

CHILLED WATER TERMINAL UNITS

Wesper



FCW

Concealed

FCCW

Cabinet fitted



MAIN FEATURES

- Cooling capacities between 0.9 and 11 kW
- Can be combined with the entire range of KRONO and ADVANCE liquid chillers.
- Horizontal or vertical configuration
- Cabinet fitted or concealed version
- 4 installation options:
 - FCW 3R: concealed with 2 pipes
 - FCCW 3R: cabinet fitted with 2 pipes
 - FCW 3R+1: concealed with 4 pipes
 - FCCW 3R+1: cabinet fitted with 4 pipes
- Different options for air intake or air discharge:
 - FCCW: version V vertical
 - FCCW: version H horizontal
 - FCW: version V vertical
 - FCW: version H horizontal



Advantages

Water terminal units for the hotel and offices sector. The FCW-FCCW is a terminal unit equipped with centrifugal fan. It features a modern design and can be installed in any environment.

Options

ENERGY EFFICIENCY

- Brushless DC motor

UNIT INSTALLATION

- High pressure motors to 60 Pa
- 3-way valve for 2-pipe model
- Shut-off valve and control valve for 2-pipe model
- 3-way valve for 4-pipe model
- Shut-off valve and control valve for 4-pipe model
- Secondary condensate tray
- Support base

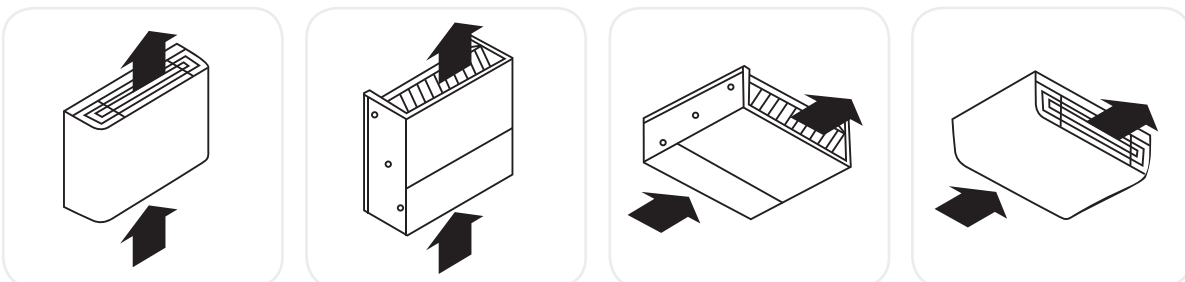
CONTROLS

- Electronic thermostat

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

Air inlet/outlet configuration options



FCW 3R / FCCW 3R (2 pipes) TECHNICAL SPECIFICATIONS

MODEL		10	15	20	25	30	40
Water cooling capacity	kW	0.9	1.3	2.2	2.5	3.1	3.5
Water cooling capacity (*)	kW	0.9	1.7	2.5	2.8	3.9	4.4
Water cooling capacity	T.R.	0.2	0.4	0.6	0.7	0.9	1.0
Water heating capacity 50°C	kW	1.3	1.9	2.6	3.3	3.7	4.5
Water heating capacity 50°C (*)	kW	1.6	2.3	3.0	3.6	4.4	4.9
Water heating capacity 70/60°C	kW	2.2	3.2	4.4	5.5	6.2	7.5
Absorbed power	W	30	30	40	50	60	80
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1	230.1	230.1
Air flow (1)	m³/h	227	289	404	453	575	685
Air flow (*)	m³/h	277	410	533	530	811	815
Water flow	l/h	148	220	373	435	535	662
Water connections	Ø (")	3/4	3/4	3/4	3/4	3/4	3/4
Sound pressure (2)	dB(A)	37	36	35	38	38	43
Sound pressure (2) (*)	dB(A)	50	56	50	52	56	57
Weight	kg	15.6	18.9	23.7	23.9	27.7	27.9
Dimensions (height x length x width) (2)	mm	480x660x225	480x860x225	480x1060x225	480x1060x225	480x1260x225	480x1260x225

MODEL		50	60	70	80	100	110
Water cooling capacity	kW	4.1	5.6	6.9	8.0	10.0	11.0
Water cooling capacity (*)	kW	5.4	7.2	7.5	8.7	-	-
Water cooling capacity	T.R.	1.2	1.6	2.0	2.3	2.8	3.1
Water heating capacity 50°C	kW	5.1	6.7	8.1	10.1	13.1	13.3
Water heating capacity 50°C (*)	kW	5.8	8.2	8.7	10.9	-	-
Water heating capacity 70/60°C	kW	8.6	11.3	13.7	16.9	22.0	23.8
Absorbed power	W	70	160	180	213	277	273
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1	230.1	230.1
Air flow (1)	m³/h	708	1058	1242	1356	2012	2003
Air flow (*)	m³/h	864	1513	1416	1505	-	-
Water flow	l/h	745	961	1187	1376	1727	1898
Water connections	Ø (")	3/4	3/4	3/4	3/4	3/4	3/4
Sound pressure (2)	dB(A)	43	49	55	54	58	57
Sound pressure (2) (*)	dB(A)	58	68	68	66	-	-
Weight	kg	32.7	38.0	38.5	50.0	58.5	59.0
Dimensions (height x length x width) (2)	mm	585x1260x225	585x1460x225	585x1460x225	602x1660x257	602x1960x257	602x1960x257

FCW 3R+1/ FCCW 3R+1 (4 pipes) TECHNICAL SPECIFICATIONS

MODEL		10	15	20	25	30	40
Water cooling capacity	kW	0.8	1.2	20.8	2.4	2.8	3.7
Water cooling capacity (*)	kW	0.9	1.6	2.6	2.7	3.7	4.2
Water cooling capacity	T.R.	0.2	0.3	5.9	0.7	0.8	1.0
Water heating capacity 70/60°C	kW	1.3	1.9	2.7	2.9	3.5	4.1
Water heating capacity 70/60°C (*)	kW	1.6	2.3	3.2	3.2	4.2	4.5
Absorbed power	W	30	30	40	56	60	80
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1	230.1	230.1
Air flow (1)	m³/h	216	275	384	430	546	651
Air flow (*)	m³/h	264	391	507	503	770	775
Water flow	l/h	144	212	358	409	509	635
Water connections	Ø (")	3/4	3/4	3/4	3/4	3/4	3/4
Sound pressure (2)	dB(A)	36	38	35	38	37	44
Sound pressure (2) (*)	dB(A)	50	56	50	52	56	57
Weight	kg	15.6	18.9	23.7	23.9	27.7	27.9
Dimensions (height x length x width) (2)	mm	480x660x225	480x860x225	480x1060x225	480x1060x225	480x1260x225	480x1260x225

