026	1.688		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		1.828		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	1.836		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		1.868		
	1 Level	C1	PIPE	Fusio		32	1.9	21/20		0.0978	0.18	0.050	0.026	1.876		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		1.926		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.003	0.026	1.933		

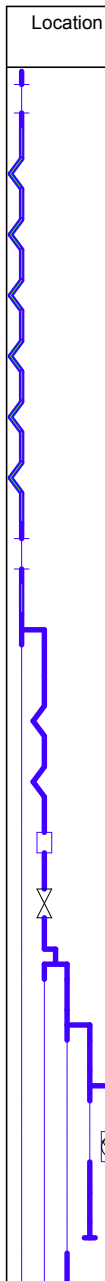
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		1.937		
	1 Level	C1	PIPE	Fusio		20	0.8	21/20		0.0978	0.60	0.331	0.439	1.953		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.172		51652.456		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		75/63				1.2716	0.43	0.016		1.143		
	1 Level	C1	PIPE	Fusio		63	1.6	21/30		1.2716	0.61	0.142	0.091	1.160		
	1 Level	C1	BRANCH	Fusio		63/50		21/30		1.2716	0.61	0.012		1.302		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	1.3	21/20		0.4402	0.34	0.053	0.043	1.311		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		1.364		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	1.391		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		1.396		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	1.452		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51648.072		51651.204		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		63	2.4	21/30		0.8314	0.40	0.104	0.043	1.302		
	1 Level	C1	BRANCH	Fusio		63/32		21/30		0.8314	0.40			1.405		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	6.4	21/20		0.1956	0.36	0.544	0.085	1.401		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.019		1.945		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.004	0.026	1.962		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		1.966		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.122	0.439	1.982		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.544		51652.648		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.140	0.026	1.945		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.085		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	2.093		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.125		
	1 Level	C1	PIPE	Fusio		32	1.9	21/20		0.0978	0.18	0.050	0.026	2.133		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.183		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.003	0.026	2.190		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		2.194		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.122	0.439	2.210		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51650.140		51652.472		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										

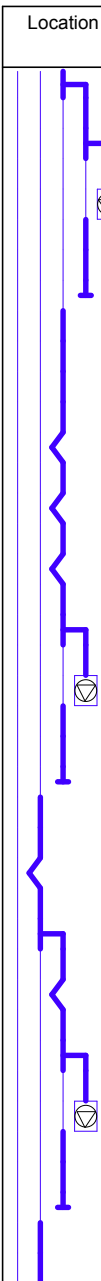
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		63/50				0.6358	0.31	0.016		1.405		
	1 Level	C1	PIPE	Fusio		50	2.7	21/20		0.6358	0.49	0.216	0.081	1.421		
	1 Level	C1	BRANCH	Fusio		50/50		21/20		0.6358	0.49	0.066		1.638		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	1.3	21/20		0.4402	0.34	0.054	0.043	1.702		
	1 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		1.756		
	1 Level	C1	PIPE	Fusio		50	0.1	21/20		0.4402	0.34	0.005	0.043	1.783		
	1 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		1.788		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	1.680	6.260	1.844		
	1 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		51647.420		51650.944		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		50/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/32				0.1956	0.15	0.023		1.638		
	1 Level	C1	PIPE	Fusio		32	2.0	21/20		0.1956	0.36	0.169	0.085	1.660		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1956	0.36	0.031		1.829		
	1 Level	C1	PIPE	Fusio		32	6.4	21/20		0.1956	0.36	0.545	0.085	1.861		
	1 Level	C1	BRANCH	Fusio		32/32		21/20		0.1956	0.36	0.019		2.405		Error: Balancing can
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.004	0.026	2.422		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		2.426		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.122	0.439	2.442		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51649.716		51652.280		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		32	5.4	21/20		0.0978	0.18	0.140	0.026	2.405		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.545		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.0978	0.18	0.032	0.026	2.553		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.585		
	1 Level	C1	PIPE	Fusio		32	1.9	21/20		0.0978	0.18	0.050	0.026	2.593		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		2.643		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.003	0.026	2.650		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		2.654		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.122	0.439	2.670		
	1 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		51649.312		51652.104		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fe-35		125	3.1	21/40		7.5513	0.56	0.080	0.026	0.366		

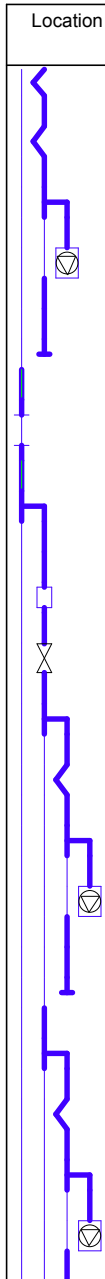
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	CONN.NODE			125				7.5513	0.56			0.446		
	-1 Level	C1	CONN.NODE			125				7.5513	0.56			0.446		
	-1 Level	C1	PIPE	Fe-35		125	0.2	21/40		7.5513	0.56	0.006	0.026	0.446		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		0.453		
	-1 Level	C1	PIPE	Fe-35		125	14.0	21/40		7.5513	0.56	0.366	0.026	0.522		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		0.889		
	-1 Level	C1	PIPE	Fe-35		125	4.7	21/40		7.5513	0.56	0.122	0.026	0.958		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		1.080		
	-1 Level	C1	PIPE	Fe-35		125	5.3	21/40		7.5513	0.56	0.140	0.026	1.150		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		1.290		
	-1 Level	C1	PIPE	Fe-35		125	4.8	21/40		7.5513	0.56	0.127	0.026	1.360		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		1.486		
	-1 Level	C1	PIPE	Fe-35		125	1.0	21/40		7.5513	0.56	0.026	0.026	1.556		
	-1 Level	C1	BEND-90	Fe-35		125		21/40		7.5513	0.56	0.070		1.582		
	-1 Level	C1	PIPE	Fe-35		125	0.8	21/40		7.5513	0.56	0.021	0.026	1.652		
	-1 Level	C1	CONN.NODE			125				7.5513	0.56			1.672		
	1 Level	C1	CONN.NODE			125				7.5513	0.56			1.672		
	1 Level	C1	PIPE	Fe-35		125	3.0	21/40		7.5513	0.56	0.079	0.026	1.672		
	1 Level	C1	BRANCH	Fe-35		125/63		21/40		7.5513	0.56			1.751		Error: Balancing can
	1 Level	C1	REDUCER	Fe-35		63				0.9292	0.45			1.749		
	1 Level	C1	PIPE	Fusio		63	0.1	21/30		0.9292	0.45	0.006	0.052	1.749		
	1 Level	C1	BEND-40	Fusio		63		21/30		0.9292	0.45	0.021		1.756		
	1 Level	C1	PIPE	Fusio		63	0.8	21/30		0.9292	0.45	0.042	0.052	1.777		
	1 Level	C1	BEND-40	Fusio		63		21/30		0.9292	0.45	0.021		1.819		
	1 Level	C1	PIPE	Fusio		63	0.4	21/30		0.9292	0.45	0.021	0.052	1.840		
	1 Level	C1	OTHER PIPE		BA 1500-65	65				0.9292		4372.276		1.861		High dp
	1 Level	C1	PIPE	Fusio		63	0.1	21/30		0.9292	0.45	0.007	0.052	4374.138		
	1 Level	C1	STOPVALVE		AT3600-65	65				0.9292				4374.145		
	1 Level	C1	PIPE	Fusio		63	1.0	21/30		0.9292	0.45	0.050	0.052	4374.145		
	1 Level	C1	BRANCH	Fusio		50/63		21/20		0.9292	0.45	0.100		4374.195		Error: Balancing can
	1 Level	C1	PIPE	Fusio		50	0.5	21/20		0.5869	0.45	0.037	0.070	4374.296		
	1 Level	C1	BRANCH	Fusio		50/32		21/20		0.5869	0.45			4374.333		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1712	0.32	0.009	0.068	4374.333		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		4374.342		
	1 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1712	1.05	0.439	1.162	4374.392		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47238.156		51612.988		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fusio		50	2.8	21/20		0.4157	0.32	0.108	0.039	4374.333		

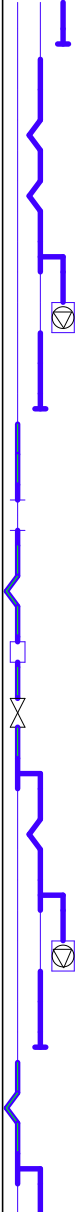
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BRANCH	Fusio		50/32		21/20		0.4157	0.32	0.008		4374.441		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1712	0.32	0.009	0.068	4374.450		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		4374.459		
	1 Level	C1	PIPE	Fusio		20	0.7	21/20		0.1712	1.05	0.794	1.162	4374.510		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47237.272		51612.576		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/40				0.2445	0.19	0.006		4374.441		
	1 Level	C1	PIPE	Fusio		40	1.0	21/20		0.2445	0.29	0.046	0.044	4374.447		
	1 Level	C1	JOINT	Fusio		40		21/20		0.2445	0.29			4374.493		
	1 Level	C1	PIPE	Fusio		40	3.1	21/20		0.2445	0.29	0.138	0.044	4374.493		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4374.632		
	1 Level	C1	PIPE	Fusio		40	9.1	21/20		0.2445	0.29	0.405	0.044	4374.652		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4375.056		
	1 Level	C1	PIPE	Fusio		40	1.3	21/20		0.2445	0.29	0.057	0.044	4375.077		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		4375.134		
	1 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2445	0.29	0.005	0.044	4375.154		
	1 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		4375.160		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.597	2.185	4375.203		
	1 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		47236.320		51612.120		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		40/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		50/40				0.3424	0.26	0.011		4374.299		
	1 Level	C1	PIPE	Fusio		40	0.4	21/20		0.3424	0.41	0.034	0.080	4374.310		
	1 Level	C1	BEND-90	Fusio		40		21/20		0.3424	0.41	0.040		4374.344		
	1 Level	C1	PIPE	Fusio		40	6.2	21/20		0.3424	0.41	0.497	0.080	4374.384		
	1 Level	C1	BRANCH	Fusio		40/32		21/20		0.3424	0.41	0.024		4374.881		
	1 Level	C1	PIPE	Fusio		32	1.6	21/20		0.1712	0.32	0.108	0.068	4374.906		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		4375.015		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1712	0.32	0.009	0.068	4375.038		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		4375.047		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.322	1.162	4375.098		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47237.148		51612.568		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	REDUCER	Fusio		40/32				0.1712	0.21	0.006		4374.881		
	1 Level	C1	PIPE	Fusio		32	6.1	21/20		0.1712	0.32	0.413	0.068	4374.887		

