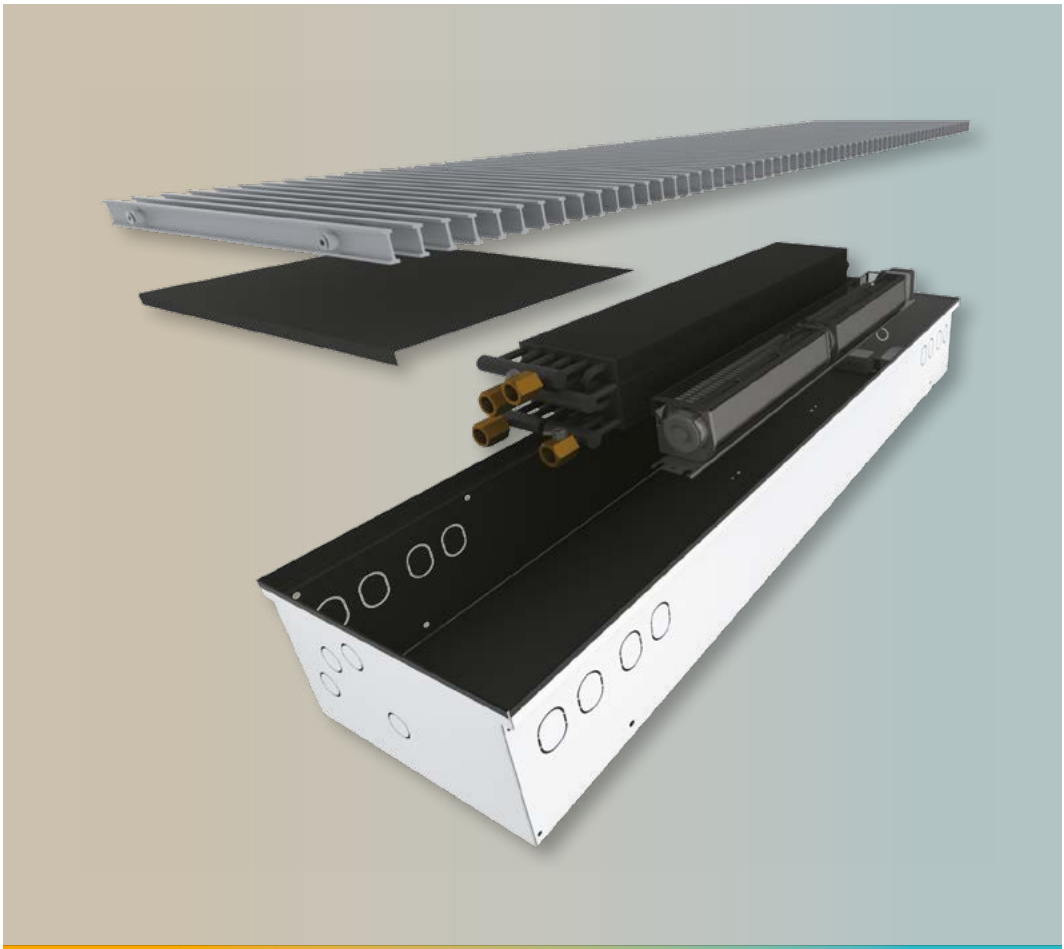


Assembly guide for trench convectors

FMS, F1S, F2C, F2V, F4C, F4V

EN PL DE RU RO DK SE NO FI EE LV LT

ASSEMBLY GUIDE FOR TRENCH CONVECTORS

Quality guarantee 10 years

Electric / electronic components guarantee 2 years

EN Assembly guide for trench convectors

1. Prepare a suitable place on the subfloor of the following dimensions:
   - width of the convector duct + min. 80 mm,
   - length of the convector duct + min. 40 mm,
   - depth of the convector duct + 2 - 25 mm (as measured from the level of the finished floor).
2. Screw levelling bolts into pre-drilled holes on the bottom of the duct and attach the floor fixing brackets to the outside of the duct (included in the installation kit).
3. Position your trench convector in the previously prepared place in the subfloor. Lay soundproofing insulation (e.g. mineral wool, foamed polystyrene, foam) between the convector duct and the subfloor.
4. Level and stabilise the convector duct.
5. Connect the flow and return pipe from the heating system according to the system design. For models with fans (F1S,...), connect all necessary electric wiring. Cover the water and electric connectors with the cover plate included in the installation kit.
6. Pressure test the convector to ensure there are no leaks.
7. Cover the convector duct with the protective chipboard until all construction work has been completed.
8. Fill the gaps between the convector duct and the floor slab with concrete or low expansion foam.
9. Once the project is finished remove the chipboard.
10. When the concrete and foam are completely cured, clean the inside of the duct and the convector itself.
11. Unroll the roll-up decorative grille over the convector.

PL Instrukcja montażu grzejników kanałowych

1. Przygotować miejsce w stropie/podłodze o wymiarach:
   - Szerokość wanny grzejnika + min. 80 mm;
   - Długość wanny grzejnika + min. 40 mm;
   - Głębokość wanny grzejnika + 2 - 25 mm (licząc od poziomu wykończonej podłogi)
2. Wkręcić w otwory w dnie wanny śruby poziomujące i przykręcić do boku wanny elementy mocujące do podłoża (załączone w zestawie montażowym).
3. Umieścić grzejnik kanałowy w przygotowanym wcześniej miejscu w stropie/podłodze. Pomiędzy wanną grzejnika a stropem/podłogą ułożyć materiał wygłuszający (np: wełna mineralna, styropian, pianka).
4. Wypoziomować i ustabilizować wannę grzejnika kanałowego.
5. Podłączyć zasilanie i powrót instalacji grzewczej zgodnie z projektem. Dla grzejników w wersji z wentylatorem (F1S, ...) wykonać podłączenia elektryczne. Podłączenia hydrauliczne i elektryczne zakryć blachą maskującą dołączoną do zestawu.
6. Wykonać próbę ciśnieniową na szczelność grzejnika i podłączeń hydraulicznych.
7. Przykryć wannę grzejnika kanałowego płytą wiórową zabezpieczającą do czasu ukończenia prac budowlanych.
8. Wypełnić betonem lub niskoprężną pianką montażową szczeliny pomiędzy wanną grzejnika kanałowego a wylewką podłogi.
9. Po zakończeniu prac wykończeniowych zdjąć ochronną płytę wiórową.
10. Po związaniu zaprawy cementowej lub pianki montażowej wyczyścić wnętrze wanny i elementy grzejnika.
11. Rozwinąć na grzejniku kratkę maskującą.

DE Montageanleitung für Kanalheizkörper

1. Platz in der Decke/dem Fußboden vorbereiten, Abmessungen:
   - Heizkörperwannenbreite + min. 80 mm;
   - Heizkörperwannenlänge + min. 40 mm;
   - Heizkörperwannentiefe + 2 - 25 mm (ab Fertigfußbodenkante)
2. Nivellierschrauben in die Bodenlöcher der Wanne eindrehen und mitgelieferte Bodenbefestigungselemente mit der Seitenwand der Wanne verschrauben
3. Den Kanalheizkörper am vorher vorbereiteten Platz in der Decke/dem Fußboden platzieren. Zwischen der Heizkörperwanne und der Decke/dem Fußboden Schalldämmstoff (z.B. Mineralwolle, Styropor, Schaumstoff) verlegen.
4. Heizkörperwanne nivellieren und stabilisieren.
5. Vor- und Rücklaufleitungen der Heizanlage gemäß dem Plan anschließen. Bei Heizkörpern in der Version mit Ventilator (F1S,...) Stromanschlüsse herstellen. Hydraulik- und Stromanschlüsse mit dem mitgelieferten Abdeckblech abdecken.
6. Heizkörper und Hydraulikverbindungen durch eine Druckprobe auf Dichtheit prüfen.
7. Heizkörperwanne mit Spanplatte zum Schutz für die Dauer der Bauarbeiten abdecken.
8. Fugen zwischen der Heizkörperwanne und dem Estrich mit Beton oder Niederdruck-Montageschaum füllen.
9. Nach Abschluss der Ausbauarbeiten Spanplatte entfernen.
10. Nach Abbindung des Zementmörtels oder Montageschaums den Innenbereich der Heizkörperwanne und die Heizkörperkomponenten reinigen.
11. Abdeckgitter am Heizkörper anbringen.