MODEL		50	60	70	80	100	110
Water cooling capacity	kW	4.5	2.4	6.6	7.7	9.7	10.7
Water cooling capacity (*)	kW	5.2	6.8	7.2	8.4	-	-
Water cooling capacity	T.R.	1.3	0.7	1.9	2.2	2.8	3.0
Water heating capacity 70/60°C	kW	5.0	6.2	7.7	8.4	10.1	11.4
Water heating capacity 70/60°C (*)	kW	5.7	7.6	8.2	9.1	-	-
Absorbed power	W	78	160	180	182	273	273
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1	230.1	230.1
Air flow (1)	m³/h	673	1005	1180	1291	1916	1908
Air flow (*)	m³/h	821	1437	1345	1433	-	-
Water flow	l/h	769	920	1130	1330	1673	1837
Water connections	Ø (")	3/4	3/4	3/4	3/4	3/4	3/4
Sound pressure (2)	dB(A)	44	50	56	54	58	58
Sound pressure (2) (*)	dB(A)	58	68	68	66	-	-
Weight	kg	32.7	38.0	38.5	50.0	58.5	59.0
Dimensions (height x length x width) (2)	mm	585x1260x225	585x1460x225	585x1460x225	602x1660x257	602x1960x257	602x1960x257

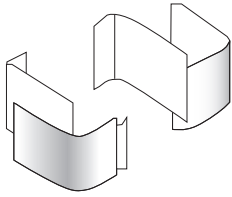
(1) 0 Pa static pressure available

(2) Considered 8.6 dB(A) less in relation to the sound power in an area of 90 m³ with a reverberation time of 0.5 sec.

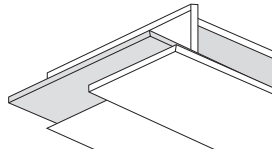
Data calculated at full speed

(*) At speed 6: configurable on request

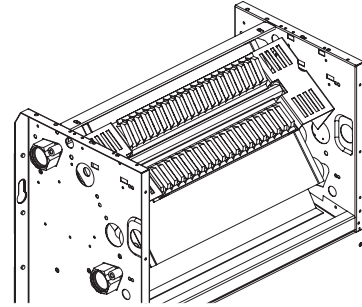
Options



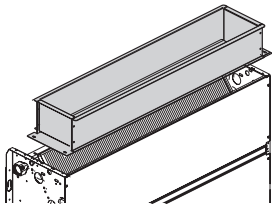
Fancoil supports kit



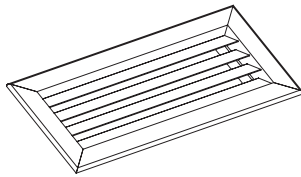
Secondary trays for condensates



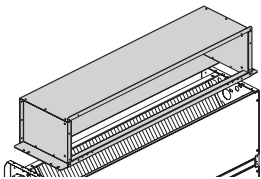
Electric heating coils. Safety thermostat included (230-i)



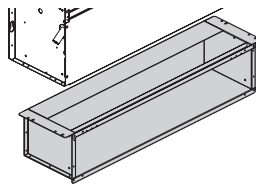
Supply plenum for units without cabinet



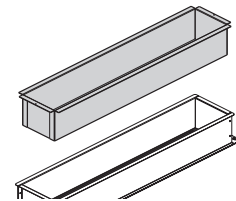
Adjustable air grilles for units without cabinet



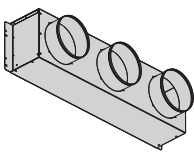
90° supply plenum for unit without cabinet



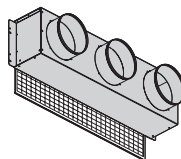
Return air plenum for units without cabinet



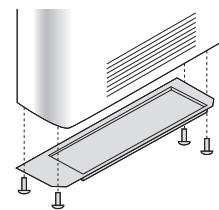
Extension for straight and 90° plenum for units without cabinet



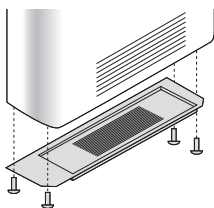
Supply plenum with spigots for unit without cabinet



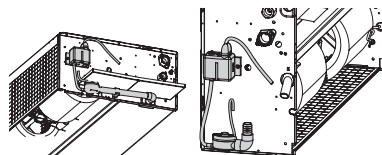
Return air plenum with spigots and filter for units without cabinet



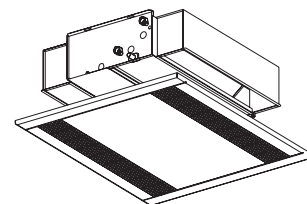
Painted lower panel without grille for units without cabinet



Painted lower panel with filter and grille for units with cabinet

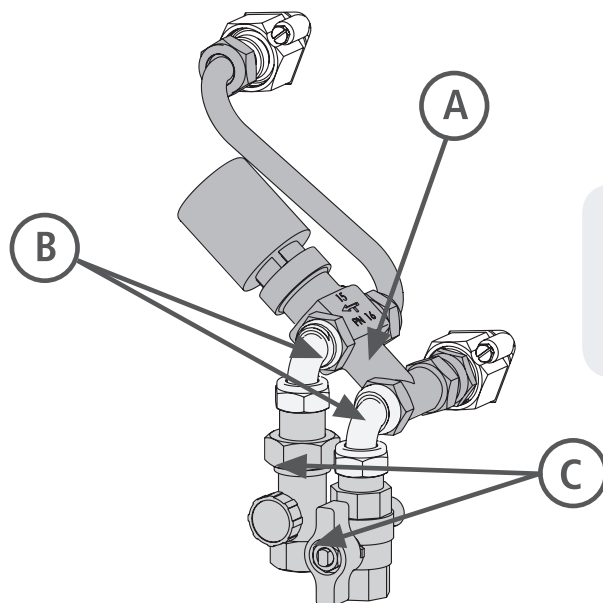


Condensate pumps



Painted ceiling panel plus return air plenum and 90° supply plenum for units without cabinet

Options



COMPONENTS

- A. Valve + actuator
- B. Elbow connectors
- C. Shut-off/control valve

IMPORTANT:

The elbow connectors are not supplied with the valves. To be ordered separately.