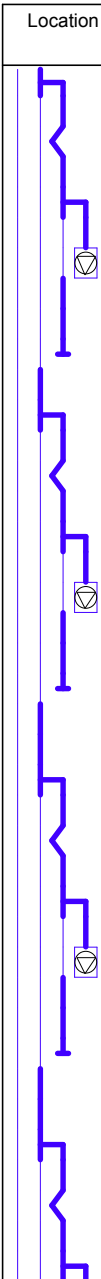
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		4375.301		
	1 Level	C1	PIPE	Fusio		32	1.2	21/20		0.1712	0.32	0.078	0.068	4375.324		
	1 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		4375.403		
	1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1712	0.32	0.009	0.068	4375.427		
	1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		4375.436		
	1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.322	1.162	4375.486		
	1 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		47236.428		51612.236		Out of dp-range,High
	1 Level	C1	REDUCER	Fusio		32/20										
	1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	C1	PIPE	Fe-35		125	1.6	21/40		6.6221	0.49	0.032	0.021	1.751		
	1 Level	C1	CONN.NODE			125				6.6221	0.49			1.783		
	2 Level	C1	CONN.NODE			125				6.6221	0.49			1.783		
	2 Level	C1	PIPE	Fe-35		125	2.6	21/40		6.6221	0.49	0.053	0.021	1.783		
	2 Level	C1	BRANCH	Fe-35		125/50		21/40		6.6221	0.49			1.836		
	2 Level	C1	REDUCER	Fe-35		50/50				0.6358	0.27	0.023		1.836		
	2 Level	C1	PIPE	Fusio		50	0.5	21/20		0.6358	0.49	0.038	0.081	1.859		
	2 Level	C1	OTHER PIPE		BA 1500-50	50				0.6358		5238.063		1.898		High dp
	2 Level	C1	PIPE	Fusio		50	0.1	21/20		0.6358	0.49	0.012	0.081	5239.961		
	2 Level	C1	STOPVALVE		AT3600-50	50				0.6358				5239.972		
	2 Level	C1	PIPE	Fusio		50	2.4	21/20		0.6358	0.49	0.197	0.081	5239.972		
	2 Level	C1	BRANCH	Fusio		50/40		21/20		0.6358	0.49	0.008		5240.169		
	2 Level	C1	PIPE	Fusio		40	1.3	21/20		0.2201	0.26	0.048	0.037	5240.177		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2201	0.26	0.017		5240.226		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2201	0.26	0.005	0.037	5240.242		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2201	0.26	0.035		5240.247		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2201	1.35	0.495	1.812	5240.281		
	2 Level	C1	FANCOIL		SK-ECM 14	12			4500	0.2201		46392.852		51633.628		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		50	5.7	21/20		0.4157	0.32	0.219	0.039	5240.169		
	2 Level	C1	BRANCH	Fusio		50/32		21/20		0.4157	0.32	0.008		5240.389		Error: Balancing can
	2 Level	C1	PIPE	Fusio		32	1.3	21/20		0.1712	0.32	0.088	0.068	5240.399		
	2 Level	C1	BEND-90	Fusio		32		21/20		0.1712	0.32	0.024		5240.487		
	2 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1712	0.32	0.009	0.068	5240.511		
	2 Level	C1	BRANCH	Fusio		32/20		21/20		0.1712	0.32	0.050		5240.520		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1712	1.05	0.322	1.162	5240.570		
	2 Level	C1	FANCOIL		SK-ECM 14	12			3500	0.1712		46392.744		51633.636		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		32/20										

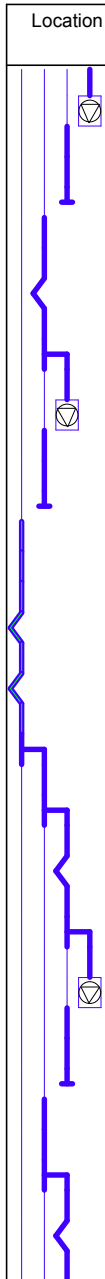
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		50/40				0.2445	0.19	0.006		5240.389		
	2 Level	C1	PIPE	Fusio		40	4.7	21/20		0.2445	0.29	0.211	0.044	5240.394		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		5240.605		
	2 Level	C1	PIPE	Fusio		40	1.3	21/20		0.2445	0.29	0.057	0.044	5240.625		
	2 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		5240.682		
	2 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2445	0.29	0.005	0.044	5240.703		
	2 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		5240.708		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.2445	1.50	0.597	2.185	5240.751		
	2 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		46391.792		51633.140		Out of dp-range,High
	2 Level	C1	REDUCER	Fusio		40/20										
	2 Level	C1	PIPE	Fusio		20	0.2	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fe-35		125/110				5.9863	0.45	0.122		1.836		
	2 Level	C1	PIPE	Fusio		110	0.6	21/40		5.9863	0.94	0.055	0.098	1.958		
	2 Level	C1	CONN.NODE			110				5.9863	0.94			2.013		
	3 Level	C1	CONN.NODE			110				5.9863	0.94			2.013		
	3 Level	C1	PIPE	Fusio		110	2.8	21/40		5.9863	0.94	0.274	0.098	2.013		
	3 Level	C1	BEND-90	Fusio		110		21/40		5.9863	0.94	0.211		2.287		
	3 Level	C1	PIPE	Fusio		110	0.3	21/40		5.9863	0.94	0.033	0.098	2.499		
	3 Level	C1	OTHER PIPE		BA 1500-100	100				5.9863		51607.008		2.532		High dp
	3 Level	C1	PIPE	Fusio		110	0.1	21/40		5.9863	0.94	0.007	0.098	51609.540		
	3 Level	C1	STOPVALVE		AT3600-100	100				5.9863				51609.548		
	3 Level	C1	PIPE	Fusio		110	0.5	21/40		5.9863	0.94	0.053	0.098	51609.548		
	3 Level	C1	BRANCH	Fusio		110/32		21/40		5.9863	0.94			51609.600		
	3 Level	C1	PIPE	Fusio		32	1.0	21/20		0.1467	0.27	0.051	0.052	51609.600		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51609.652		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	51609.668		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51609.676		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.247	0.890	51609.712		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		26.224		51636.184		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	0.7	21/40		5.8395	0.92	0.063	0.094	51609.600		
	3 Level	C1	BEND-90	Fusio		110		21/40		5.8395	0.92	0.201		51609.664		
	3 Level	C1	PIPE	Fusio		110	1.2	21/40		5.8395	0.92	0.115	0.094	51609.864		
	3 Level	C1	BRANCH	Fusio		110/63		21/40		5.8395	0.92			51609.980		
	3 Level	C1	PIPE	Fusio		63	2.5	21/30		0.8803	0.42	0.121	0.048	51609.980		

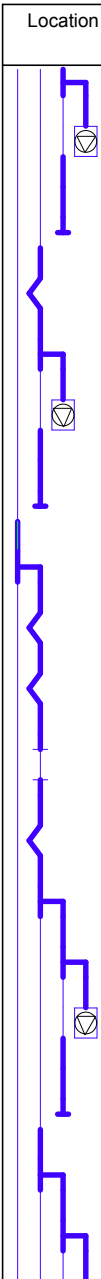
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	BRANCH	Fusio		63/32		21/30		0.8803	0.42			51610.100		
	3 Level	C1	PIPE	Fusio		32	2.0	21/20		0.1467	0.27	0.105	0.052	51610.100		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51610.204		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	51610.220		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51610.228		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.247	0.890	51610.264		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.984		51635.496		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		63	3.5	21/30		0.7336	0.35	0.122	0.035	51610.100		
	3 Level	C1	BRANCH	Fusio		63/40		21/30		0.7336	0.35	0.003		51610.224		
	3 Level	C1	PIPE	Fusio		40	2.0	21/20		0.2445	0.29	0.089	0.044	51610.228		
	3 Level	C1	BEND-90	Fusio		40		21/20		0.2445	0.29	0.020		51610.316		
	3 Level	C1	PIPE	Fusio		40	0.1	21/20		0.2445	0.29	0.005	0.044	51610.336		
	3 Level	C1	BRANCH	Fusio		40/20		21/20		0.2445	0.29	0.043		51610.340		
	3 Level	C1	PIPE	Fusio		20	0.5	21/20		0.2445	1.50	1.054	2.185	51610.384		
	3 Level	C1	FANCOIL		SK-ECM 14	12			5000	0.2445		23.076		51634.516		Out of dp-range
	3 Level	C1	REDUCER	Fusio		40/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		63/50				0.4891	0.24	0.010		51610.224		
	3 Level	C1	PIPE	Fusio		50	0.5	21/20		0.4891	0.37	0.025	0.051	51610.232		
	3 Level	C1	BRANCH	Fusio		50/32		21/20		0.4891	0.37	0.010		51610.256		
	3 Level	C1	PIPE	Fusio		32	3.7	21/20		0.1956	0.36	0.314	0.085	51610.264		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1956	0.36	0.031		51610.580		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1956	0.36	0.011	0.085	51610.612		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1956	0.36	0.066		51610.624		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1956	1.20	0.408	1.471	51610.688		
	3 Level	C1	FANCOIL		SK-ECM 14	12			4000	0.1956		23.824		51634.920		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		50/40				0.2934	0.22	0.008		51610.256		
	3 Level	C1	PIPE	Fusio		40	3.2	21/20		0.2934	0.35	0.198	0.061	51610.264		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.018		51610.464		
	3 Level	C1	PIPE	Fusio		32	2.0	21/20		0.1467	0.27	0.105	0.052	51610.480		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51610.584		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	51610.600		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51610.608		

