GLOBAL PRODUCT RANGE

Air curtains
Radiant heaters
Fan heaters
Convectors
Controls

Content

❁ = Ambient (no heat)
⚡ = Electrical heat
⬦ = Water heat
✳ = Cooling
⬧ = Dehumidifier

Design and specifications
are subject to change
without notice.

Please visit www.frico.net
for latest updated info.

Good reasons to choose Frico

More than 85 years experience in developing products for the varied Nordic climate has provided us with a unique knowledge bank. This is our foundation when creating today's energy efficient solutions for a comfortable indoor climate.

Leading technology and design
Today Frico is the leading supplier of air curtains, radiant heaters and fan heaters in Europe, and the products are designed according to good Scandinavian tradition. As market leaders we run development and offer both electrical and water heated products and also air curtains without heat. For our air curtains the Thermozone Technology guarantees efficient separation with minimum use of energy and a low sound level.

Keeping our promises
Frico has access to one of Europe's most modern and advanced air and sound laboratories. It helps us to ensure that our products deliver what we promise. We regularly carry out tests and measurements during the development of new products, but also to improve existing products. The measurements are carried out according to the AMCA and ISO standards.

Frico Academy
Frico Academy is an important platform for networking and sharing inspiration and knowledge between us and our distributors around the world. Through the Frico Academy we share our knowledge on theory and technology, as well as product knowledge and experience in manufacturing and product development.

Frico saves energy
Thanks to our broad product range and our many years of experience, Frico is able to help you save energy. By offering total solutions, including both complete heating systems and products for additional heating, we can generate a comfortable indoor climate at a low energy cost. Our regulation systems for different levels ensure that you never use more energy than is required. Through our parent company, Systemair, we also possess knowledge about ventilation and can provide appropriate solutions.

Climate-smart
At Frico, we are proud to be able to offer energy-efficient products for a better indoor climate. In our product development work, the focus is on achieving the greatest possible function with the least possible energy consumption – without compromising on our core values of trust, competence and care.
   This means that our products not only manage the local climate in business complexes, industrial buildings, offices or summer cottages; with optimum energy efficiency, we ensure that our products are climate-smart.

Ecodesign Regulation

Ecodesign Regulation (EU) 2015/1188 concerning local space heaters does not apply to all application areas.
The Regulation applies when an installation is intended to provide thermal comfort for people in the premises. The Regulation does not apply to heating installations of a more technical nature e.g. in engineering/utility rooms, in production processes, frost protection, etc. The Regulation also does not apply to installations in vehicles, offshore or outdoors.

Many of Frico's products can be used as both local space heaters (as defined in (EU) 2015/1188) and for technical heating purposes. It is up to the installer responsible for the installation to assess whether the Ecodesign Regulation is applicable or not.
Control solutions for installations not covered by the Ecodesign Regulation are listed in a separate table.

Energy efficient products for a comfortable indoor climate

Air curtains

It makes sound economic sense to create an efficient and invisible door that keeps the heat inside. Air curtains can be even more effective when used in air conditioned or cold storage buildings.

Thermozone technology with its precisely adjusted air velocity gives even protection throughout the opening. Frico air curtains provide the most efficient separation with the lowest possible energy consumption, regardless of whether it is the heat or the cold that you want to keep inside.

The air curtain units should be positioned as close to the door opening as possible and cover its whole width. The recommended installation height given for our air curtains varies depending on the relevant premises.

Radiant heaters

Frico radiant heaters imitate the sun, the most comfortable and efficient heat source available. The heat is emitted only when the rays hit a surface and the room temperature can thus be lowered while occupants experience a comfortable environment. This makes radiant heaters well suited not only for total heating but also for zone and spot heating, for example to avoid cold draughts from windows.

Radiant heaters are easy to install and require minimum maintenance. They heat directly when switched on and give no air movement.

Fan heaters

We are proud of the worldwide fame Frico fan heaters have gained. They are reliable and are designed for long life. Our range covers all needs. The investment cost is low compared to other heating systems.

Frico fan heaters are compact, silent and light weight. They are available for electrical heating as well as for water heating.

Ceiling fans

Ceiling fans force over-heated air from the ceiling down to the occupation zone in premises with high ceilings so that the heat is maximally exploited. The ceiling fans can also be run in reverse, so that cold air can circulate through the room giving it a cooler feel.

Convectors

Convection is the term for the rotating air movement where the air is affected by a heat source. The air is heated - rises upwards - cools and comes back to then be reheated. This gives good comfort through good heat distribution and the warm air flow directed upwards can be used to counteract cold drafts from large glass surfaces.

Thermostats and controls

The key to energy efficient heating and good comfort is the combination of heating products and good controls. Frico offers a wide range of thermostats and controls, read more under each product or in the Frico Catalogues.

The product selection guide at www.frico.net helps you to find the right product and to easily collate all technical data, accessories and heating calculations to your documents.

frico.net

PA1508 ⚡

Horizontal mounting
• For small openings
• Length: 0,8 m
• Built-in control.

⚡ Electrical heat - PA1508 (IP20)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
3791	**PA1508E02**	1/2	270/400	66	39/50	230V~	790x154x167
3792	**PA1508E03**	2/3	270/400	66	39/50	230V~	790x154x167
3793	**PA1508E05**	3/4,5	270/400	66	39/50	230V~	790x154x167

Portier ❀⚡

Horizontal mounting
• Recommended installation height 2,5 m
• Lengths: 1 and 1,5 m

❀ Ambient, no heat - Portier A (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
2163	**PS210A**	0	1000/1300	70	44/54	230V~	1020x280x291
2351	**PS215A**	0	1300/2000	72	46/56	230V~	1530x280x291

⚡ Electrical heat - Portier E (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
2164	**PS210E03**	1,5/3	950/1200	66	44/50	230V~/400V3N~*	1020x280x291
2140	**PS210E06**	3/6	950/1200	66	44/50	400V3N~*	1020x280x291
2077	**PS210E09**	4,5/9	950/1200	66	44/50	400V3N~*	1020x280x291
2085	**PS215E09**	4,5/9	1200/1900	66	39/50	400V3N~*	1530x280x291
2079	**PS215E14**	6,7/13,5	1200/1900	66	39/50	400V3~ + 230V~	1530x280x291

*) Alternative 400 V3~ + 230 V~ (operating supply) if the current is greater than 16 A. Applies when connecting several units.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

P2WB P2JK ADPK1 ADPF1

CB20 CB22 RTI2 MDC
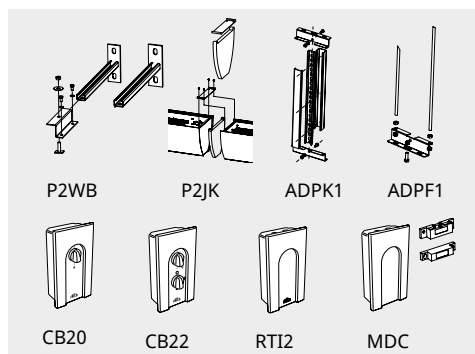
Art.nr	Type	Description
Accessories		
10695	**P2WB**	Wall mounting kit (2 pcs)
10696	**P2JK**	Joining kit (1 pc)
10727	**ADPK1**	Suspension kit (2 pcs)
10728	**ADPF1**	Suspension brackets (4 pcs)
Controls		
10737	**CB20**	Control box Portier A, IP44
10738	**CB22**	Control box Portier E, IP44
10231	**RTI2**	Electronic 2-step thermostat, IP44
11600	**MDC**	MDC, magnetic door contact with time relay, IP44

ADA ✿

Horizontal mounting
- For air conditioned premises
- Recommended installation height: 2,5 m
- Lengths: 0,9 and 1,2 m
- Built in control, high/low speed

✿ Ambient, no heat - ADA (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
5984	ADA090H	0	800/1150	70	43/54	900x236x218
5985	ADA120H	0	1100/1400	67	44/51	1200x236x218

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.

AR200 ✿⚡♦

Recessed mounting
- Recommended installation height 2,5 m
- Lengths: 1, 1,5 and 2 m

✿ Ambient, no heat - AR200 A (IP20)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
3261	AR210A	0	650/1200	66	34/50	230V~	1042x198x432
3262	AR215A	0	950/1750	66	34/50	230V~	1552x198x432
3260	AR220A	0	1300/2400	70	40/54	230V~	2042x198x432

⚡ Electrical heat - AR200 E (IP20)

Art.nr	Type	Output steps 400V3N~ [kW]	Output steps 230V~ [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
3263	AR210E09	3	-	650/1200	66	34/50	400V3N~	1042x198x432
		6/9	-				400V3N~	
		-	3				230V~	
		-	3/5				230V~	
3264	AR215E11	4,5	-	950/1750	66	34/50	400V3N~	1552x198x432
		6,8/11,3	-				400V3N~	
		-	4,5				230V~	
		-	4,5/6,8				230V~	
3265	AR220E18	6	-	1300/2400	70	40/54	400V3N~	2042x198x432
		12/18	-				400V3N~	
		-	6				230V~	
		-	6/10				230V~	

AR200E is delivered as 9 kW, 11 kW and 18 kW (400V3N~) models, but they are convertible to 230V~ and different outputs as shown in above table.

♦ Water heat - AR200 W (IP20)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
2435	AR210W	6,6	700/1000	64	41/49	0,5	1042x198x432
2436	AR215W	10	1000/1600	66	37/50	0,9	1552x198x432
2437	AR220W	13	1400/2000	69	44/53	1,1	2042x198x432

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Accessories and controls AR200

PA34TR PA34VD

PA34CB

SIReBN SIReAC SIReAA

FCDC SIReRTX

SIReWTA SIReCJ4

SIReCJ6 SIReCC

VLSP

VOT

VLP

VMT

Art.nr	Type	Description
Accessories		
18056	**PA34TR15**	Threaded bars (4 pcs)
18057	**PA34TR20**	Threaded bars (6 pcs)
18059	**PA34CB15**	Ceiling brackets (4 pcs)
18060	**PA34CB20**	Ceiling brackets (6 pcs)
18065	**PA34VD15**	Vibration dampers (4 pcs)
18066	**PA34VD20**	Vibration dampers (6 pcs)
Control system SIRe		
33481	**SIReBN**	Control system SIRe Basic
33488 / 33489	**SIReACY / SIReACZ***	Control system SIRe Competent
33490 / 33491	**SIReAAY / SIReAAZ***	Control system SIRe Advanced
74061	**SIReB1XAE**	External control board for AR200E
74062	**SIReB1XAW**	External control board for AR200A/W
Accessories SIRe		
17495	**FCDC**	Additional door contact
17539	**SIReRTX**	External room temperature sensor, NTC10KΩ
17613	**SIReWTA**	Return water sensor RJ11 (4p/4c) 3 m IP65
17616	**SIReCJ4**	Used to join two RJ11 (4/4)
17615	**SIReCJ6**	Used to join two RJ12 (6/6)
17542	**SIReCC603**	Modular cable RJ12 (6/6) 3 m
17543	**SIReCC605**	Modular cable RJ12 (6/6) 5 m
17544	**SIReCC610**	Modular cable RJ12 (6/6) 10 m
17545	**SIReCC615**	Modular cable RJ12 (6/6) 15 m
17773	**SIReCC640**	Modular cable RJ12 (6/6) 40 m
17546	**SIReCC403**	Modular cable RJ11 (4/4) 3 m
17547	**SIReCC405**	Modular cable RJ11 (4/4) 5 m
17548	**SIReCC410**	Modular cable RJ11 (4/4) 10 m
17549	**SIReCC415**	Modular cable RJ11 (4/4) 15 m
Water control - Used with SIRe Basic and Competent		
79379	**VLSP15LF**	Pressure independent valve system on/off DN15 , low flow
79380	**VLSP15NF**	Pressure independent valve system on/off DN15
79381	**VLSP20**	Pressure independent valve system on/off DN20
79382	**VLSP25**	Pressure independent valve system on/off DN25
79417	**VLSP32**	Pressure independent valve system on/off DN32
19031	**VOT15**	Three way control valve and actuator on/off DN15 Kvs 1,7
19032	**VOT20**	Three way control valve and actuator on/off DN20 Kvs 2,5
19033	**VOT25**	Three way control valve and actuator on/off DN25 Kvs 4,5
Water control - Used with SIRe Advanced		
79375	**VLP15LF**	Pressure independent and modulating valve system DN15 , low flow
79376	**VLP15NF**	Pressure independent and modulating valve system DN15
79377	**VLP20**	Pressure independent and modulating valve system DN20
79378	**VLP25**	Pressure independent and modulating valve system DN25
19034	**VMT15**	Three way control valve and modulating actuator, DN15, Kvs 1,7
19035	**VMT20**	Three way control valve and modulating actuator, DN20, Kvs 2,5
19036	**VMT25**	Three way control valve and modulating actuator, DN25, Kvs 4,5

*) SIRexxxY communicates in Swedish, Norwegian, English, German, French, Spanish, Dutch, Italian, Danish and Finnish.

SIRexxxZ communicates in Russian, Ukrainian, Polish, Czech, Slovak, Romanian, Hungarian, Turkish, Portuguese and English.

PA2200C ✿⚡💧

Horizontal mounting
• Recommended installation height 2,2 m
• Lengths: 1, 1,5 and 2 m
• Remote control and integrated regulation.

✿ Ambient, no heat - PA2200C A (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
8051	**PA2210CA**	0	900/1200	67	42/51	230V~	1050x210x345
8220	**PA2215CA**	0	1150/1800	67	40/52	230V~	1560x210x345
8659	**PA2220CA**	0	1800/2400	68	43/53	230V~	2050x210x345

⚡ Electrical heat - PA2200C E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
8040	**PA2210CE03**	2/3	900/1200	67	42/51	230V~	1050x210x345
8042	**PA2210CE05**	3,3/5	900/1200	67	42/51	400V3~	1050x210x345
19422	**PA2210CE08**	5/8	900/1200	67	42/51	400V3~	1050x210x345
8158	**PA2215CE08**	4/8	1150/1800	67	40/52	400V3~	1560x210x345
8668	**PA2215CE12**	8/12	1150/1800	67	40/52	400V3~	1560x210x345
8454	**PA2220CE10**	5/10	1800/2400	69	43/53	400V3~	2050x210x345
8749	**PA2220CE16**	10/16	1800/2400	69	43/53	400V3~	2050x210x345

💧 Water heat - PA2200C W (IP21)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
8052	**PA2210CW**	7	700/1200	67	39/52	0,38	1050x210x345
8222	**PA2215CW**	11	1000/1750	68	37/53	0,81	1560x210x345
8660	**PA2220CW**	14	1400/2400	68	40/53	0,74	2050x210x345

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.

PAMLK

PA2PF PA34TR PA2P

PA2EF

PAWAK15

FHDN15

PA2DR

VLSP

VOT
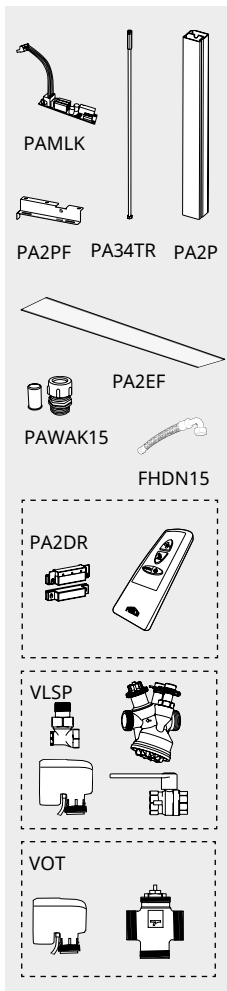
Art.nr	Type	Description	PA2210C	PA2215C	PA2220C
Accessories					
19415	**PA2PF15**	Ceiling mounting brackets (4 pcs)	•	•	
19417	**PA2PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•
18690	**PAMLK**	Motor alarm board	•	•	•
14875	**PA2EF10**	External intake filter	•		
14876	**PA2EF15**	External intake filter		•	
14877	**PA2EF20**	External intake filter			•
27279	**PAWAK15**	Water connection kit DN15	•	•	•
77179	**FHDN15**	Flexible hoses DN15 (2 pcs)	•	•	•
Control					
15662	**PA2DR**	Door switch control			
Water control					
79379	**VLSP15LF**	Pressure independent valve system on/off DN15 , low flow			
79380	**VLSP15NF**	Pressure independent valve system on/off DN15			
79381	**VLSP20**	Pressure independent valve system on/off DN20			
79382	**VLSP25**	Pressure independent valve system on/off DN25			
19031	**VOT15**	Three way control valve and actuator on/off DN15 Kvs 1,7			
19032	**VOT20**	Three way control valve and actuator on/off DN20 Kvs 2,5			
19033	**VOT25**	Three way control valve and actuator on/off DN25 Kvs 4,5			

PA3200C ✿⚡⬤

Horizontal mounting
• Recommended installation height 3,2 m
• Lengths: 1, 1,5 and 2 m
• Remote control and integrated regulation.

✿ Ambient, no heat - PA3200C A (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
19802	**PA3210CA**	0	1100/1750	73	46/57	230V~	1068x256x458
19805	**PA3215CA**	0	1700/2750	74	46/59	230V~	1578x256x458
19808	**PA3220CA**	0	2300/3500	75	50/60	230V~	2068x256x458

### ⚡ Electrical heat - PA3200C E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
19801	**PA3210CE08**	5/8	1100/1750	72	46/57	400V3~	1068x256x458
19804	**PA3215CE12**	8/12	1700/2750	75	46/59	400V3~	1578x256x458
19807	**PA3220CE16**	10/16	2300/3500	76	50/60	400V3~	2068x256x458

⬤ Water heat - PA3200C W (IP21)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
19809	**PA3210CW**	8	1050/1700	70	45/55	1,3	1068x256x458
19810	**PA3215CW**	14	1850/2700	73	46/57	2,1	1578x256x458
19811	**PA3220CW**	18	2200/3300	74	49/58	2,7	2068x256x458

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

PAMLK

PA3PF PA34TR PA2P

PA3EF

FHDN

PA2DR

VLSP

VOT
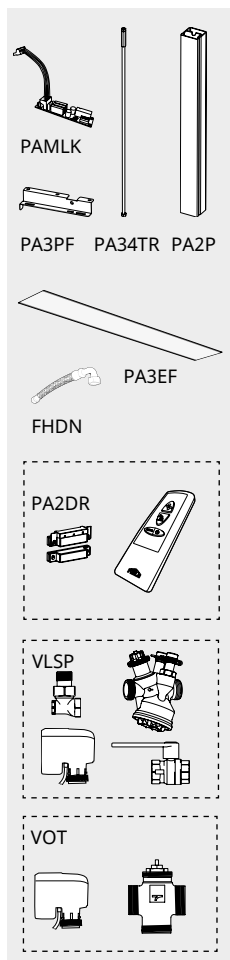
Art.nr	Type	Description	PA3210C	PA3215C	PA3220C
Accessories					
25256	**PA3PF15**	Ceiling mounting brackets (4 pcs)	•	•	
25257	**PA3PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•
18690	**PAMLK**	Motor alarm board	•	•	•
18746	**PA3EF10**	External intake filter	•		
18747	**PA3EF15**	External intake filter		•	
18748	**PA3EF20**	External intake filter			•
18055	**FHDN20**	Flexible hoses DN20 350 mm (2 pcs)	•	•	•
88906	**FHDN2010**	Flexible hoses DN20 1 m (2 pcs)	•	•	•
Control					
15662	**PA2DR**	Door switch control			
Water control					
79379	**VLSP15LF**	Pressure independent valve system on/off DN15 , low flow			
79380	**VLSP15NF**	Pressure independent valve system on/off DN15			
79381	**VLSP20**	Pressure independent valve system on/off DN20			
79382	**VLSP25**	Pressure independent valve system on/off DN25			
19031	**VOT15**	Three way control valve and actuator on/off DN15 Kvs 1,7			
19032	**VOT20**	Three way control valve and actuator on/off DN20 Kvs 2,5			
19033	**VOT25**	Three way control valve and actuator on/off DN25 Kvs 4,5			

AR3200C ✿⚡⬤

Recessed mounting
• Recommended installation height AR3200CA/E: 3,2 m
• Recommended installation height AR3200CW: 2,8 m
• Lengths: 1, 1,5 and 2 m

✿ Ambient, no heat - AR3200C A (IP21)

| Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
48350	**AR3210CA**	0	1000/1800	73	43/57	230V~	1078x256x525
48354	**AR3215CA**	0	1600/2900	73	43/57	230V~	1588x256x525
48358	**AR3220CA**	0	2100/3900	76	44/60	230V~	2078x256x525

