



BRISE

Heating and cooling from a single radiator



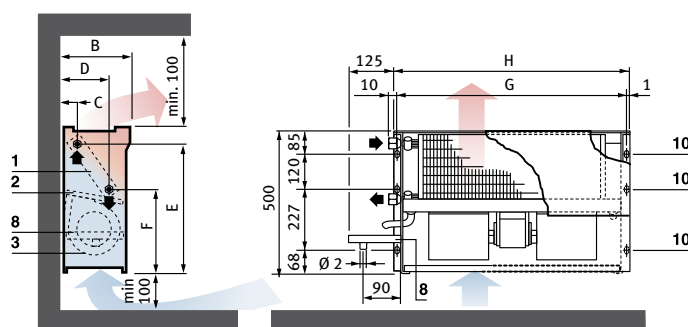
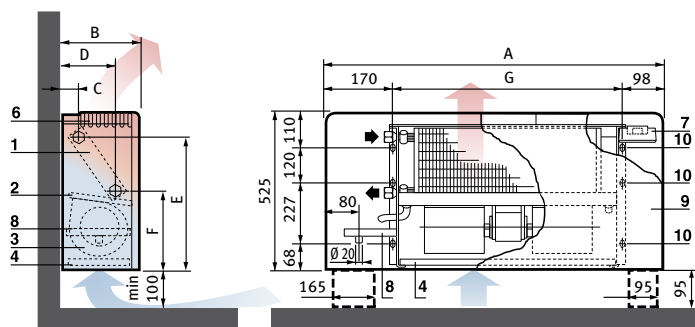
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Brise Wall-Mounted

Dimensions

Product code: BRIW

Product code: BRBW



BRIF = BRIW + feet + rear panel.

Feet can be used as a cover plate for connection tubes for the electrical circuit and hydraulic connections.

The model BRBW may also be fitted horizontally when it will only be used for heating. Provide an air vent on the central heating tube.

Size	02	03	04	06	08	10
A	825	825	1100	1100	1375	1650
B	230	230	230	230	275	275
C	45	45	45	45	45	45
D	153	153	153	153	225	225
E	455	455	455	455	463	463
F	255	255	255	255	260	260
G	557	557	832	832	1107	1382
H	575	575	852	852	1227	1402
conn. heat exchanger	1/2"G	1/2"G	1/2"G	3/4"G	3/4"G	3/4"G
conn. air vent 1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

Weight in kg:	02	03	04	06	08	10
BRIW (with casing)	180	190	240	260	380	500
BRBW (without casing)	140	145	150	205	330	435

All dimensions are shown in millimetres

Supplied as Standard

- Heat exchanger
- Condensation tray
- Fan(s)
- Air exhausting grille
- Switch
- Casing
- Holes for fixing to the wall