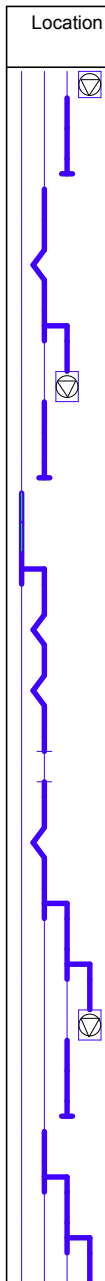
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.247	0.890	51610.644		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.264		51635.156		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.005		51610.464		
	3 Level	C1	PIPE	Fusio		32	3.2	21/20		0.1467	0.27	0.164	0.052	51610.468		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		51610.632		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	51610.648		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		51610.656		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.284	0.890	51610.692		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		24.112		51635.088		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	3.6	21/40		4.9592	0.78	0.255	0.070	51609.980		
	3 Level	C1	JOINT	Fusio		110		21/40		4.9592	0.78			51610.236		
	3 Level	C1	PIPE	Fusio		110	0.3	21/40		4.9592	0.78	0.024	0.070	51610.236		
	3 Level	C1	BEND-90	Fusio		110		21/40		4.9592	0.78	0.145		51610.260		
	3 Level	C1	PIPE	Fusio		110	0.2	21/40		4.9592	0.78	0.013	0.070	51610.404		
	3 Level	C1	BEND-90	Fusio		110		21/40		4.9592	0.78	0.145		51610.416		
	3 Level	C1	PIPE	Fusio		110	8.3	21/40		4.9592	0.78	0.584	0.070	51610.560		
	3 Level	C1	BRANCH	Fusio		110/40		21/40		4.9592	0.78			51611.144		Error: Balancing can
	3 Level	C1	PIPE	Fusio		40	3.0	21/20		0.2739	0.33	0.162	0.054	51611.144		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.2739	0.33	0.004		51611.308		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	1.6	21/20		0.0978	0.18	0.041	0.026	51611.312		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51611.352		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.003	0.026	51611.360		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51611.364		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.147	0.439	51611.380		
	3 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		23.124		51634.652		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1761	0.21	0.007		51611.304		
	3 Level	C1	PIPE	Fusio		32	4.2	21/20		0.1761	0.33	0.300	0.071	51611.312		
	3 Level	C1	BRANCH	Fusio		32/32		21/20		0.1761	0.33	0.019		51611.612		
	3 Level	C1	PIPE	Fusio		32	1.6	21/20		0.0978	0.18	0.041	0.026	51611.632		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0978	0.18	0.008		51611.672		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0978	0.18	0.003	0.026	51611.680		

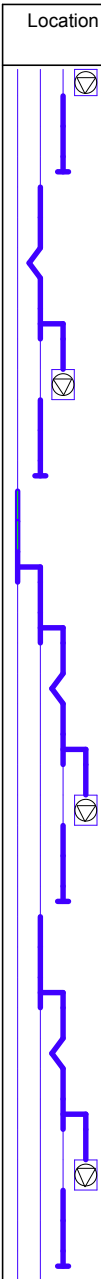
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0978	0.18	0.016		51611.684		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0978	0.60	0.147	0.439	51611.700		
	3 Level	C1	FANCOIL		SK-ECM 14	12			2000	0.0978		22.496		51634.344		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		32	3.1	21/20		0.0783	0.15	0.055	0.018	51611.612		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.0783	0.15	0.005		51611.668		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.0783	0.15	0.002	0.018	51611.672		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.0783	0.15	0.011		51611.676		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0783	0.48	0.100	0.298	51611.688		
	3 Level	C1	FANCOIL		SK-ECM 14	12			1600	0.0783		22.680		51634.468		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	PIPE	Fusio		110	2.5	21/40		4.6853	0.74	0.161	0.064	51611.148		
	3 Level	C1	BRANCH	Fusio		110/63		21/40		4.6853	0.74			51611.308		
	3 Level	C1	PIPE	Fusio		63	0.5	21/30		1.3205	0.64	0.046	0.097	51611.308		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51611.352		
	3 Level	C1	PIPE	Fusio		63	2.3	21/30		1.3205	0.64	0.228	0.097	51611.448		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51611.676		
	3 Level	C1	PIPE	Fusio		63	2.0	21/30		1.3205	0.64	0.198	0.097	51611.772		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51611.972		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51611.972		
	2 Level	C1	PIPE	Fusio		63	2.7	21/30		1.3205	0.64	0.267	0.097	51611.972		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51612.240		
	2 Level	C1	PIPE	Fusio		63	3.6	21/30		1.3205	0.64	0.346	0.097	51612.336		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.010		51612.684		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51612.692		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51612.720		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51612.776		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		15.640		51630.468		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.6	21/30		0.8803	0.42	0.219	0.048	51612.684		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.026		51612.904		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51612.928		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51612.956		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51613.012		

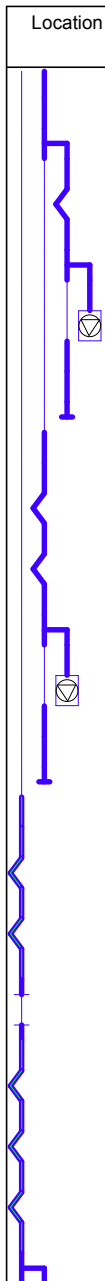
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		15.300		51630.364		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.008		51612.904		
	2 Level	C1	PIPE	Fusio		50	5.1	21/20		0.4402	0.34	0.219	0.043	51612.912		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51613.132		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51613.160		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51613.184		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51613.240		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.908		51630.200		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		110/90				3.3648	0.53	0.034		51611.308		
	3 Level	C1	PIPE	Fusio		90	5.7	21/30		3.3648	0.79	0.527	0.092	51611.344		
	3 Level	C1	BRANCH	Fusio		90/63		21/30		3.3648	0.79	0.041		51611.872		Error: Balancing can
	3 Level	C1	PIPE	Fusio		63	0.2	21/30		1.3205	0.64	0.018	0.097	51611.916		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51611.932		
	3 Level	C1	PIPE	Fusio		63	2.5	21/30		1.3205	0.64	0.239	0.097	51612.028		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51612.268		
	3 Level	C1	PIPE	Fusio		63	2.3	21/30		1.3205	0.64	0.228	0.097	51612.364		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51612.592		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51612.592		
	2 Level	C1	PIPE	Fusio		63	2.2	21/30		1.3205	0.64	0.218	0.097	51612.592		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51612.808		
	2 Level	C1	PIPE	Fusio		63	2.9	21/30		1.3205	0.64	0.286	0.097	51612.904		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.010		51613.192		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51613.200		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51613.228		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51613.284		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.640		51629.976		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.0	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.9	21/30		0.8803	0.42	0.232	0.048	51613.192		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.026		51613.424		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51613.448		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51613.476		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51613.532		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		14.276		51629.860		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.0	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.008		51613.424		
	2 Level	C1	PIPE	Fusio		50	4.8	21/20		0.4402	0.34	0.206	0.043	51613.432		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51613.636		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51613.664		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51613.688		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51613.744		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		13.908		51629.704		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.0	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		90/75				2.0443	0.48	0.023		51611.872		
	3 Level	C1	PIPE	Fusio		75	0.8	21/30		2.0443	0.69	0.071	0.092	51611.896		
	3 Level	C1	BRANCH	Fusio		75/63		21/30		2.0443	0.69	0.019		51611.968		
	3 Level	C1	PIPE	Fusio		63	2.4	21/30		0.7238	0.35	0.082	0.034	51611.988		
	3 Level	C1	BRANCH	Fusio		63/32		21/30		0.7238	0.35			51612.068		Error: Balancing can
	3 Level	C1	PIPE	Fusio		32	6.7	21/20		0.1810	0.34	0.499	0.074	51612.068		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51612.568		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1810	0.34	0.010	0.074	51612.596		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51612.604		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1810	1.11	0.391	1.282	51612.660		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		20.072		51633.124		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		63/50				0.5429	0.26	0.012		51612.064		
	3 Level	C1	PIPE	Fusio		50	1.2	21/20		0.5429	0.42	0.071	0.061	51612.076		
	3 Level	C1	BRANCH	Fusio		50/32		21/20		0.5429	0.42	0.004		51612.148		
	3 Level	C1	PIPE	Fusio		32	4.0	21/20		0.1810	0.34	0.298	0.074	51612.152		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51612.448		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1810	0.34	0.010	0.074	51612.476		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51612.484		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1810	1.11	0.418	1.282	51612.540		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		20.168		51633.128		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								

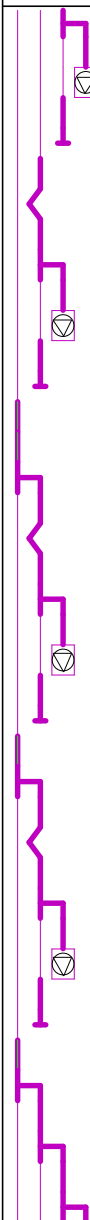
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	C1	REDUCER	Fusio		50/40				0.3619	0.28	0.012		51612.148		
	3 Level	C1	PIPE	Fusio		40	5.0	21/20		0.3619	0.43	0.438	0.088	51612.160		
	3 Level	C1	BRANCH	Fusio		40/32		21/20		0.3619	0.43	0.027		51612.600		
	3 Level	C1	PIPE	Fusio		32	6.7	21/20		0.1810	0.34	0.499	0.074	51612.628		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51613.128		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1810	0.34	0.010	0.074	51613.156		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51613.164		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1810	1.11	0.413	1.282	51613.220		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		18.904		51632.536		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		40/32				0.1810	0.22	0.007		51612.600		
	3 Level	C1	PIPE	Fusio		32	0.8	21/20		0.1810	0.34	0.059	0.074	51612.608		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51612.668		
	3 Level	C1	PIPE	Fusio		32	4.0	21/20		0.1810	0.34	0.297	0.074	51612.696		
	3 Level	C1	BEND-90	Fusio		32		21/20		0.1810	0.34	0.027		51612.992		
	3 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1810	0.34	0.010	0.074	51613.020		
	3 Level	C1	BRANCH	Fusio		32/20		21/20		0.1810	0.34	0.056		51613.028		
	3 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1810	1.11	0.429	1.282	51613.084		
	3 Level	C1	FANCOIL		SK-ECM 14	12			3700	0.1810		19.136		51632.648		Out of dp-range
	3 Level	C1	REDUCER	Fusio		32/20										
	3 Level	C1	PIPE	Fusio		20	0.2	21/20								
	3 Level	C1	PLUG	Fusio		20		21/20								
	3 Level	C1	REDUCER	Fusio		75/63				1.3205	0.45	0.018		51611.968		
	3 Level	C1	PIPE	Fusio		63	8.3	21/30		1.3205	0.64	0.804	0.097	51611.984		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51612.788		
	3 Level	C1	PIPE	Fusio		63	2.9	21/30		1.3205	0.64	0.279	0.097	51612.884		
	3 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51613.164		
	3 Level	C1	PIPE	Fusio		63	2.6	21/30		1.3205	0.64	0.257	0.097	51613.260		
	3 Level	C1	CONN.NODE			63				1.3205	0.64			51613.516		
	2 Level	C1	CONN.NODE			63				1.3205	0.64			51613.516		
	2 Level	C1	PIPE	Fusio		63	1.3	21/30		1.3205	0.64	0.125	0.097	51613.516		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51613.640		
	2 Level	C1	PIPE	Fusio		63	0.3	21/30		1.3205	0.64	0.031	0.097	51613.736		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51613.768		
	2 Level	C1	PIPE	Fusio		63	1.1	21/30		1.3205	0.64	0.110	0.097	51613.864		
	2 Level	C1	BEND-90	Fusio		63		21/30		1.3205	0.64	0.097		51613.972		
	2 Level	C1	PIPE	Fusio		63	3.6	21/30		1.3205	0.64	0.354	0.097	51614.068		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		1.3205	0.64	0.010		51614.420		