⚡ Electrical heat - AR3200C E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage [V]	LxHxD [mm]
48346	**AR3210CE03**	2/3	1000/1800	73	43/57	230V~	1078x256x525
48347	**AR3210CE05**	3,3/5	1000/1800	73	43/57	230V~/400V3N~	1078x256x525
48348	**AR3210CE08**	5/8	1000/1800	73	43/57	400V3N~	1078x256x525
48351	**AR3215CE08**	4/8	1600/2900	73	43/57	400V3N~	1588x256x525
48352	**AR3215CE12**	8/12	1600/2900	73	43/57	400V3N~	1588x256x525
48355	**AR3220CE10**	5/10	2100/3900	76	44/60	400V3N~	2078x256x525
48356	**AR3220CE16**	10/16	2100/3900	76	44/60	400V3N~	2078x256x525

⬤ Water heat - AR3200C W (IP21)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
48349	**AR3210CW**	8,2	1000/1500	69	44/53	1,1	1078x256x525
48353	**AR3215CW**	14	1700/2600	72	48/56	1,7	1588x256x525
48357	**AR3220CW**	18	2500/3150	72	50/56	2,3	2078x256x525

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.
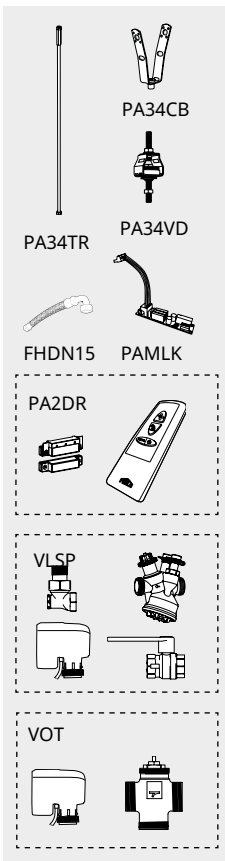
Art.nr	Type	Description	AR3210C	AR3215C	AR3220C
Accessories					
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
18059	**PA34CB15**	Ceiling brackets (4 pcs)	•	•	
18060	**PA34CB20**	Ceiling brackets (6 pcs)			•
18065	**PA34VD15**	Vibration dampers (4 pcs)	•	•	
18066	**PA34VD20**	Vibration dampers (6 pcs)			•
18690	**PAMLK**	Motor alarm board	•	•	•
77179	**FHDN15**	Flexible hoses DN15 (2 pcs)	•	•	•
Controls					
15662	**PA2DR**	Door switch control			
Water control					
79379	**VLSP15LF**	Pressure independent valve system on/off DN15 , low flow			
79380	**VLSP15NF**	Pressure independent valve system on/off DN15			
79381	**VLSP20**	Pressure independent valve system on/off DN20			
79382	**VLSP25**	Pressure independent valve system on/off DN25			
79417	**VLSP32**	Pressure independent valve system on/off DN32			
19031	**VOT15**	Three way control valve and actuator on/off DN15 Kvs 1,7			
19032	**VOT20**	Three way control valve and actuator on/off DN20 Kvs 2,5			
19033	**VOT25**	Three way control valve and actuator on/off DN25 Kvs 4,5			

PA34CB
PA34TR
PA34VD
FHDN15
PAMLK
PA2DR
VLSP
VOT

Pamir 2500 ✿⚡💧

Horizontal mounting
• Recommended installation height 2,5 m
• Lengths: 1, 1,5 and 2 m

✿ Ambient, no heat - Pamir 2500 A (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
246826	**PAF2510A**	0	900/1300	70	43/53	1050x210x345
246830	**PAF2515A**	0	1250/2100	71	44/54	1560x210x345
246834	**PAF2520A**	0	1800/2600	72	44/55	2050x210x345

⚡ Electrical heat* - Pamir 2500 E (IP20)

| Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
246823	**PAF2510E05**	1,7/3,3/5,0	900/1450	68	42/51	400V3~	1050x210x345
246824	**PAF2510E08**	3,0/5,0/8,0	900/1450	68	42/51	400V3~	1050x210x345
246827	**PAF2515E08**	2,7/5,3/8,0	1400/2200	69	40/52	400V3~	1560x210x345
246828	**PAF2515E12**	4,0/8,0/12	1400/2200	69	40/52	400V3~	1560x210x345
246831	**PAF2520E10**	3,4/6,6/10	1800/2900	70	43/53	400V3~	2050x210x345
246832	**PAF2520E16**	6,0/10/16	1800/2900	70	43/53	400V3~	2050x210x345

*) Also available with 230V3~, contact Frico for more information.

💧 Water heat - Pamir 2500 W (IP21)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
246825	**PAF2510W**	4,7	900/1300	69	42/53	0,7	1050x210x345
246829	**PAF2515W**	9,2	1250/2100	70	41/54	1,1	1560x210x345
246833	**PAF2520W**	11	1800/2600	71	43/55	1,4	2050x210x345

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

Pamir 2500 A and W are approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.
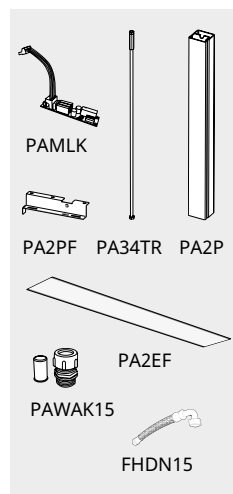
Accessories

Art.nr	Type	Description	PAF2510	PAF2515	PAF2520
19415	**PA2PF15**	Ceiling mounting brackets (4 pcs)	•	•	
19417	**PA2PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•
18690	**PAMLK**	Motor alarm board	•	•	•
14875	**PA2EF10**	External intake filter	•		
14876	**PA2EF15**	External intake filter		•	
14877	**PA2EF20**	External intake filter			•
27279	**PAWAK15**	Water connection kit DN15	•	•	•
77179	**FHDN15**	Flexible hoses DN15 (2 pcs)	•	•	•

PAMLK
PA2PF   PA34TR   PA2P
PA2EF
PAWAK15
FHDN15

Controls Pamir 2500

FC Direct

Entry level

- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +

- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +

- Automatic air flow control
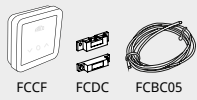- Automatic heat blocking

FC Building – BMS

FC Direct +

- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values

* Requires outdoor temp signal

FCDA - FC Direct

FCCF   FCDC   FCBC05

Controls

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

VPFC

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

FCLAP

FCBC10

FCRTX

FCSC10

FCOTX

FCSC10

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

Please contact us to assemble a package suited to your specific needs.

Pamir 3500 ✿⚡◉

Horizontal mounting
• Recommended installation height 3,5 m
• Lengths: 1, 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

Vertical mounting
• Recommended installation width 5 m
  (2 units, one on each side)
• Lengths: 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

✿ Ambient, no heat - Pamir 3500 A (IP24**)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
189577	**PAFEC3510A**	0	900/1800	75	44/60	1039x270x525
189581	**PAFEC3515A**	0	1400/2700	78	46/63	1549x270x525
189585	**PAFEC3520A**	0	1900/3500	79	47/64	2039x270x525
189589	**PAFEC3525A**	0	2350/4400	80	47/65	2549x270x525

⚡ Electrical heat - Pamir 3500 E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
189576	**PAFEC3510E08**	2,7/5,4/8,1	900/1800	76	44/60	400V3~	1039x270x525
189580	**PAFEC3515E12**	3,9/7,8/12	1400/2700	79	46/63	400V3~	1549x270x525
189584	**PAFEC3520E16**	5,4/11/16	1900/3500	80	47/64	400V3~	2039x270x525
189588	**PAFEC3525E20**	6,6/13/20	2350/4400	81	47/65	400V3~	2549x270x525

◉ Water heat - Pamir 3500 WL (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
189579	**PAFEC3510WL**	11	850/1700	75	42/59	1,5	1039x270x525
189583	**PAFEC3515WL**	18	1350/2600	77	45/61	2,4	1549x270x525
189587	**PAFEC3520WL**	24	1800/3400	78	45/62	3,2	2039x270x525
189591	**PAFEC3525WL**	31	2250/4300	80	47/64	4,0	2549x270x525

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

◉ Water heat - Pamir 3500 WH (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
189578	**PAFEC3510WH**	9,9	850/1700	75	42/59	1,1	1039x270x525
189582	**PAFEC3515WH**	15	1350/2600	77	45/61	1,6	1549x270x525
189586	**PAFEC3520WH**	21	1800/3400	78	45/62	2,2	2039x270x525
189590	**PAFEC3525WH**	26	2250/4300	80	47/64	2,7	2549x270x525

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

◉ Water heat - Pamir 3500 WLL (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
189594	**PAFEC3510WLL**	6,8	800/1600	74	42/58	2,0	1039x270x525
189592	**PAFEC3515WLL**	10	1250/2500	76	44/60	4,1	1549x270x525
189593	**PAFEC3520WLL**	15	1700/3300	77	44/61	5,6	2039x270x525
189595	**PAFEC3525WLL**	19	2100/4200	79	46/63	8,3	2549x270x525

*) Applicable at water temperature 40/30 °C, air temperature, in +18 °C.

**) Horizontal mounting and vertical mounting to the right (seen from the inside): IP24.
   Vertical mounting to the left (seen from the inside): IP21.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Controls Pamir 3500

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
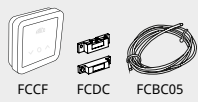- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values

* Requires outdoor temp signal

FCDA - FC Direct

FCCF FCDC FCBC05

FCSA - FC Smart

FCCF FCDC FCBC10 FCLAP

FCPA - FC Pro

FCCF FCDC FCBC10 FCLAP FCTXRF

FCBA - FC Building

FCCF FCDC FCBC10 FCBA

VPFC

FCLAP

FCBC10

FCRTX

FCSC10

FCOTX

FCSC10

FCDC FCTXRF

FCBC/FCSC FCWTA

Controls

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

Please contact us to assemble a package suited to your specific needs.

Accessories Pamir 3500

	Art.nr	Type	Description	PAFEC 3510	PAFEC 3515	PAFEC 3520	PAFEC 3525
Horizontal mounting							
	18044	**PA34WB15**	Wall brackets 400 mm (2 pcs)	•	•		
	18045	**PA34WB20**	Wall brackets 400 mm (3 pcs)			•	
	18046	**PA34WB30**	Wall brackets 400 mm (4 pcs)				•
	214951	**PAWBL15**	Wall brackets 560 mm (2 pcs)	•	•		
	214952	**PAWBL20**	Wall brackets 560 mm (3 pcs)			•	
	214953	**PAWBL30**	Wall brackets 560 mm (4 pcs)				•
	18059	**PA34CB15**	Ceiling brackets (4 pcs)	•	•		
	18060	**PA34CB20**	Ceiling brackets (6 pcs)			•	
	18061	**PA34CB30**	Ceiling brackets (8 pcs)				•
	18062	**PA34WS15**	Wire suspension kit (4 pcs)	•	•		
	18063	**PA34WS20**	Wire suspension kit (6 pcs)			•	
	18064	**PA34WS30**	Wire suspension kit (8 pcs)				•
	18056	**PA34TR15**	Threaded bars (4 pcs)	•	•		
	18057	**PA34TR20**	Threaded bars (6 pcs)			•	
	18058	**PA34TR30**	Threaded bars (8 pcs)				•
	18065	**PA34VD15**	Vibration dampers (4 pcs)	•	•		
	18066	**PA34VD20**	Vibration dampers (6 pcs)			•	
	18067	**PA34VD30**	Vibration dampers (8 pcs)				•
	110759	**PA3JK**	Joining kit	•	•	•	•
Outlet extension for recessed installation							
	19085	**PA3XT10**	130-200 mm	•			
	19086	**PA3XT15**	130-200 mm		•		
	19087	**PA3XT20**	130-200 mm			•	
	19088	**PA3XT25**	130-200 mm				•
Vertical mounting							
	110759	**PA3JK**	Vertikal kit	•	•	•	•
	10028	**AXP300**	Collision protection	•	•	•	•
Design kit for wall mounting							
	110834	**PA3DW10**		•			
	110835	**PA3DW15**			•		
	110836	**PA3DW20**				•	
	110837	**PA3DW25**					•
Design kit for ceiling mounting							
	13552	**PA3DCS**	200-300 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
	13553	**PA3DCM**	300-500 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
	13555	**PA3DCL**	500-900 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
	13556	**PA3DXT**	Extension, 420 mm (1 pcs)	•	•	•	•
Design kit for vertical mounting							
	110751	**PA3VDW15**			•		
	110752	**PA3VDW20**				•	
	110753	**PA3VDW25**					•
Unit with water heating							
	19064	**PA34EF10**	External intake filter	•			
	19065	**PA34EF15**	External intake filter		•		
	19066	**PA34EF20**	External intake filter			•	
	19067	**PA34EF25**	External intake filter				•
	18055	**FHDN20**	Flexible hoses DN20 350 mm (2 pcs)	•	•	•	•
	88906	**FHDN2010**	Flexible hoses DN20 1 m (2 pcs)	•	•	•	•
	17597	**DTV200S**	Filter pressure guard	•	•	•	•

Left column image labels:

PA34WB/PAWBL

PA34CB

PA34TR

PA34WS   PA34VD

PA3JK

PA3XT

PA3JK

AXP300

PA3DW

PA3DC

PA3VDW

PA34EF

DTV200S

FHDN

Pamir 4200 ❄⚡💧

Horizontal mounting
• Recommended installation height 4,2 m
• Lengths: 1, 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

Vertical mounting
• Recommended installation width 6 m
  (2 units, one on each side)
• Lengths: 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

❄ Ambient, no heat - Pamir 4200 A (IP24**)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
230355	PAFEC4210A	0	1200/2400	78	46/62	1039x295x611
230360	PAFEC4215A	0	1800/3500	79	47/64	1549x295x611
230365	PAFEC4220A	0	2300/4700	81	48/65	2039x295x611
230370	PAFEC4225A	0	3100/6150	83	50/67	2549x295x611

⚡ Electrical heat - Pamir 4200 E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
230356	PAFEC4210E12	3,9/7,8/12	1200/2400	78	46/62	400V3~	1039x295x611
230361	PAFEC4215E18	6,0/12/18	1800/3500	80	47/64	400V3~	1549x295x611
230366	PAFEC4220E24	7,8/16/24	2300/4700	81	48/65	400V3~	2039x295x611
230371	PAFEC4225E30	9,9/20/30	3100/6150	83	50/67	400V3~	2549x295x611

💧 Water heat - Pamir 4200 WL (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230358	PAFEC4210WL	15	1100/2300	78	45/62	1,9	1039x295x611
230363	PAFEC4215WL	23	1700/3400	80	46/64	3,0	1549x295x611
230368	PAFEC4220WL	32	2200/4600	81	47/65	4,1	2039x295x611
230373	PAFEC4225WL	41	2800/5750	83	49/67	5,2	2549x295x611

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

💧 Water heat - Pamir 4200 WH (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230357	PAFEC4210WH	13	1100/2300	78	45/62	1,3	1039x295x611
230362	PAFEC4215WH	19	1700/3400	80	46/64	2,0	1549x295x611
230367	PAFEC4220WH	27	2200/4600	81	47/65	2,7	2039x295x611
230372	PAFEC4225WH	33	2800/5750	83	49/67	3,8	2549x295x611

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

💧 Water heat - Pamir 4200 WLL (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230359	PAFEC4210WLL	9,3	1000/2200	77	45/61	2,5	1039x295x611
230364	PAFEC4215WLL	14	1600/3300	79	46/63	4,7	1549x295x611
230369	PAFEC4220WLL	19	2100/4450	80	46/64	7,5	2039x295x611
230374	PAFEC4225WLL	24	2700/5600	82	48/66	9,6	2549x295x611

*) Applicable at water temperature 40/30 °C, air temperature, in +18 °C.

**) Horizontal mounting and vertical mounting to the right (seen from the inside): IP24.
    Vertical mounting to the left (seen from the inside): IP21.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Pamir 5000 ✿⚡💧

Horizontal mounting
• Recommended installation height 5 m
• Lengths: 1, 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

Vertical mounting
• Recommended installation width 7 m
  (2 units, one on each side)
• Lengths: 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

✿ Ambient, no heat - Pamir 5000 A (IP24**)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
230375	**PAFEC5010A**	0	900/2950	80	34/66	1039x295x611
230379	**PAFEC5015A**	0	1350/4200	84	35/68	1549x295x611
230383	**PAFEC5020A**	0	1700/5900	86	39/70	2039x295x611
230387	**PAFEC5025A**	0	2150/7200	87	41/71	2549x295x611

⚡ Electrical heat - Pamir 5000 E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
230376	**PAFEC5010E12**	3,9/7,8/12	900/2950	80	34/66	400V3~	1039x295x611
230380	**PAFEC5015E18**	6,0/12/18	1350/4200	84	35/68	400V3~	1549x295x611
230384	**PAFEC5020E24**	7,8/16/24	1700/5900	86	39/70	400V3~	2039x295x611
230388	**PAFEC5025E30**	9,9/20/30	2150/7200	87	41/71	400V3~	2549x295x611

💧 Water heat - Pamir 5000 WL (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230378	**PAFEC5010WL**	17	650/2700	82	32/66	1,9	1039x295x611
230382	**PAFEC5015WL**	26	1150/3950	82	33/66	3,0	1549x295x611
230386	**PAFEC5020WL**	35	1550/5400	83	35/67	4,1	2039x295x611
230390	**PAFEC5025WL**	46	1850/6900	85	37/69	5,2	2549x295x611

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

💧 Water heat - Pamir 5000 WH (IP24**)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230377	**PAFEC5010WH**	14	650/2700	82	32/66	1,3	1039x295x611
230381	**PAFEC5015WH**	21	1150/3950	82	33/66	2,0	1549x295x611
230385	**PAFEC5020WH**	30	1550/5400	83	35/67	2,7	2039x295x611
230389	**PAFEC5025WH**	37	1850/6900	85	37/69	3,8	2549x295x611

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

**) Horizontal mounting and vertical mounting to the right (seen from the inside): IP24.
    Vertical mounting to the left (seen from the inside): IP21.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Controls Pamir 4200/Pamir 5000

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
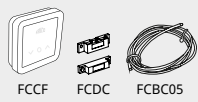- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values

* Requires outdoor temp signal

FCDA - FC Direct

FCCF   FCDC   FCBC05

Controls

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

VPFC

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

FCLAP

FCBC10

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

FCRTX

FCSC10

FCOTX

FCSC10

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Please contact us to assemble a package suited to your specific needs.
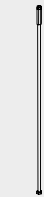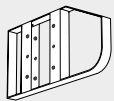
Accessories Pamir 4200/Pamir 5000
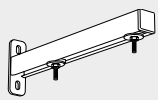
PA34WB/
PAWBL

PA34CB

PA34TR
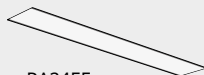
PA34WS   PA34VD
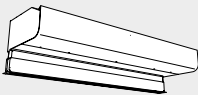
PA4JK