ASSEMBLY GUIDE FOR TRENCH CONVECTORS

RU Руководство по монтажу канальных отопительных конвекторов

1. Подготовьте канал в полу, следующих размеров:
- ширина ванны конвектора + 80 мм,
- длина ванны конвектора + 40 мм,
- глубина ванны конвектора + 2 - 25 мм (от уровня чистого пола).
2. Регулировочные болты находятся в монтажном комплекте.
3. Поместите канальный конвектор в подготовленный канал. Положите тепло и звукоизоляцию (например, минеральная вата пенопласт) между ванной конвектора и основанием.
4. Выровняйте и зафиксируйте ванну конвектора.
5. Соедините трубу подачи и обратки системы отопления согласно техническим требованиям. Для конвекторов (F1S,...), выполняются все необходимые электрические подключения. Закройте водяные и электрические соединения маскирующей пластиной, входящей в комплект.
6. Проведите гидравлическое испытание.
7. Закройте ванну конвектора защитной древесно-стружечной плитой, пока все строительные работы не будут закончены.
8. Забетонируйте ванну конвектора.
9. После того, как работы будут закончены, удалите древесно-стружечную плиту.
10. Установите декоративную решетку в конвектор.
11. Развернуть декоративную рулонную решетку на конвекторе.

RO Instrucțiuni de montaj pentru convectorii cu montaj în pardoseală

1. Pregătiți un loc adecvat în pardoseală respectând următoarele dimensiuni :
- lățimea cuvei convectorului + min. 80 mm,
- lungimea cuvei convectorului + min. 40 mm,
- adâncimea cuvei convectorului + 2 - 25 mm (măsurată de la nivelul pardoselii cu finisajul aplicat).
2. Fixați șuruburile de reglaj de nivel în orificiile din partea inferioară a cuvei convectorului și atașați clemele de fixare pentru beton în partea laterală a cuvei (incluse în kitul de montaj).
3. Poziționați convectorul în șanțul din pardoseală pregătit anterior. Așezați izolația (de exemplu: vată minerală, polistiren, spumă) între cuva convectorului și pardoseală.
4. Reglați nivelul și stabilizați cuva convectorului în șanț.
5. Conectați conductele de alimentare și retur a schimbătorului de căldură în conformitate cu proiectul tehnic. Pentru varianta convectoarelor cu ventilator (F1S,...), este important să se monteze toate cablurile electrice necesare. Acoperiți conexiunile hidraulice și electrice cu placa de mascare inclusă în setul de montaj.
6. Efectuați proba de presiune pentru a verifica etanșeitatea convectorului și a conexiunilor hidraulice.
7. Acoperiți cuva convectorului cu PAL-ul de protecție, până când toate lucrările de construcție au fost finalizate.
8. Umpleți golurile dintre cuva convectorului și pardoseală folosind beton fluid sau spumă poliuretanică de fixare.
9. După ce finisajele au fost finalizate, scoateți PAL-ul de protecție.
10. Când betonul sau spuma s-au întărit curățați cuva convectorului.
11. Asezați grila de mascare pe cuva convectorului.

DK Installationsvejledning til gulvmonterede konvektorer

1 Forbered et passende sted på gulvet med følgende dimensioner
- med af konvektorkanalen + min 80 mm
- længde af konvektorkanal + min 40 mm
- dybde af konvektorkanal + 2- 25 mm (målt fra niveauet for det færdige gulv)

2 Skru nivelleringsbolte i forborede huller i bunden af kanalen, og fastgør gulvfastgørelsesbeslagene udvendigt på kanalen (inkluderet i installationssættet).

3 Placer din gulvkonvektor på det tidligere forberedte sted i gulvet. Læg lydisolering (f.eks. mineraluld, opskummet polystyren, skum) mellem konvektorkanalen og gulvet.

4 Invellerer og stabiliser konvektorkanalen.

5. Tilslut flow- og returrøret fra varmesystemet i henhold til systemdesignet. For modeller Tilslut alle nødvendige elektriske ledninger. Dæk vand og elektriske stik med dækplade inkluderet i installationssættet.
6. Tryktest konvektoren for at sikre, at der ikke er lækager.
7. Dæk konvektorkanalen med det beskyttende spånplade, indtil alt byggeri er afsluttet.
8. Fyld hullerne mellem konvektorkanalen og gulvpladen med beton eller skum med lav ekspansion.
9. Når projektet er færdigt, skal du fjerne spånpladen.
10. Når betonen og skummet er hærdet fuldstændigt, skal du rengøre indersiden af kanalen og selve konvektoren.
11. Rul det oprullede dekorative gitter over konvektoren.

SE Installationsanvisning för golvinfällda konvektorer

1. Förbered en lämplig plats på undergolvet med följande mått:
- konvektorkanalens bredd + min. 80 mm,
- konvektorkanalens längd + min. 40 mm,
- konvektorkanalens djup + 2 - 25 mm (mätt från det färdiga golvets nivå).
2. Skruva in nivåregleringsbultar i förborrade hål på kanalens botten och fäst golvfästet på utsidan av kanalen (ingår i installationssatsen).
3. Placera din golvkonvektor på den tidigare förberedda platsen i undergolvet. Lägg ljudisolering isolering (t.ex. mineralull, skummad polystyren, skum) mellan konvektorkanalen och undergolvet.
4. Nivåjustera och stabilisera konvektorkanalen.
5. Anslut flödes- och returledningen från värmesystemet enligt systemkonstruktionen. För modeller med fläkt F1S mfl. anslut alla nödvändiga elektriska anslutningar till fläktar och ställdon. Täck vatten och elektriska kontakter med täckplatta som ingår i installationssatsen.
6. Trycktesta konvektorn för att säkerställa att det inte finns några läckor.
7. Täck konvektorkanalen med skyddande skiva tills alla byggnadsarbeten har slutförts.
8. Fyll luckorna mellan konvektorkanalen och golvplattan med betong eller låg expansionsskum.
9. Ta bort spånskivan när projektet är klart.
10. När betongen och skummet är helt härdade ska du rengöra insidan av kanalen och själva konvektorn.
11. Rulla ut det upprullade top gallret över konvektorn.

ASSEMBLY GUIDE FOR TRENCH CONVECTORS

NO Installasjonsinstruksjon for gulvmonterte konvektorer

1. Forbered et passende sted på undergulvet med følgende dimensjoner
   - med av konvektorkanalen + min 80mm
   - lengde på konvektorkanalen + min 40 mm
   - dybde av konvektorkanal + 2 - 25 mm (målt fra nivået på det ferdige gulvet)
2. Skru utjevningsbolter i forborede hull på bunnen av kanalen og fest gulvfestebrakettene på utsiden av kanalen (inkludert i installasjonssettet).
3. Plasser grøftekonvektoren på det tidligere forberedte stedet i undergulvet. Legg lydisolering isolasjon (f.eks. mineralull, skummet polystyren, skum) mellom konvektorkanalen og undergulvet.
4. Jevn ut og stabiliser konvektorkanalen.
5. Koble strømnings- og returrøret fra varmesystemet i henhold til systemutformingen. For modeller med vifter (F1S, ...), koble til alle nødvendige elektriske ledninger. Dekk til vann- og elektriske kontakter med dekkplate inkludert i installasjonssettet.
6. Trykk på konvektoren for å sikre at det ikke er lekkasjer.
7. Dekk konvektorkanalen med det beskyttende sponplaten til alt byggearbeid er fullført.
8. Fyll hullene mellom konvektorkanalen og gulvplaten med betong eller skum med lav ekspansjon.
9. Når prosjektet er ferdig, fjern sponplaten.
10. Når betongen og skummet er herdet, rengjør du innsiden av kanalen og selve konvektoren.
11. Rull opp det dekorative grillen over konvektoren.