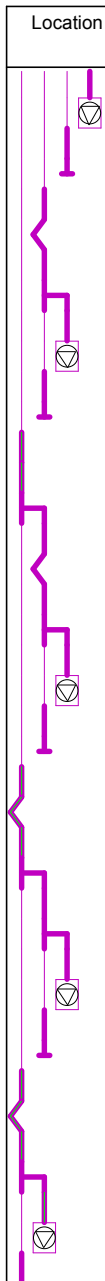
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51614.428		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51614.456		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51614.512		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		12.360		51628.924		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	PIPE	Fusio		63	4.6	21/30		0.8803	0.42	0.219	0.048	51614.420		
	2 Level	C1	BRANCH	Fusio		63/50		21/30		0.8803	0.42	0.026		51614.640		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51614.664		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51614.692		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51614.748		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		12.016		51628.816		Out of dp-range
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	2 Level	C1	REDUCER	Fusio		63/50				0.4402	0.21	0.008		51614.640		
	2 Level	C1	PIPE	Fusio		50	5.1	21/20		0.4402	0.34	0.219	0.043	51614.648		
	2 Level	C1	BEND-90	Fusio		50		21/20		0.4402	0.34	0.027		51614.868		
	2 Level	C1	PIPE	Fusio		50	0.6	21/20		0.4402	0.34	0.026	0.043	51614.896		
	2 Level	C1	BRANCH	Fusio		50/20		21/20		0.4402	0.34	0.057		51614.920		
	2 Level	C1	PIPE	Fusio		20	0.3	21/20		0.4402	2.70	2.051	6.260	51614.976		
	2 Level	C1	FANCOIL		SK-ECM 14	12			9000	0.4402		11.624		51628.652		
	2 Level	C1	REDUCER	Fusio		50/20										
	2 Level	C1	PIPE	Fusio		20	0.1	21/20								
	2 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	ROOT NODE							0.0750				-0.000		
	1 Level	H1	PIPE	Fusio		32	1.6	21/20		0.0750	0.14	0.020	0.012	-0.000		
	1 Level	H1	BEND-90	Fusio		32		21/20		0.0750	0.14	0.005		0.020		
	1 Level	H1	PIPE	Fusio		32	4.3	21/20		0.0750	0.14	0.054	0.012	0.025		
	1 Level	H1	CONN.NODE			32				0.0750	0.14			0.079		
	-1 Level	H1	CONN.NODE			32				0.0750	0.14			0.079		
	-1 Level	H1	PIPE	Fusio		32	0.4	21/20		0.0750	0.14	0.005	0.012	0.079		
	-1 Level	H1	BEND-90	Fusio		32		21/20		0.0750	0.14	0.005		0.084		
	-1 Level	H1	PIPE	Fusio		32	3.7	21/20		0.0750	0.14	0.046	0.012	0.089		
	-1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0750	0.14			0.135		
	-1 Level	H1	PIPE	Fusio		20	5.6	21/20		0.0167	0.10	0.090	0.016	0.135		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.001		0.225		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.226		

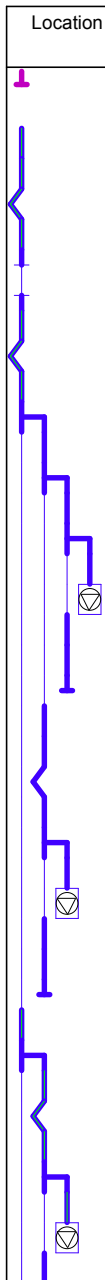
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.227		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.228		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		1.074		1.303		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	0.225		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.257		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.257		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.258		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.259		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		1.016		1.276		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.007		0.135		
	-1 Level	H1	PIPE	Fusio		25	0.9	21/20		0.0583	0.23	0.045	0.048	0.142		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23			0.187		
	-1 Level	H1	PIPE	Fusio		20	17.8	21/20		0.0083	0.05	0.072	0.004	0.187		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.259		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.259		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.260		
	-1 Level	H1	PIPE	Fusio		20	1.0	21/20		0.0083	0.05	0.004	0.004	0.261		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.993		1.258		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		25	2.2	21/20		0.0500	0.20	0.080	0.037	0.187		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20			0.266		
	-1 Level	H1	PIPE	Fusio		20	1.2	21/20		0.0083	0.05	0.005	0.004	0.266		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.271		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.272		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.272		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.274		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.981		1.255		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		25	2.0	21/20		0.0416	0.16	0.053	0.027	0.266		
	-1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.002		0.319		
	-1 Level	H1	PIPE	Fusio		20	5.6	21/20		0.0167	0.10	0.090	0.016	0.321		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.001		0.411		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.413		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.413		

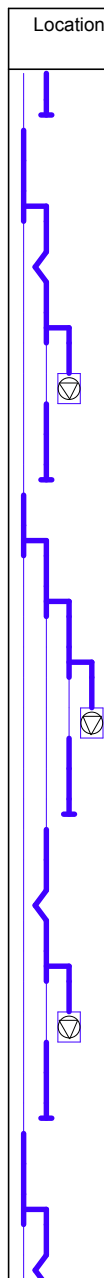
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.415		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.702		1.117		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	0.411		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.443		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.443		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.444		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.445		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.644		1.090		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		0.319		
	-1 Level	H1	PIPE	Fusio		20	3.0	21/20		0.0250	0.15	0.096	0.032	0.321		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.001		0.417		
	-1 Level	H1	PIPE	Fusio		20	2.0	21/20		0.0083	0.05	0.008	0.004	0.417		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.425		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.426		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.426		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.428		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.688		1.116		Out of dp-range
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	0.7	21/20		0.0167	0.10	0.011	0.016	0.417		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.428		
	-1 Level	H1	PIPE	Fusio		20	5.6	21/20		0.0167	0.10	0.090	0.016	0.430		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.001		0.520		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0083	0.05	0.001	0.004	0.522		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.522		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.524		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.498		1.022		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	H1	PLUG	Fusio		20		21/20								
	-1 Level	H1	PIPE	Fusio		20	7.9	21/20		0.0083	0.05	0.032	0.004	0.520		
	-1 Level	H1	BEND-90	Fusio		20		21/20		0.0083	0.05	0.001		0.552		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.001	0.004	0.553		
	-1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0083	0.05	0.001		0.553		
	-1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0083	0.05	0.000	0.004	0.554		
	-1 Level	H1	FANCOIL		SK-ECM 14	12			1000	0.0083		0.440		0.995		
	-1 Level	H1	PIPE	Fusio		20	0.2	21/20								

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	C1	ROOT NODE							1.1249				0.000		
	1 Level	C1	PIPE	Fusio		63	0.8	21/30		1.1249	0.54	0.060	0.073	0.000		
	1 Level	C1	BEND-90	Fusio		63		21/30		1.1249	0.54	0.070		0.060		
	1 Level	C1	PIPE	Fusio		63	4.5	21/30		1.1249	0.54	0.329	0.073	0.131		
	1 Level	C1	CONN.NODE			63				1.1249	0.54			0.460		
	-1 Level	C1	CONN.NODE			63				1.1249	0.54			0.460		
	-1 Level	C1	PIPE	Fusio		63	0.4	21/30		1.1249	0.54	0.028	0.073	0.460		
	-1 Level	C1	BEND-90	Fusio		63		21/30		1.1249	0.54	0.070		0.488		
	-1 Level	C1	PIPE	Fusio		63	3.8	21/30		1.1249	0.54	0.281	0.073	0.558		
	-1 Level	C1	BRANCH	Fusio		63/40		21/30		1.1249	0.54			0.840		
	-1 Level	C1	PIPE	Fusio		40	5.9	21/20		0.2934	0.35	0.361	0.061	0.840		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.018		1.201		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	1.218		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		1.225		
	-1 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1467	0.90	0.327	0.890	1.262		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		14.172		15.762		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.005		1.201		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20		0.1467	0.27	0.407	0.052	1.205		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		1.612		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	1.630		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		1.637		
	-1 Level	C1	PIPE	Fusio		20	0.4	21/20		0.1467	0.90	0.327	0.890	1.674		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		13.393		15.394		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	PIPE	Fusio		63	0.9	21/30		0.8314	0.40	0.039	0.043	0.840		
	-1 Level	C1	BRANCH	Fusio		63/32		21/30		0.8314	0.40			0.879		
	-1 Level	C1	PIPE	Fusio		32	17.5	21/20		0.1467	0.27	0.907	0.052	0.879		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		1.786		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	1.803		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		1.810		
	-1 Level	C1	PIPE	Fusio		20	1.2	21/20		0.1467	0.90	1.084	0.890	1.847		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		11.624		14.555		
	-1 Level	C1	REDUCER	Fusio		32/20										