FOR MODELS	DESCRIPTION	Ø "
FCW 1-6	2-pipe, 3-way system	1/2
FCW 1-6	2-pipe, 3-way system floating at 3 points	1/2
FCW 1-6	2-pipe, 3-way system modulating 0-10 V	1/2
FCW 1-6	4-pipe, 3-way system	1/2 - 1/2
FCW 1-6	4-pipe, 3-way system floating at 3 points	1/2 - 1/2
FCW 1-6	4-pipe, 3-way system modulating 0-10 V	1/2 - 1/2
FCW 1-6	2-pipe, 2-way system	1/2
FCW 1-6	2-pipe, 3-way system floating at 3 points	1/2
FCW 1-6	2-pipe, 3-way system modulating 0-10 V	1/2
FCW 1-6	4-pipe, 2-way system	1/2 - 1/2
FCW 1-6	4-pipe, 3-way system floating at 3 points	1/2 - 1/2
FCW 1-6	4-pipe, 3-way system modulating 0-10 V	1/2 - 1/2
FCW 1-6	Shut-off/control valve. 2-pipe system	1/2
FCW 1-6	Shut-off/control valve. 4-pipe system	1/2 - 1/2
FCW 1-6	2 shut-off valves. 2-pipe system	1/2
FCW 1-6	2 shut-off valves. 4-pipe system	1/2 - 1/2
FCW 1-6	Elbow connectors. 2-pipe system	-
FCW 1-6	Elbow connectors. 4-pipe system	-
FCW 70-90	2-pipe, 3-way system	3/4
FCW 70-90	2-pipe, 3-way system floating at 3 points	3/4
FCW 70-90	2-pipe, 3-way system modulating 0-10 V	3/4
FCW 70-90	4-pipe, 3-way system	3/4 - 3/4
FCW 70-90	4-pipe, 3-way system floating at 3 points	3/4 - 3/4
FCW 70-90	4-pipe, 3-way system modulating 0-10 V	3/4 - 3/4
FCW 70-90	2-pipe, 2-way system	3/4
FCW 70-90	2-pipe, 2-way system floating at 3 points	3/4
FCW 70-90	2-pipe, 3-way system modulating 0-10 V	3/4
FCW 70-90	4-pipe, 2-way system	3/4 - 3/4
FCW 70-90	4-pipe, 2-way system floating at 3 points	3/4 - 3/4
FCW 70-90	4-pipe, 3-way system modulating 0-10 V	3/4 - 3/4
FCW 70-90	Shut-off/control valve. 2-pipe system	3/4
FCW 70-90	Shut-off/control valve. 4-pipe system	3/4 - 3/4
FCW 70-90	2 shut-off valves. 2-pipe system	3/4
FCW 70-90	2 shut-off valves. 4-pipe system	3/4 - 3/4
FCW 70-90	Elbow connectors. 2-pipe system	-
FCW 70-90	Elbow connectors. 4-pipe system	-

FOR MODELS	DESCRIPTION	Ø "
FCW 100-120	2-pipe, 3-way system	1
FCW 100-120	2-pipe, 3-way system floating at 3 points	1
FCW 100-120	2-pipe, 3-way system modulating 0-10 V	1 - 3/4
FCW 100-120	4-pipe, 3-way system	1 - 3/4
FCW 100-120	4-pipe, 3-way system floating at 3 points	1 - 3/4
FCW 100-120	4-pipe, 3-way system modulating 0-10 V	1
FCW 100-120	2-pipe, 2-way system	1
FCW 100-120	2-pipe, 2-way system floating at 3 points	1
FCW 100-120	2-pipe, 3-way system modulating 0-10 V	1 - 3/4
FCW 100-120	4-pipe, 2-way system	1 - 3/4
FCW 100-120	4-pipe, 2-way system floating at 3 points	1 - 3/4
FCW 100-120	4-pipe, 3-way system modulating 0-10 V	1
FCW 100-120	Shut-off/control valve. 2-pipe system	1 - 3/4
FCW 100-120	Shut-off/control valve. 4-pipe system	1
FCW 100-120	2 shut-off valves. 2-pipe system	1 - 3/4
FCW 100-120	2 shut-off valves. 4-pipe system	-
FCW 100-120	Elbow connectors. 2-pipe system	-
FCW 100-120	Elbow connectors. 4-pipe system	-

Other accessories

- Fresh air damper kits
- Rear closure panel for units with cabinet
- Supply grilles for units with cabinet
- Other accessories: please contact our Sales Department

FKW

With infrared remote control

FKWS

Without infrared remote control

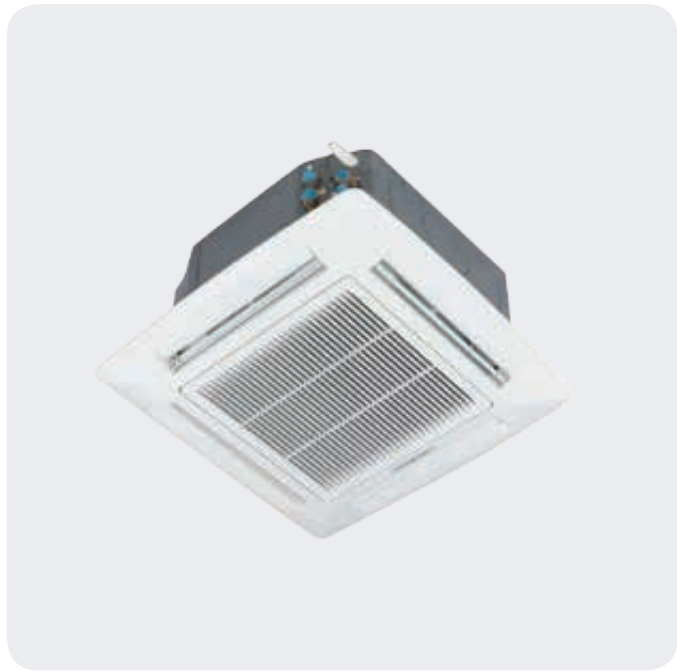


MAIN FEATURES

- › Cooling capacities between 2.4 and 7.6 kW
- › 2 versions:
 - FKW (with own infrared remote control)
 - FKWS (without control and ready to be installed with wall-mounted control)
- › 2 dimensions: 580x580 and 835x835 mm
- › Removable filter. Easy maintenance
- › Valves not installed. Supplied separately
- › Integrated condensate drain pump
- › Connector tubes supplied separately