PA4XT

PA4JK

AXP300

PA4DW
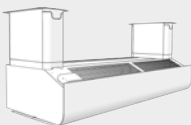
PA4DC

PA4VDW

PA34EF

DTV200S

FHDN

Art.nr	Type	Description	PAFEC 42/5010	PAFEC 42/5015	PAFEC 42/5020	PAFEC 42/5025
Horizontal mounting						
18044	**PA34WB15**	Wall brackets 400 mm (2 pcs)	•	•		
18045	**PA34WB20**	Wall brackets 400 mm (3 pcs)			•	
18046	**PA34WB30**	Wall brackets 400 mm (4 pcs)				•
214951	**PAWBL15**	Wall brackets 560 mm (2 pcs)	•	•		
214952	**PAWBL20**	Wall brackets 560 mm (3 pcs)			•	
214953	**PAWBL30**	Wall brackets 560 mm (4 pcs)				•
18059	**PA34CB15**	Ceiling brackets (4 pcs)	•	•		
18060	**PA34CB20**	Ceiling brackets (6 pcs)			•	
18061	**PA34CB30**	Ceiling brackets (8 pcs)				•
18062	**PA34WS15**	Wire suspension kit (4 pcs)	•	•		
18063	**PA34WS20**	Wire suspension kit (6 pcs)			•	
18064	**PA34WS30**	Wire suspension kit (8 pcs)				•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•		
18057	**PA34TR20**	Threaded bars (6 pcs)			•	
18058	**PA34TR30**	Threaded bars (8 pcs)				•
18065	**PA34VD15**	Vibration dampers (4 pcs)	•	•		
18066	**PA34VD20**	Vibration dampers (6 pcs)			•	
18067	**PA34VD30**	Vibration dampers (8 pcs)				•
110760	**PA4JK**	Joining kit	•	•	•	•
Outlet extension for recessed installation						
19090	**PA4XT10**	130-200 mm	•			
19091	**PA4XT15**	130-200 mm		•		
19092	**PA4XT20**	130-200 mm			•	
19093	**PA4XT25**	130-200 mm				•
Vertical mounting						
110760	**PA4JK**	Vertikal kit	•	•	•	•
10028	**AXP300**	Collision protection	•	•	•	•
Design kit for wall mounting						
110838	**PA4DW10**		•			
110839	**PA4DW15**			•		
110840	**PA4DW20**				•	
110841	**PA4DW25**					•
Design kit for ceiling mounting						
13557	**PA4DCS**	200-300 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
13559	**PA4DCM**	300-500 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
13560	**PA4DCL**	500-900 mm (1 pcs)	(2 pcs)	(2 pcs)	(3 pcs)	(4 pcs)
13561	**PA4DXT**	Extension, 420 mm (1 pcs)	•	•	•	•
Design kit for vertical mounting						
110754	**PA4VDW15**			•		
110755	**PA4VDW20**				•	
110756	**PA4VDW25**					•
Unit with water heating						
19064	**PA34EF10**	External intake filter	•			
19065	**PA34EF15**	External intake filter		•		
19066	**PA34EF20**	External intake filter			•	
19067	**PA34EF25**	External intake filter				•
18055	**FHDN20**	Flexible hoses DN20 350 mm (2 pcs)	•	•	•	•
88906	**FHDN2010**	Flexible hoses DN20 1 m (2 pcs)	•	•	•	•
17597	**DTV200S**	Filter pressure guard	•	•	•	•

Sierra ✿⚡💧

Horizontal mounting
• Recommended installation height 3,5 m
• Lengths: 1, 1,5, 2 and 2,5 m
• EC motor and stepless airflow control

Vertical mounting
• Recommended installation width 5 m
  (2 units, one on each side)
• Lengths: 2 and 2,5 m
• EC motor and stepless airflow control

✿ Ambient, no heat - Sierra A (IP20)

Type	Output	Airflow	Sound power	Sound pressure	LxHxD H*¹	V*²
	[kW]	[m³/h]	[dB(A)]	[dB(A)]	[mm]	[mm]
SIFEC10A-H	0	900/1850	77	46/61	1124x393x363	
SIFEC15A-H	0	1400/2750	79	48/63	1624x393x363	
SIFEC20A-H/V	0	1850/3600	82	48/66	2124x393x363	2108x393x363
SIFEC25A-H/V	0	2400/4500	83	49/67	2624x393x363	2608x393x363

*¹) Horizontal mounting
*²) Vertical mounting

⚡ Electrical heat - Sierra E (IP20)

Type	Output steps	Airflow	Sound power	Sound pressure	Voltage heat	LxHxD H*¹	V*²
	[kW]	[m³/h]	[dB(A)]	[dB(A)]	[V]	[mm]	[mm]
SIFEC10E8-H	2,7/5,4/8,1	900/1850	77	46/61	400V3~	1124x393x363	
SIFEC15E12-H	3,9/7,8/12	1400/2750	79	48/63	400V3~	1624x393x363	
SIFEC20E16-H/V	5,4/11/16	1850/3600	82	48/66	400V3~	2124x393x363	2108x393x363
SIFEC25E20-H/V	6,6/13/20	2400/4500	83	49/67	400V3~	2624x393x363	2608x393x363

*¹) Horizontal mounting
*²) Vertical mounting

💧 Water heat - Sierra WL (IP20)

Type	Output*³ H*¹	V*²	Airflow	Sound power	Sound pressure	Water volume	LxHxD H*¹	V*²
	[kW]	[kW]	[m³/h]	[dB(A)]	[dB(A)]	[l]	[mm]	[mm]
SIFEC10WL-H	8,5		850/1700	77	46/61	2,0	1124x393x363	
SIFEC15WL-H	14		1250/2600	79	48/63	3,2	1624x393x363	
SIFEC20WL-H/V	22	21	1650/3300	82	48/66	4,3	2124x393x363	2108x393x363
SIFEC25WL-H/V	28	25	2200/4250	83	49/67	5,4	2624x393x363	2608x393x363

*¹) Horizontal mounting
*²) Vertical mounting
*³) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

💧 Water heat - Sierra WH (IP20)

Type	Output*³ H*¹	V*²	Airflow	Sound power	Sound pressure	Water volume	LxHxD H*¹	V*²
	[kW]	[kW]	[m³/h]	[dB(A)]	[dB(A)]	[l]	[mm]	[mm]
SIFEC10WH-H	11		850/1700	77	46/61	1,1	1124x393x363	
SIFEC15WH-H	15		1250/2600	79	48/63	1,9	1624x393x363	
SIFEC20WH-H/V	20	28	1650/3300	82	48/66	2,5	2124x393x363	2108x393x363
SIFEC25WH-H/V	26	32	2200/4250	83	49/67	3,3	2624x393x363	2608x393x363

*¹) Horizontal mounting
*²) Vertical mounting
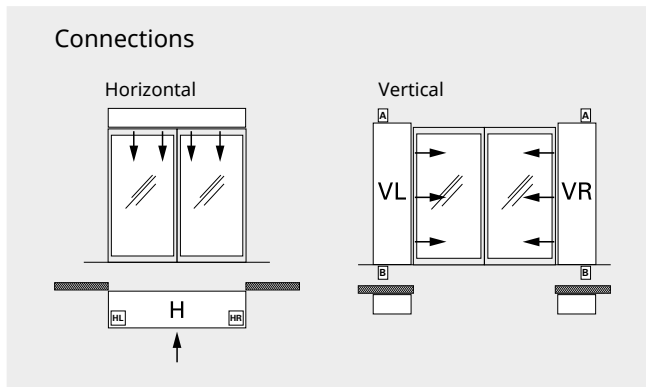*³) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Product key and accessories Sierra

Connections

Horizontal | Vertical

VL | VR

HL | H | HR

Product key Sierra

Type - Unit shape - Connections position - Material / Colour
Example: SIFEC20WL - VL - A - P

Type	See technical specifications
Unit shape	HL (Horizontal, connections on the left) HR (Horizontal, connections on the right) VL (Vertical left) or VR (Vertical right) seen from inside
Connection position	A or B, see sketch
Material/Colour	P = Polished stainless steel B = Brushed stainless steel MP = Mirror polished stainless steel State RAL code = Powder coating RAL State NCS code = Powder coating NCS

Accessories Sierra

SIFW PA34CB
PA34WS PA34TR
SIFEH PA34VD
FH1020 AXP300
FH1025
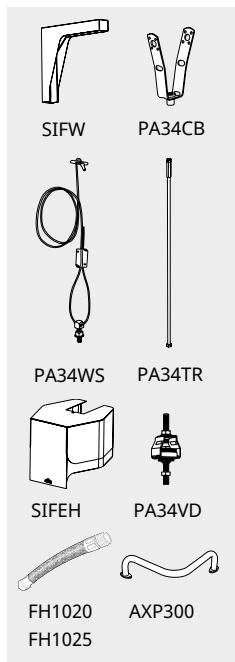
Art.nr	Type	Description
251886	**SIFWBB**	Wall bracket in brushed stainless steel
251887	**SIFWBP**	Wall bracket in polished stainless steel
251888	**SIFWBMP**	Wall bracket in mirror polished stainless steel
18059	**PA34CB15**	Ceiling brackets for SIFEC10/15-H (4 pcs)
18060	**PA34CB20**	Ceiling brackets for SIFEC20-H (6 pcs)
18061	**PA34CB30**	Ceiling brackets for SIFEC25-H (8 pcs)
18062	**PA34WS15**	Wire suspension kit for SIFEC10/15-H (4 pcs)
18063	**PA34WS20**	Wire suspension kit for SIFEC20-H (6 pcs)
18064	**PA34WS30**	Wire suspension kit for SIFEC25-H (8 pcs)
18056	**PA34TR15**	Threaded bars for SIFEC10/15-H (4 pcs)
18057	**PA34TR20**	Threaded bars for SIFEC20-H (6 pcs)
18058	**PA34TR30**	Threaded bars for SIFEC25-H (8 pcs)
18065	**PA34VD15**	Vibration dampers for SIFEC10/15-H (4 pcs)
18066	**PA34VD20**	Vibration dampers for SIFEC20-H (6 pcs)
18067	**PA34VD30**	Vibration dampers for SIFEC25-H (8 pcs)
FE10234	**SIFEH**	Extension hood for SIFEC20/25-V
10028	**AXP300**	Collision protection for SIFEC20/25-V
237568	**FH1020**	Flexible hoses, DN20, inside/outside thread, 1 m, for SIFECxxWL-H (2 pcs)
330955	**FH1025**	Flexible hoses, DN25, inside/outside thread, 1 m, for SIFECxxWL-V (2 pcs)

Sierra

Controls Sierra

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
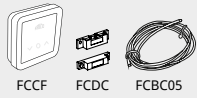- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values

* Requires outdoor temp signal

FCDA - FC Direct

FCCF   FCDC   FCBC05

Controls

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

VPFC

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

FCLAP

FCBC10

FCRTX

FCSC10

FCOTX

FCSC10

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Please contact us to assemble a package suited to your specific needs.

Arden 3500 ✿⚡💧

Recessed mounting
• Recommended installation height 3,5 m
• Lengths: 1, 1,5 and 2 m
• EC motor and stepless airflow control

✿ Ambient, no heat - Arden 3500 A (IP20)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
190544	ARFEC3510A	0	1000/1900	76	43/60	1057x302x646
190548	ARFEC3515A	0	1550/3000	78	44/62	1567x302x646
190552	ARFEC3520A	0	2250/3800	79	45/63	2073x302x646

⚡ Electrical heat - Arden 3500 E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
190545	ARFEC3510E09	4,5/9,0	1000/1900	76	43/60	400V3~	1057x302x646
190549	ARFEC3515E14	7,0/14	1550/3000	78	44/62	400V3~	1567x302x646
190553	ARFEC3520E18	9,0/18	2250/3800	79	45/63	400V3~	2073x302x646

💧 Water heat - Arden 3500 W (IP20)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
190546	ARFEC3510W	8,3	1000/1900	75	43/59	1,3	1057x302x646
190550	ARFEC3515W	12	1500/2800	76	43/60	2,1	1567x302x646
190554	ARFEC3520W	17	2100/3700	77	45/61	2,9	2073x302x646

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

💧 Water heat - Arden 3500 WLL (IP20)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
190547	ARFEC3510WLL	8,0	1000/1900	75	43/59	2,6	1057x302x646
190551	ARFEC3515WLL	12	1500/2800	76	43/60	4,2	1567x302x646
190555	ARFEC3520WLL	16	2100/3700	77	45/61	5,8	2073x302x646

*) Applicable at water temperature 40/30 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Accessories

PA34CB

PA34TR   PA34VD

FH1020   DTV200S

AR35XTT

Art.nr	Type	Description	ARFEC 3510	ARFEC 3515	ARFEC 3520
18056	PA34TR15	Threaded bars (4 pcs)	•	•	
18057	PA34TR20	Threaded bars (6 pcs)			•
18059	PA34CB15	Ceiling brackets (4 pcs)	•	•	
18060	PA34CB20	Ceiling brackets (6 pcs)			•
18065	PA34VD15	Vibration dampers (4 pcs)	•	•	
18066	PA34VD20	Vibration dampers (6 pcs)			•
237568	FH1020	Flexible hoses DN20 1 m (2 pcs)	•	•	•
17597	DTV200S	Filter pressure guard	•	•	•
19070	AR35XTT10	Outlet/inlet extension 130-210 mm	•		
19071	AR35XTT15	Outlet/inlet extension 130-210 mm		•	
19072	AR35XTT20	Outlet/inlet extension 130-210 mm			•

Arden 4200 ❄⚡💧

Recessed mounting
- Recommended installation height 4,2 m
- Lengths: 1, 1,5, 2 and 2,5 m
- EC motor and stepless airflow control

❄ Ambient, no heat - Arden 4200 A (IP20)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
230283	ARFEC4210A	0	1300/2500	74	41/58	1067x296x851
230287	ARFEC4215A	0	1950/3650	76	43/60	1577x296x851
230291	ARFEC4220A	0	2500/4900	78	44/62	2067x296x851
230295	ARFEC4225A	0	3200/6350	81	46/65	2579x296x851

⚡ Electrical heat - Arden 4200 E (IP20)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	LxHxD [mm]
230284	ARFEC4210E12	3,9/7,8/12	1300/2500	74	41/58	400V3~	1067x296x851
230288	ARFEC4215E18	6,0/12/18	1950/3650	76	43/60	400V3~	1577x296x851
230292	ARFEC4220E24	7,8/16/24	2500/4900	78	44/62	400V3~	2067x296x851
230296	ARFEC4225E30	9,9/20/30	3200/6350	81	46/65	400V3~	2579x296x851

💧 Water heat - Arden 4200 W (IP20)

| Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230285	ARFEC4210W	15	1200/2400	73	40/57	1,9	1067x296x851
230289	ARFEC4215W	23	1700/3400	75	42/59	3,0	1577x296x851
230293	ARFEC4220W	32	2300/4700	76	44/60	4,0	2067x296x851
230297	ARFEC4225W	41	2800/5750	79	46/63	5,1	2579x296x851

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

💧 Water heat - Arden 4200 WLL (IP20)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	LxHxD [mm]
230286	ARFEC4210WLL	9,6	1100/2300	72	40/56	3,1	1067x296x851
230290	ARFEC4215WLL	14	1600/3300	74	42/58	4,7	1577x296x851
230294	ARFEC4220WLL	19	2200/4600	75	43/59	7,5	2067x296x851
230298	ARFEC4225WLL	24	2700/5600	78	45/62	9,6	2579x296x851

*) Applicable at water temperature 40/30 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.
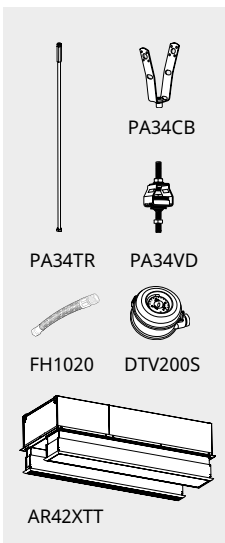
Accessories

Art.nr	Type	Description	ARFEC 4210	ARFEC 4215	ARFEC 4220	ARFEC 4225
18056	PA34TR15	Threaded bars (4 pcs)	•	•		
18057	PA34TR20	Threaded bars (6 pcs)			•	
18058	PA34TR30	Threaded bars (8 pcs)				•
18059	PA34CB15	Ceiling brackets (4 pcs)	•	•		
18060	PA34CB20	Ceiling brackets (6 pcs)			•	
18061	PA34CB30	Ceiling brackets (8 pcs)				•
18065	PA34VD15	Vibration dampers (4 pcs)	•	•		
18066	PA34VD20	Vibration dampers (6 pcs)			•	
18067	PA34VD30	Vibration dampers (8 pcs)				•
237568	FH1020	Flexible hoses DN20 1 m (2 pcs)	•	•	•	•
17597	DTV200S	Filter pressure guard	•	•	•	•
88060	AR42XTT10	Outlet/inlet extension 130-210 mm	•			
88061	AR42XTT15	Outlet/inlet extension 130-210 mm		•		
88062	AR42XTT20	Outlet/inlet extension 130-210 mm			•	
88063	AR42XTT25	Outlet/inlet extension 130-210 mm				•

PA34CB
PA34TR   PA34VD
FH1020   DTV200S
AR42XTT

Controls Arden 3500/Arden 4200

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
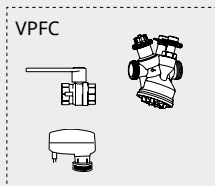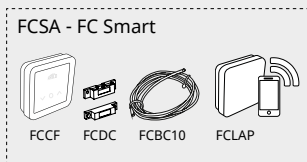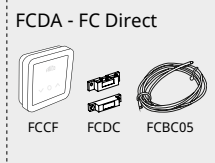- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
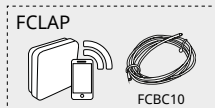- Read values

* Requires outdoor temp signal

FCDA - FC Direct

FCCF   FCDC   FCBC05

Controls

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

VPFC

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

FCLAP

FCBC10

FCRTX

FCSC10

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

FCOTX

FCSC10

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Please contact us to assemble a package suited to your specific needs.

PAEC2500 ✿

Horizontal mounting
- For cold rooms and entrances
- Recommended installation height for entrances: 2,5 m
- Installation height for cold storage: up to 4 m
- Lengths: 1, 1,5 and 2 m
- EC motor and stepless airflow control

✿ Ambient, no heat - PAEC2500 A (IP44)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
84620	**PAEC2510A**	0	1400	70	33/53	1050x210x345
84621	**PAEC2515A**	0	2100	72	37/55	1560x210x345
84622	**PAEC2520A**	0	2800	71	34/54	2050x210x345

Approved for 200-240V, 50/60Hz. Product performance for 60Hz will differ from stated data.

FCDC

PA2PF

PA34TR   PA2P
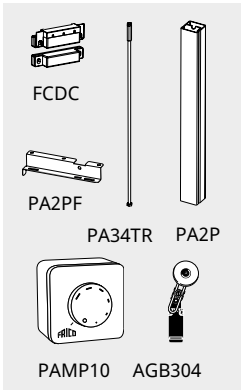
PAMP10   AGB304

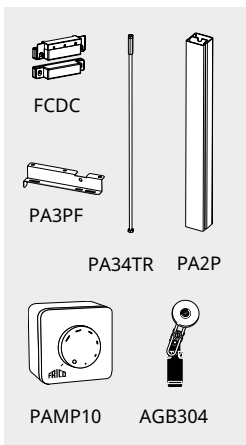| Art.nr	Type	Description	PAEC2510	PAEC2515	PAEC2520
Controls					
87675	**PAMP10**	External potentiometer	•	•	•
17495	**FCDC**	Door contact	•	•	•
10016	**AGB304**	Position limit switch, IP44	•	•	•
Accessories					
19415	**PA2PF15**	Ceiling mounting brackets (4 pcs)	•	•	
19417	**PA2PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•

PAEC3200 ✿

Horizontal mounting
- For cold rooms and entrances
- Recommended installation height for entrances: 3,2 m
- Installation height for cold storage: up to 5 m
- Lengths: 1, 1,5 and 2 m
- EC motor and stepless airflow control

✿ Ambient, no heat - PAEC3200 A (IP44)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
77517	**PAEC3210A**	0	1950	74	40/58	1068x256x458
77518	**PAEC3215A**	0	2700	74	39/58	1578x256x458
77519	**PAEC3220A**	0	3800	77	43/61	2068x256x458

Approved for 200-240V, 50/60Hz. Product performance for 60Hz will differ from stated data.