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings	
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20									
	-1 Level	C1	PLUG	Fusio		20		21/20									
	-1 Level	C1	REDUCER	Fusio		63/50				0.6847	0.33	0.019		0.879			
	-1 Level	C1	PIPE	Fusio		50	2.2	21/20		0.6847	0.52	0.199	0.092	0.897			
	-1 Level	C1	BRANCH	Fusio		50/25		21/20		0.6847	0.52			1.096			
	-1 Level	C1	PIPE	Fusio		25	1.5	21/20		0.0489	0.19	0.070	0.047	1.096			
	-1 Level	C1	BEND-90	Fusio		25		21/20		0.0489	0.19	0.009		1.166			
	-1 Level	C1	PIPE	Fusio		25	0.1	21/20		0.0489	0.19	0.006	0.047	1.175			
	-1 Level	C1	BRANCH	Fusio		25/20		21/20		0.0489	0.19	0.018		1.181			
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0489	0.30	0.043	0.133	1.200			
	-1 Level	C1	FANCOIL		SK-ECM 14	12				1000	0.0489		15.008		16.251		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		25/20											
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20									
	-1 Level	C1	PLUG	Fusio		20		21/20									
	-1 Level	C1	PIPE	Fusio		50	2.0	21/20			0.6358	0.49	0.158	0.081	1.096		
	-1 Level	C1	BRANCH	Fusio		50/40		21/20			0.6358	0.49	0.027		1.254		
	-1 Level	C1	PIPE	Fusio		40	5.9	21/20			0.2934	0.35	0.361	0.061	1.281		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20			0.2934	0.35	0.018		1.643		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20			0.1467	0.27	0.007	0.052	1.660		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20			0.1467	0.27	0.037		1.667		
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20			0.1467	0.90	0.283	0.890	1.704		
	-1 Level	C1	FANCOIL		SK-ECM 14	12				3000	0.1467		13.404		15.391		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20											
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20									
	-1 Level	C1	PLUG	Fusio		20		21/20									
	-1 Level	C1	REDUCER	Fusio		40/32					0.1467	0.18	0.005		1.643		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20			0.1467	0.27	0.407	0.052	1.647		
	-1 Level	C1	BEND-90	Fusio		32		21/20			0.1467	0.27	0.018		2.054		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20			0.1467	0.27	0.007	0.052	2.072		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20			0.1467	0.27	0.037		2.079		
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20			0.1467	0.90	0.283	0.890	2.116		
	-1 Level	C1	FANCOIL		SK-ECM 14	12				3000	0.1467		12.625		15.023		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20											
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20									
	-1 Level	C1	PLUG	Fusio		20		21/20									
	-1 Level	C1	REDUCER	Fusio		50/40					0.3424	0.26	0.011		1.254		
	-1 Level	C1	PIPE	Fusio		40	2.6	21/20			0.3424	0.41	0.204	0.080	1.265		
	-1 Level	C1	BRANCH	Fusio		40/25		21/20			0.3424	0.41			1.469		
	-1 Level	C1	PIPE	Fusio		25	1.7	21/20			0.0489	0.19	0.080	0.047	1.469		
	-1 Level	C1	BEND-90	Fusio		25		21/20			0.0489	0.19	0.009		1.549		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	-1 Level	C1	PIPE	Fusio		25	0.1	21/20		0.0489	0.19	0.006	0.047	1.558		
	-1 Level	C1	BRANCH	Fusio		25/20		21/20		0.0489	0.19	0.018		1.564		
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.0489	0.30	0.043	0.133	1.583		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			1000	0.0489		14.335		15.960		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		25/20										
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	PIPE	Fusio		40	1.1	21/20		0.2934	0.35	0.066	0.061	1.469		
	-1 Level	C1	BEND-90	Fusio		40		21/20		0.2934	0.35	0.029		1.535		
	-1 Level	C1	PIPE	Fusio		40	5.9	21/20		0.2934	0.35	0.361	0.061	1.564		
	-1 Level	C1	BRANCH	Fusio		40/32		21/20		0.2934	0.35	0.018		1.925		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	1.943		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		1.950		
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.276	0.890	1.987		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		12.983		15.246		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	-1 Level	C1	REDUCER	Fusio		40/32				0.1467	0.18	0.005		1.925		
	-1 Level	C1	PIPE	Fusio		32	7.9	21/20		0.1467	0.27	0.407	0.052	1.930		
	-1 Level	C1	BEND-90	Fusio		32		21/20		0.1467	0.27	0.018		2.337		
	-1 Level	C1	PIPE	Fusio		32	0.1	21/20		0.1467	0.27	0.007	0.052	2.355		
	-1 Level	C1	BRANCH	Fusio		32/20		21/20		0.1467	0.27	0.037		2.361		
	-1 Level	C1	PIPE	Fusio		20	0.3	21/20		0.1467	0.90	0.276	0.890	2.399		
	-1 Level	C1	FANCOIL		SK-ECM 14	12			3000	0.1467		12.203		14.878		Out of dp-range
	-1 Level	C1	REDUCER	Fusio		32/20										
	-1 Level	C1	PIPE	Fusio		20	0.2	21/20								
	-1 Level	C1	PLUG	Fusio		20		21/20								
	1 Level	H1	ROOT NODE							1.2719				0.001		
	1 Level	H1	PIPE	Fusio		75	1.4	21/30		1.2719	0.43	0.046	0.032	0.001		
	1 Level	H1	BEND-90	Fusio		75		21/30		1.2719	0.43	0.044		0.047		
	1 Level	H1	PIPE	Fusio		75	0.1	21/30		1.2719	0.43	0.004	0.032	0.091		
	1 Level	H1	BRANCH	Fusio		75/50		21/30		1.2719	0.43	0.002		0.095		
	1 Level	H1	PIPE	Fusio		50	5.8	21/20		0.3998	0.31	0.165	0.028	0.097		
	1 Level	H1	BRANCH	Fusio		50/40		21/20		0.3998	0.31	0.013		0.262		
	1 Level	H1	PIPE	Fusio		40	1.2	21/20		0.1999	0.24	0.029	0.024	0.275		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1999	0.24			0.303		
	1 Level	H1	PIPE	Fusio		25	1.1	21/20		0.0500	0.20	0.040	0.037	0.303		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.343		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	0.352		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		0.357		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	0.376		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.246		2296.633		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		40/32				0.1499	0.18	0.005		0.303		
	1 Level	H1	PIPE	Fusio		32	6.6	21/20		0.1499	0.28	0.274	0.042	0.308		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1499	0.28	0.002		0.582		
	1 Level	H1	PIPE	Fusio		25	1.1	21/20		0.0500	0.20	0.040	0.037	0.584		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.624		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	0.633		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		0.638		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	0.657		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2295.675		2296.343		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	7.4	21/20		0.1000	0.19	0.152	0.021	0.582		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1000	0.19	0.005		0.735		
	1 Level	H1	PIPE	Fusio		25	1.1	21/20		0.0500	0.20	0.040	0.037	0.739		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.779		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	0.788		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		0.793		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	0.812		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2295.388		2296.211		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0500	0.09	0.005		0.735		
	1 Level	H1	PIPE	Fusio		25	6.7	21/20		0.0500	0.20	0.247	0.037	0.740		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.987		
	1 Level	H1	PIPE	Fusio		25	1.1	21/20		0.0500	0.20	0.040	0.037	0.995		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		1.035		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	1.044		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		1.049		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	1.068		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2294.890		2295.969		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		50/40				0.1999	0.15	0.004		0.262		
	1 Level	H1	PIPE	Fusio		40	0.3	21/20		0.1999	0.24	0.007	0.024	0.265		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1999	0.24			0.272		
	1 Level	H1	PIPE	Fusio		25	5.9	21/20		0.0333	0.13	0.107	0.018	0.272		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.002		0.379		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.382		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.384		
	1 Level	H1	PIPE	Fusio		20	0.5	21/20		0.0167	0.10	0.009	0.016	0.389		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2296.240		2296.638		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		0.379		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.088	0.016	0.380		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.467		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	0.470		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.490		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.030	0.016	0.492		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.523		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.525		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.527		
	1 Level	H1	PIPE	Fusio		20	0.5	21/20		0.0167	0.10	0.009	0.016	0.532		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.959		2296.500		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		40	2.0	21/20		0.1666	0.20	0.035	0.018	0.273		
	1 Level	H1	BRANCH	Fusio		40/25		21/20		0.1666	0.20			0.308		
	1 Level	H1	PIPE	Fusio		25	1.7	21/20		0.0500	0.20	0.063	0.037	0.308		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.371		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	0.379		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		0.385		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	0.404		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.228		2296.643		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		40/32				0.1166	0.14	0.003		0.308		
	1 Level	H1	PIPE	Fusio		32	2.1	21/20		0.1166	0.22	0.056	0.027	0.311		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.1166	0.22			0.367		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	PIPE	Fusio		25	5.9	21/20		0.0333	0.13	0.108	0.018	0.367		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.002		0.474		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.477		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.479		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.484		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2296.068		2296.555		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		0.474		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.088	0.016	0.475		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.562		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	0.565		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.585		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.030	0.016	0.587		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.618		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.620		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.622		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.628		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.787		2296.417		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	3.1	21/20		0.0833	0.15	0.046	0.015	0.367		
	1 Level	H1	BRANCH	Fusio		32/25		21/20		0.0833	0.15	0.005		0.412		
	1 Level	H1	PIPE	Fusio		25	1.7	21/20		0.0500	0.20	0.063	0.037	0.417		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0500	0.20	0.009		0.480		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0500	0.20	0.005	0.037	0.489		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0500	0.20	0.019		0.494		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0500	0.31	0.011	0.106	0.513		
	1 Level	H1	FANCOIL		SK-ECM 14	12			6000	0.0500		2296.019		2296.543		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0333	0.06	0.002		0.412		
	1 Level	H1	PIPE	Fusio		25	1.7	21/20		0.0333	0.13	0.030	0.018	0.415		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0333	0.13	0.004		0.445		
	1 Level	H1	PIPE	Fusio		25	5.9	21/20		0.0333	0.13	0.108	0.018	0.449		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.002		0.556		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.559		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.561		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.566		