Advantages

Units can be built into false ceilings for office buildings sector. The cassette fan coil is an ambient air handling terminal unit that works just as well in winter as in summer. Specially designed with standard dimensions for installation in false ceilings.



Options

ENERGY EFFICIENCY

- › 3-way valve for 2-pipe model
- › Shut-off valve and control valve for 2-pipe model
- › Elbow connectors for 2-pipe installation
- › 3-way valve for 4-pipe model
- › Shut-off valve and control valve for 4-pipe model
- › Elbow connectors for 4-pipe installation

CONTROLS

- › Wall-mounted electronic thermostat

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

FKW Model with control FKWS Model without control. 2-pipe installation. TECHNICAL SPECIFICATIONS

MODEL		21	22	23	24
Water cooling capacity 7/12°C	kW	2.4	2.8	3.3	4.5
Water cooling capacity 7/12°C	T.R.	0.7	0.8	0.9	1.3
Water heating capacity 50°C	kW	3.4	3.8	4.5	5.3
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Standard water coil connections	Ø (")	3/4	3/4	3/4	3/4
Sound pressure (1)	dB(A)	50	50	53	55
Weight	kg	23.5	24.5	24.5	24.5
Dimensions (length x height x width)	mm	580x580x280+23	580x580x280+23	580x580x280+23	580x580x280+23
MODEL		31	32	33	34
Water cooling capacity 7/12°C	kW	5.6	6.4	7.1	7.6
Water cooling capacity 7/12°C	T.R.	1.6	1.8	2.0	2.2
Water heating capacity 50°C	kW	7.3	7.3	8.0	8.3
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Standard water coil connections	Ø (")	3/4	1	1	1
Sound pressure (1)	dB(A)	47	49	52	52
Weight	kg	37	43	43	45
Dimensions (length x height x width)	mm	835x835x240+60	835x835x305+60	835x835x305+60	835x835x305+60

FKW Model with control **FKWS** Model without control. **4-pipe installation. TECHNICAL SPECIFICATIONS**

MODEL		41	42	43	44
Water cooling capacity 7/12°C	kW	1.9	2.8	3.5	4.4
Water cooling capacity 7/12°C	T.R.	0.5	0.8	1.0	1.3
Water heating capacity 60/70°C	kW	1.9	2.8	3.5	4.4
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Standard water coil connections	Ø (")	3/4	3/4	3/4	3/4
Secondary water coil connections	Ø (")	1/2	1/2	1/2	1/2
Sound pressure (1)	dB(A)	50	50	53	55
Weight	kg	23.5	24.5	24.5	24.5
Dimensions (length x height x width)	mm	580x580x280+23	580x580x280+23	580x580x280+23	580x580x280+23
MODEL		51	52	53	54
Water cooling capacity 7/12°C	kW	4.3	5.0	5.5	6.1
Water cooling capacity 7/12°C	T.R.	1.2	1.4	1.5	1.7
Water heating capacity 70/60°C	kW	5.9	6.6	7.3	8.6
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Standard water coil connections	Ø (")	3/4	1	1	1
Secondary water coil connections	Ø (")	1/2	3/4	3/4	3/4
Sound pressure (1)	dB(A)	47	49	52	52
Weight	kg	37	43	43	45
Dimensions (length x height x width)	mm	835x835x240+60	835x835x305+60	835x835x305+60	835x835x305+60

(1) Considered 8.6 dB(A) less in relation to the sound power in an area of 90 m³ with a reverberation time of 0.5 sec.
Data calculated at full speed

FPW

Wall mounted fan coil unit



MAIN FEATURES

- › Cooling capacities between 2.0 and 4.0 kW
- › Easy maintenance
- › Valves built into the unit
- › 4 versions:
 - FPW (with own infrared remote control)
 - FPWS (without control and ready to be installed with wall-mounted control)
 - FPW+V3 (with infrared remote control and with 3-way valve)
 - FPWS+V3 (without infrared remote control and with 3-way valve)

Advantages

Solutions for low requirements with difficult installation location. The wall mounted fan coil unit is an ambient air handling terminal unit that works just as well in winter as in summer. It features an attractive design and outstanding comfort, with minimal sound levels.

FPW TECHNICAL SPECIFICATIONS

MODEL		20	25	35	40
Cooling capacity (1)	kW	2.0	2.4	3.3	4.0
Cooling capacity (1)	T.R.	0.6	0.7	0.9	1.1
Heating capacity (2)	kW	2.6	3.0	4.4	4.9
Heating capacity (3)	kW	4.4	5.0	7.5	8.3
Absorbed power	W	29	29	48	51
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Water flow	l/h	336	409	573	686
Water connections	Ø (")	1/2	1/2	1/2	1/2
Sound pressure (4)	db(A)	45	45	45	48
Dimensions (width x length x height)	mm	880x298x205	990x305x210	1172x360x220	1172x360x220
Weight	kg	11.5	12.4	19	20.5

(1) Water inlet 7°C, water outlet 12°C. Air temperature 27°C dry bulb, 19°C wet bulb.