FI Lattiaan asennettavien konvektorien asennusohjeet

1. Valmista sopiva paikka seuraavien mittojen aluslattialle
   - konvektorikanavan kanssa + min 80mm
   - Konvektorikanavan korkeus + min 40 mm
   - Konvektorikanavan syvyys + 2 - 25 mm (mitattuna valmiin lattian tasosta)
2. Kierrä tasoitusruuvit esiporattuihin reikiin kanavan pohjassa ja kiinnitä lattian kiinnikkeet kanavan ulkopuolelle (sisältyy asennussarjaan).
3. Sijoita kaivosuuntaasi aiemmin valmisteltuun paikkaan aluslattiassa. Aseta äänieristys eristys (esim. mineraalivilla, vaahdotettu polystyreeni, vaahto) konvektori-kanavan ja lattian välillä.
4. Tasaa ja vakauta konvektorikanava.
5. Liitä virtaus- ja paluuputki lämmitysjärjestelmästä järjestelmän suunnittelun mukaisesti. Mallit puhaltimien (F1S,...) kanssa, liitä kaikki tarvittavat sähköjohdot. Peitä vesi- ja sähköliittimet asennussarjaan sisältyvä peitelevy.
6. Testaa konvektori paineen avulla varmistaaksesi, ettei vuotoja ole.
7. Peitä konvektorikanava suojalevyllä, kunnes kaikki rakennustyöt on saatu päätökseen.
8. Täytä konvektorikanavan ja lattialaatan väliset aukot betonilla tai matalalla paisuntavaahdolla.
9. Kun projekti on valmis, poista lastulevy.
10. Kun betoni ja vaahto ovat täysin kovettuneet, puhdista kanavan sisäpuoli ja itse konvektori.
11. Avaa kääritävä koristelistat säteilyn yli konvektorin yli.

EE Kanalikonvektori toruühenduse juhend

1. Valmistage ette sobiv koht järgmiste mõõtmetega aluspõrandal:
   - konvektori laius + min. 80 mm,
   - konvektori pikkus + min. 40 mm,
   - konvektori sügavus + 2 - 25 mm (mõõdetuna viimistletud põranda tasemest).
2. Keerake tasanduspoldid etteantud aukudesse kanali põhjas ja kinnitage põranda kinnitusklambrid väljapoole kanalit (sisaldub paigalduskomplektis).
3. Asetage kanalikonvektor aluspõrandasse eelnevalt ettevalmistatud kohta. Paigaldage helikindel isolatsioon (nt mineraalvill, vahustatud polüstüreen, vaht) konvektorite kanali ja aluspõranda vahele.
4. Tasandage ja stabiliseerige konvektorikast.
5. Ühendage toite- ja tagasivoolutoru küttesüsteemist vastavalt süsteemi konstruktsioonile. Ventilaatoritega mudelitele (F1S,...), ühendage kõik vajalikud elektrijuhtmed. Katke hüdraulika- ja elektriliitmikud komplektis oleva katteplaadiga, mis on komplektis.
6. Kontrollige konvektorit, et lekkeid ei tekiks.
7. Katke konvektorikanal kaitsva katteplaadiga, kuni kõik ehitustööd on lõpule viidud.
8. Täitke konvektoritoru ja põrandaplaadi vahed betooni või vähepaisuva vahuga.
9. Kui projekt on lõpetatud, eemaldage puitlaastplaat.
10. Kui betoon ja vaht on täielikult kõvenenud, puhastage kanali sisekülg ja konvektor ise.
11. Rulli konvektorile lahti dekoratiivvõre.

LV Konvektora korpusa montāža

1. Sagatavojiet vietu grīdā ar sekojošiem izmēriem:
   - konvektora korpusa platums + min. 80 mm,
   - konvektora korpusa garums + min. 40 mm,
   - konvektora korpusa dziļums + 2 - 25 mm (mērot no gatavās grīdas līmeņa).
2. Ieskrūvējiet līmeņošanas skrūves kanāla apakšā un piestipriniet grīdas stiprinājumus kanāla ārpusē (iekļauti uzstādīšanas komplektā).
3. Novietojiet konvektoru iepriekš sagatavotajā vietā. Starp konvektora kanālu un pamatni ielieciet skaņas izolāciju (piemēram, minerālvati, putu polistirolu, putas).
4. Nolīmeņojiet un nostipriniet konvektora kanālu.
5. Pievienojiet padeves un atgaitas cauruli no apkures sistēmas atbilstoši projektam. Modeļiem ar ventilatoriem (F1S,...) pievienojiet visu nepieciešamo elektroinstalāciju. Pārklājiet hidrauliskos un elektriskos savienojumus ar uzstādīšanas komplektā iekļauto pārsegu.
6. Veiciet spiediena pārbaudi, lai pārliecinātos vai nav noplūdes.
7. Pārklājiet konvektora kanālu ar aizsargplāksni, līdz visi būvdarbi ir pabeigti.
8. Aizpildiet atstarpes starp konvektora kanālu un grīdu ar betonu vai putām ar zemu izplešanās koeficientu.
9. Kad būvdarbi ir pabeigti, noņemiet aizsargplāksni.
10. Kad betons un putas ir pilnībā sacietējušas, notīriet kanāla iekšpusi un pašu konvektoru.
11. Izrullējiet un uzstādiet konvektora dekoratīvo resti.

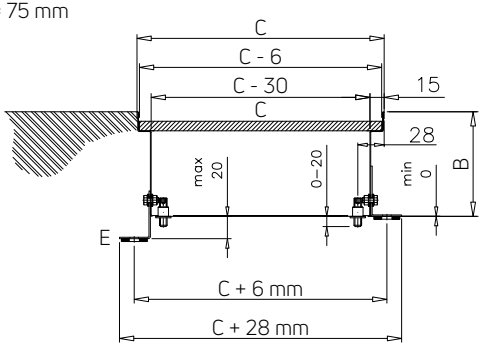
ASSEMBLY GUIDE FOR TRENCH CONVECTORS

LT Kanalinių konvektorių montavimo instrukcija

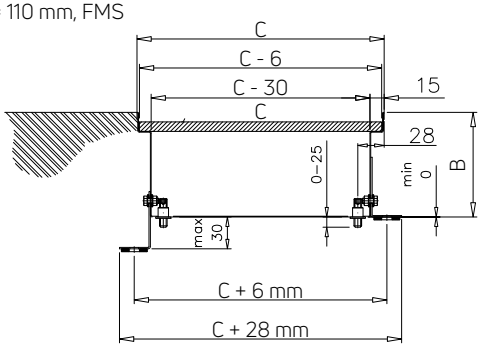
1. Perdangoje/grindyse paruošti toliau nurodytų matmenų montavimo vietą:
- Konvektoriaus korpuso plotis + min. 80 mm;
- Konvektoriaus korpuso ilgis + min. 40 mm;
- Konvektoriaus korpuso gylis + 2 - 25 mm (skaičiuojant nuo įrengtų grindų lygio).
2. Į korpuso dugne esančias angas įsukti išlyginamuosius varžtus ir prie korpuso šono prisukti prie pagrindo tvirtinančius elementus (pridedama montavimo komplekte).
3. Kanalinį konvektorių įstatyti į iš anksto paruoštą vietą perdangoje/grindyse. Tarp konvektoriaus korpuso ir perdangos/grindų įterpti izoliacinę medžiagą (pvz., mineralinę vatą, putų polistireną, putas).
4. Kanalinio konvektoriaus korpusą išlyginti ir stabilizuoti jo padėtį.
5. Šildymo instaliacijos maitinimą ir grįžtamąjį srautą prijungti vadovaujantis projektu. Konvektoriams su ventiliatoriumi (F1S,...) įrengti elektros prijungimus. Hidraulinius ir elektros prijungimus uždengti prie komplekto pridedamu apsauginiu skardos lakštu.
6. Atlikti konvektoriaus ir hidraulinių jungčių sandarumui patikrinti skirtą slėgio bandymą.
7. Iki statybos darbų pabaigos kanalinio konvektoriaus korpusą uždengti apsaugine drožlių plokšte.
8. Ertmes tarp konvektoriaus korpuso ir išlyginamosios grindų dangos užpildyti betonu ar mažo plėtimosi slėgio putomis.
9. Užbaigus apdailos darbus apsauginę drožlių plokštę nuimti.
10. Cemento skiediniui ar montažinėms putoms surišus konvektoriaus korpuso vidų ir dalis išvalyti.
11. Ant radiatoriaus uždėti skersines groteles.