FCDC

PA3PF

PA34TR   PA2P

PAMP10   AGB304

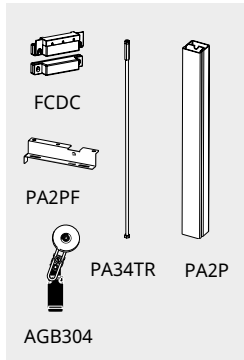| Art.nr	Type	Description	PAEC3210	PAEC3215	PAEC3220
Controls					
87675	**PAMP10**	External potentiometer	•	•	•
17495	**FCDC**	Door contact	•	•	•
10016	**AGB304**	Position limit switch, IP44	•	•	•
Accessories					
25256	**PA3PF15**	Ceiling mounting brackets (4 pcs)	•	•	
25257	**PA3PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•

PAECS ❀

Horizontal mounting
• For cold rooms
• Installation height for cold storage: up to 4 m
• Lengths: 1, 1,5 and 2 m
• EC motor and stepless airflow control

❀ Ambient, no heat - PAECS (IP44)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
154846	**PAECS10**	0	1450	77	44/62	1050x209x245
154847	**PAECS15**	0	2200	78	45/62	1560x209x245
154848	**PAECS20**	0	3100	83	51/67	2050x209x245

Approved for 200-240V, 50/60Hz. Product performance for 60Hz will differ from stated data.

| Art.nr	Type	Description	PAECS10	PAECS15	PAECS20
Controls					
17495	**FCDC**	Door contact	•	•	•
10016	**AGB304**	Position limit switch, IP44	•	•	•
Accessories					
19415	**PA2PF15**	Ceiling mounting brackets (4 pcs)	•	•	
19417	**PA2PF20**	Ceiling mounting brackets (6 pcs)			•
18056	**PA34TR15**	Threaded bars (4 pcs)	•	•	
18057	**PA34TR20**	Threaded bars (6 pcs)			•
19568	**PA2P15**	Hanging brackets (2 pcs)	•	•	
19569	**PA2P20**	Hanging brackets (3 pcs)			•

FCDC

PA2PF

PA34TR   PA2P

AGB304

ADA Cool ❀

Horizontal mounting
• For cold rooms
• Recommended installation height for entrances: 2,5 m
• Installation height for cold storage: up to 3 m
• Lengths: 0,9 and 1,2 m

❀ Ambient, no heat - ADA Cool (IP21)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	LxHxD [mm]
2348	**ADAC090**	0	1150	70	43/54	900x251x218
10775	**ADAC120**	0	1400	67	44/51	1200x251x218

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.
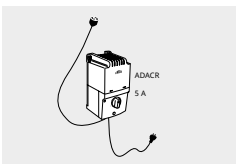
Controls

Art.nr	Type	Description
10774	**ADACR**	5-step fan speed control, max input: 5 A, IP30

ADACR
5 A

Scand ⚡💧

Vertical mounting
• For revolving doors
• Height: 2,2 m
• EC motor and stepless airflow control

⚡ Electrical heat - Scand E (IP20)

Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	HxWxD [mm]
SFFEC4E16	5,4/11/16	1850/3600	82	48/66	400V3~	2200x581x296
SFFEC6E24	7,8/16/24	2300/4700	83	50/67	400V3~	2200x581x296

💧 Water heat - Scand WL (IP20)

Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	HxWxD [mm]
SFFEC4WL	21	1650/3300	82	48/66	4,4	2200x581x296
SFFEC6WL	26	2200/4600	83	50/67	4,4	2200x581x296

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.
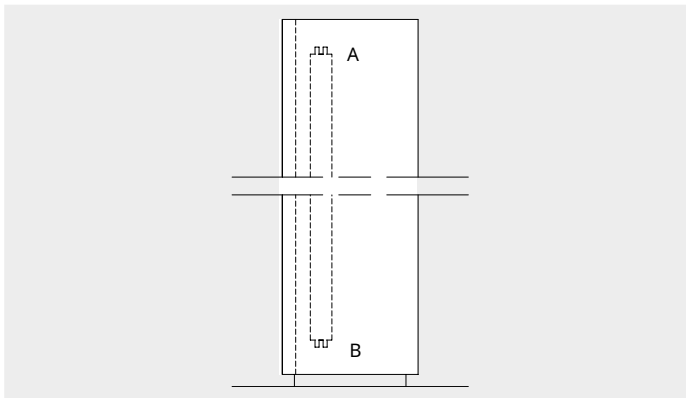
Product key Scand
Type - Connection position - Total height - Material / colour
Example: SFFEC6WL - A - 2800 - P

Type	See technical specifications
Connection position	A = from above B = from below
Total height	Min. height 2200 mm. Max height 3000 mm. Extension without fans.
Material/Colour	P = Polished stainless steel B = Brushed stainless steel MP = Mirror polished stainless steel State RAL code = Powder coating RAL State NCS code = Powder coating NCS

Ruwen ❄⚡💧

Horizontal mounting
- For revolving doors up to 3 meters
- Lengths: 1, 1,5, 2 and 2,5 m
- EC motor and stepless airflow control

❄ Ambient, no heat - Ruwen A (IP20)

Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Length [mm]
RDFEC10A	0	1200/2400	78	46/62	1060
RDFEC15A	0	1800/3500	80	47/64	1560
RDFEC20A	0	2300/4700	81	48/65	2060
RDFEC25A	0	3100/6150	83	50/67	2560

⚡ Electrical heat - Ruwen E (IP20)

Type	Output steps [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Voltage heat [V]	Length [mm]
RDFEC10E12	3,9/7,8/12	1200/2400	78	46/62	400V3~	1060
RDFEC15E18	6,0/12/18	1800/3500	80	47/64	400V3~	1560
RDFEC20E24	7,8/16/24	2300/4700	81	48/65	400V3~	2060
RDFEC25E30	9,9/20/30	3100/6150	83	50/67	400V3~	2560

💧 Water heat - Ruwen WL (IP20)

Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	Length [mm]
RDFEC10WL	10	1100/2300	78	45/62	2,2	1060
RDFEC15WL	16	1700/3400	80	46/64	3,4	1560
RDFEC20WL	23	2200/4600	81	47/65	4,5	2060
RDFEC25WL	30	2800/5750	83	49/67	5,7	2560

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Top view

Side view
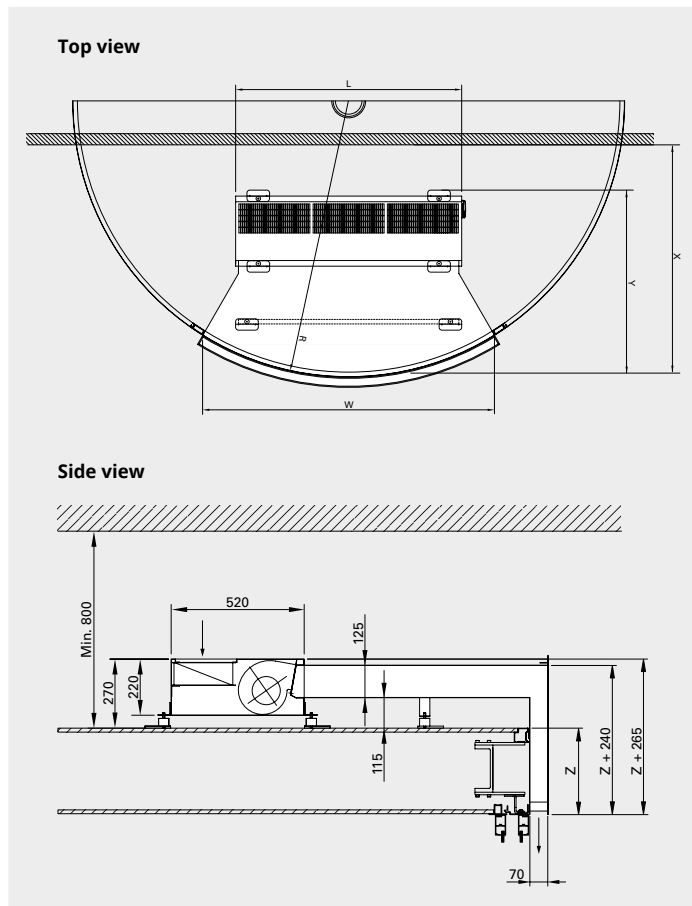
Product key Ruwen

Type - R - W - X - Z - Material / colour
Example: RDFEC20WL - 2500 - 2900 - 2350 - 500 - P

Type	See technical specifications
R	Radius of the revolving door
W	The opening width of the revolving door
X	Depth of the revolving door outside the wall
Z	The height between the inner ceiling of the revolving door (the position of the outlet of the duct) up to the outer roof of the revolving door (where the air curtain is mounted)
Material/Colour	P = Polished stainless steel B = Brushed stainless steel MP = Mirror polished stainless steel State RAL code = Powder coating RAL State NCS code = Powder coating NCS

Y is variable, depending on the other dimensions in the product key

Controls and accessories Scand/Ruwen

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
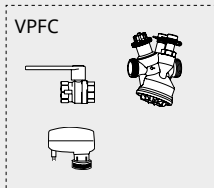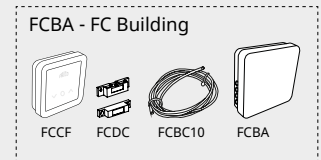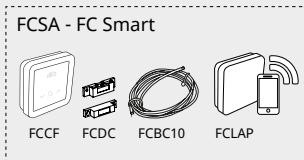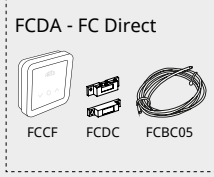- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values

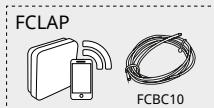** Requires outdoor temp signal*

Controls

FCDA - FC Direct

FCCF   FCDC   FCBC05

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

Valve systems for FC Control

VPFC

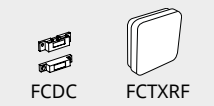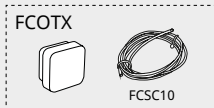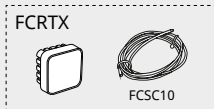| Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32

FCLAP

FCBC10

Accessories FC Control

FCRTX

FCSC10

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

FCOTX

FCSC10

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Please contact us to assemble a package suited to your specific needs.

Accessories Scand/Ruwen

SFSEH

FH1025

RDSB

Art.nr	Type	Description
FE10129	**SFSEH**	Extension hood for Scand 100-1000 mm
330955	**FH1025**	Flexible hose DN25 för Ruwen/Scand, inside/outside thread, length 1 m
FE10202	**RDSB**	Beam 40x80 mm for Ruwen, state length when ordering
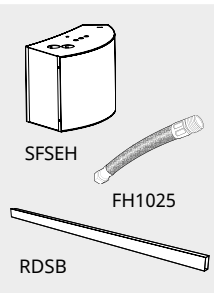
AGI6000 ❈ ●

Horizontal mounting
• Recommended installation height 6 m
• Lengths: 1,2, 1,8, 2,4 and 3 m.

Vertical mounting
• Recommended installation width 8 m
  (2 units, one on each side)
• Lengths: 1,2, 1,8, 2,4 and 3 m.

Horizontal mounting - Recommended installation height 6 m

❈ Ambient, no heat - AGIH6000 A (IP54)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Amperage motor [A]	LxHxD [mm]
11448	AGIH6012A	0	6600	85	69	2,0	1200x485x730
11449	AGIH6018A	0	9600	87	71	2,8	1800x485x730
11450	AGIH6024A	0	12600	88	72	3,7	2400x485x730
11451	AGIH6030A	0	15600	89	73	4,7	3000x485x730

● Water heat - AGIH6000 WH, (IP54)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	Amperage motor [A]	LxHxD [mm]
11440	AGIH6012WH	39	6600	85	69	4,6	2,0	1200x485x730
11441	AGIH6018WH	58	9600	87	71	7,0	2,8	1800x485x730
11442	AGIH6024WH	78	12600	88	72	9,5	3,7	2400x485x730
11443	AGIH6030WH	97	15600	89	73	12,0	4,7	3000x485x730

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

● Water heat - AGIH6000 WL, (IP54)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	Amperage motor [A]	LxHxD [mm]
11444	AGIH6012WL	33	6600	85	69	6,6	2,0	1200x485x730
11445	AGIH6018WL	46	9600	87	71	10,1	2,8	1800x485x730
11446	AGIH6024WL	61	12600	88	72	14,0	3,7	2400x485x730
11447	AGIH6030WL	77	15600	89	73	17,6	4,7	3000x485x730

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.

Vertical mounting - Recommended installation width 8 m

❈ Ambient, no heat - AGIV6000 A (IP54)

Art.nr	Type	Output [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Amperage motor [A]	LxHxD [mm]
11428	AGIV6012A	0	6600	85	69	2,0	1250x485x730
11429	AGIV6018A	0	9600	87	71	2,8	1850x485x730
11430	AGIV6024A	0	12600	88	72	3,7	2450x485x730
11431	AGIV6030A	0	15600	89	73	4,7	3050x485x730

● Water heat - AGIV6000 WH, (IP54)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	Amperage motor [A]	LxHxD [mm]
11432	AGIV6012WH	39	6600	85	69	4,6	2,0	1250x485x730
11434	AGIV6018WH	58	9600	87	71	7,0	2,8	1850x485x730
11436	AGIV6024WH	78	12600	88	72	9,5	3,7	2450x485x730
11438	AGIV6030WH	97	15600	89	73	12,0	4,7	3050x485x730

*) Applicable at water temperature 80/60 °C, air temperature, in +18 °C.

● Water heat - AGIV6000 WL, (IP54)

Art.nr	Type	Output* [kW]	Airflow [m³/h]	Sound power [dB(A)]	Sound pressure [dB(A)]	Water volume [l]	Amperage motor [A]	LxHxD [mm]
11433	AGIV6012WL	33	6600	85	69	6,6	2,0	1250x485x730
11435	AGIV6018WL	46	9600	87	71	10,1	2,8	1850x485x730
11437	AGIV6024WL	61	12600	88	72	14,0	3,7	2450x485x730
11439	AGIV6030WL	77	15600	89	73	17,6	4,7	3050x485x730

*) Applicable at water temperature 60/40 °C, air temperature, in +18 °C.
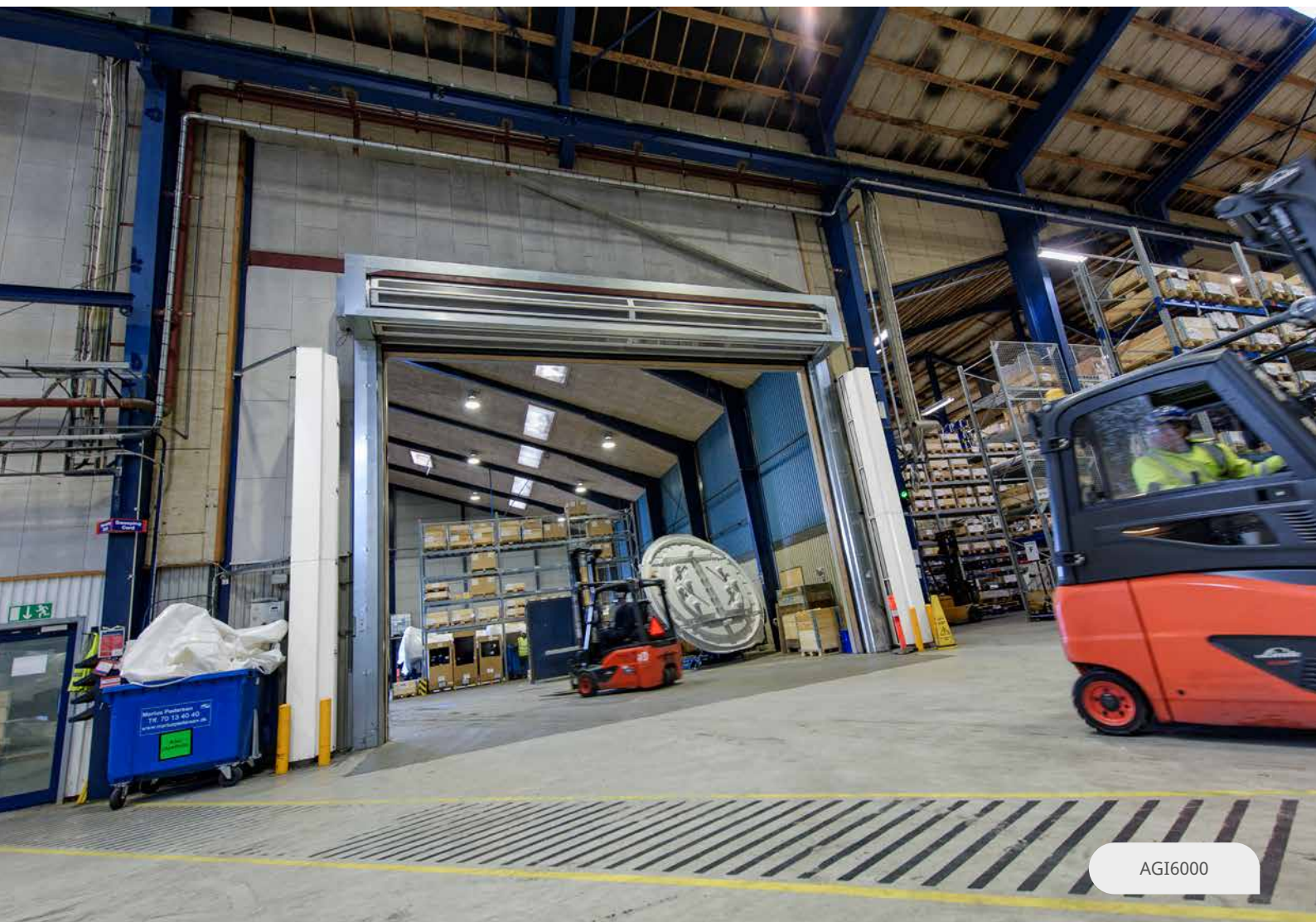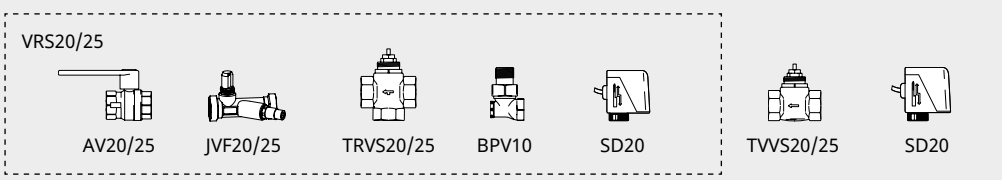
Approved for 380V/3ph/60Hz. Product performance for 380V/3ph/60Hz will differ from stated data.

Accessories and controls AGI6000
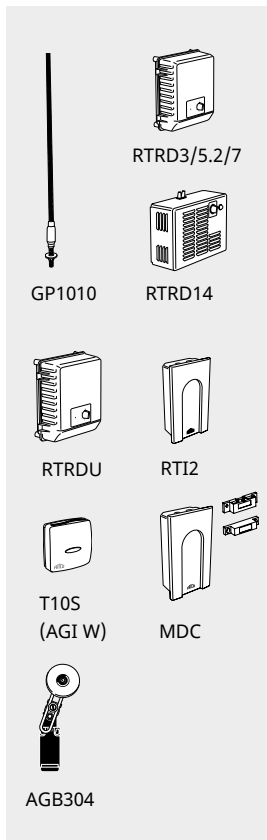
Art.nr	Type	Description
Accessories		
27423	**GP1010**	Threaded bar, 1m (1x)
Controls		
32594	**RTRD3**	5-step fan speed control, 3 A, IP54
32399	**RTRD5.2**	5-step fan speed control, 5,2 A, IP54
10068	**RTRD7**	5-step fan speed control, 7 A, IP21
10065	**RTRD14**	5-step fan speed control, 14 A, IP21
10071	**RTRDU7**	5-step fan speed control high/low speed, 7 A, IP21
24727	**T10S**	Electronic thermostat, IP30
10231	**RTI2**	Electronic 2-step room thermostat, IP44
11600	**MDC**	Magnetic door contact with time relay, IP44
10016	**AGB304**	Position limit switch, IP44
Water control		
24733	**VRS20**	Valve kit DN20
24734	**VRS25**	Valve kit DN25'
24729	**TVVS20**	2-way control valve DN20
24730	**TVVS25**	2-way control valve DN25
10073	**SD20**	Actuator on/off

GP1010   RTRD3/5.2/7   RTRD14   RTRDU   RTI2   T10S (AGI W)   MDC   AGB304

VRS20/25

AV20/25   JVF20/25   TRVS20/25   BPV10   SD20   TVVS20/25   SD20

AGI6000

UF600 �

UF600 with
motor silencer

Vertical mounting
• Air curtain with floor outlet for large industrial doorways
• The floor channel is cast in the floor.

✦ Ambient, no heat - UF600, indoor installation (IP54)

| Art.nr	Type	Output [kW]	Air velocity* [m/s]	Dimensions floor channel [mm]	Diameter fans [mm]
79840	**UF601 Indoor**	2x4	30	600x600	500
79841	**UF602 Indoor**	2x7,5	35	750x750	630
79842	**UF603 Indoor**	2x11	38	750x750	630
79843	**UF604 Indoor**	2x15	38	750x750	630
79844	**UF605 Indoor**	2x18,5	40	750x750	630

*) Depends on the design of the floor channel.