(2) Water inlet 50°C. Air temperature 20°C

(3) Water inlet 60/70°C. Air temperature 20°C

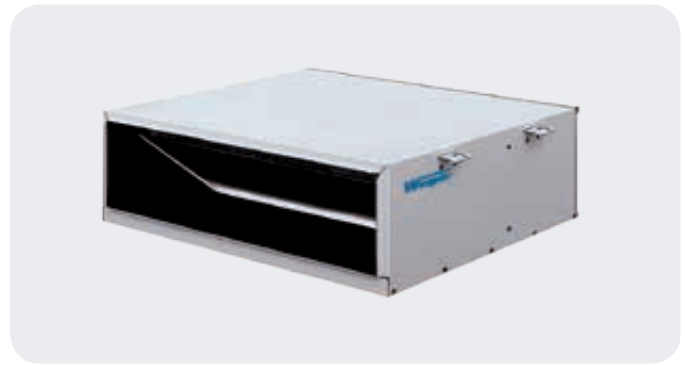
(4) Considered 8.6 dB(A) less in relation to the sound power in an area of 90 m³ with a reverberation time of 0.5 sec.

Data calculated at full speed

0 Pa external static pressure

BHW

Low silhouette ductable fan coil unit



MAIN FEATURES

- Cooling capacities between 4.5 and 25 kW
- Easy maintenance
- Maximum adaptability to the needs of the facility

Advantages

Flexible and versatile applications for water-based installations. The low silhouette ductable fan coil units are fitted with a heat exchanger constructed from copper tubes and aluminium fins. Centrifugal fans operated by three-speed motors.

Options

AIR QUALITY

- G4 gravimetric filter on return

SOUND LEVEL

- Double thermal-acoustic insulation

UNIT INSTALLATION

- 60Hz power supply and voltages of 230, 208 etc.
- Electrical board with fan contact, thermal and magneto-thermal relay
- Potentiated motors (depending on model)
- Opposite side connectors
- Supply plenum with grille
- Supply plenum with spigots (depending on the model)
- Thermal-acoustic insulation class M0
- Flame-proof filter class M0
- Hot water heating coils
- Additional coil for 4-pipe operation

- Auxiliary electric heating coils
- Pre-treated anti-corrosion coils
- Filter with bottom outlet
- Adaptable filter
- Main switch
- Suitable for vertical installation

MAINTENANCE

- Dirty filter detector
- Ductable filter

CONTROLS

- Compatible with Hydrofan
- Alarm signals
- Smoke detection
- Remote start/stop

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

BHW TECHNICAL SPECIFICATIONS

MODEL		174	205	358	410
Cooling capacity water temp. 7°C	Speed I-II-III (kW)	3.1 - 4.1 - 4.5	4.4 - 5.0 - 5.3	6.0 - 5.9 - 8.9	7.9 - 9.1 - 10.8
Heating capacity water temp. 50°C	Speed I-II-III (kW)	4.5 - 5.8 - 6.3	6.4 - 7.1 - 7.5	8.6 - 9.7 - 11.9	11.1 - 12.6 - 14.9
Heating capacity water temp. 70°C	Speed I-II-III (kW)	7.6 - 9.8 - 10.7	10.8 - 12.1 - 12.7	14.6 - 16.5 - 20.1	18.8 - 21.4 - 25.2
Total absorbed power	kW	0.2	0.3	0.5	0.6
Voltage (50 Hz~)	V	230.1	230.1	230.1	230.1
Water flow speed I-II-III	l/h	530 - 690 - 760	760 - 850 - 895	1030 - 1180 - 1440	1360 - 1560 - 1850
Air flow speed I-II-III	m³/h	600 - 900 - 1050	950 - 1130 - 1220	1100 - 1340 - 1850	1400 - 1700 - 2200
External static pressure speed I-II-III	mm WG	2 - 2.5 - 3	2.5 - 3 - 4	6 - 7 - 8	6 - 7.5 - 8
Water connection	Ø (")	3/4	3/4	3/4	3/4
Dimensions (width x length x height)	mm	829x791x219	829x791x258	915x791x285	915x791x315
Net weight	kg	30	34	44	45
MODEL		515	720	724	
Cooling capacity water temp. 7°C	Speed I-II-III (kW)	12.2 - 13.9 - 15.3	20.2	25.0	
Heating capacity water temp. 50°C	Speed I-II-III (kW)	16.1 - 18.2 - 19.7	26.5	32.7	
Heating capacity water temp. 70°C	Speed I-II-III (kW)	27.2 - 30.8 - 33.5	44.8	55.5	
Total absorbed power	kW	0.6	0.8	1.6	
Voltage (50 Hz~)	V	230.1	230.1	230.1	
Water flow speed I-II-III	l/h	2090-2360-2565	3365	4190	
Air flow speed I-II-III	m³/h	2200-2600-2900	3850	5200	
External static pressure speed I-II-III	mm WG	3 - 4 - 5.5	5	5	
Water connection	Ø (")	1	1 1/4	1 1/4	
Dimensions (width x length x height)	mm	1200x826x352	1350x900x412	1350x900x412	
Net weight	kg	62	80	80	

BSW

High static pressure ductable fan coil unit



MAIN FEATURES

- > Cooling capacities between 3.6 and 50.6 kW
- > High external static pressure: from 105 Pa
- > Standard model without filter. EU3 filter optional
- > 2 versions: BSW H (horizontal installation) and BSW V (vertical installation)
- > Easy maintenance

Advantages

Flexible and versatile applications for water-based installations. The ductable fan coil units are designed to be installed in false ceilings thanks to their low height.