TRENCH CONVECTORS

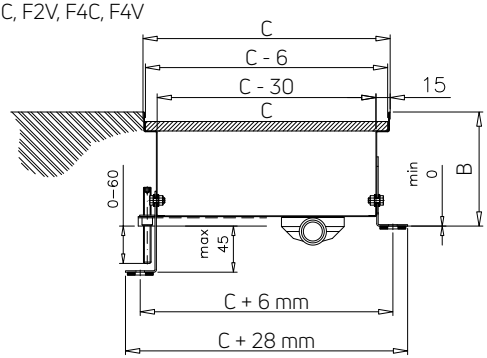
B = 75 mm



B = 110 mm, FMS



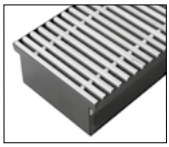
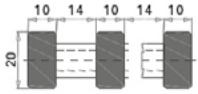
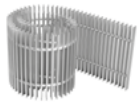
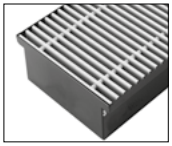
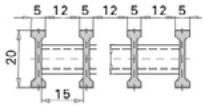
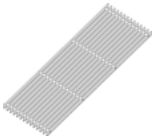
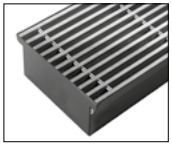
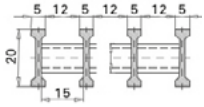
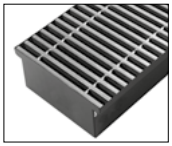
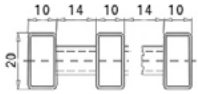
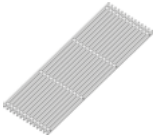
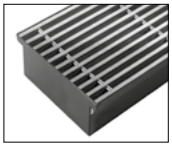
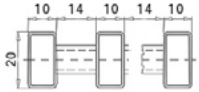
F2C, F2V, F4C, F4V



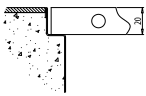
B = height
wysokość
Höhe
высота
înălțimea
højde
höjd
høyde
korkeus
kõrgus
augstums
aukštis

C = width
szerokość
Breite
ширина
lățimea
bredde
bredd
bredde
leveys
laius
platums
plotis

TRENCH CONVECTORS
Decorative grilles

Decorative grilles		
		
		
		
		
		

PMO



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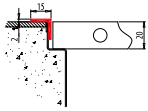
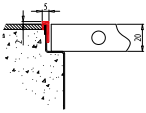


PMU



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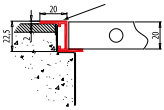
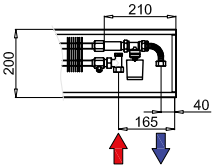