✦ Ambient, no heat - UF600, outdoor installation (IP54)

| Art.nr	Type	Output [kW]	Air velocity* [m/s]	Dimensions floor channel [mm]	Diameter fans [mm]
79845	**UF601 Outdoor**	2x4	30	600x600	500
79846	**UF602 Outdoor**	2x7,5	35	750x750	630
79847	**UF603 Outdoor**	2x11	38	750x750	630
79848	**UF604 Outdoor**	2x15	38	750x750	630
79849	**UF605 Outdoor**	2x18,5	40	750x750	630

*) Depends on the design of the floor channel.

Approved for 380V/3ph/60Hz. Product performance for 380V/3ph/60Hz will differ from stated data.

UFC600

AGB304

UFEH

UFS

UFMS
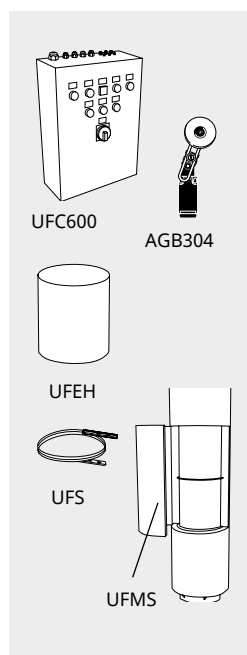
Art.nr	Type	Description
Controls		
935221	**UFC601**	Control box UF601
930934	**UFC602**	Control box UF602
935222	**UFC603**	Control box UF603
930961	**UFC604**	Control box UF604
935213	**UFC605**	Control box UF605
10016	**AGB304**	Position limit switch, IP44
Accessories		
95241	**UFEH05**	Pillar extension, Ø500 mm, length 500 mm, for UF601
95242	**UFEH10**	Pillar extension, Ø500 mm, length 1000 mm, for UF601
95243	**UFEH15**	Pillar extension, Ø500 mm, length 1500 mm, for UF601
95244	**UFEH20**	Pillar extension, Ø500 mm, length 2000 mm, for UF601
95245	**UFEH605**	Pillar extension, Ø630 mm, length 500 mm, for UF602-605
95246	**UFEH610**	Pillar extension, Ø630 mm, length 1000 mm, for UF602-605
95247	**UFEH615**	Pillar extension, Ø630 mm, length 1500 mm, for UF602-605
95248	**UFEH620**	Pillar extension, Ø630 mm, length 2000 mm, for UF602-605
84765	**UFMS750**	Motor silencer Ø750 mm, for UF601
84766	**UFMS900**	Motor silencer Ø900 mm, for UF602-605
84763	**UFS750**	Securing strip Ø750 mm, for UF601
84764	**UFS900**	Securing strip Ø900 mm, for UF602-605

Thermoplus EC/ECV/ECVTN ⚡
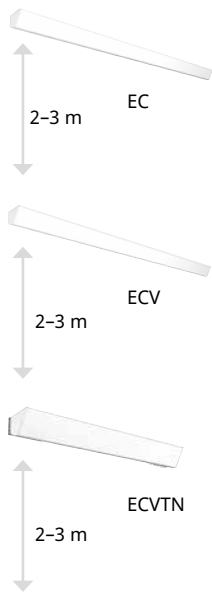
Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxHxD [mm]
Thermoplus EC for dry rooms (IP20)					
10029	**EC45021**	450	230V~	180	1076x100x90
10032	**EC60021**	600	230V~	180	1505x100x90
10035	**EC75021**	750	230V~	180	1810x100x90
10038	**EC90021**	900	230V~	180	2140x100x90
10039	**EC90031**	900	400V2~	180	2140x100x90
Thermoplus ECV for wet rooms (IP44)					
10041	**ECV30021**	300	230V~	180	870x100x90
10044	**ECV55021**	550	230V~	180	1505x100x90
10045	**ECV55031**	550	400V2~	180	1505x100x90
10049	**ECV70021**	700	230V~	180	1810x100x90
10050	**ECV70031**	700	400V2~	180	1810x100x90
Thermoplus ECVTN for wet rooms, with built-in control (IP44)					
153948	**ECVTN30021**	300	230V~	180	870x100x90
153949	**ECVTN55021**	550	230V~	180	1505x100x90
153956	**ECVTN70021**	700	230V~	180	1810x100x90
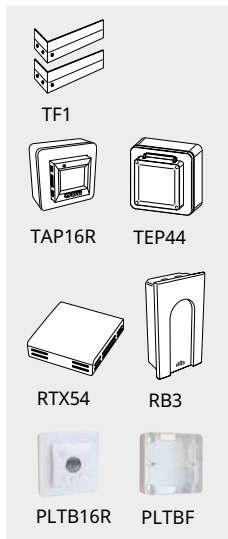
| Art.nr	Type	Description
Accessories		
10114	**TF1**	Fixture for ceiling mounting (2 pcs)
Controls		
92790	**TAP16R**	Electronic thermostat, 16A, IP21
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.
93044	**RTX54**	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54
276542	**PLTB16R**	Electronic thermostat, 16A, IP21
276543	**PLTBF**	Frame for wall mounting of PLTB16R
93012	**RB3**	Relaybox 400V3N~ (400V3~/V2~, 230V3~/V2~), 16A, IP44

Thermocassette CTS ⚡   New!

Thermocassette CTS, with 1,6 m cable (IP20). Built-in.

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxWxH [mm]
276621	**CTS3**	300	230V~	100	592x592x45
276622	**CTS6**	600	230V~	100	1192x592x45

Thermocassette HC ⚡   New!

HC3

HC6

< 3 m
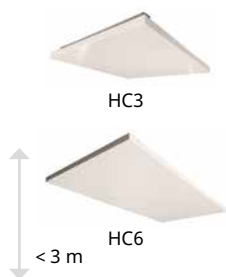
Thermocassette HC, with 1,6 m cable (IP44). Built-in or mounted with brackets.

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxWxH [mm]
276625	**HC3**	300	230V~	100	593x593x60*
276626	**HC6**	600	230V~	100	1193x595x60*

*) Height with bracket.
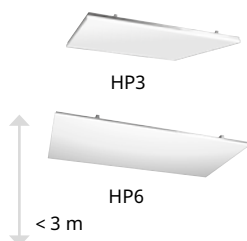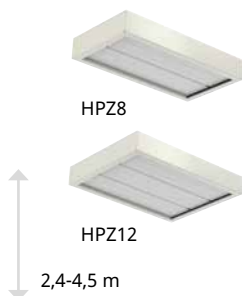
Thermocassette HP ⚡

HP3

HP6

< 3 m

Thermocassette HP, with 1,8 m cable (IP55). Built-in or mounted with brackets.

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxWxH [mm]
145991	**HP3N**	300	230V~	100	593x593x30*
145992	**HP6N**	600	230V~	100	1193x593x30*

*) Height without bracket. With brackets: 80 mm.

Thermocassette HPZ ⚡

HPZ8

HPZ12

2,4-4,5 m

Thermocassette HPZ (IP44). Built-in.

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxWxH [mm]
146858	**HPZ8**	800	230V~	320	593x320x87
74756	**HPZ12**	1200	230V~	320	593x450x87

Accessories and controls CTS/HC/HP/HPZ

HPWM

TAP16R   TEP44

SKG30   RTX54

PLTB16R   PLTBF

KRT1900   KRTV19

Art.nr	Type	Description
Accessories		
10088	**HPWM**	Wire mounting kit for HC/HP
Controls		
92790	**TAP16R**	Electronic thermostat, 16A, IP21
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.
93044	**RTX54**	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54
276542	**PLTB16R**	Electronic thermostat, 16A, IP21
276543	**PLTBF**	Frame for wall mounting of PLTB16R
205550	**SKG30**	Black bulb sensor, NTC10KΩ, IP30
Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188		
5999	**KRT1900**	Capillary tube thermostat, IP55
10214	**KRTV19**	Capillary tube thermostat with knob, IP44

Elztrip EZ100 ⚡
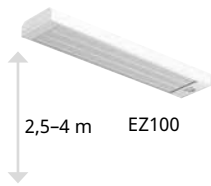
EZ100 (IP44)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxHxW [mm]
14894	**EZ106N**	600	230V~	320	870x50x150
14895	**EZ111N**	1100	230V~	320	1470x50x150
14896	**EZ115N**	1500	230V~	320	1950x50x150
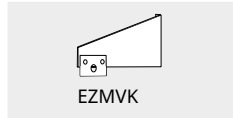
Accessories

Art.nr	Type	Description
10004	**EZMVK**	Mounting bracket

2,5–4 m   EZ100

EZMVK

Elztrip EZ200 ⚡
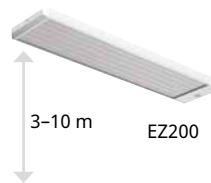
EZ200 (IP44)

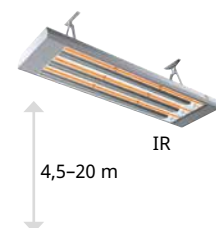| Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxHxW [mm]
11066	**EZ208**	800	230V~	320	683x64x282
11067	**EZ212**	1200	230V~	320	923x64x282
11068	**EZ217**	1700	230V~	320	1221x64x282
11069	**EZ222**	2200	230V~	320	1520x64x282
11724	**EZ20831**	800	400V2~	320	683x64x282
11725	**EZ21231**	1200	400V2~	320	923x64x282
11726	**EZ21731**	1700	400V2~	320	1221x64x282
11727	**EZ22231**	2200	400V2~	320	1520x64x282

3–10 m   EZ200

Elztrip EZ300 ⚡
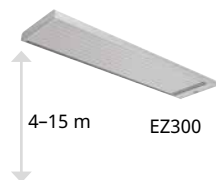
EZ300 (IP44)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. surface temperature [°C]	Dimensions LxHxW [mm]
11070	**EZ336**	3600	230V3~/400V3N~	320	1670x63x420
11071	**EZ345**	4500	230V3~/400V3N~	320	2030x63x420

4–15 m   EZ300

Industrial infrared heater IR ⚡

Industrial infrared heater IR (IP44)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. element temperature [°C]	Dimensions LxHxW [mm]
10012	**IR3000**	3000	400V3N~*	700	1125x83x358
10018	**IR4500**	4500	400V3N~*	700	1500x83x358
5940	**IR6000**	6000	400V3N~*	700	1875x83x358

*) Can also be connected 400V3~, but then without output steps. With neutral, one element tube at a time can be connected.

IR

4,5–20 m
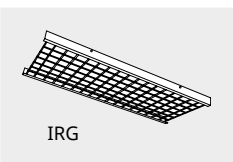
Accessories

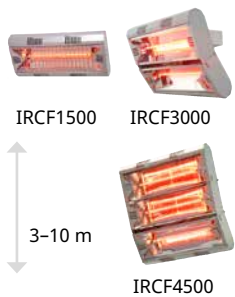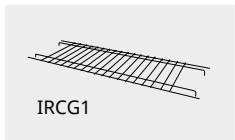| Art.nr	Type	Description
10104	**IRG3000**	Protection grille for IR3000
10105	**IRG4500**	Protection grille for IR4500
10107	**IRG6000**	Protection grille for IR6000

IRG

Halogen infrared heater IRCF ⚡

IRCF1500 IRCF3000

3–10 m

IRCF4500

Halogen infrared heater IRCF (IP20)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. lamp temperature [°C]	Dimensions LxHxD [mm]
11909	**IRCF1500**	1500	230V~	2200	490x230x140
11910	**IRCF3000**	3000	230V~	2200	490x375x140
11911	**IRCF4500**	4500	230V~/400V3~	2200	490x515x140

IRCG1

Accessories

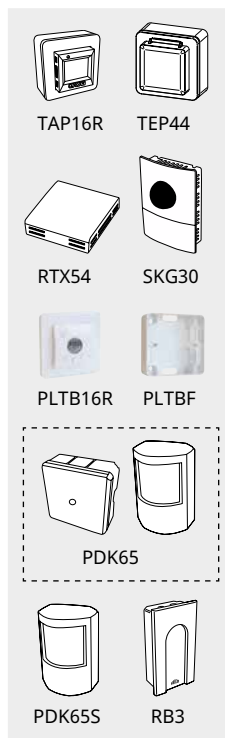| Art.nr	Type	Description
11919	**KLRS15**	Extra lamp
11915	**IRCG1**	Protection grille for IRCF1500. IRCF3000 requires 2 pcs, IRCF4500 requires 3 pcs.

Controls EZ100/EZ200/EZ300/IR/IRCF

TAP16R TEP44

RTX54

PLTB16R PLTBF

SKG30 PDK65S

PDK65

RB3 RB123

KRT1900 KRTV19

S123
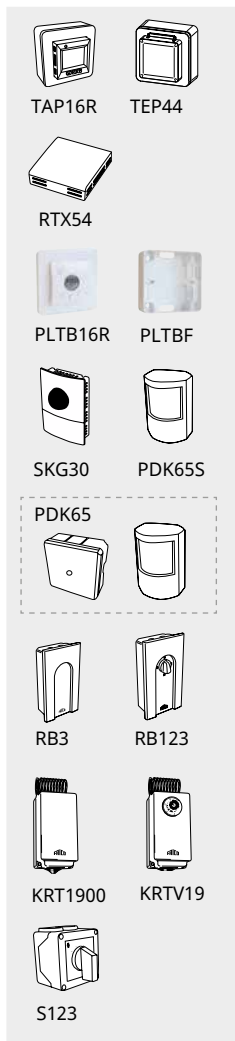
Art.nr	Type	Description	EZ100	EZ200	EZ300	IR	IRCF
92790	**TAP16R**	Electronic thermostat, 16A, IP21	•	•	•	•	•
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.	•	•	•	•	•
93044	**RTX54**	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54	•	•	•	•	•
276542	**PLTB16R**	Electronic thermostat, 16A, IP21	•	•	•	•	•
276543	**PLTBF**	Frame for wall mounting of PLTB16R	•	•	•	•	•
205550	**SKG30**	Black bulb sensor, NTC10KΩ, IP30	•	•	•	•	•
211780	**PDK65**	Presence detector with power supply (up to 5 detectors), 230V~, max 2,3 kW, IP42/IP65	•	•	•	•	•
211781	**PDK65S**	Additional presence detector to PDK65, IP42	•	•	•	•	•
93012	**RB3**	Relaybox 400V3N~ (400V3~/V2~, 230V3~/V2~), 16A, IP44		•	•	•	•
205688	**RB123**	Relaybox with 3 step output control, 400V3N~, 16A, IP44			•	•	•
Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188
5999	**KRT1900**	Capillary tube thermostat, IP55	•	•	•	•	•
10214	**KRTV19**	Capillary tube thermostat with knob, IP44	•	•	•	•	•
11733	**S123**	Manual switch for 1-2-3 steps, 20A, IP42			•	•	•

Infracalm INC ⚡

Infracalm INC with soft heat (IP24)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. element temperature [°C]	Dimensions LxHxW [mm]
190090	**INC05E**	500	230V~	750	711x50x100
190091	**INC10E**	1000	230V~	750	1251x50x100
190092	**INC10D**	1000	400V2~	750	1251x50x100
190093	**INC15E**	1500	230V~	750	1756x50x100
190094	**INC20E**	2000	230V~	750	2181x50x100
190095	**INC20D**	2000	400V2~	750	2181x50x100

INC

2–2,5 m

TAP16R TEP44

RTX54 SKG30

PLTB16R PLTBF

PDK65

PDK65S RB3

Art.nr	Type	Description
Controls outdoors		
10739	**CIRT**	Stepless output control with timer, IP44
10740	**CBT**	Electronic timer, IP44
Controls indoors		
92790	**TAP16R**	Electronic thermostat, 16A, IP21
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with external sensor.
93044	**RTX54**	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54
276542	**PLTB16R**	Electronic thermostat, 16A, IP21
276543	**PLTBF**	Frame for wall mounting of PLTB16R
205550	**SKG30**	Black bulb sensor, NTC10KΩ, IP30
211780	**PDK65**	Presence detector with power supply (up to 5 detectors), 230V~, max 2,3 kW, IP42/IP65
211781	**PDK65S**	Additional presence detector to PDK65, IP42
93012	**RB3**	Relaybox 400V3N~ (400V3~/V2~, 230V3~/V2~), 16A, IP44

Infracalm

Carbon infrared heater IHC ⚡

IHC

1,8–3 m

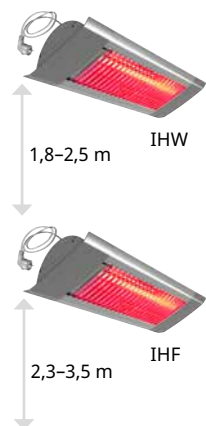### Carbon infrared heater IHC (IP44)

Art.nr	Type	Heat output [W]	Voltage [V]	Max.filament temperature [°C]	Dimensions LxHxW [mm]
19603	**IHC12**	1150	230V~	1200	500x77x169
19604	**IHC18**	1750	230V~	1200	676x77x169

Halogen infrared heater IH ⚡

IHW

1,8–2,5 m

IHF

2,3–3,5 m

Art.nr	Type	Heat output [W]	Voltage [V]	Max.filament temperature [°C]	Dimensions LxHxW [mm]
Infrared heater IHW with wide heat distribution (IP44)					
11878	**IHW10**	1000	230V~	2200	500x77x169
11879	**IHW15**	1500	230V~	2200	500x77x169
11880	**IHW20**	2000	230V~	2200	676x77x169
Infrared heater IHF with directed heat distribution (IP44)					
11881	**IHF10**	1000	230V~	2200	500x77x169
11882	**IHF15**	1500	230V~	2200	500x77x169
11883	**IHF20**	2000	230V~	2200	676x77x169

Accessories and controls IHC/IH

IHUB	IHE	IHXH	IHXL	IHT+IHTW

IHP   **IHP+IHT**

KLS1KS

IHAF

IHBD3

CBT

Art.nr	Type	Description
Accessories		
11884	**IHUB**	Universal bracket
18050	**IHE**	Ceiling bracket
16975	**IHXH**	Extension bracket for high level mounting
16976	**IHXL**	Extension bracket for low level mounting
11887	**IHT**	Triple bracket IHW10/15, IHF10/15 and IHC12
16974	**IHTW**	Wire kit (3 wires) for IHT
16970	**IHP**	Post for freestanding installation, 2,3 m
92865	**KLS1KS**	Bracket with velcro
93272	**IHAF**	Adapter mounting for KLS1KS
Spare lamps		
220646	**IHL1000**	Spare lamp IHW10/IHF10
220647	**IHL1500**	Spare lamp IHW15/IHF15
206496	**IHL2000**	Spare lamp IHW20/IHF20
220648	**IHC1200**	Spare lamp IHC12
220649	**IHC1800**	Spare lamp IHC18
Controls		
92867	**IHBD3**	Comfort controller for infrared heater, remote control with dimmer, 3000W, 230V~, IP65
10740	**CBT**	Electronic timer, IP44

Halogen infrared heater ELIR ⚡

ELIR

2–2,5 m

Halogen infrared heater ELIR (IP65)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. lamp temperature [°C]	Dimensions LxHxW [mm]
10707	**ELIR12**	1200	230V~	2200	712x112x83

ELIRSTP   CBT
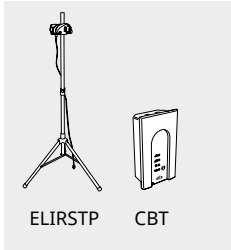
Art.nr	Type	Description
Accessories		
27986	**ELIRSTP**	Floor stand for portable use, H: max. 2000 mm
10706	**IREL12**	Extra lamp 1200 W
Controls		
10740	**CBT**	Electronic timer, IP44

Infralu IHAL ⚡

IHAL

1,8-3 m

Infralu IHAL (IP67)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
154900	**IHAL15S**	1500	230V~	1800	Aluminium	610x140x97
154901	**IHAL20S**	2000	230V~	1800	Aluminium	610x140x97

KLS1KS   BCDF

IHXH

IHXL

IHG

IHBD3

CBT
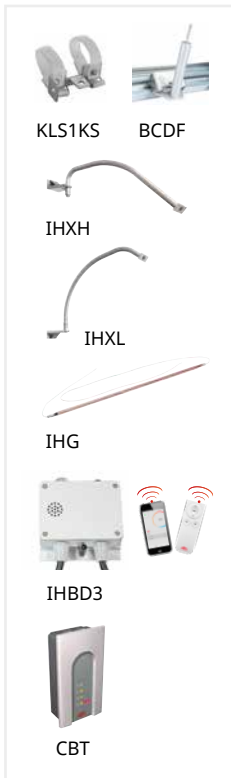
Art.nr	Type	Description
Accessories		
92865	**KLS1KS**	Bracket with velcro, silver
92847	**BCDF20**	Ceiling bracket, 200 mm, silver
16975	**IHXH**	Extension bracket for high level mounting
16976	**IHXL**	Extension bracket for low level mounting
Spare lamps		
153370	**IHG1500SL**	Spare lamp IHAL15S
153371	**IHG2000SL**	Spare lamp IHAL20S
Controls		
92867	**IHBD3**	Comfort controller for infrared heater, remote control with dimmer, 3000W, 230V~, IP65
10740	**CBT**	Electronic timer, IP44