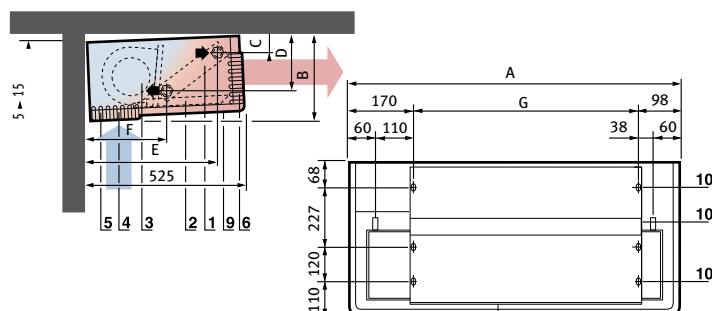
Optional

- Not recyclable air filter
- Additional Condensation tray

Brise Ceiling Mounted

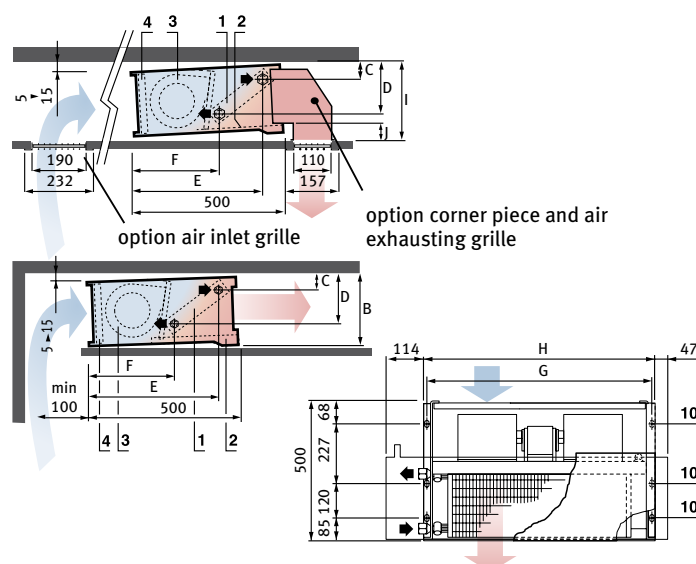
Dimensions

Product code: BRIC



- Max. height of the ceiling: 2800mm
- Fit the ventilo-fan convector with a slight inclination to facilitate the drainage of the condensation water
- The model BRIC or BRBC may also be fitted vertically, when it will only be used for heating
- Provide an air vent on the central heating tube

Product code: BRBC



Option air inlet grille: to avoid the exhausted hot air being sucked in again, do not mount the grille too close to the brise.

Size	02	03	04	06	08	10
A	825	825	1100	1100	1375	1650
B	230	230	230	230	275	275
C	45	45	45	45	45	45
D	53	153	153	153	225	225
E	455	455	455	455	463	463
F	255	255	255	255	260	260
G	557	557	832	832	1107	1382
H	575	575	852	852	1227	1402
I	365	365	365	365	410	410
J	135	135	135	135	135	135
conn. heat exchanger	1/2"G	1/2"G	1/2"G	3/4"G	3/4"G	3/4"G
conn. air vent 1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

Weight in kg:	02	03	04	06	08	10
BRIW (with casing)	180	190	240	260	380	500
BRBW (without casing)	145	150	200	220	330	435

Supplied as Standard

- Heat exchanger
- Condensation tray
- Fan(s)
- Air exhausting grille
- Switch
- Casing
- Holes for fixing to the wall