TRENCH CONVECTORS

Connections to pipe systems

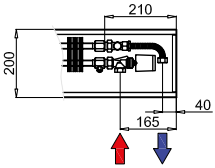
FMS-20

B: 90, 110, 140, 190 mm



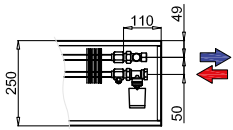
FMS-20

B: 90, 110, 140, 190 mm



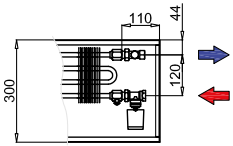
FMS-25

B: 90, 110, 140, 190 mm



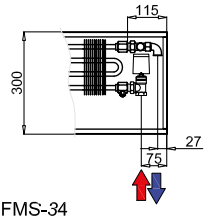
FMS-30

B: 90, 110 mm



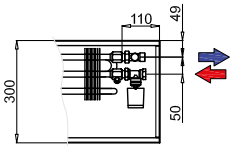
FMS-30

B: 90, 110 mm



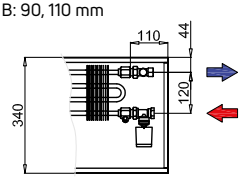
FMS-30

B: 140, 190 mm



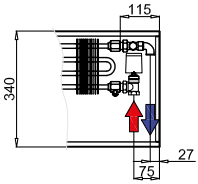
FMS-34

B: 90, 110 mm



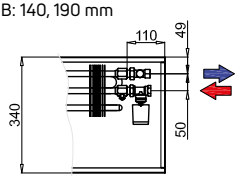
FMS-34

B: 90, 110 mm



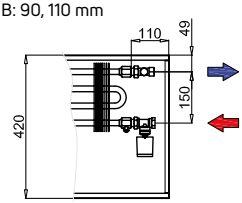
FMS-34

B: 140, 190 mm



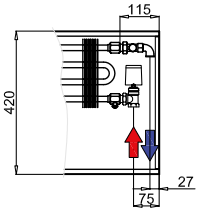
FMS-42

B: 90, 110 mm



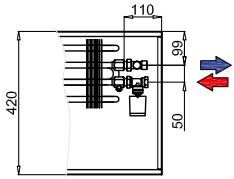
FMS-42

B: 90, 110 mm



FMS-42

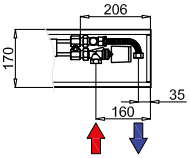
B: 140, 190 mm



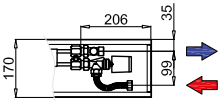
TRENCH CONVECTORS

Connections to pipe systems

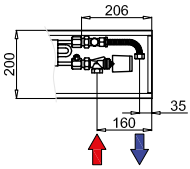
F1S-17
B: 75 mm



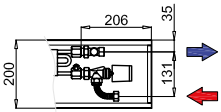
F1S-17
B: 75 mm



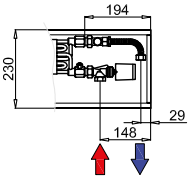
F1S-20
B: 75 mm



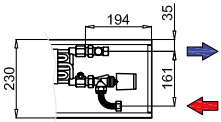
F1S-20
B: 75 mm



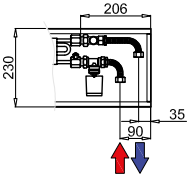
F1S-23
B: 75 mm



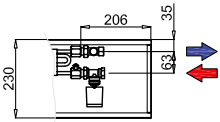
F1S-23
B: 75 mm



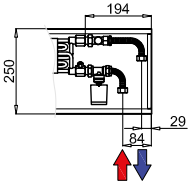
F1S-23
B: 110 mm



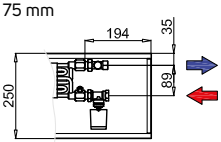
F1S-23
B: 110 mm



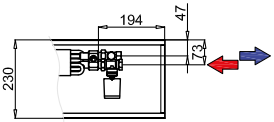
F1S-25
B: 75 mm



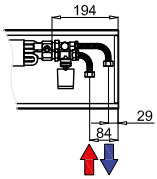
F1S-25
B: 75 mm



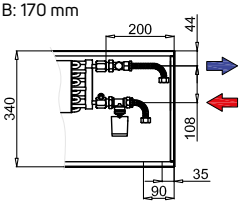
F2C-23
B: 110 mm



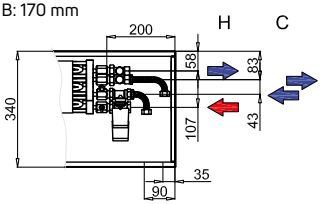
F2C-23
B: 110 mm



F2C-34 / F2V-34
B: 170 mm

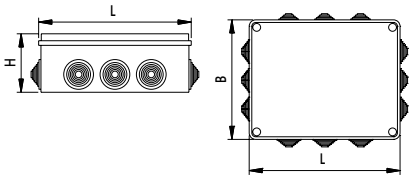


F4C-34 / F4V-34
B: 170 mm



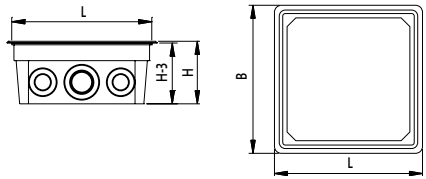
TRENCH CONVECTORS
RAS transformers

Version for surface mounting



	L [mm]	B [mm]	H [mm]	[kg]
RAS-030-M-01	230	185	90	1.2
RAS-060-M-01	230	185	90	1.3
RAS-100-M-01	230	185	90	1.4

Version for flush mounting



	L [mm]	B [mm]	H [mm]	[kg]
RAS-030-M-02	230	230	84	1.3
RAS-060-M-02	230	230	84	1.4
RAS-100-M-02	230	230	84	1.5

	[W]	max. number of connected motors			recommended cable for the convector's connection
		F1S (08)	F1S (11), F2C (11)	F2C (17), F4C	
RAS-030-M-0x	30	3	2	1	3 x 1.5 mm²
RAS-060-M-0x	60	7	4	3	
RAS-100-M-0x	100	12	6	5	
RAS-120-M-0x	120	15	7	6	
RAS-240-M-0x	240	30	15	12	

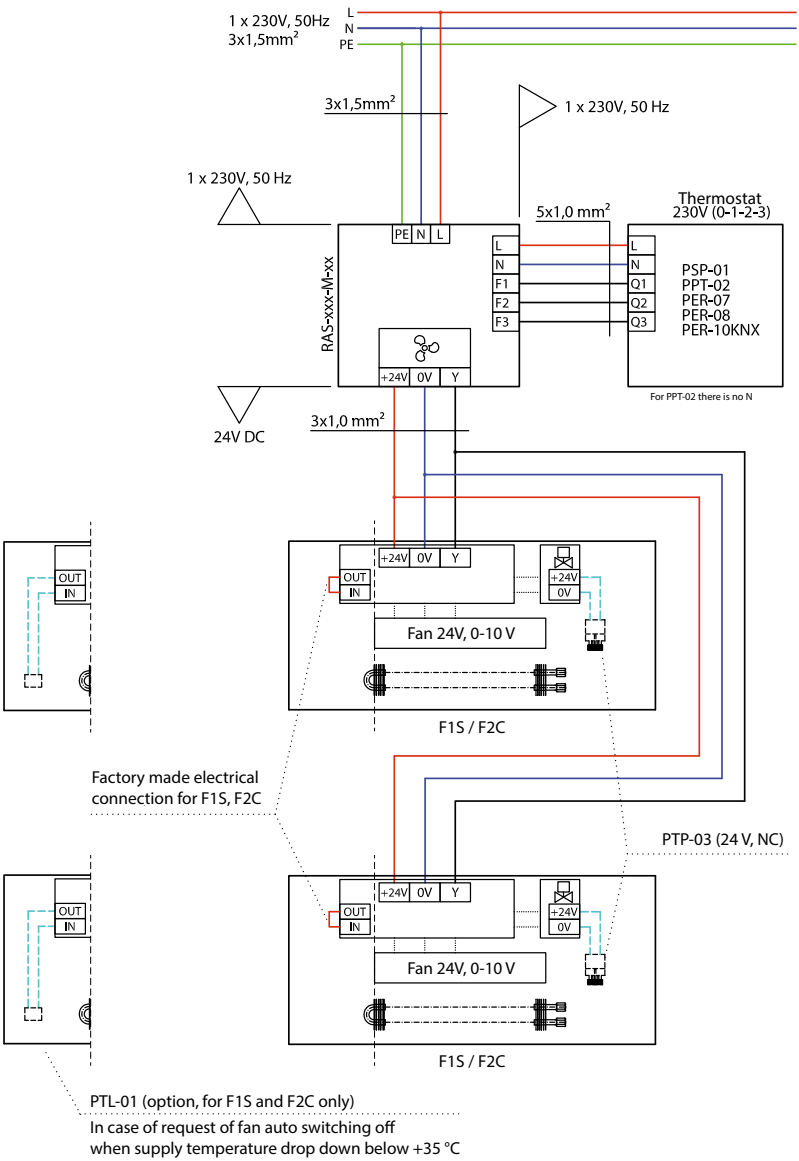
** RAS-120-M-0x and RAS-240-M-0x are only available as DIN rail-mounted versions.*

RMS control module for the F2V and F4V convectors

	L [mm]	B [mm]	H [mm]	[kg]	[W]	recommended cable for the RMS module connection
RMS-010-M-01	230	185	90	1.1	10	3 x 1.5 mm²
RMS-010-M-02	230	230	84	1.2	10	
RMS-010-M-03	100	90	65	1.0	10	

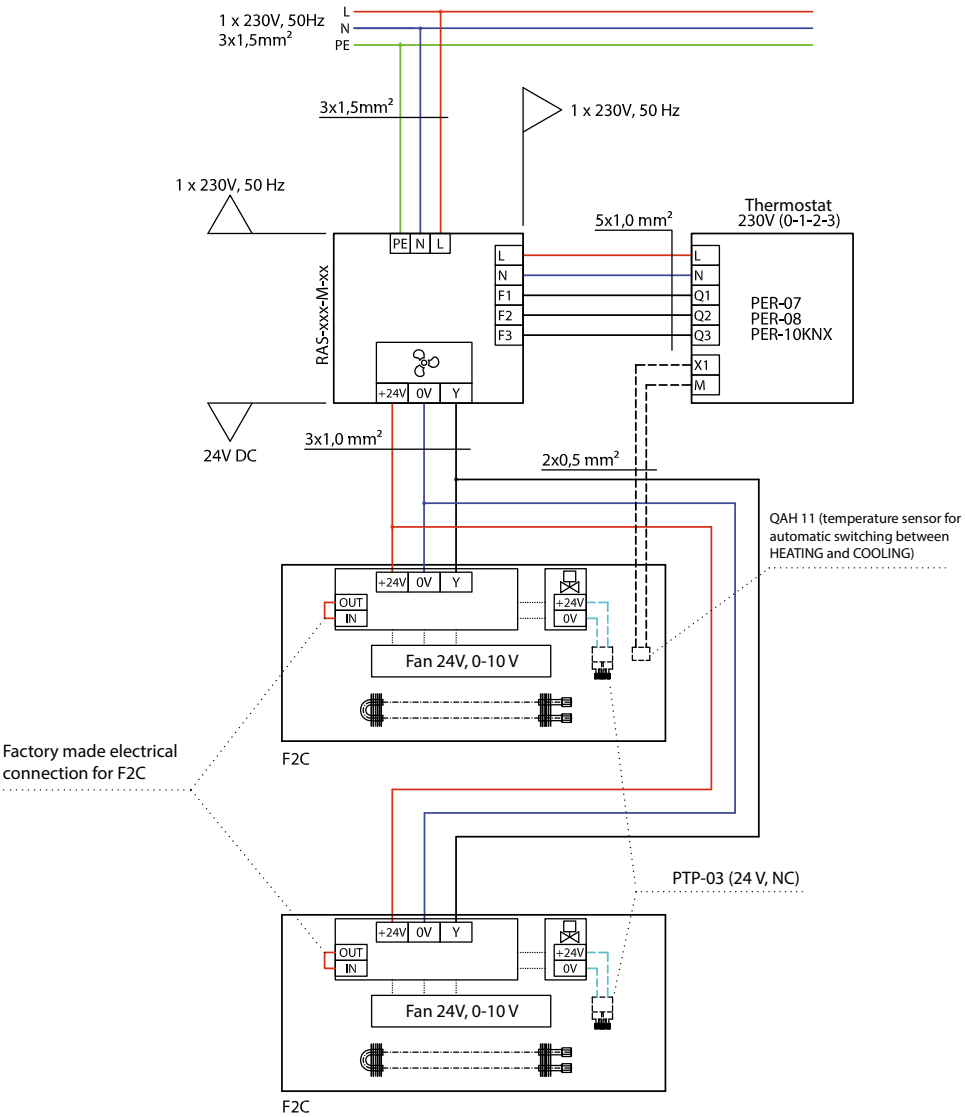
TRENCH CONVECTORS
Wiring diagrams (examples)