# Infrasmart IHS ⚡

IHS IP67

1,8-3,5 m

Infrasmart IHS IP67, with smart functions, with T bracket (IP67)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
92800	IHS15W67	1500	230V~	1800	White	710x125x104
92801	IHS15B67	1500	230V~	1800	Black	710x125x104
92802	IHS15G67	1500	230V~	1800	Grey	710x125x104
92803	IHS20W67	2000	230V~	1800	White	710x125x104
92804	IHS20B67	2000	230V~	1800	Black	710x125x104
92805	IHS20G67	2000	230V~	1800	Grey	710x125x104

IHS IP24

1,8-3,5 m

Infrasmart IHS IP24, with smart functions (IP24)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
92806	IHS20W24	2000	230V~	1800	White	480x112x145
92807	IHS20B24	2000	230V~	1800	Black	480x112x145
92808	IHS20S24	2000	230V~	1800	Silver	480x112x145

KLS1KS   BCSF

BCDF   MB

IHXH

IHXL

IHG

Art.nr	Type	Description
Accessories		
92865	KLS1KS	Bracket with velcro
92852	BCSF9010	Adapter mounting for KLS1KS for infrared heater with T bracket, white
92853	BCSF9005	Adapter mounting for KLS1KS for infrared heater with T bracket, black
92854	BCSF7016	Adapter mounting for KLS1KS for infrared heater with T bracket, grey
92848	BCDF209010	Ceiling bracket, 200 mm, white
92849	BCDF209005	Ceiling bracket, 200 mm, black
92850	BCDF207016	Ceiling bracket, 200 mm, grey
92847	BCDF20	Ceiling bracket, 200 mm, silver
92862	MB40402009010	Awning bracket for infrared heater with T bracket, 200 mm, white
92863	MB40402009005	Awning bracket for infrared heater with T bracket, 200 mm, black
92864	MB40402007016	Awning bracket for infrared heater with T bracket, 200 mm, grey
16975	IHXH	Extension bracket for high level mounting
16976	IHXL	Extension bracket for low level mounting
Spare lamps		
153370	IHG1500SL	Spare lamp IHS15W67/IHS15B67/IHS15G67
153371	IHG2000SL	Spare lamp IHS20W67/IHS20B67/IHS20G67
153372	IHG2024SL	Spare lamp IHS20W24/IHS20B24/IHS20S24

Infrasmart

Infraglas IHG ⚡

IHGB

IHGW

1,8-3,5 m

CCIHGS

Infraglas, with tinted ceramic glass front. Remote control with dimmer (model 1,2 kW only on/off) (IP65)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
154862	IHGB12SR	1200	230V~	1800	Black	585x80x170
154861	IHGW12SR	1200	230V~	1800	White	585x80x170
154874	IHGB15SR	1500	230V~	1800	Black	900x80x170
154873	IHGW15SR	1500	230V~	1800	White	900x80x170
154868	IHGB22SR	2200	230V~	1800	Black	900x80x170
154867	IHGW22SR	2200	230V~	1800	White	900x80x170

Art.nr	Type	Description
Accessories		
154863	CCIHGS12	Frame for recess mounting of Infraglas 1,2 kW, silver
154865	CCIHGS15	Frame for recess mounting of Infraglas 1,5 kW, silver
Spare lamps		
156181	IHGL1200SL	Spare lamp IHGB12SR
156182	IHGL1500SL	Spare lamp IHGB15SR
156183	IHGL2200SL	Spare lamp IHGB22SR

Infrapalm IHPA ⚡

2,5-2,7 m

IHPA

Infrapalm IHPA (IP67)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
92838	IHPA30W	3000 (2x1500)	400V3N~	1800	White	1100x2500-2700
92839	IHPA30B	3000 (2x1500)	400V3N~	1800	Black	1100x2500-2700
92842	IHPA60W	6000 (3x2000)	400V3N~	1800	White	1100x2500-2700
92843	IHPA60B	6000 (3x2000)	400V3N~	1800	Black	1100x2500-2700

IHPAT

IHMC6-3

IHMC6S-3

Art.nr	Type	Description
Accessories		
92846	IHPAT	Table, black, 600x600x30 mm
Spare lamps		
153370	IHG1500SL	Spare lamp IHPA30
153371	IHG2000SL	Spare lamp IHPA60
Controls		
92870	IHMC6-3	Central controller with keypad, 6000 W, 400V3~, IP65
92872	IHMC6S-3	Central controller (slave), 6000 W, 400V3~, IP65

Infratower IHA ⚡

IHA

Infratower (IP24)

Art.nr	Type	Heat output [W]	Voltage [V]	Max. filament temperature [°C]	Colour	Dimensions LxHxW [mm]
92820	IHA30BP	3000 (2x1500)	230V~	1800	Black	290x1245x320

Radiant heaters

K21 ⚡

Portable fan heater K21 (IP21)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound level* [dB(A)]	Voltage [V]	HxWxD [mm]
10667	**K21**	0/1/2	90	43	230V~	220x160x200

*) Conditions: Distance to the unit 5 metres.

K21

Tiger ⚡

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound power*[1] [dB(A)]	Sound pressure*[2] [dB(A)]	Voltage [V]	HxWxD [mm]
Portable fan heater Tiger 2-9 kW** (IP44)							
271734	**TIG21**	0/2	240	47	33	230V~	450x290x390
271737	**TIG31**	0/2/3	280	57	42	230V~	450x290x390
271738	**TIG33**	0/1,5/3	280	57	42	400V3N~*[3]	450x290x390
271743	**TIG53**	0/2,5/5	480	56	42	400V3N~*[3]	450x290x390
271748	**TIG93**	0/4,5/9	720	65	51	400V3N~*[3]	530x350x480
Portable fan heater Tiger 15 kW** (IP44)							
271752	**TIG153-0**	0/7,5/15	1120	66	52	400V3~	510x410x530
Portable fan heater Tiger 20/30 kW (IP44)							
271754	**TIG203-0**	0/10/20	1950/2400	75	54/61	400V3~	590x630x600
271758	**TIG303-0**	0/10/20/30	1950/2400	75	54/61	400V3~	590x630x600
3198	**P305**	0/7,5/15/23 0/10/20/30	1900/2600	75	42/60	440V3~*[4] 500V3~	590x630x600

*[1]) Measurements according to ISO 27327-2: 2014, Installation type E.
*[2]) Conditions: Distance to the unit 3 metres. Directional factor: 2. Equivalent absorption area: 200 m².
At lowest/highest airflow.
*[3]) Also available without neutral and are then called TIG33-0, TIG53-0 and TIG93-0. These models do not have the 230V socket on the reverse and are equipped with P416-6 connectors.
*[4]) Can be connected to 440V3~ and 500V3~.

Approved for 380V/3ph/60Hz. Product performance for 380V/3ph/60Hz will differ from stated data.

**Available from 2022-05-01

Tiger 2-9

Tiger 15

Tiger 20/30
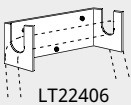
Accessories

Art.nr	Type	Description
220400	**LT22406**	Wall bracket for storage of Tiger 2-15 kW

LT22406

Panther 6-15 ⚡

Panther 6-15

Wall mounted fan heater Panther 6 – 15 kW (IP44)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Voltage [V]	HxWxD [mm]
145461	SE06N	0/3/6	900/1300	39/47	400V3N~	520x450x510
145462	SE09N	0/4,5/9	900/1300	39/47	400V3N~	520x450x510
145463	SE12N	0/6/12	900/1300	39/47	400V3N~	520x450x510
145464	SE15N	0/7,5/15	900/1300	39/47	400V3N~	520x450x510
145465	SE135N*2	0/5/10 0/7/13,5	900/1300	39/47	440V3~ 500V3~	520x450x510

*1) Conditions: Distance to the unit 3 metres. Directional factor: 2. Equivalent absorption area: 200 m².
At lowest/highest airflow.
*2) Can be connected to 440V3~ and 500V3~.

Approved for 380V/3ph/60Hz. Product performance for 380V/3ph/60Hz will differ from stated data.

Panther 20-30 ⚡

Panther 20/30

Wall mounted fan heater Panther 20/30 kW (IP44)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Voltage [V]	HxWxD [mm]
145466	SE20N	0/10/20	1900/2600	42/60	400V3N~	576x478x545
145468	SE30N	0/10/20/30	1900/2600	42/60	400V3N~	576x478x545
145469	SE305N*2	0/7,5/15/23 0/10/20/30	1900/2600	42/60	440V3~ 500V3~	576x478x545

*1) Conditions: Distance to the unit 3 metres. Directional factor: 2. Equivalent absorption area: 200 m².
At lowest/highest airflow.
*2) Can be connected to 440V3~ and 500V3~.

Approved for 380V/3ph/60Hz. Product performance for 380V/3ph/60Hz will differ from stated data.

Fan heaters

Cat ⚡

Cat

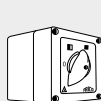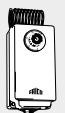TAP16R   TEP44

RTX54

PLTB16R   PLTBF

EV300   KRT1900

KRTV19   CBT

Wall mounted fan heater Cat (IP44)

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound level*1 [dB(A)]	Voltage [V]	HxWxD [mm]
145458	**C3N**	0/1,5/3	280	41	230V/400V3N~*²	255x335x276
145459	**C5N**	0/2,5/5	480	40	400V3N~	255x335x276
145460	**C9N**	0/4,5/9	720	44	400V3N~	315x405x335

*¹) Conditions: Distance to the unit 3 metres. Directional factor: 2. Equivalent absorption area: 200 m².
*²) Supplied connected for 400V3N~. C3N can be connected for 230V~ and 400V3N~. Other models should not be connected for single phase, 230V~.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Art.nr	Type	Description
		Controls
92790	**TAP16R**	Electronic thermostat, 16A, IP21
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.
93044	**RTX54**	External room temperature sensor. Replaces internal senor. NTC10KΩ, IP54
276542	**PLTB16R**	Electronic thermostat, 16A, IP21
276543	**PLTBF**	Frame for wall mounting of PLTB16R
10037	**EV300**	Output selector, IP44
		Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188
5999	**KRT1900**	Capillary tube thermostat, IP55
10214	**KRTV19**	Capillary tube thermostat with knob, IP44
10037	**EV300**	Output selector, IP44
10740	**CBT**	Electronic timer, IP44

Elektra ⚡

Elektra C/V/H

Elektra C/V/H/F

ELSRT   ELSRT4

ELRT

Art.nr	Type	Output steps [kW]	Airflow [m³/h]	Sound level* [dB(A)]	Voltage [V]	HxWxD [mm]
		Wall mounted fan heater Elektra C, for corrosive environments (IP65)				
10864	**ELC331**	0/2/3	400	48	230V~	375x300x340
10865	**ELC633**	0/3/6	1000	55	400V3~	445x375x430
10866	**ELC933**	0/4,5/9	1000	55	400V3~	445x375x430
11395	**ELC1533**	0/7,5/15	1300	62	400V3~	445x375x430
		Fan heater Elektra F, for rooms where there is a risk of fire Portabel use (IP65)				
10867	**ELF331**	0/2/3	400	48	230V~	375x300x340
10868	**ELF633**	0/3/6	700	53	400V3~	375x300x340
10869	**ELF933**	0/4,5/9	1000	55	400V3~	445x375x430
		Fan heater Elektra V, for ships and offshore industry (IP44)				
11755	**ELV331**	0/2/3	400	48	230V~	375x300x340
11108	**ELV3333**	0/1,5/3	400	48	400V3~	375x300x340
10870	**ELV3344**	0/1,8/3,6	400	48	400/440V3~	375x300x340
11109	**ELV5333**	0/2,5/5	700	53	400V3~	375x300x340
10871	**ELV6344**	0/3/6	700	53	400/440V3~	375x300x340
		Fan heater Elektra H, for rooms with high temperatures (IP44)				
10872	**ELH633**	0/3/6	1000	55	400V3N~	445x375x430
10873	**ELH933**	0/4,5/9	1000	55	400V3N~	445x375x430

*) Conditions: Distance to the unit 5 metres.

Approved for 220V/1ph/60Hz and 380V/3ph/60Hz. Product performance for 220V/1ph/60Hz and 380V/3ph/60Hz will differ from stated data.

Controls

Art.nr	Type	Description
11089	**ELSRT**	Control panel and thermostat, for ELC/ELV, controls one fan heater, IP65
11821	**ELSRT4**	Control panel and thermostat, for ELC/ELV (not ELC1533), controls 4 fan heaters, IP65
11091	**ELRT**	Thermostat, for ELH, IP44

SWH 💧

SWH

Wall/ceiling mounted fan heater SWH (IP44)

Art.nr	Type	Heat output*[1,2] [kW]	Airflow*[2] [m³/s]	Sound level*[3] [dB(A)]	Water volume [l]	HxWxD [mm]
4380	SWH02	11	0,31	40	1,3	525x515x360
4381	SWH12	17	0,56	48	1,5	600x535x410
4382	SWH22	29	0,94	55	2,7	725x680x437
4383	SWH32	44	1,44	51	3,8	850x820x552
4384	SWH33	53	1,23	50	5,2	850x820x552

*[1]) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.
*[2]) Applies to fan position 4.
*[3]) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.

SWH EC 💧

SWH-EC

Wall/ceiling mounted fan heater with EC motor SWH EC (IP44)

Art.nr	Type	Heat output*[1,2] [kW]	Airflow*[2] [m³/s]	Sound level*[3] [dB(A)]	Water volume [l]	HxWxD [mm]
74660	SWHEC02	11	0,28	40	1,3	525x515x430
74661	SWHEC12	17	0,56	48	1,5	600x535x425
74662	SWHEC22	29	0,94	56	2,7	725x680x405
74663	SWHEC32	44	1,44	51	3,8	850x820x550
74664	SWHEC33	53	1,25	50	5,2	850x820x550

*[1]) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.
*[2]) Applies to fan position 4.
*[3]) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

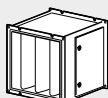Approved for 200-240V, 50/60Hz. Product performance for 60Hz will differ from stated data.
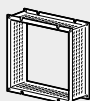

SWH

Accessories and controls SWH/SWH EC
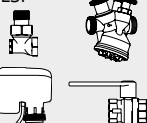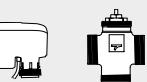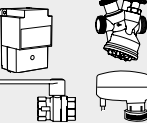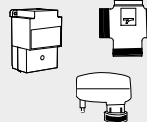
Art.nr	Type	Description
Accessories		
17577	**SWB0**	Mounting brackets SWH02
17578	**SWB1**	Mounting brackets SWH12
17579	**SWB2**	Mounting brackets SWH22
17580	**SWB3**	Mounting brackets SWH32/SWH33
111307	**SWFTN02**	Basic filter SWH02
111300	**SWFTN1**	Basic filter SWH12
111301	**SWFTN2**	Basic filter SWH22
111302	**SWFTN3**	Basic filter SWH32/SWH33
10113	**SWF1**	Filter section SWH12
10115	**SWF2**	Filter section SWH22
10117	**SWF3**	Filter section SWH32/SWH33
10108	**SWEF1**	Extra filter cassette EU3 SWH12
10110	**SWEF2**	Extra filter cassette EU3 SWH22
10111	**SWEF3**	Extra filter cassette EU3 SWH32/SWH33
10099	**SWD1**	Return air intake SWH12
10102	**SWD2**	Return air intake SWH22
10103	**SWD3**	Return air intake SWH32/SWH33
Control system SIRe		
33481	**SIReBN**	Control system SIRe Basic
33488 / 33489	**SIReFCY / SIReFCZ***	Control system SIRe Competent for fan heaters
33490 / 33491	**SIReFAY / SIReFAZ***	Control system SIRe Advanced for fan heaters
Accessories SIRe		
17539	**SIReRTX**	External room temperature sensor, NTC10KΩ
17613	**SIReWTA**	Return water sensor RJ11 (4p/4c) 3 m IP65
17616	**SIReCJ4**	Used to join two RJ11 (4/4)
17615	**SIReCJ6**	Used to join two RJ12 (6/6)
17542	**SIReCC603**	Modular cable RJ12 (6/6) 3 m
17543	**SIReCC605**	Modular cable RJ12 (6/6) 5 m
17544	**SIReCC610**	Modular cable RJ12 (6/6) 10 m
17545	**SIReCC615**	Modular cable RJ12 (6/6) 15 m
17773	**SIReCC640**	Modular cable RJ12 (6/6) 40 m
17546	**SIReCC403**	Modular cable RJ11 (4/4) 3 m
17547	**SIReCC405**	Modular cable RJ11 (4/4) 5 m
17548	**SIReCC410**	Modular cable RJ11 (4/4) 10 m
17549	**SIReCC415**	Modular cable RJ11 (4/4) 15 m
Water control - Used with SIRe Basic and Competent.		
79379	**VLSP15LF**	Pressure independent valve system on/off DN15 , low flow
79380	**VLSP15NF**	Pressure independent valve system on/off DN15
79381	**VLSP20**	Pressure independent valve system on/off DN20
79382	**VLSP25**	Pressure independent valve system on/off DN25
79417	**VLSP32**	Pressure independent valve system on/off DN32
19031	**VOT15**	Three way control valve and actuator on/off DN15 Kvs 1,7
19032	**VOT20**	Three way control valve and actuator on/off DN20 Kvs 2,5
19033	**VOT25**	Three way control valve and actuator on/off DN25 Kvs 4,5
Water control - Used with SIRe Advanced.		
79375	**VLP15LF**	Pressure independent and modulating valve system DN15 , low flow
79376	**VLP15NF**	Pressure independent and modulating valve system DN15
79377	**VLP20**	Pressure independent and modulating valve system DN20
79378	**VLP25**	Pressure independent and modulating valve system DN25
79416	**VLP32**	Pressure independent and modulating valve system DN32
19034	**VMT15**	Three way control valve and actuator on/off DN15 Kvs 1,7
19035	**VMT20**	Three way control valve and actuator on/off DN20 Kvs 2,5
19036	**VMT25**	Three way control valve and actuator on/off DN25 Kvs 4,5

*) SIRexxxY communicates in Swedish, Norwegian, English, German, French, Spanish, Dutch, Italian, Danish and Finnish.

SIRexxxZ communicates in Russian, Ukrainian, Polish, Czech, Slovak, Romanian, Hungarian, Turkish, Portuguese and English.

SWB

SWFTN

SWF

SWD

SIReBN SIReFC SIReFA

SIReRTX SIReWTA

SIReCJ4 SIReCJ6

SIReCC

VLSP

VOT

VLP

VMT

SWL ◐

SWL

Wall/ceiling mounted Fan heater SWL (IP44)

Art.nr	Type	Heat output*1 [kW]	Airflow [m³/s]	Sound level*2 [dB(A)]	Water volume [l]	HxWxD [mm]
39611	**SWL02**	12	0,18/0,31	30/43	1,3	470x518x308
39612	**SWL12**	19	0,40/0,68	41/54	1,5	545x538x344
39613	**SWL22**	31	0,61/1,10	46/59	2,7	671x691x357
39614	**SWL32**	50	1,18/1,79	46/56	3,8	798x828x517
39615	**SWL33**	64	1,02/1,63	47/53	5,2	798x828x517

*1) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.

*2) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.

SWS ◖

SWS

### Wall mounted fan heater SWS (IP44)

Art.nr	Type	Heat output*1 [kW]	Airflow [m³/s]	Sound level*2 [dB(A)]	Water volume [l]	HxWxD [mm]
4974	**SWS02**	12	0,35	50	1,3	470x520x260
4975	**SWS12**	19	0,65	57	1,5	545x540x275
4976	**SWS22**	30	0,99	58	2,7	675x690x275
4977	**SWS32**	50	1,75	64	3,8	800x830x350
4978	**SWS33**	65	1,69	64	5,2	800x830x350

*1) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.

*2) Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m².