Options

AIR QUALITY

- > Air filter

UNIT INSTALLATION

- > 3-way valve for 2-pipe model
- > Shut-off valve and control valve for 2-pipe model
- > Elbow connectors for 2-pipe installation
- > 3-way valve for 4-pipe model
- > Shut-off valve and control valve for 4-pipe model
- > Elbow connectors for 4-pipe installation
- > Hot water coil
- > Electric coil
- > Condensate tray

CONTROLS

- > Wall-mounted electronic thermostat

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

BSW H/BSW V (2 pipes) TECHNICAL SPECIFICATIONS

MODEL		10	20	30	40
Cooling capacity (1)	kW	3.8	7.1	9.2	10.6
Cooling capacity (1)	T.R.	2.8	5.7	8.5	11.4
Heating capacity (2)	kW	5.0	8.6	11.3	12.9
Maximum absorbed power	W	155	195	325	355
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Air flow	m³/h	895	1423	1951	2131
External static pressure	Pa	105	105	135	135
Water flow	l/h	606.5	1092.2	1489.1	1684.3
Water connections	Ø (")	1/2	1/2	3/4	3/4
Sound pressure (3)	db(A)	59.4	57.4	61.4	60.4
Dimensions (length x height x width) H	mm	650x300x533	1000x300x533	1100x325x533	1340x325x533
Dimensions (length x height x width) V	mm	738x330x603	1088x330x603	1188x355x623	1428x355x623
Weight	kg	28	36	41	46



BSW H/BSW V (2 pipes) TECHNICAL SPECIFICATIONS

MODEL		50	60	70
Cooling capacity (1)	kW	13.1	27.8	50.6
Cooling capacity (1)	T.R.	3.7	7.9	14.4
Heating capacity (2)	kW	17.0	32.9	60.9
Maximum absorbed power	W	525	1300	2400
Power supply (50 Hz ~)	V	230.1	230.1	230.1
Air flow	m ³ /h	3002	4678	9250
External static pressure	Pa	205	260	260
Water flow	l/h	1945.0	4234.6	7802.1
Water connections	Ø (")	1	1 1/4	1 1/2
Sound pressure (3)	dB(A)	66.4	69.4	72.4
Dimensions (length x height x width) H	mm	1340x375x533	1341x675x853	2028x675x853
Dimensions (length x height x width) V	mm	1428x405x723	1481x703x1294	2168x703x1294
Weight	kg	57	117	192

(1) Water inlet 7°C, water outlet 12°C. Air temperature 27°C dry bulb, 19°C wet bulb

(2) Water inlet 50°C. Air temperature 20°C

(3) Considered 8.6 dB(A) less in relation to the sound power in an area of 90 m³ with a reverberation time of 0.5 sec.

Data calculated at full speed

BSW H/BSW V (4 pipes) TECHNICAL SPECIFICATIONS

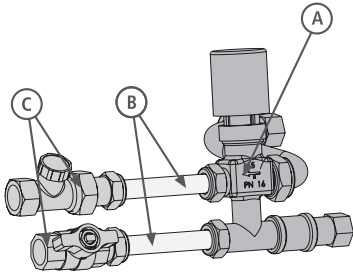
MODEL		10	20	30	40
Cooling capacity (1)	kW	3.6	7.0	9.0	9.6
Cooling capacity (1)	T.R.	1.0	2.0	2.6	2.7
Heating capacity (2)	kW	4.2	7.0	9.2	10.6
Maximum absorbed power	W	155	195	325	355
Power supply (50 Hz ~)	V	230.1	230.1	230.1	230.1
Air flow	m ³ /h	795	1353	1850	2025
External static pressure	Pa	95	90	120	120
Water flow	l/h	606.5	1092.2	1489.1	1684.3
Water connections	Ø (")	1/2	1/2	3/4	3/4
Sound pressure (3)	dB(A)	60.4	57.4	61.4	61.4
Dimensions (length x height x width) H	mm	650x300x533	1000x300x533	1100x325x533	1340x325x533
Dimensions (length x height x width) V	mm	738x330x603	1088x330x603	1188x355x623	1428x355x623
Weight	kg	28	36	41	46

MODEL		50	60	70
Cooling capacity (1)	kW	13.6	24.9	45.5
Cooling capacity (1)	T.R.	3.9	7.1	12.9
Heating capacity (2)	kW	12.7	38.8	70.2
Maximum absorbed power	W	525	1300	2400
Power supply (50 Hz ~)	V	230.1	230.1	230.1
Air flow	m ³ /h	3036	4445	8788
External static pressure	Pa	180	220	220
Water flow	l/h	1945.0	4234.6	7802.1
Water connections	Ø (")	1	1 1/4	1 1/2
Sound pressure (3)	dB(A)	64.4	69.4	72.4
Dimensions (length x height x width) H	mm	1340x375x533	1341x675x853	2028x675x853
Dimensions (length x height x width) V	mm	1428x405x723	1481x703x1294	2168x703x1294
Weight	kg	57	117	192

(1) Water inlet 7°C, water outlet 12°C. Air temperature 27°C dry bulb, 19°C wet bulb

(2) Water inlet 60/70°C. Air temperature 20°C

Options



COMPONENTS

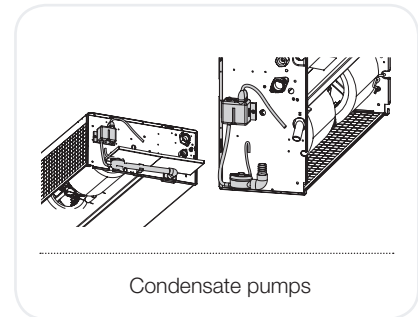
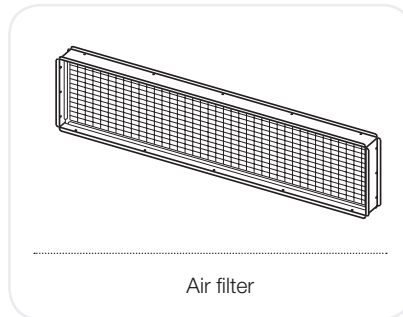
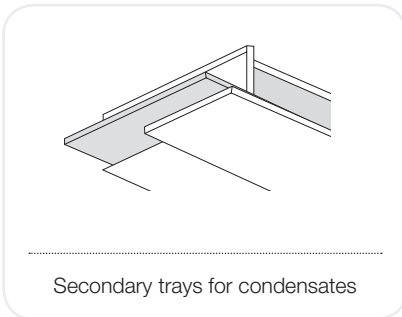
- A. Valve + actuator
- B. Interconnection tube
- C. Shut-off/control valve

IMPORTANT:

The elbow connectors are not supplied with the valves. To be ordered separately.