F1S and F2C (only heating mode) convectors with room thermostat, RAS transformer



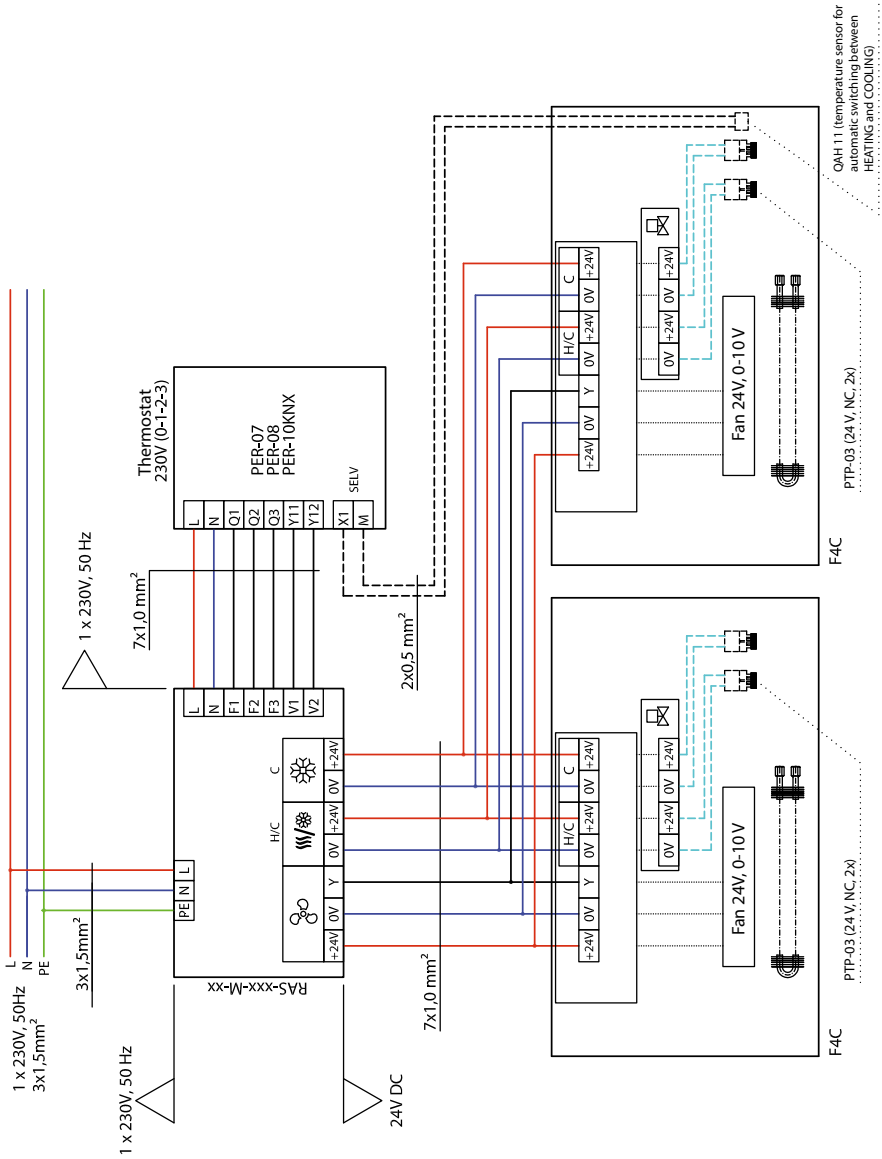
TRENCH CONVECTORS
Wiring diagrams (examples)

F2C convector (heating or cooling mode) with room thermostat, RAS transformer, and QAH11 sensor



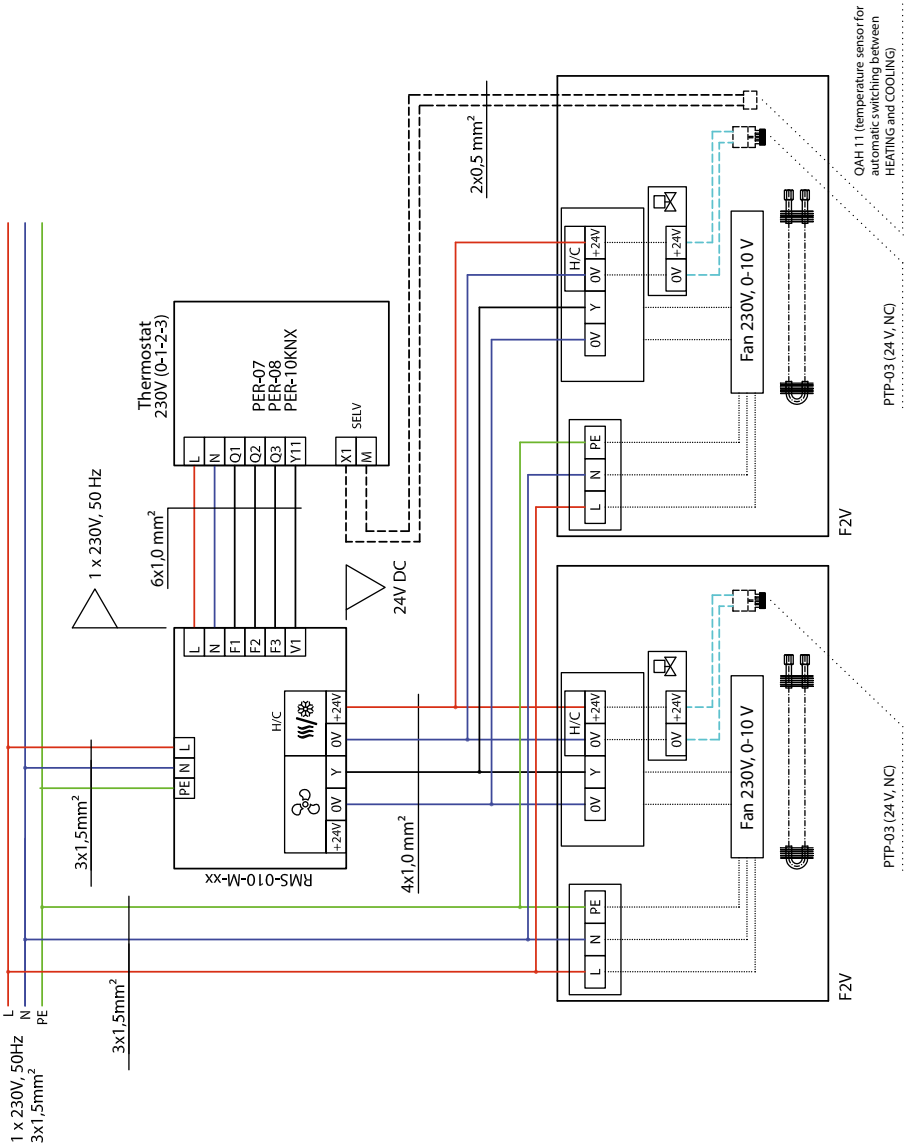
TRENCH CONVECTORS
Wiring diagrams (examples)