SWS02/32/33 are approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated dat

Controls and accessories SWL/SWS

TKS16 KRT1900

RE1,5/3/7 CB20

SD20 TVVS20/25

TRVS20/25

SWB SWSFT

SWLR
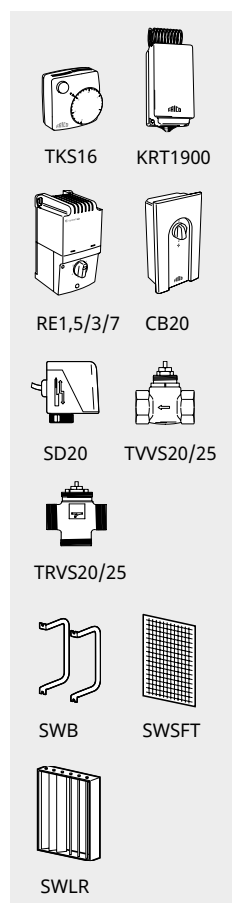
Art.nr	Type	Description	SWL	SWS
Controls				
11651	**TKS16**	Electronic thermostat, knob, 1-pole switch, IP30	•	•
5999	**KRT1900**	Capillary tube thermostat, IP55	•	•
10214	**KRTV19**	Capillary tube thermostat with knob, IP44	•	•
10737	**CB20**	Control box, 2 fan steps, IP44	•	•
18034	**SWYD1**	2-step change-over switch for air flow (Y/D)		•
161206	**S-DT 16**	Thermal contact motor protection (400V3~)		•
5000	**RE1,5**	5-step control 1,5 A IP54	•	
5001	**RE3**	5-step control 3 A IP54	•	
5003	**RE7**	5-step control 7 A IP54	•	
Water control				
24729	**TVVS20**	2-way valve DN20	•	•
24730	**TVVS25**	2-way valve DN25	•	•
19019	**TRVS20**	3-way control valve DN20	•	•
19020	**TRVS25**	3-way control valve DN25	•	•
10073	**SD20**	Actuator on/off 230V	•	•
Accessories				
17577	**SWB0**	Mounting brackets SWL02 / SWS02	•	•
17578	**SWB1**	Mounting brackets SWL12 / SWS12	•	•
17579	**SWB2**	Mounting brackets SWL22 / SWS22	•	•
17580	**SWB3**	Mounting brackets SWL32/33 / SWS32/33	•	•
27661	**SWSFT02**	Basic filter SWL02 / SWS02	•	•
27658	**SWSFT1**	Basic filter SWL12 / SWS12	•	•
27659	**SWSFT2**	Basic filter SWL22 / SWS22	•	•
27660	**SWSFT3**	Basic filter SWL32/33 / SWS32/33	•	•
10132	**SWLR1**	Extra air director SWL12	•	
10133	**SWLR2**	Extra air director SWL22	•	
10134	**SWLR3**	Extra air director SWL32/33	•	

SWX CS / CE / D / H ○

SWX CS / D

SWX CE

SWX H

Art.nr	Type	Heat output*[1] [kW]	Air flow [m³/s]	Sound level*[2] [dB(A)]	HxWxD [mm]]	Weight [kg]
Fan heater SWX CS, for corrosive and damp environments. With water coil of stainless steel. (IP65)						
31148	**SWXCS12**	20	0,6	59	535x585x455	32
31149	**SWXCS22**	37	1,2	69	660x740x455	54
Fan heater SWX CE, for corrosive and damp environments. With epoxy coated water coil. (IP65)						
211773	**SWXCE12**	21	0,6	59	530x550x380	29
211774	**SWXCE22**	40	1,2	69	655x705x430	45
Fan heater SWX D, for dusty environments. (IP65)						
31150	**SWXD13**	15	0,6	59	535x585x455	32
31151	**SWXD23**	29	1,2	69	660x740x455	54
Fan heater SWX H, for rooms with high temperatures. (IP65)						
31154	**SWXH13**	12	0,5	57	530x550x380	28
31155	**SWXH23**	23	1,1	68	655x705x430	46

*[1]) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.
  SWX H: Applicable at water temperature 80/60 °C, air temperature, in +40 °C.
*[2]) Conditions: Distance to the unit 5 metres.

Intended for water temperatures up to +150 °C and 16 bar. Max. surrounding temperature +70 °C.

Approved for 220V/1ph/60Hz (SWX22/23: max. surrounding temperature 40° C). Product performance for 220V/1ph/60Hz will differ from stated data.

Fan heaters

SWXRT   KRT1900

TVV20/25   TVVS20/25

SD20

SWXCDFT
SWXHFT

Art.nr	Type	Description
Controls		
31572	**SWXRT35**	Room thermostat 0-35 °C, max. 2,7 A, IP65, for SWX C
31577	**SWXRT70**	Room thermostat 0-70 °C, max. 2,7 A, IP65, for SWX H
5999	**KRT1900***	Capillary tube thermostat, IP55, for SWX D
Water control		
10638	**TVV20***	2-way valve DN20 for SWX CS/CE/H
10086	**TVV25***	2-way valve DN25 for SWX CS/CE/H
24729	**TVVS20***	2-way valve DN20 for SWX D
24730	**TVVS25***	2-way valve DN25 for SWX D
10073	**SD20***	Actuator on/off 230V
Accessories		
31573	**SWXCDFT1**	Wire mesh filer for SWX CS12/D13
31574	**SWXCDFT2**	Wire mesh filer for SWX CS22/D23
31575	**SWXHFT1**	Wire mesh filer for SWX CE12/H13
31576	**SWXHFT2**	Wire mesh filer for SWX CE22/H23

*) Only for mounting outside corrosive and hot (above 50°C) zones.

SWX EX ○

SWX EX, for environments with a temporary explosion risk (Zone 1 and Zone 2). (IP44)

Art.nr	Type	Heat output*[1] [kW]	Airflow [m³/s]	Sound level*[2] [dB(A)]	HxWxD [mm]]	Weight [kg]
31152	**SWXEX12**	21	0,6	61	530x550x380	25
31153	**SWXEX22**	39	1,2	67	655x705x430	42

*[1]) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.
*[2]) Conditions: Distance to the unit 5 metres.

Intended for water temperatures up to +125 °C and 16 bar. Max. surrounding temperature -20 - +40 °C.
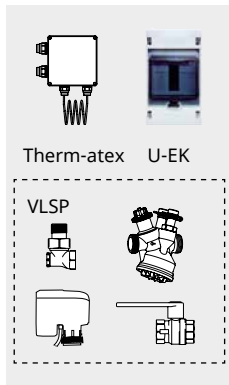
Art.nr	Type	Description
Controls		
84760	**Therm-atex**	ATEX capillary tube thermostat for zones 1 and 2, IP66
75620	**U-EK**	Plastic housing ATEX IP65 for thermistor motor protection
Water control		
79381	**VLSP20***	Sistema de válvulas independientes de la presión on/off DN20
79382	**VLSP25***	Sistema de válvulas independientes de la presión on/off DN25

*) Only for mounting outside ATEX-classed zones.

Fan cooler SWK ❄

Fan cooler SWK (IP44)

Art.nr	Type	Cooling output (total)*[1] [kW]	Airflow [m³/s]	Sound level* [dB(A)]	HxWxD [mm]
414653	**SWK12**	5,9	0,55	52	670x730x571
414654	**SWK22**	10,3	0,97	62	875x920x571

*[1]) Applies at water temperature +6/12 °C, air temperature in +25 °C, relative humidity 50 %.
*[2]) Sound pressure (LpA). Conditions: Distance to the unit 5 metres.

Approved for 220V/1ph/60Hz. Product performance for 220V/1ph/60Hz will differ from stated data.
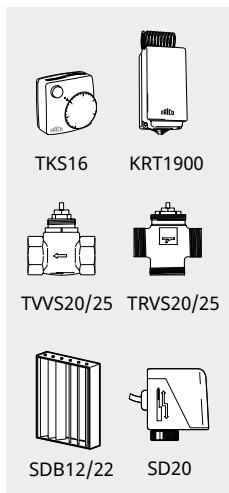
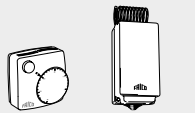| Art.nr	Type	Description
Accessories		
414655	**SDB12**	Extra air director SWK12
414656	**SDB22**	Extra air director SWK22
Controls		
11651	**TKS16**	Electronic thermostat, knob, 1-pole switch, IP30
5999	**KRT1900**	Capillary tube thermostat, IP55
24729	**TVVS20**	2-way valve DN20
24730	**TVVS25**	2-way valve DN25
19019	**TRVS20**	3-way control valve DN20
19020	**TRVS25**	3-way control valve DN25
10073	**SD20**	Actuator on/off 230V

SWT ⬤

Ceiling mounted fan heater SWT (IP44)

Art.nr	Type	Heat output*[1] [kW]	Airflow [m³/s]	Sound level*[2] [dB(A)]	Water volume [l]	HxWxD [mm]
17564	**SWT02**	11	0,31	53	1,2	330x705x535
17565	**SWT12**	18	0,56	57	1,7	355x825x675
17566	**SWT22**	40	1,08	60	3,9	415x1135x735

*[1]) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.

*[2]) Conditions: Distance to the unit 5 metres.

SWT

TKS16 KRT1900

CB20 RE3/RE7
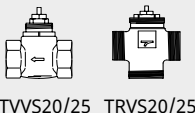
TVVS20/25 TRVS20/25

SD20

SWTCE SWTCL

SWTCF

Art.nr	Type	Description
Controls		
11651	**TKS16**	Electronic thermostat, knob, 1-pole switch, IP30
5999	**KRT1900**	Capillary tube thermostat, IP55
10737	**CB20**	Control box 2 steps
5000	**RE1,5**	5-step change-over switch for air flow, max. 1,5A, IP54
5001	**RE3**	5-step change-over switch for air flow, max. 3A, IP54
5003	**RE7**	5-step change-over switch for air flow, max. 7A, IP54
Water control		
24729	**TVVS20**	2-way control valve DN20
24730	**TVVS25**	2-way control valve DN25
19019	**TRVS20**	3-way control valve DN20
19020	**TRVS25**	3-way control valve DN25
10073	**SD20**	Actuator on/off
Accessories		
17570	**SWTCE02**	Extension collar 350 mm to SWT02, increases the throw pattern to 4-7 m
17571	**SWTCE12**	Extension collar 350 mm to SWT12, increases the throw pattern to 5-8 m
17572	**SWTCE22**	Extension collar 350 mm to SWT22, increases the throw pattern to 7-12 m
17567	**SWTCF02**	Filter for SWT02
17568	**SWTCF12**	Filter for SWT12
17569	**SWTCF22**	Filter for SWT22
17573	**SWTCL02**	Air director for SWT02
17574	**SWTCL12**	Air director for SWT12
17575	**SWTCL22**	Air director for SWT22

Fan heaters

Industrial ceiling fan ICF �

ICF

Industrial ceiling fan ICF (IP20 / IP55)

Art.nr	Type	Output [W]	Airflow [m³/h]	Voltage [V]	Height x Ø [mm]
11800	**ICF20**	70	13500	230V~	545x1422
11729	**ICF55**	70	13500	230V~	545x1422

CAR15 **CFR1R**

RE1,5/3/5 **PE1/2,5**

CFAP **CFB**
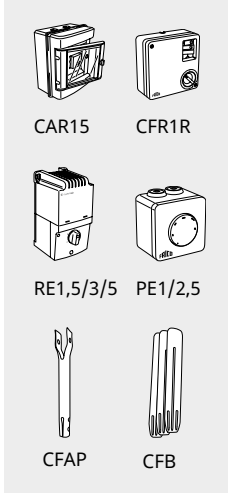
Art.nr	Type	Description
Controls		
10692	**CAR15**	Automatic fan speed control, max. breaking current: 6,3 A
11814	**CFR1R**	5-step control, max. breaking current: 0,4 A
11812	**PE1**	Variable fan speed control, external mounting (IP54) or recessed mounting (IP44), max. breaking current: 1 A
11813	**PE2,5**	Variable fan speed control, external mounting (IP54) or recessed mounting (IP44), max. breaking current: 2,5 A
5000	**RE1,5**	5-step control, max. breaking current: 3 A
5001	**RE3**	5-step control, max. breaking current: 5 A
5002	**RE5**	5-step control for 12 fans
Accessories		
11806	**CFAP200**	Short downrod, total height 395 mm
11808	**CFAP750**	Long downrod, total height 945 mm
11809	**CFB900**	Fan blades, fan diameter 914 mm
11810	**CFB1200**	Fan blades, fan diameter 1218 mm
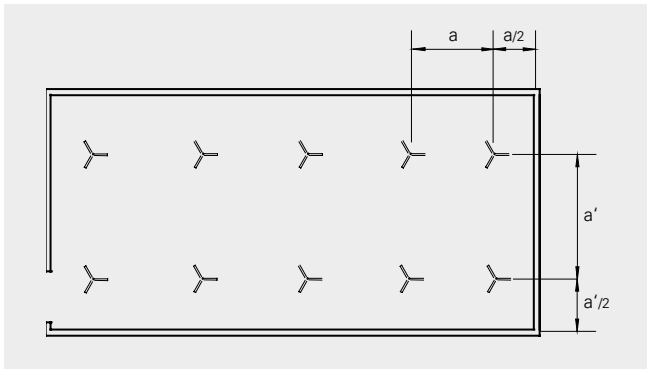
Recommended distance between fans

Ceiling height [m]	4	6	8	10	12
Distance a [m]	5	7	8	9	10

ICF + SWH

Ribbed pipe radiator ⚡

125-B

125-W

125-G

127-B

Art.nr	Type	Output [W]	Voltage [V]	Colour	LxHxD [mm]	Weight [kg]
Ribbed pipe radiator 125 (IP44)						
6980	**125-12B**	200	230V~	Dark green	370x180x185	2,4
6981	**125-22B**	375	230V~	Dark green	530x180x185	3,3
6983	**125-32B**	575	230V~	Dark green	730x180x185	4,5
276670	**125-32W**	575	230V~	White	730x180x185	4,5
276673	**125-32G**	575	230V~	Grey	730x180x185	4,5
6985	**125-42B**	775	230V~	Dark green	880x180x185	5,5
276671	**125-42W**	775	230V~	White	880x180x185	5,5
276674	**125-42G**	775	230V~	Grey	880x180x185	5,5
323310	**125-52B**	1150	230V~	Dark green	1185x180x185	7,5
276672	**125-52W**	1150	230V~	White	1185x180x185	7,5
276675	**125-52G**	1150	230V~	Grey	1185x180x185	7,5
Ribbed pipe radiator 127, for use in combustible areas (sand filled) (IP44)						
6990	**127-22B**	500	230V~	Dark green	980x180x185	10,9
6991	**127-42B**	800	230V~	Dark green	1925x180x185	33,3

FBRP

TAP16R   TEP44

RTX54

PLTB16R   PLTBF

KRT1900   KRTV19
KRT1901

Art.nr	Type	Description
Accessories		
79403	**FBRP**	Floor brackets (2x), dark green
Controls		
92790	**TAP16R**	Electronic thermostat, 16A, IP21
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.
93044	**RTX54**	External room temperature sensor. Replaces internal senor. NTC10KΩ, IP54
276542	**PLTB16R**	Electronic thermostat, 16A, IP21
276543	**PLTBF**	Frame for wall mounting of PLTB16R
Controls for installations not covered by the Ecodesign Regulation (EU) 2015/1188		
5999	**KRT1900**	Capillary tube thermostat, IP55
10211	**KRT1901**	Capillary tube thermostat for room heating/cooling, IP55
10214	**KRTV19**	Capillary tube thermostat with knob, IP44
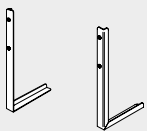
Thermowarm TWT ⚡

TWT100

TWTC

Art.nr	Type	Output [W]	Voltage [V]	LxHxD [mm]	Weight [kg]
Thermowarm TWT100. White front, with switch. (IP44)*					
6982	**TWT10521**	500	230V~	465x205x123	2,0
6987	**TWT11021**	1000	230V~	765x205x123	3,0
Thermowarm TWTC. Front in stainless steel, with cable and plug. (IP54)*					
11396	**TWTC30521**	500	230V~	465x205x123	2,0
11398	**TWTC31021**	1000	230V~	765x205x123	3,0

*) For offshore and other installations not covered by the Ecodesign Regulation (EU) 2015/1188

Thermowarm TWS ⚡

TWS100

TWS200

TWSC

Art.nr	Type	Output [W]	Voltage [V]	LxHxD [mm]	Weight [kg]
Thermowarm TWS100. White front. Smart, integrated control with digital display. (IP44)					
153395	**TWSE103**	300	230V~	333x208x123	1,7
153396	**TWSE105**	500	230V~	453x208x123	2,2
153397	**TWSE110**	1000	230V~	753x208x123	3,2
153398	**TWSD110**	1000	400V~	753x208x123	3,2
Thermowarm TWS200. Grey velour covered front. Smart, integrated control with digital display. Max. surface temperature: 60°C (IP44)					
153399	**TWSE205**	500	230V~	453x208x123	1,7
153400	**TWSE210**	1000	230V~	753x208x123	3,2
153401	**TWSD210**	1000	400V~	753x208x123	3,2
Thermowarm TWSC. Stainless steel. Smart, integrated control with digital display. (IP54)					
153402	**TWSC303**	300	230V~	333x208x123	1,7
153403	**TWSC305**	500	230V~	453x208x123	2,2
153404	**TWSC310**	1000	230V~	753x208x123	3,2

TWSL

Accessories

Art.nr	Type	Description
212066	**TWSL12**	Protective display cover for TWS100/200
212067	**TWSL3**	Protective display cover for TWS300

TWT

Frost guard FML ⚡

FML

FMS

FMLR

Art.nr	Type	Output [W]	Voltage [V]	LxHxD [mm]	Weight [kg]
Frost guard FML. White front. (IP31)					
10191	**FML200**	200	230V~	298x90x68	0,7
10194	**FML300**	300	230V~	398x90x68	0,9
Frost guard FMS. White front. (IP31)					
10197	**FMS200**	200	230V~	90x298x68	0,7
Frost guard FMLR. Stainless steel design. (IP31)					
10643	**FMLR200**	200	230V~	298x90x68	0,7

Bench heater SH ⚡

SH

Bench heater SH (IP21)

Art.nr	Type	Output [W]	Voltage [V]	LxH*xW [mm]	Weight [kg]
10201	**SH17521**	175	230V~	700x110x200	1,4
10202	**SH17531**	175	400V~	700x110x200	1,4
10203	**SH25021**	250	230V~	1000x110x200	1,9
10204	**SH25031**	250	400V~	1000x110x200	1,9
10206	**SH37521**	375	230V~	1500x110x200	2,9
10207	**SH37531**	375	400V~	1500x110x200	2,9

*) Height with brackets.

Fan convector PF Smart ⚡

PFS

PFSS

PFSH

Art.nr	Type	Output [W]	Airflow [m³/h]	Sound level* [dB(A)]	Voltage [V]	LxHxD [mm]	Weight [kg]
Fan convector PFSE with 1.2 m cord and plug. (IP24)							
87660	**PFSE4**	400	40/60	26,5/37	230V~	450x325x105	4,1
87661	**PFSE10**	1000	60/100	28/38,5	230V~	660x325x105	5,8
87662	**PFSE17**	1750	100/150	29/40,5	230V~	940x325x105	8,1
Fan convector PFSD for fixed installation. (IP24)							
87663	**PFSD4**	400	40/60	26,5/37	400V2~	450x325x105	4,1
87664	**PFSD10**	1000	60/100	28/38,5	400V2~	660x325x105	5,8
87665	**PFSD17**	1750	100/150	29/40,5	400V2~	940x325x105	8,1

*) Conditions: Distance to the unit 2 metres. Directional factor: 2. Equivalent absorption area: 12,75 m². At lowest/highest airflow.