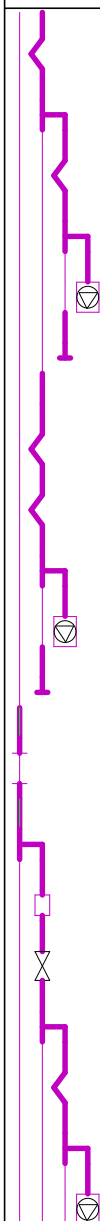
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.927		2296.495		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		0.556		
	1 Level	H1	PIPE	Fusio		20	5.5	21/20		0.0167	0.10	0.088	0.016	0.557		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.644		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0167	0.10	0.020	0.016	0.647		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.667		
	1 Level	H1	PIPE	Fusio		20	1.9	21/20		0.0167	0.10	0.030	0.016	0.669		
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		0.700		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.702		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		0.704		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	0.710		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2295.646		2296.357		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		75/63				0.8721	0.30	0.008		0.095		
	1 Level	H1	PIPE	Fusio		63	4.3	21/30		0.8721	0.42	0.160	0.038	0.103		
	1 Level	H1	CONN.NODE			63				0.8721	0.42			0.263		
	-1 Level	H1	CONN.NODE			63				0.8721	0.42			0.263		
	-1 Level	H1	PIPE	Fusio		63	0.4	21/30		0.8721	0.42	0.015	0.038	0.263		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		0.277		
	-1 Level	H1	PIPE	Fusio		63	13.9	21/30		0.8721	0.42	0.522	0.038	0.319		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		0.841		
	-1 Level	H1	PIPE	Fusio		63	4.9	21/30		0.8721	0.42	0.183	0.038	0.883		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		1.066		
	-1 Level	H1	PIPE	Fusio		63	5.5	21/30		0.8721	0.42	0.207	0.038	1.107		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		1.314		
	-1 Level	H1	PIPE	Fusio		63	4.3	21/30		0.8721	0.42	0.162	0.038	1.355		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		1.517		
	-1 Level	H1	PIPE	Fusio		63	0.8	21/30		0.8721	0.42	0.029	0.038	1.559		
	-1 Level	H1	BEND-90	Fusio		63		21/30		0.8721	0.42	0.041		1.587		
	-1 Level	H1	PIPE	Fusio		63	0.9	21/30		0.8721	0.42	0.035	0.038	1.629		
	-1 Level	H1	CONN.NODE			63				0.8721	0.42			1.664		
	1 Level	H1	CONN.NODE			63				0.8721	0.42			1.664		
	1 Level	H1	PIPE	Fusio		63	3.0	21/30		0.8721	0.42	0.114	0.038	1.664		
	1 Level	H1	BRANCH	Fusio		63/32		21/30		0.8721	0.42			1.778		
	1 Level	H1	PIPE	Fusio		32	0.1	21/20		0.1249	0.23	0.003	0.030	1.777		
	1 Level	H1	BEND-40	Fusio		32		21/20		0.1249	0.23	0.006		1.780		
	1 Level	H1	PIPE	Fusio		32	0.7	21/20		0.1249	0.23	0.023	0.030	1.786		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	1 Level	H1	BEND-40	Fusio		32		21/20		0.1249	0.23	0.006		1.809		
	1 Level	H1	PIPE	Fusio		32	0.5	21/20		0.1249	0.23	0.016	0.030	1.814		
	1 Level	H1	OTHER PIPE		BA 1500-32	32				0.1249		822.028		1.831		High dp
	1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1249	0.23	0.005	0.030	823.859		
	1 Level	H1	STOPVALVE		AT3600-32	32				0.1249				823.864		
	1 Level	H1	PIPE	Fusio		32	0.8	21/20		0.1249	0.23	0.025	0.030	823.864		
	1 Level	H1	BRANCH	Fusio		32/32		21/20		0.1249	0.23	0.026		823.889		
	1 Level	H1	PIPE	Fusio		32	0.2	21/20		0.0833	0.15	0.003	0.015	823.915		
	1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0833	0.15			823.918		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	823.918		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		823.922		
	1 Level	H1	PIPE	Fusio		20	0.2	21/20		0.0208	0.13	0.004	0.023	823.930		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1468.104		2292.038		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	PIPE	Fusio		32	2.8	21/20		0.0625	0.12	0.026	0.009	823.918		
	1 Level	H1	BRANCH	Fusio		32/20		21/20		0.0625	0.12	0.000		823.944		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	823.945		
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		823.948		
	1 Level	H1	PIPE	Fusio		20	0.5	21/20		0.0208	0.13	0.011	0.023	823.956		
	1 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1468.043		2292.010		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0416	0.08	0.004		823.944		
	1 Level	H1	PIPE	Fusio		25	0.7	21/20		0.0416	0.16	0.018	0.027	823.948		
	1 Level	H1	JOINT	Fusio		25		21/20		0.0416	0.16			823.966		
	1 Level	H1	PIPE	Fusio		25	3.2	21/20		0.0416	0.16	0.085	0.027	823.966		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		824.050		
	1 Level	H1	PIPE	Fusio		25	9.2	21/20		0.0416	0.16	0.246	0.027	824.056		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		824.302		
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0416	0.16	0.026	0.027	824.308		
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		824.334		
	1 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0416	0.16	0.004	0.027	824.340		
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.013		824.344		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0416	0.26	0.008	0.077	824.357		
	1 Level	H1	FANCOIL		SK-ECM 14	12			5000	0.0416		1467.243		2291.608		Out of dp-range,High
	1 Level	H1	REDUCER	Fusio		25/20										
	1 Level	H1	PIPE	Fusio		20	0.2	21/20								
	1 Level	H1	PLUG	Fusio		20		21/20								
	1 Level	H1	REDUCER	Fusio		32/25				0.0416	0.08	0.004		823.915		

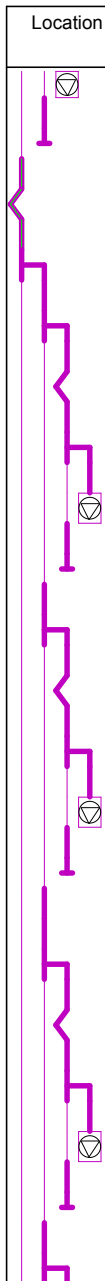
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings	
	1 Level	H1	PIPE	Fusio		25	1.0	21/20		0.0416	0.16	0.028	0.027	823.919			
	1 Level	H1	BEND-90	Fusio		25		21/20		0.0416	0.16	0.006		823.947			
	1 Level	H1	PIPE	Fusio		25	6.7	21/20		0.0416	0.16	0.178	0.027	823.953			
	1 Level	H1	BRANCH	Fusio		25/20		21/20		0.0416	0.16	0.004		824.131			
	1 Level	H1	PIPE	Fusio		20	1.8	21/20		0.0208	0.13	0.042	0.023	824.135			
	1 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		824.176			
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	824.180			
	1 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		824.183			
	1 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.002	0.023	824.191			
	1 Level	H1	FANCOIL		SK-ECM 14	12				2500	0.0208		1467.605		2291.798		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20									
	1 Level	H1	PLUG	Fusio		20		21/20									
	1 Level	H1	REDUCER	Fusio		25/20					0.0208	0.08	0.001		824.131		
	1 Level	H1	PIPE	Fusio		20	6.1	21/20			0.0208	0.13	0.143	0.023	824.132		
	1 Level	H1	BEND-90	Fusio		20		21/20			0.0208	0.13	0.004		824.275		
	1 Level	H1	PIPE	Fusio		20	1.3	21/20			0.0208	0.13	0.031	0.023	824.279		
	1 Level	H1	BEND-90	Fusio		20		21/20			0.0208	0.13	0.004		824.310		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20			0.0208	0.13	0.003	0.023	824.314		
	1 Level	H1	BRANCH	Fusio		20/20		21/20			0.0208	0.13	0.008		824.317		
	1 Level	H1	PIPE	Fusio		20	0.1	21/20			0.0208	0.13	0.002	0.023	824.325		
	1 Level	H1	FANCOIL		SK-ECM 14	12				2500	0.0208		1467.346		2291.674		Out of dp-range,High
	1 Level	H1	PIPE	Fusio		20	0.2	21/20									
	1 Level	H1	PLUG	Fusio		20		21/20									
	1 Level	H1	PIPE	Fusio		63	1.6	21/30			0.7471	0.36	0.045	0.028	1.778		
	1 Level	H1	CONN.NODE			63					0.7471	0.36			1.823		
	2 Level	H1	CONN.NODE			63					0.7471	0.36			1.823		
	2 Level	H1	PIPE	Fusio		63	2.6	21/30			0.7471	0.36	0.073	0.028	1.823		
	2 Level	H1	BRANCH	Fusio		63/32		21/30			0.7471	0.36			1.896		
	2 Level	H1	PIPE	Fusio		32	0.5	21/20			0.0750	0.14	0.007	0.012	1.896		
	2 Level	H1	OTHER PIPE		BA 1500-32	32					0.0750		295.930		1.903		High dp
	2 Level	H1	PIPE	Fusio		32	0.1	21/20			0.0750	0.14	0.002	0.012	297.833		
	2 Level	H1	STOPVALVE		AT3600-32	32					0.0750				297.834		
	2 Level	H1	PIPE	Fusio		32	2.3	21/20			0.0750	0.14	0.029	0.012	297.834		
	2 Level	H1	BRANCH	Fusio		32/20		21/20			0.0750	0.14	0.001		297.863		
	2 Level	H1	PIPE	Fusio		20	1.7	21/20			0.0292	0.18	0.071	0.042	297.864		
	2 Level	H1	BEND-90	Fusio		20		21/20			0.0292	0.18	0.007		297.935		
2 Level	H1	PIPE	Fusio		20	0.1	21/20			0.0292	0.18	0.006	0.042	297.943			
2 Level	H1	BRANCH	Fusio		20/20		21/20			0.0292	0.18	0.016		297.948			
2 Level	H1	PIPE	Fusio		20	0.1	21/20			0.0292	0.18	0.004	0.042	297.964			
2 Level	H1	FANCOIL		SK-ECM 14	12				3500	0.0292		1995.946		2293.915		Out of dp-range,High	