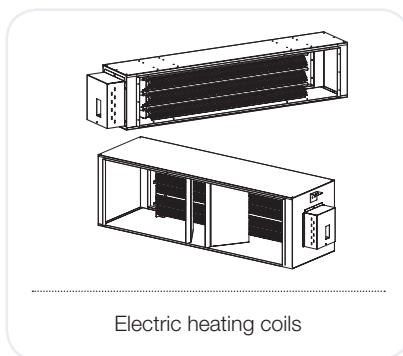
Valves, 2-pipe and 4-pipe installation

VALVE MODEL	BSW 10 Ø (")	BSW 20 Ø (")	BSW 30 A 50 Ø (")	BSW 60 Ø (")	BSW 70 Ø (")
2-pipe, 3-way system	1/2	3/4	1	1 1/2	2
2-pipe, 3-way system floating at 3 points	1/2	3/4	1	1 1/2	2
2-pipe, 3-way system modulating 0-10 V	1/2	3/4	1	1 1/2	2
4-pipe, 3-way system	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
4-pipe, 3-way system floating at 3 points	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
4-pipe, 3-way system modulating 0-10 V	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
2-pipe, 2-way system	1/2	3/4	1	1 1/2	2
2-pipe, 2-way system floating at 3 points	1/2	3/4	1	1 1/2	2
2-pipe, 2-way system modulating 0-10 V	1/2	3/4	1	1 1/2	2
4-pipe, 2-way system	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
4-pipe, 2-way system floating at 3 points	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
4-pipe, 2-way system modulating 0-10 V	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
Shut-off/control valve. 2-pipe system	1/2	3/4	1	1 1/2	2
Shut-off/control valve. 4-pipe system	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
2 shut-off valves. 2-pipe system	1/2	3/4	1	1 1/2	2
2 shut-off valves. 4-pipe system	1/2 - 1/2	3/4 - 1/2	1 - 3/4	1 1/2 - 1 1/2	2 - 1 1/2
Interconnection tube for 2-pipe system	-	-	-	-	-
Interconnection tube for 4-pipe system	-	-	-	-	-



Secondary hot water coils
1 row for 4-pipe systems

For models	kW
BSW 10	4.2
BSW 20	7
BSW 30	9.2
BSW 40	10.5
BSW 50	14
BSW 60	38.8
BSW 70	70.2



Electric heating coils

For models	kW
BSW 10	3
BSW 10	4.5
BSW 20	6
BSW 20	6
BSW 30	9
BSW 30	9
BSW 40	9
BSW 40	9
BSW 50	12
BSW 50	12
BSW 60	12
BSW 60	18
BSW 70	18
BSW 70	24

Other optional accessories

- > 4-row coils
- > 5-row coils
- > 6-row coils
- > Fresh air intake damper section
- > Supply plenum
- > Return air plenum

EHW

Horizontal ductable fan coil unit



MAIN FEATURES

- Cooling capacities between 18 and 110 kW
- Air flows up to 18000 m³/h
- Can be integrated with the Hydrofan system
- Outside installation option



Advantages

Flexible and versatile applications for water-based installations. The EHW series is composed of units designed to supplement and optimise air conditioning with hydronic systems. They are fitted with a heat exchanger constructed with copper tubes and aluminium fins and centrifugal fans operated by belt-driven motors.

Options

ENERGY EFFICIENCY

- Double mixing box with 3 dampers for free cooling
- Radial EC fan

AIR QUALITY

- G4 gravimetric filter on return
- Opacimetric filter on return, class F6 to F9 (can be combined with a G4 or Fx+Fy)

SOUND LEVEL

- Double thermal-acoustic insulation

UNIT INSTALLATION

- Magneto-thermal circuit breakers in the electrical board
- 60Hz power supply and voltages of 230, 208 etc. (depending on model)
- Kit for bad weather installation
- Upgraded motors
- Flame-proof filter class M0
- Thermal-acoustic insulation class M0
- Opposite side connectors

- Base frame
- Horizontal air discharge
- Hot water heating coils
- Heating coils for use on 4-tube system
- Auxiliary electric heating coils
- Pre-treated anti-corrosion coils
- Possibility of disassembling

MAINTENANCE

- Dirty filter detector
- Ductable filter

CONTROLS

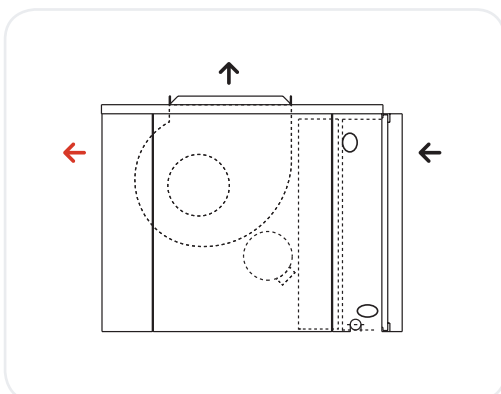
- Compatible with Hydrofan
- Alarm signals
- Smoke detection
- Remote start/stop
- Stand-alone electrical board