Accessories

Art.nr	Type	Description
87670	**PFSS4**	Floor stand for PFSE4
87671	**PFSS10**	Floor stand for PFSE10
87672	**PFSS17**	Floor stand for PFSE17
87674	**PFSH**	Hub for wifi connection and control via Frico app. Can control up to 50 zones.
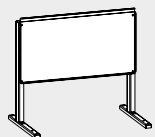
Convectors

Ceiling convector TKW 💧❄

TKW

TKW + TKWFG

TKW + TKWDG

Art.nr	Type	Heat output*[1] [kW]	Cooling output*[2] (total) [kW]	Cooling output*[2] (sensible) [kW]	Airflow [m³/h]	LxWxH [mm]
Ceiling convector TKW, 2-pipe system, with water heating/cooling (IPX0)						
414580	TKW202EC	2,71	2,38	1,98	660	569x629x298
414581	TKW302EC	3,65	3,99	3,04	735	569x629x298
414582	TKW402EC	5,23	4,69	3,61	900	569x629x298
414583	TKW502EC	7,32	6,90	4,72	980	825x885x298
414584	TKW602EC	9,10	7,22	5,44	1160	825x885x298
414585	TKW702EC	11,8	9,58	7,15	1600	825x885x298
Ceiling convector TKW, 4-pipe system, with water heating/cooling (IPX0)						
414592	TKW204EC	0,97	2,00	1,86	660	569x629x298
414593	TKW304EC	3,16	3,37	2,64	735	569x629x298
414594	TKW404EC	3,36	4,01	3,29	900	569x629x298
414595	TKW604EC	5,82	6,64	5,12	1160	825x885x298
414596	TKW704EC	8,11	7,93	6,28	1600	825x885x298

*[1]) Applicable at water temperature 50/40 °C, air temperature, in +20 °C.
*[2]) Applicable at water temperature +7/12 °C, air temperature in +27 °C, relative humidity 47%.

TKWFG

TKWDG

TKWDT

FCR230   ECG1

TG-A1/PT1000

VPTK

Art.nr	Type	Description	TKW20-40	TKW50-70
Accessories				
372698	TKWFG6	Front grille 600x600	•	
372706	TKWFG9	Front grille 900x900		•
247276	TKWDG6A	Design front grille 360° 600x600	•	
247278	TKWDG9A	Design front grille 360° 900x900		•
247277	TKWDG6B	Design front grille 180° 600x600	•	
247279	TKWDG9B	Design front grille 180° 900x900		•
157024	TKWDT6	Drip tray	•	
157025	TKWDT9	Drip tray		•
Controls				
76649	FCR230	Room regulator 0-10, IP20		
11929	ECG1	External room temperature sensor, IP30		
7284	TG-A1/PT1000	Clamp-on sensor PT1000, IP65		
157457	VPTK1504	Valve kit DN15 Kvs 0,4		
157458	VPTK1506	Valve kit DN15 Kvs 0,6		
157459	VPTK2025	Valve kit DN20 Kvs 2,5		
157460	VPTK2040	Valve kit DN20 Kvs 4,0		

Convectors

Air conditioner Soloclim ❄ New!

SCV

SC

Air conditioner Soloclim

Art.nr	Type	Cooling output*¹ [kW]	Heat output*² [kW]	Supply voltage [V-F-Hz]	LxHxD [mm]	Weight*³ [kg]
99115	SC23DCI*⁴	2,35	2,36	230-1-50	1010x549x165	41
99171	SC21DCI*⁴	2,04	2,10	230-1-50	1010x549x165	41
282044	SC17DCI-MINI*⁴	1,73	1,71	230-1-50	810x549x165	38
990587	SC23DCI1000*⁴*⁶	2,35	2,36	230-1-50	1010x549x165	41
999925	SCV21DCI*⁵	2,04	2,10	230-1-50	500x1398x185	57
999926	SCV23DCI*⁵	2,35	2,36	230-1-50	500x1398x185	57

*¹) ²) Conditions according to standard EN 14511
*³) Weight excl. refrigerant
*⁴) Horizontal
*⁵) Vertical
*⁶) Electric heater additional power 1 kW

SCKEG   SCRPK

SCSFH

SCK

Accessories

Art.nr	Type	Description	LxHxD [mm]	Weight [kg]
282045	SCKEG162	External grille kit, 2 pcs	180x180x20	0,5
282046	SCRPK	Rain protection kit, 2 pcs	230x120x170	0,76
990547	SCSFH1	Bottom plate for high installation	940x15x155	1
999945	SCKL	Lateral kit for outlet on the left side	1006x505x165	22,9
999946	SCKR	Lateral kit for outlet on the right side	1006x505x165	22,9

Air conditioner Climobile ❄ New!

CLIMOB

Mobile air conditioner CLIMOB (IP21) R290

Art.nr	Type	Cooling output [W]	Heat output [W]	Sound level*¹ [dB(A)]	Amperage Heat/cooling [A]	DxHxW [mm]	Weight [kg]
990574	CLIMOB09	2650	N/A	52/54	230V	430x730x360	28
990575	CLIMOB12	3520	N/A	54/56	230V	430x730x360	29
999041	CLIMOB12R*²	3520	3300	54/56	230V	430x730x360	29

*¹) Distance to unit 3 meters.
*²) Reversible.

Dehumidifier Sunnan 💧 New!

SUN12

Dehumidifier SUN12 (IP21) R290

Art.nr	Type	Dehumidification*¹ [l]	[W]	Airflow [m³/h]	Sound level*² [dB(A)]	Voltage [V]	DxHxW [mm]	Weight [kg]
247274	SUN12	12	155	80/105	33/42	230V	250x463x300	11,5

*¹) Conditions: 30°C 80% RH, 24 h.
*²) Distance to unit 3 meters.

SUN30

Dehumidifier SUN30 (IPX4) R290

Art.nr	Type	Dehumidification*¹ [l]	[W]	Airflow [m³/h]	Sound level*² [dB(A)]	Voltage [V]	DxHxW [mm]	Weight [kg]
247275	SUN30	30	660	200/280	47/51	230V	337xx528x327	18,5

*¹) Conditions: 30°C 80% RH, 24 h.
*²) Distance to unit 3 meters.

Convectors

FC Control System

One system, numerous possibilities

Frico air curtains come with an integrated PC-board and are supplemented with the intelligent control system FC of your choice, working together to create many smart and energy saving features. There are four different packages to choose from, depending on your requirements, and extra components can be added to expand and customize the system. Please contact us to assemble a package suited to your specific needs.

FC Direct

Entry level
- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

FC Smart

FC Direct +
- Control via app (Bluetooth)
- Wireless sensors possible
- Enhanced water control possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility

FC Pro

FC Direct + FC Smart +
- Automatic air flow control
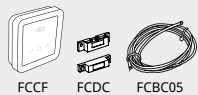- Automatic heat blocking

FC Building – BMS

FC Direct +
- 0-10V, potential free contact or Modbus
- Automatic air flow control*
- Automatic heat blocking*
- Enhanced water control possible
- Heat and fan settings
- Alarm indication
- Read values
- ** Requires outdoor temp signal*

Controls

FCDA - FC Direct

FCCF   FCDC   FCBC05

Art.nr	Type	Description
74684	**FCDA**	FC Direct, first level control system
74685	**FCSA**	FC Smart, second level control system
74686	**FCPA**	FC Pro, third level control system
74687	**FCBA**	FC Building, BMS system

FCSA - FC Smart

FCCF   FCDC   FCBC10   FCLAP

FCPA - FC Pro

FCCF   FCDC   FCBC10   FCLAP   FCTXRF

FCBA - FC Building

FCCF   FCDC   FCBC10   FCBA

FCLAP

FCBC10

FCRTX

FCSC10

FCOTX

FCSC10

FCDC   FCTXRF

FCBC/FCSC   FCWTA

Accessories FC Control

Art.nr	Type	Description
74684	**FCDA**	Extra FC Direct for creating zones
74699	**FCLAP**	Local access point for extra wireless sensors or app control (Bluetooth), incl. 10 m communication cable, FC, IP44
74694	**FCRTX**	External room temperature sensor, incl. 10 m sensor cable, FC, IP20
74695	**FCOTX**	Outdoor temperature sensor, incl. 10 m sensor cable, IP44
74703	**FCTXRF**	Wireless indoor/outdoor temperature sensor, FC, IP44
17495	**FCDC**	Door contact
74718	**FCBC05**	Extra communication cable, FC, 5 m
74719	**FCBC10**	Extra communication cable, FC, 10 m
74720	**FCBC25**	Extra communication cable, FC, 25 m
74721	**FCSC10**	Extra sensor cable, FC, 10 m
74722	**FCSC25**	Extra sensor cable, FC, 25 m
74702	**FCWTA**	Return water temperature sensor, FC

Thermostats

TAP16R   PLTB16R

TP8

T10S   TK10S

TKS16/400   TD10

RTI2   RTI2V

KRT1900/01   KRTV19
KRT2800

TBK10   TBKS10

RTS01   TEP44   RTX54

PLTBF   SKG30

Art.nr	Type	Voltage [V]	Max input [A]	Setting range [°C]	Protection class	HxWxD [mm]
Programmable thermostats						
92790	**TAP16R**	230V~	16	5–37	IP21	87x87x52
276542	**PLTB16R**	230V~	16	5–37	IP21	87x87x52
11661	**TP8**	230V~	8	5–35	IP30	87x125x34
T, TK, TD, basic offer thermostats						
24727	**T10S**	230V~	10	5–30	IP30	80x80x31
24728	**TK10S**	230V~	10	5–30	IP30	80x80x31
11651	**TKS16**	230V~	16	5–30	IP30	80x80x39
11652	**TKS16400**	400V2~	16	5–30	IP30	80x80x39
11653	**TD10**	230V~	10	5–37	IP30	80x80x31
RTI2, electronic 2-step thermostats						
10231	**RTI2**	230V~	16/10, 230/400V~	5–35	IP44	155x87x43
10741	**RTI2V**	230V~	16/10, 230/400V~	5–35	IP44	155x87x43
KRT, capillary tube thermostats						
5999	**KRT1900**	-	16/10, 230/400V~	0–40	IP55	165x57x60
10211	**KRT1901**	-	16/10, 230/400V~	-35–+10	IP55	165x57x60
10214	**KRTV19**	-	16/10, 230/400V~	0–40	IP44	165x57x60
5989	**KRT2800**	-	16/10, 230/400V~	0–40	IP55	165x57x60
TBK, bimetal thermostats						
11663	**TBK10**	230V~	10	5–30	IP30	85x82x39
11664	**TBKS10**	230V~	10	5–30	IP30	80x80x43

Accessories

Art.nr	Type	Description
10250	**RTS01**	External room temperature sensor, NTC10KΩ
205540	**TEP44**	Protective enclosure for TAP16R, IP44. Must be supplemented with RTX54.
93044	**RTX54**	External room temperature sensor. Replaces internal sensor. NTC10KΩ, IP54
276543	**PLTBF**	Frame for wall mounting of PLTB16R
205550	**SKG30**	Black bulb sensor, NTC10KΩ, IP30

Regulators and control systems

CIRT   PDK65

PDK65S   PAMP10

PE   RE

CFR1R   S123

RB3   RB123

CBT

| Art.nr	Type	Voltage [V]	Max input [A]	Protection class	HxWxD [mm]	Resistance [kOhm]
CIRT, stepless output control with timer						
10739	**CIRT**	230/400V(2~)	16	IP44	155x87x43	
PDK65, presence detector with power supply						
211780	**PDK65**	230V~	10	IP42	88x88x39	
PDK65S, additional presence detector to PDK65						
211781	**PDK65S**	230V~	10	IP42	102x70x50	
PAMP10, external potentiometer						
87675	**PAMP10**	230V~	4	IP54/44	82x82x65	10
PE, variable fan speed control						
11812	**PE1**	230V~	1,0	IP44/54*	82x82x65	
11813	**PE2,5**	230V~	2,5	IP44/54*	82x82x65	
RE, 5-step control						
5000	**RE1,5**	230V~	1,5	IP54	200x105x106	
5001	**RE3**	230V~	3	IP54	200x105x106	
5002	**RE5**	230V~	5	IP54	200x105x106	
5003	**RE7**	230V~	7	IP54	247x147x145	
CFR1R, 5-step control						
11814	**CFR1R**	230V~	0,4	IPX0	120x120x60	
S123, manual switch for 1-2-3 steps						
11733	**S123**	230/400V~	20	IP44	72x64x46	
RB3, relaybox 400V3N~						
93012	**RB3**	400V3~	16	IP44	155x87x43	
RB123, relaybox with 3 step output control						
205688	**RB123**	400V3~	16	IP44	155x87x43	
CBT, electronic timer						
10740	**CBT**	230V~	16	IP44	155x87x43	

*) External mounting (IP54) or recessed mounting (IP44).

Regulators and control systems
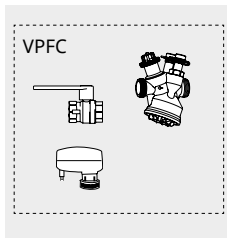
ERP, electric heating control

Art.nr	Type	Voltage [V]	Max input [A]	Protection class	HxWxD [mm]
10243	**ERP**	230/400V~	16	IP20	153x93x40
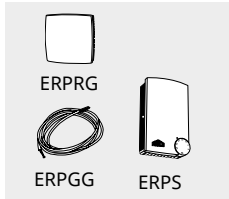
Accessories

Art.nr	Type	Description
10260	**ERPRG**	Room sensor ERP
10244	**ERPGG**	Floor/duct sensor ERP
10245	**ERPS**	Electric heating control (slave unit), IP20

Water control

Valve systems for FC Control

Art.nr	Type	Description
238293	**VPFC15LF**	Pressure independent and modulating valve system, low flow, DN15
238294	**VPFC15NF**	Pressure independent and modulating valve system, DN15
238295	**VPFC20**	Pressure independent and modulating valve system, DN20
238296	**VPFC25**	Pressure independent and modulating valve system, DN25
238297	**VPFC32**	Pressure independent and modulating valve system, DN32
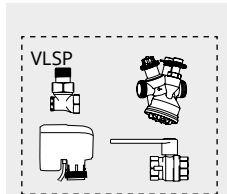
Valve systems for SIRe Basic and Competent and compact air curtains

Art.nr	Type		DN
VLSP, pressure independent valve system on/off			
79379	**VLSP15LF**	Low flow	DN15
79380	**VLSP15NF**		DN15
79381	**VLSP20**		DN20
79382	**VLSP25**		DN25
79417	**VLSP32**		DN32
VOT, three way control valve and actuator on/off			
19031	**VOT15**		DN15
19032	**VOT20**		DN20
19033	**VOT25**		DN25
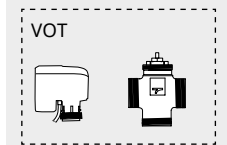
Valve systems for SIRe Advanced

Art.nr	Type		DN
VLP, pressure independent and modulating valve system			
79375	**VLP15LF**	Low flow	DN15
79376	**VLP15NF**		DN15
79377	**VLP20**		DN20
79378	**VLP25**		DN25
79416	**VLP32**		DN32
VMT, three way control valve and modulating actuator			
19034	**VMT15**		DN15
19035	**VMT20**		DN20
19036	**VMT25**		DN25
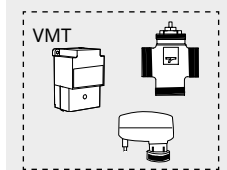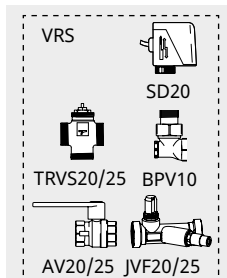
Other valve systems

Art.nr	Type	Description	DN
24733	**VRS20**	Valve kit DN20	DN20
24734	**VRS25**	Valve kit DN25	DN25
24729	**TVVS20**	2-way control valve DN20	DN20
24730	**TVVS25**	2-way control valve DN25	DN25
19019	**TRVS20**	3-way control valve DN20	DN20
19020	**TRVS25**	3-way control valve DN25	DN25
10073	**SD20**	Actuator on/off	-

ERPRG

ERPGG   ERPS

VPFC

VLSP

VOT

VLP

VMT

VRS   SD20

TRVS20/25 BPV10

AV20/25 JVF20/25

TVVS

TRVS   SD20
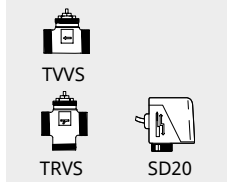
Technical data

Enclosure classes for electrical materials

IP, first figure	Protection against solid objects
0	No protection
1	Protection against solid objects ≥ 50 mm
2	Protection against solid objects ≥ 12.5 mm
3	Protection against solid objects ≥ 2.5 mm
4	Protection against solid objects ≥ 1.0 mm
5	Protection against dust
6	Dust-tight

IP, second figure	Protection against water
0	No protection
1	Protection against vertically dripping water
2	Protection against dripping water max 15°
3	Protection against sprinkled water
4	Protection against spraying with water
5	Protection against water jets
6	Protection against heavy seas
7	Protection against short immersion in water
8	Protection against the effects of long-term immersion in water

How is sound measured?

Sound level is measured in decibel (dB). The dB is a logarithmic unit used to describe a ratio. If the sound level is increased by 10 dB, the result is twice as loud (mathematically it is 6 dB, but the way we hear it, it is 10 dB).

It is also useful to know that two equally strong sound sources give an added sound level of 3 dB. Assume you have two entrances with two air curtains in each entrance, all four units with a sound level of 50 dB. The total sound level will then be 56 dB. The first opening will have a total sound level of 53 dB plus an extra 3 dB from the other opening.

Points of reference – dB

0	The softest sound a person can hear
10	Normal breathing
30	Recommended max. level for bedrooms
40	Quiet office, library
50	Large office
60	Normal conversation
80	Ringing telephone
85	Noisy restaurant
110	Shouting in ear
120	The threshold of pain

Sound pressure: Our sound measurements are carried out according to the international standards BS 848, AMCA 210-85 and DIN 24 163. The distance to the product is 5 m, directivity factor 2 and the equivalent absorption area is 200 m², unless otherwise stated.

Sound power: Measurements according to ISO 27327-2: 2014, Installation type E.

Heat insulation, U-value
U = thermal transmittance value [W/m² °C]
U-values indicate the heat insulating capacity of a building section.

Material	U-value [W/m² °C]
Walls	
New building	
Wooden fascia with 15 cm insulation and plaster	0,27
Wooden fascia with 20 cm insulation and plaster	0,25
Wooden fascia with 25 cm insulation and plaster	0,22
Brick fascia with 15 cm insulation and plaster	0,27
Brick fascia with 20 cm insulation and plaster	0,24
Light concrete with 15 cm insulation	0,25
Light concrete with 20 cm insulation	0,2
Sheet metal fascia with 5 cm insulation	0,8
Sheet metal fascia with 10 cm insulation	0,4
Sheet metal fascia with 15 cm insulation	0,3
New construction for low energy house	0,18
Warehouse	0,3
One layer PVC (900 g)	5,0
Insulated hall (Thermohall)	0,6
Older building	
Single brick 12 cm	1,8
1 1/2 brick 18 cm	1,1
Light concrete block 20 cm	0,8
Light concrete block 30 cm	0,6
Concrete 15 cm	2,8
Concrete with 5 cm insulation	0,8
Concrete with 10 cm insulation	0,4
Frame wall with 5 cm insulation	0,8
Frame wall with 10 cm insulation	0,4
Frame wall with 15 cm insulation	0,3
New construction	0,3
Roof	
New building	
Sheet metal pitched roof, with 20 cm insulation	0,24
Brick pitched roof, with 20 cm insulation	0,23
Older building	
Concrete beam frame 15 cm	2,8
Concrete beam frame with 5 cm insulation	0,8
Concrete beam frame with 10 cm insulation	0,4
Light concrete 20 cm	0,8
Light concrete 30 cm	0,6
Sheet metal roof, uninsulated	4,0
Sheet metal roof with 5 cm insulation	0,8
Sheet metal roof with 10 cm insulation	0,6
Sheet metal roof with 25 cm insulation	0,2
Windows	
New building	
1+1 pane window (1 outer pane and 1 insulated pane)	2,5
2 pane window (2 insulated panes)	2,7
2+1 pane window (1 outer pane and 2 insulated panes)	1,0
3 pane window (3 insulated panes)	1,2
Energy class A	0,9
Energy class B	1,0
Energy class C	1,1
Energy class D	1,2
Energy class E	1,3
Energy class F	1,4
Energy class G	1,5
Older building	
1 pane window	5,0
2 pane window	3,0
3 pane window	2,0
3 pane window insulation pane	1,8

Technical data

quality

best
performance

design
that lasts

Frico's head office is located outside Gothenburg in Sweden and we are a part of the Systemair Group. Today Frico is represented in 70 countries worldwide either by subsidiaries or distributors. Updated information is always available on our website www.frico.net.

We manufacture at production units in Skinnskatteberg, Sweden and at other ISO-certified production units in Europe. Our warehouses are strategically placed in several places in Europe.

Follow us on LinkedIn to get the latest information.