F4C convector with room thermostat, RAS transformer, and QAH11 sensor



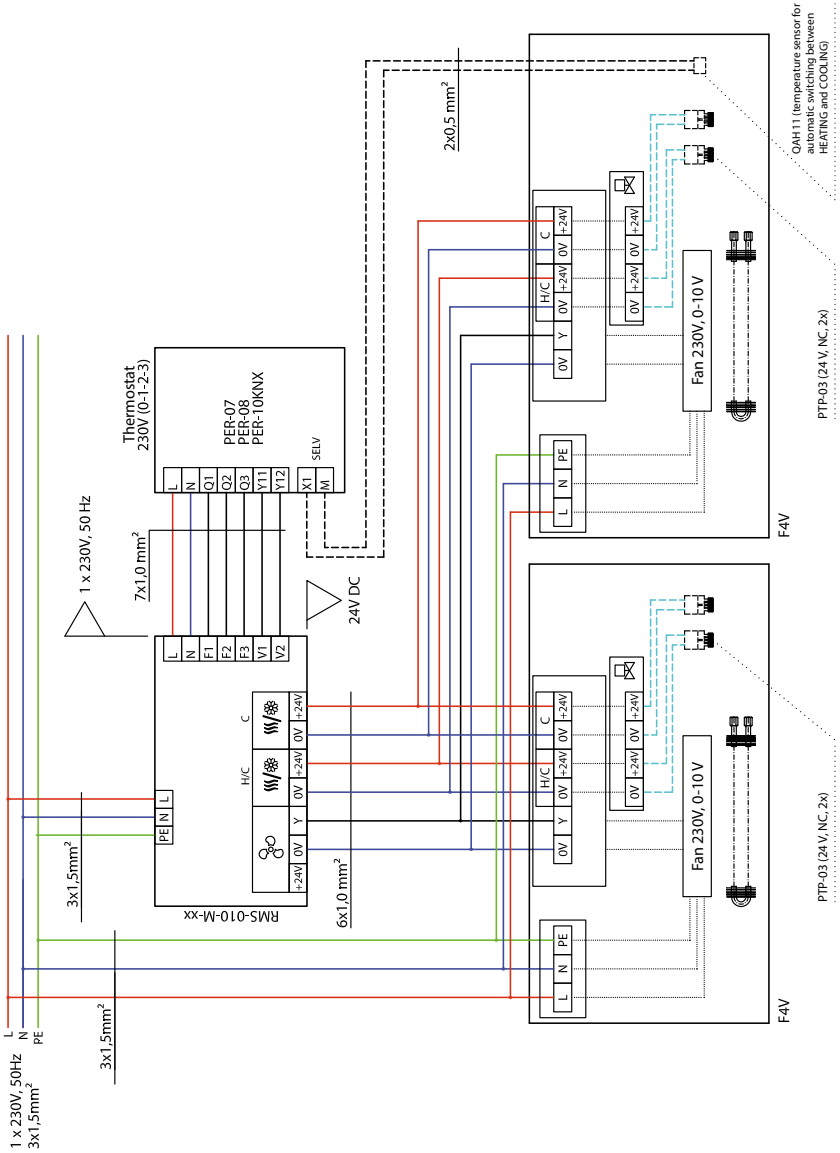
TRENCH CONVECTORS
Wiring diagrams (examples)

F2V convector with room thermostat, RMS control module, and QAH11 sensor



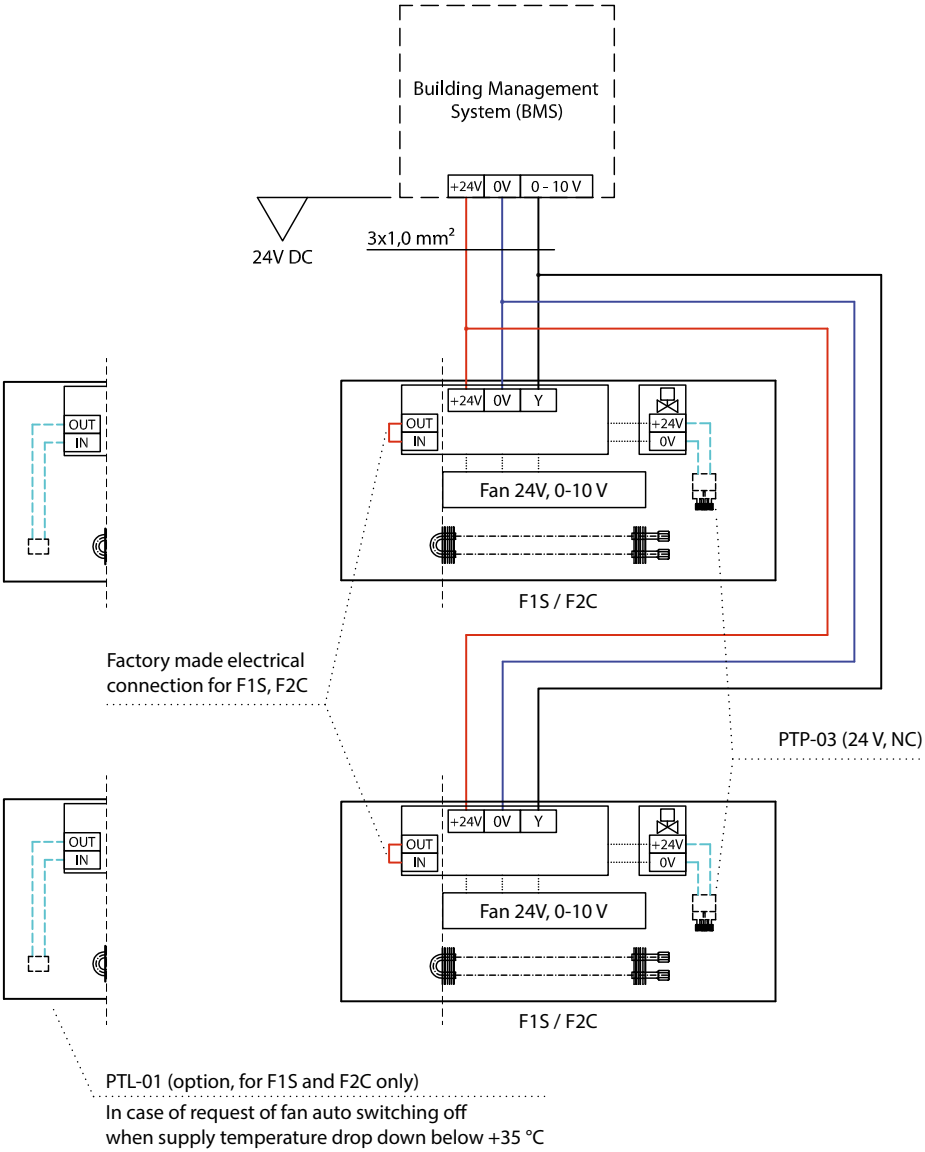
TRENCH CONVECTORS
Wiring diagrams (examples)