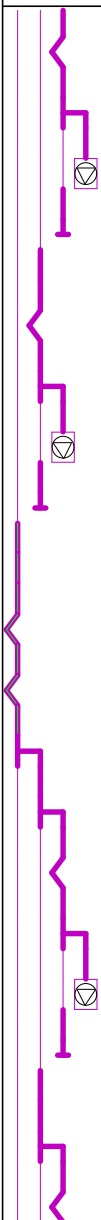
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0458	0.08	0.004		297.863		
	2 Level	H1	PIPE	Fusio		25	5.7	21/20		0.0458	0.18	0.180	0.032	297.868		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.004		298.048		
	2 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0208	0.13	0.040	0.023	298.052		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		298.092		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	298.095		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		298.099		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.002	0.023	298.107		
	2 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		1995.662		2293.771		Out of dp-range,High
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		25/20				0.0250	0.10	0.002		298.048		
	2 Level	H1	PIPE	Fusio		20	4.8	21/20		0.0250	0.15	0.152	0.032	298.050		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		298.202		
	2 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0250	0.15	0.054	0.032	298.208		
	2 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		298.262		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	298.267		
	2 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		298.272		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	298.283		
	2 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		1995.320		2293.606		Out of dp-range,High
	2 Level	H1	PIPE	Fusio		20	0.2	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		63	0.6	21/30		0.6722	0.32	0.014	0.024	1.896		
	2 Level	H1	CONN.NODE			63				0.6722	0.32			1.910		
	3 Level	H1	CONN.NODE			63				0.6722	0.32			1.910		
	3 Level	H1	PIPE	Fusio		63	2.8	21/30		0.6722	0.32	0.067	0.024	1.910		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.6722	0.32	0.025		1.977		
	3 Level	H1	PIPE	Fusio		63	0.4	21/30		0.6722	0.32	0.009	0.024	2.001		
	3 Level	H1	OTHER PIPE		BA 1500-65	65				0.6722		2287.800		2.011		High dp
	3 Level	H1	PIPE	Fusio		63	0.2	21/30		0.6722	0.32	0.004	0.024	2289.810		
	3 Level	H1	STOPVALVE		AT3600-65	65				0.6722				2289.814		
	3 Level	H1	PIPE	Fusio		63	0.4	21/30		0.6722	0.32	0.009	0.024	2289.814		
	3 Level	H1	BRANCH	Fusio		63/20		21/30		0.6722	0.32			2289.824		
	3 Level	H1	PIPE	Fusio		20	1.4	21/20		0.0208	0.13	0.033	0.023	2289.824		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2289.856		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	2289.860		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2289.863		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.002	0.023	2289.871		

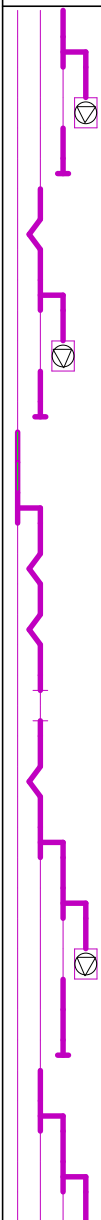
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		3.135		2293.009		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		63	0.6	21/30		0.6514	0.31	0.012	0.022	2289.824		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.6514	0.31	0.023		2289.836		
	3 Level	H1	PIPE	Fusio		63	0.6	21/30		0.6514	0.31	0.013	0.022	2289.859		
	3 Level	H1	BRANCH	Fusio		63/32		21/30		0.6514	0.31			2289.872		
	3 Level	H1	PIPE	Fusio		32	2.8	21/20		0.0958	0.18	0.053	0.019	2289.872		
	3 Level	H1	BRANCH	Fusio		32/20		21/20		0.0958	0.18			2289.925		
	3 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0167	0.10	0.028	0.016	2289.925		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2289.953		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	2289.955		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2289.957		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	2289.963		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.929		2292.893		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		32	3.6	21/20		0.0791	0.15	0.049	0.014	2289.925		
	3 Level	H1	BRANCH	Fusio		32/20		21/20		0.0791	0.15			2289.974		
	3 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0208	0.13	0.040	0.023	2289.974		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0208	0.13	0.004		2290.014		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0208	0.13	0.003	0.023	2290.018		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0208	0.13	0.008		2290.021		
	3 Level	H1	PIPE	Fusio		20	0.3	21/20		0.0208	0.13	0.007	0.023	2290.029		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2500	0.0208		2.786		2292.823		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		32/25				0.0583	0.11	0.007		2289.974		
	3 Level	H1	PIPE	Fusio		25	0.9	21/20		0.0583	0.23	0.042	0.048	2289.981		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0583	0.23	0.005		2290.023		
	3 Level	H1	PIPE	Fusio		20	3.9	21/20		0.0250	0.15	0.126	0.032	2290.027		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0250	0.15	0.005		2290.153		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.005	0.032	2290.159		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0250	0.15	0.012		2290.163		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0250	0.15	0.003	0.032	2290.175		
	3 Level	H1	FANCOIL		SK-ECM 14	12			3000	0.0250		2.511		2292.689		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		25	2.9	21/20		0.0333	0.13	0.053	0.018	2290.022		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0333	0.13	0.002		2290.075		

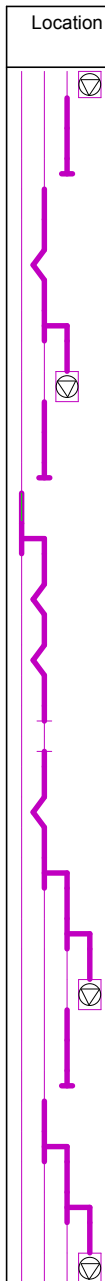
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	PIPE	Fusio		20	1.7	21/20		0.0167	0.10	0.028	0.016	2290.078		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2290.106		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	2290.108		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2290.110		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	2290.115		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.639		2292.757		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		25/20				0.0167	0.07	0.001		2290.075		
	3 Level	H1	PIPE	Fusio		20	3.3	21/20		0.0167	0.10	0.053	0.016	2290.076		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0167	0.10	0.002		2290.129		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.002	0.016	2290.132		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0167	0.10	0.005		2290.134		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0167	0.10	0.001	0.016	2290.139		
	3 Level	H1	FANCOIL		SK-ECM 14	12			2000	0.0167		2.603		2292.743		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		63	3.6	21/30		0.5556	0.27	0.060	0.017	2289.872		
	3 Level	H1	JOINT	Fusio		63		21/30		0.5556	0.27			2289.932		
	3 Level	H1	PIPE	Fusio		63	0.8	21/30		0.5556	0.27	0.013	0.017	2289.932		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.5556	0.27	0.017		2289.945		
	3 Level	H1	PIPE	Fusio		63	0.3	21/30		0.5556	0.27	0.005	0.017	2289.961		
	3 Level	H1	BEND-90	Fusio		63		21/30		0.5556	0.27	0.017		2289.966		
	3 Level	H1	PIPE	Fusio		63	8.1	21/30		0.5556	0.27	0.137	0.017	2289.983		
	3 Level	H1	BRANCH	Fusio		63/25		21/30		0.5556	0.27			2290.119		
	3 Level	H1	PIPE	Fusio		25	3.1	21/20		0.0350	0.14	0.062	0.020	2290.119		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0350	0.14	0.001		2290.182		
	3 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0125	0.08	0.008	0.006	2290.182		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0125	0.08	0.001		2290.191		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0125	0.08	0.001	0.006	2290.192		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0125	0.08	0.003		2290.193		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0125	0.08	0.001	0.006	2290.196		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1500	0.0125		2.489		2292.685		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		25/20				0.0225	0.09	0.001		2290.182		
	3 Level	H1	PIPE	Fusio		20	4.2	21/20		0.0225	0.14	0.113	0.027	2290.183		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0225	0.14	0.003		2290.296		
	3 Level	H1	PIPE	Fusio		20	1.3	21/20		0.0125	0.08	0.008	0.006	2290.300		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0125	0.08	0.001		2290.308		

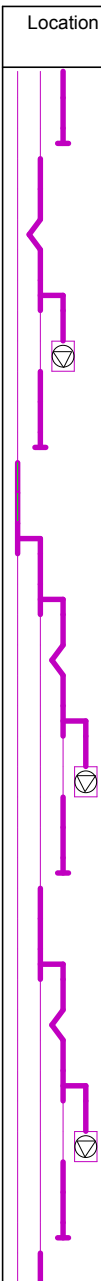
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0125	0.08	0.001	0.006	2290.309		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0125	0.08	0.003		2290.310		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0125	0.08	0.001	0.006	2290.313		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1500	0.0125		2.257		2292.570		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		20	3.3	21/20		0.0100	0.06	0.016	0.005	2290.296		
	3 Level	H1	BEND-90	Fusio		20		21/20		0.0100	0.06	0.001		2290.313		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0100	0.06	0.001	0.005	2290.313		
	3 Level	H1	BRANCH	Fusio		20/20		21/20		0.0100	0.06	0.002		2290.314		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0100	0.06	0.001	0.005	2290.316		
	3 Level	H1	FANCOIL		SK-ECM 14	12			1200	0.0100		2.258		2292.574		Out of dp-range
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		63/50				0.5206	0.25	0.011		2290.119		
	3 Level	H1	PIPE	Fusio		50	2.6	21/20		0.5206	0.40	0.116	0.045	2290.130		
	3 Level	H1	BRANCH	Fusio		50/32		21/20		0.5206	0.40			2290.246		
	3 Level	H1	PIPE	Fusio		32	0.5	21/20		0.1124	0.21	0.014	0.025	2290.245		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.258		
	3 Level	H1	PIPE	Fusio		32	2.1	21/20		0.1124	0.21	0.052	0.025	2290.269		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.321		
	3 Level	H1	PIPE	Fusio		32	2.1	21/20		0.1124	0.21	0.052	0.025	2290.331		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2290.383		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2290.383		
	2 Level	H1	PIPE	Fusio		32	2.8	21/20		0.1124	0.21	0.070	0.025	2290.383		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.453		
	2 Level	H1	PIPE	Fusio		32	3.6	21/20		0.1124	0.21	0.090	0.025	2290.463		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.001		2290.554		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.554		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.568		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.579		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.641		2292.227		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.6	21/20		0.0750	0.14	0.058	0.012	2290.554		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.003		2290.612		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.614		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.628		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.639		