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

Air inlet/outlet configuration options

→ standard → optional



EHW TECHNICAL SPECIFICATIONS

MODEL		518	725	830	1036	1042	1250
Cooling capacity water temp. 7°C	kW	18.0	25.0	30.0	36.0	42.0	50.0
Cooling capacity water temp. 50°C	kW	26.7	36.0	32.9	50.0	57.7	69.9
Cooling capacity water temp. 85°C	kW	59.3	79.2	94.2	110.0	127.0	145.0
Cooling capacity water temp. 7°C	T.R.	5.1	7.1	8.5	10.2	11.9	14.2
Cooling capacity water temp. 50°C	T.R.	7.6	10.2	9.4	14.2	16.4	19.9
Cooling capacity water temp. 85°C	T.R.	16.9	22.5	26.8	31.3	36.1	41.2
Total absorbed power	kW	0.6	0.8	1.1	0.8	1.1	1.5
Power supply (50 Hz ~)	V	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3
Water flow	l/s	2978	4637	5381	6028	6841	7753
Air flow	m ³ /h	3500	4200	5200	5500	6500	8200
External static pressure	mm WG	8.0	10.5	7.4	10.8	8.0	7.0
Water connections	Ø (")	1 1/4	1 1/2	1 1/2	2	2	2
Dimensions (length x width x height)	mm	1085x750x580	1130x900x650	1130x900x650	1700x870x650	1700x870x650	1700x870x650
Net weight	kg	108	150	150	214	214	217
MODEL		1657	2069	2476	3097	35110	
Cooling capacity water temp. 7°C	kW	57.0	69.0	76.0	97.0	110.0	
Cooling capacity water temp. 50°C	kW	82.8	100.0	110.0	132.0	155.0	
Cooling capacity water temp. 85°C	kW	183.0	220.0	241.0	290.0	342.0	
Cooling capacity water temp. 7°C	T.R.	16.2	19.6	21.6	27.6	31.3	
Cooling capacity water temp. 50°C	T.R.	23.5	28.4	31.3	37.5	44.1	
Cooling capacity water temp. 85°C	T.R.	52.0	62.6	68.5	82.5	97.2	
Total absorbed power	kW	2.2	3.0	3.0	4.0	4.0	
Power supply (50 Hz ~)	V	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	230.3 or 400.3+N	
Water flow	l/s	9676	11776	12829	15534	17575	
Air flow	m ³ /h	9500	11200	12500	14800	18000	
External static pressure	mm WG	11.3	14.5	15.0	18.0	20.5	
Water connections	Ø (")	2	2	2	2 1/2	2 1/2	
Dimensions (length x width x height)	mm	2000x937x747	2600x980x752	2600x980x752	2800x1050x915	2800x1050x915	
Net weight	kg	291	356	356	452	558	

CLW

Vertical ductable fan coil unit



MAIN FEATURES

- Cooling capacities between 7.6 and 47.6 kW
- Air flows up to 8200 m³/h
- Can be integrated with the Hydrofan system
- Outside installation option



Advantages

Flexible and versatile applications for water-based installations. The CLW series is composed of units designed to supplement and optimise air conditioning with hydronic systems. They are fitted with a heat exchanger constructed with copper tubes and aluminium fins and centrifugal fans with external static pressure.

Options

ENERGY EFFICIENCY

- Mixing box with actuators
- Fan soft start
- Radial EC fan

AIR QUALITY

- G4 gravimetric filter on return
- Opacimetric filter on return class F6 to F9 (can be combined with a G4 or Fx+Fy)

SOUND LEVEL

- Double thermal-acoustic insulation

UNIT INSTALLATION

- Magneto-thermal circuit breakers in the electrical board
- 60Hz power supply and voltages of 230, 208 etc. (depending on model)
- Kit for bad weather installation
- Upgraded motors
- Flame-proof filter class M0
- Thermal-acoustic insulation class M0
- Opposite side connectors
- Base frame

- Horizontal air discharge
- Hot water heating coils
- Heating coils for use on 4-pipe system
- Auxiliary electric heating coils
- Pre-treated anti-corrosion coils
- Possibility of disassembling
- Air intake grille

MAINTENANCE

- Dirty filter detector
- Ductable filter

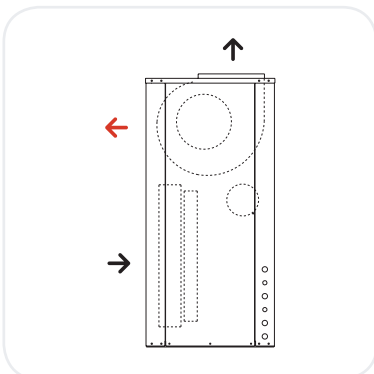
CONTROLS

- Compatible with Hydrofan
- Alarm signals
- Smoke detection
- Remote start/stop
- Stand-alone electrical board

For the functions, see the "Controls" section on page 216

Besides these options, please speak to our Sales Department for any other configuration or function that is not listed as being available.

Air inlet/outlet configuration options → standard → optional



CLW TECHNICAL SPECIFICATIONS

MODEL		270	412	515	720	824
Cooling capacity water temp. 7°C	kW	7.6	14.0	15.6	18.6	22.4
Heating capacity water temp. 50°C	kW	11.7	20.7	23.5	27.9	29.2
Heating capacity water temp. 85°C	kW	25.8	45.6	51.8	61.4	64.0
Cooling capacity water temp. 7°C	T.R.	2.2	4.0	4.4	5.3	6.4
Heating capacity water temp. 50°C	T.R.	3.3	5.9	6.7	7.9	8.3
Heating capacity water temp. 85°C	T.R.	7.3	13.0	14.7	17.5	18.2
Total absorbed power	kW	0.3	0.5	0.6	0.8	0.4
Power supply (50 Hz ~)	V	230.1	230.1 - 400.3+N	230.3 - 400.3+N	230.3 - 400.3+N	230.3 - 400.3+N
Water flow	L/h	1,314	2,411	2,684	3,193	3,859
Air flow	m³/h	1,900	2,801	3,500	4,200	3,500
External static pressure	Pa	100	50	150	135	100
Water connections	Ø (")	3/4	1	1	1 1/4	1 1/2
Dimensions (length x width x height)	mm	697x500x1000	697x500x1000	757x500x1100	1152x600x1200	1152x600x1200
Net weight	kg	45	71	94	115	151
MODEL		830	1036	1042	1250	
Cooling capacity water temp. 7°C	kW	29.5	36.7	41.0	47.6	
Heating capacity water temp. 50°C	kW	40.1	48.6	55.7	66.9	
Heating capacity water temp. 85°C	kW	88.0	107.0	122.0	147.0	
Cooling capacity water temp. 7°C	T.R.	8.4	10.4	11.7	13.5	
Heating capacity water temp. 50°C	T.R.	11.4	13.8	15.8	19.0	
Heating capacity water temp. 85°C	T.R.	2.1	3.7	4.2	5.0	
Total absorbed power	kW	1.1	0.8	1.1	1.5	
Power supply (50 Hz ~)	V	230.3 - 400.3+N	230.3 - 400.3+N	230.3 - 400.3+N	230.3 - 400.3+N	
Water flow	L/h	5,079	6,313	7,052	8,191	
Air flow	m³/h	5,200	5,500	6,500	8,200	
External static pressure	Pa	100	85	75	85	
Water connections	Ø (")	1 1/2	2	2	2	
Dimensions (length x width x height)	mm	1152x600x1200	1700x600x1300	1700x600x1300	1700x600x1300	
Net weight	kg	151	171	171	182	