F4V convector with room thermostat, RMS control module, and QAH11 sensor



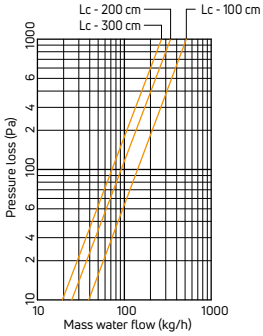
TRENCH CONVECTORS
Wiring diagrams (examples)

F1S and F2C (only in heating mode) convectors controlled by BMS

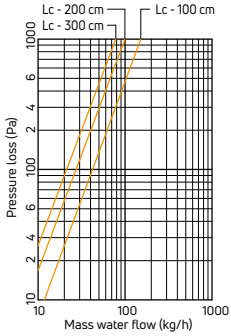


TRENCH CONVECTORS

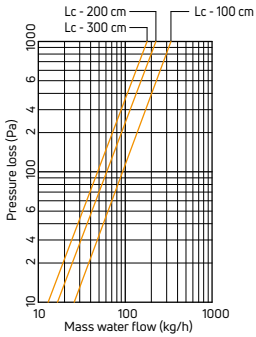
Hydraulic characteristics



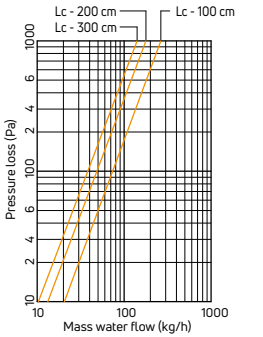
1 FMS-20-LLL-09, FMS-20-LLL-11
2 FMS-25-LLL-09, FMS-25-LLL-11



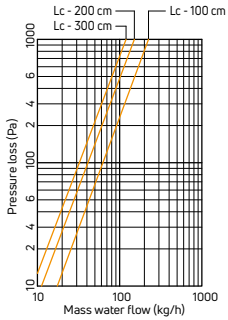
1 FMS-30-LLL-09, FMS-30-LLL-11
2 FMS-34-LLL-09, FMS-34-LLL-11



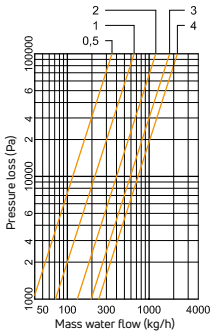
1 FMS-42-LLL-09, FMS-42-LLL-11
2 FMS-20-LLL-14, FMS-20-LLL-19
3 FMS-25-LLL-14, FMS-25-LLL-19



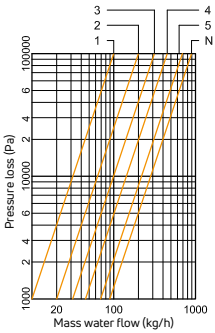
1 FMS-34-LLL-14, FMS-34-LLL-19



1 FMS-42-LLL-14, FMS-42-LLL-19



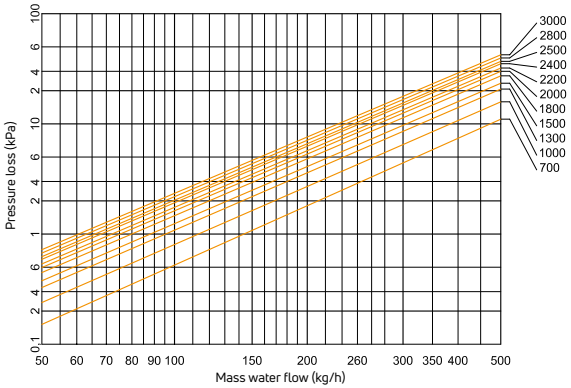
1 PRS-01, PRS-02



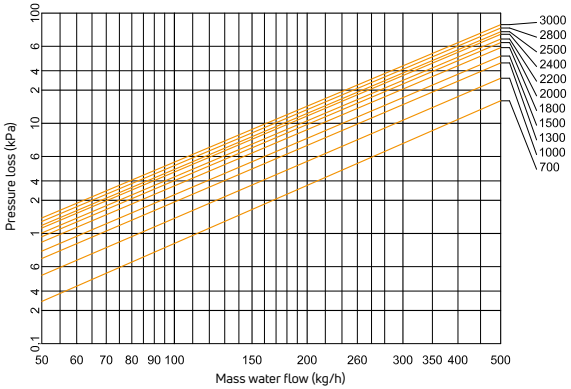
1 PTV-01, PTV-02

TRENCH CONVECTORS

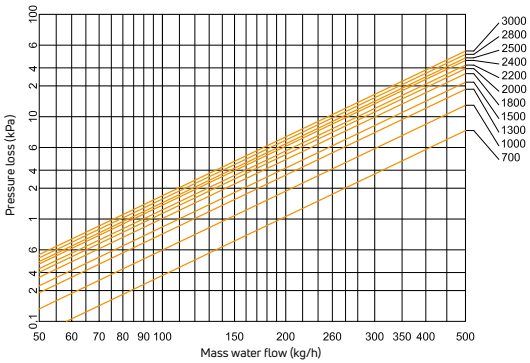
Hydraulic characteristics



1 F1S-17-LLL-08



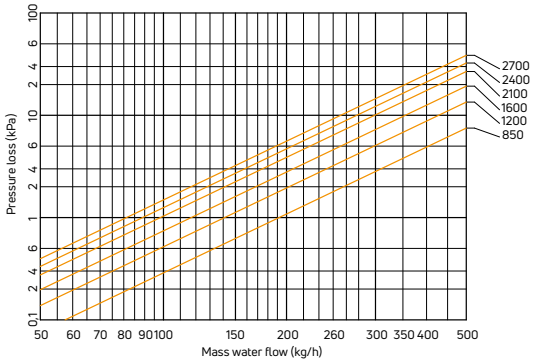
1 F1S-20-LLL-08
2 F1S-23-LLL-11



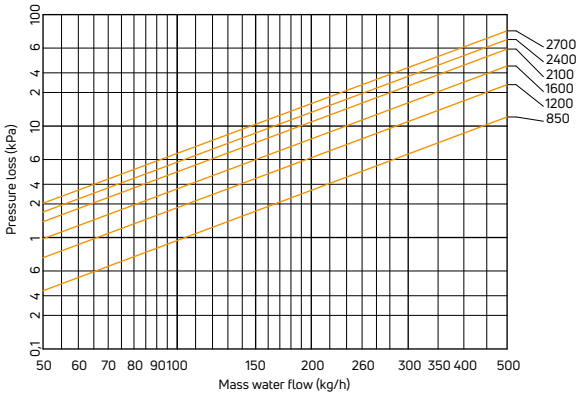
1 F1S-23-LLL-08
2 F1S-25-LLL-11

TRENCH CONVECTORS

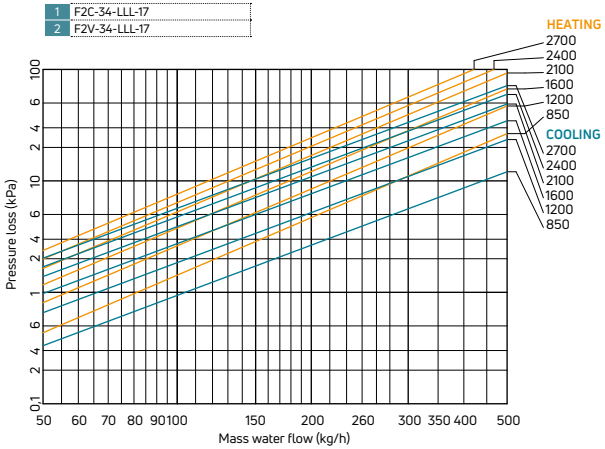
Hydraulic characteristics



1 F2C-23-LLL-11



1 F2C-34-LLL-17
2 F2V-34-LLL-17



1 F4C-34-LLL-17
2 F4V-34-LLL-17

Assembly guide for trench convectors _03_2021_INT

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