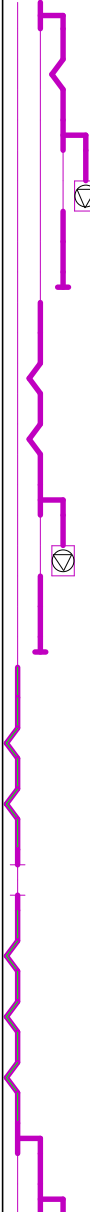
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.535		2292.181		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.003		2290.612		
	2 Level	H1	PIPE	Fusio		25	5.2	21/20		0.0375	0.15	0.116	0.022	2290.615		
	2 Level	H1	BEND-90	Fusio		25		21/20		0.0375	0.15	0.005		2290.730		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.735		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.749		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.760		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.301		2292.068		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		50	5.8	21/20		0.4081	0.31	0.170	0.029	2290.246		
	3 Level	H1	BRANCH	Fusio		50/32		21/20		0.4081	0.31			2290.415		
	3 Level	H1	PIPE	Fusio		32	0.2	21/20		0.1124	0.21	0.006	0.025	2290.415		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.421		
	3 Level	H1	PIPE	Fusio		32	2.2	21/20		0.1124	0.21	0.055	0.025	2290.431		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.486		
	3 Level	H1	PIPE	Fusio		32	2.4	21/20		0.1124	0.21	0.060	0.025	2290.496		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2290.556		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2290.556		
	2 Level	H1	PIPE	Fusio		32	2.3	21/20		0.1124	0.21	0.057	0.025	2290.556		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.613		
	2 Level	H1	PIPE	Fusio		32	2.9	21/20		0.1124	0.21	0.074	0.025	2290.624		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.001		2290.698		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.699		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.713		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.724		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.382		2292.113		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.9	21/20		0.0750	0.14	0.061	0.012	2290.698		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.003		2290.759		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.762		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.776		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.787		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.270		2292.063		Out of dp-range

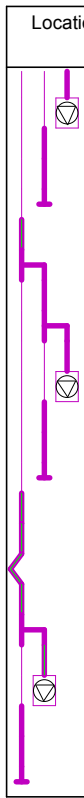
Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.003		2290.759		
	2 Level	H1	PIPE	Fusio		25	4.9	21/20		0.0375	0.15	0.109	0.022	2290.762		
	2 Level	H1	BEND-90	Fusio		25		21/20		0.0375	0.15	0.005		2290.871		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2290.876		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2290.890		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2290.901		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		1.050		2291.957		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		50/40				0.2957	0.23	0.008		2290.415		
	3 Level	H1	PIPE	Fusio		40	0.8	21/20		0.2957	0.35	0.038	0.049	2290.423		
	3 Level	H1	BRANCH	Fusio		40/40		21/20		0.2957	0.35	0.028		2290.461		
	3 Level	H1	PIPE	Fusio		40	3.0	21/20		0.1832	0.22	0.063	0.021	2290.489		
	3 Level	H1	BRANCH	Fusio		40/25		21/20		0.1832	0.22			2290.552		
	3 Level	H1	PIPE	Fusio		25	6.9	21/20		0.0458	0.18	0.219	0.032	2290.552		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2290.771		
	3 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0458	0.18	0.004	0.032	2290.779		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2290.783		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0458	0.28	0.009	0.091	2290.799		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		1.244		2292.053		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		40/32				0.1374	0.16	0.004		2290.552		
	3 Level	H1	PIPE	Fusio		32	0.7	21/20		0.1374	0.25	0.027	0.036	2290.556		
	3 Level	H1	BRANCH	Fusio		32/25		21/20		0.1374	0.25	0.002		2290.583		
	3 Level	H1	PIPE	Fusio		25	3.7	21/20		0.0458	0.18	0.117	0.032	2290.584		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2290.701		
	3 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0458	0.18	0.004	0.032	2290.708		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2290.713		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0458	0.28	0.009	0.091	2290.729		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		1.362		2292.100		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	PIPE	Fusio		32	5.4	21/20		0.0916	0.17	0.096	0.018	2290.583		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	3 Level	H1	BRANCH	Fusio		32/25		21/20		0.0916	0.17	0.004		2290.679		
	3 Level	H1	PIPE	Fusio		25	7.0	21/20		0.0458	0.18	0.219	0.032	2290.683		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2290.903		
	3 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0458	0.18	0.004	0.032	2290.910		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2290.914		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0458	0.28	0.009	0.091	2290.930		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		0.991		2291.931		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		32/25				0.0458	0.08	0.004		2290.679		
	3 Level	H1	PIPE	Fusio		25	0.3	21/20		0.0458	0.18	0.011	0.032	2290.684		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2290.695		
	3 Level	H1	PIPE	Fusio		25	3.7	21/20		0.0458	0.18	0.116	0.032	2290.702		
	3 Level	H1	BEND-90	Fusio		25		21/20		0.0458	0.18	0.007		2290.818		
	3 Level	H1	PIPE	Fusio		25	0.1	21/20		0.0458	0.18	0.004	0.032	2290.825		
	3 Level	H1	BRANCH	Fusio		25/20		21/20		0.0458	0.18	0.016		2290.830		
	3 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0458	0.28	0.009	0.091	2290.846		
	3 Level	H1	FANCOIL		SK-ECM 14	12			5500	0.0458		1.156		2292.011		Out of dp-range
	3 Level	H1	REDUCER	Fusio		25/20										
	3 Level	H1	PIPE	Fusio		20	0.2	21/20								
	3 Level	H1	PLUG	Fusio		20		21/20								
	3 Level	H1	REDUCER	Fusio		40/32				0.1124	0.13	0.003		2290.460		
	3 Level	H1	PIPE	Fusio		32	8.3	21/20		0.1124	0.21	0.211	0.025	2290.463		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.673		
	3 Level	H1	PIPE	Fusio		32	2.6	21/20		0.1124	0.21	0.065	0.025	2290.684		
	3 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.749		
	3 Level	H1	PIPE	Fusio		32	2.7	21/20		0.1124	0.21	0.067	0.025	2290.759		
	3 Level	H1	CONN.NODE			32				0.1124	0.21			2290.827		
	2 Level	H1	CONN.NODE			32				0.1124	0.21			2290.827		
	2 Level	H1	PIPE	Fusio		32	1.3	21/20		0.1124	0.21	0.033	0.025	2290.827		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.860		
	2 Level	H1	PIPE	Fusio		32	0.1	21/20		0.1124	0.21	0.003	0.025	2290.870		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.874		
	2 Level	H1	PIPE	Fusio		32	1.2	21/20		0.1124	0.21	0.030	0.025	2290.884		
	2 Level	H1	BEND-90	Fusio		32		21/20		0.1124	0.21	0.010		2290.914		
	2 Level	H1	PIPE	Fusio		32	3.9	21/20		0.1124	0.21	0.098	0.025	2290.924		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.1124	0.21	0.001		2291.022		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2291.023		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.037		

Hydronic Network Balancing Report

Location	Level	System	Type	Series	Product	Size	L [m]	Insulation	P [W]	qv [l/s]	v [m/s]	dpt [kPa]	dp/L [kPa/m]	pt [kPa]	adj.	Warnings
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2291.048		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.780		2291.834		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	PIPE	Fusio		32	4.6	21/20		0.0750	0.14	0.058	0.012	2291.022		
	2 Level	H1	BRANCH	Fusio		32/25		21/20		0.0750	0.14	0.003		2291.080		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2291.082		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.097		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2291.107		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.674		2291.788		Out of dp-range
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								
	2 Level	H1	REDUCER	Fusio		32/25				0.0375	0.07	0.003		2291.080		
	2 Level	H1	PIPE	Fusio		25	5.2	21/20		0.0375	0.15	0.116	0.022	2291.083		
	2 Level	H1	BEND-90	Fusio		25		21/20		0.0375	0.15	0.005		2291.199		
	2 Level	H1	PIPE	Fusio		25	0.6	21/20		0.0375	0.15	0.014	0.022	2291.204		
	2 Level	H1	BRANCH	Fusio		25/20		21/20		0.0375	0.15	0.011		2291.218		
	2 Level	H1	PIPE	Fusio		20	0.1	21/20		0.0375	0.23	0.007	0.064	2291.229		
	2 Level	H1	FANCOIL		SK-ECM 14	12			4500	0.0375		0.440		2291.675		
	2 Level	H1	REDUCER	Fusio		25/20										
	2 Level	H1	PIPE	Fusio		20	0.1	21/20								
	2 Level	H1	PLUG	Fusio		20		21/20								

სითბო-სიცივის მაგენერირებელი და საგენტაღაციო დანადგარების მახასიათებლები. გგ-100.5															
№	სისტემის აღნიშვნა	გენტილიატორი						გამათბობელი ელემენტები				გამაცივებელი ელემენტი			
		ტიპი	რაოდენობა	Lm	თავისუფალი წნევა H	ელ. სიმძლავრე, kW	Voltage	ჰაერის		ცხელი წყლის პარამეტრები °C.	სითბოს ხარჯი KW	ჰაერის		ცივი წყლის პარამეტრები °C.	სიცივის ხარჯი KW
								ტაბრ	ტაბლა			ტაბრ	ტაბლა		
I	II	IV	V	VI	VII	VIII	VIII	IX	X	XI	XII	XIV	XV	XVI	XVII
მენტიონა															
1	ჩილერი ჰიდრომოდიულით		2			2*117	380					-9	23	7-12	350
2	ქვაბი		2			0.20	220	-9	22	80-60	350				
3	თბური ტუმბო		1			6.00	380	-9	22	40-50	16	-9	23	7-12	25
4	პრეციზიული კონდენციონერი		1			6.00	220	-9	22	40-50	8	-9	23	7-12	14
5	ტუმბო		2	0.5	10	1.00	380								
6	ტუმბო		2	1	10	0.80	380								
7	ტუმბო		1	10.8	20	4.00	380								
8	ტუმბო		2	1.3	20	1.20	380								
9	ტუმბო		1	10	5	4.00	380								
10	ტუმბო		1	0.5	10	1.00	380								
11	ტუმბო		1	2.6	5	2.20	380								
12	ტუმბო		1	2	2	2.20	380								
13	ტუმბო		2	4.5	5	3.50	380								
14	ტუმბო		1	3	5	3.00	380								
15	ბასმეტიზი უმეპოილი		53			0.15		-9	22	40-50	1-8	-9	23	7-12	1-5
16	ბასმეტიზი უმეპოილი		6			0.30		-9	22	40-50	6	-9	23	7-12	9