Optional

- Not recyclable air filter
- Additional Condensation tray

All dimensions are shown in millimetres

Technical data

Outputs in watts, in accordance with EN442

	Size	02	03	04	06	08	10
Heat output B4 at ΔT 50 75/65°C - 20°C	kW max.	4.00	5.56	8.07	11.53	19.48	21.02
	med.	3.60	5.00	7.26	10.38	16.78	18.92
	min	3.04	4.22	6.13	8.76	14.17	15.97
Heat output B4 at ΔT 60 90/70°C - 20°C	kW max.	4.80	6.67	9.69	13.84	23.38	25.23
	med.	4.32	6.00	8.72	12.46	20.14	22.71
	min	3.65	5.07	7.36	10.52	17.01	19.17
Total cooling capacity at 7/12°C - 25°C D.B. - 55% RH	kW max.	1.63	2.28	3.37	4.88	8.02	9.97
	med.	1.47	2.05	3.03	4.39	7.22	8.79
	min	1.24	1.73	2.56	3.71	6.10	7.40
Sensible cooling capacity at 7/12°C - 25°C D.B. - 55% RH (1)	kW max.	1.16	1.67	2.40	3.50	5.80	6.90
	med.	1.04	1.50	2.16	3.15	5.22	6.21
	min	0.88	1.27	1.28	2.66	4.41	5.24
Air flow	m ³ /h max.	380	500	700	880	1350	1700
	med.	295	390	545	690	1050	1325
	min	220	290	410	510	720	955
Sound pressure weighted frame of reference 2.10-5 Pa (2)	db(A) / NR max.	41/36	47/42	44/39	50/46	50/45	53/50
	med.	35/31	35/31	36/32	37/33	43/38	43/38
	min	29/25	29/26	30/26	31/27	33/30	37/33
Sound power level dB frame reference=10-12 w	HZ 125 max./med./min.	48/45/42	52/46/42	49/44/38	53/45/38	55/49/45	58/50/46
	HZ 250 max./med./min.	46/44/39	52/45/40	50/43/38	55/44/39	57/50/43	60/51/46
	HZ 500 max./med./min.	46/40/35	51/41/36	49/41/36	56/42/37	54/47/40	57/50/44
	HZ 1000 max./med./min.	42/36/30	47/37/31	49/37/32	51/38/34	51/44/35	55/46/40
	HZ 2000 max./med./min.	37/30/23	44/31/23	39/30/24	46/30/25	47/39/30	53/44/34
	HZ 4000 max./med./min.	32/26/23	40/27/22	36/26/21	41/27/22	42/36/27	47/38/29
	HZ 8000 max./med./min.	25/24/20	37/26/20	33/25/20	37/26/21	34/30/21	34/30/21
Electric connection	V - f - Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Water content	litre	0.66	0.86	1.34	1.96	3.75	4.03
Number of fans (3)		1	1	2	2	2	3
Number of motors		1	1	1	1	1	1
Capacity condenser	µF	1.5	1.5	1.5	1.5	2	2
Mesured power	Watts	45	68	103	125	193	210
Mesured current	A	0.21	0.32	0.48	0.59	0.92	0.99
Throw distance approximate values at maximum speed (4)	m	4	6	7	9	7	11

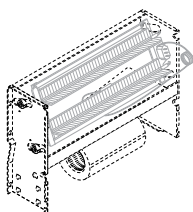
1. Normal calculation and selection at noticeable cooling capacity and preferably at medium speed
2. Measured model: model BRIW with casing and standard heat exchanger. Height: 1000mm from the air exhaust grille. The sound pressure is influenced by the dimensions of the room, the reverberation time and other sound sources
3. Centrifugal fan(s) with motor (230 - 1 - 50 Hz) with continuously directed condenser. Safety with automatical reset. IP 41. Earthing supplied. Rollers
4. As is the case with almost all dynamic data these distances depend on how the appliances are mounted and how they are placed. Channels or connections tend to influence distance and debit to a large extent



Output calculated in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50$).

Options

Additional Electric element



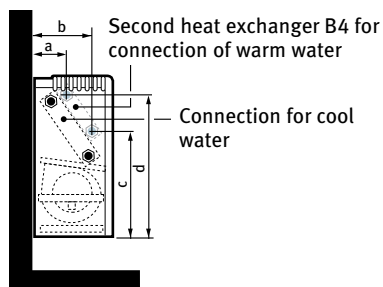
	Size	02	03	04	06	08	10
Nominal power	watts	1000	1000	2000	2000	2000	2000
Electric connection	V - f - Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
code	8721...	.6012	.6012	.6014	.6015	.6015	.6016

Options are fitted when fan convector and options are ordered together. With built-in options, delivery time will be longer. Inclusive security thermostat. Do not combine with second heat exchanger B4. Allow the air flow during the functioning of the electric element.

Second heat exchanger B4

	Size	02	03	04	06	08	10
Heat output B4 at ΔT 50 75/65°C - 20°C	kW max.	2.07	2.85	3.83	5.63	9.22	10.65
	med.	1.86	2.57	3.45	5.06	7.71	9.58
	min.	1.57	2.17	2.92	4.28	7.01	8.09
Heat output B4 at ΔT 60 90/70°C - 20°C	kW max.	2.48	3.42	4.60	6.76	11.07	12.78
	med.	2.23	3.08	4.14	6.08	9.26	11.50
	min.	1.88	2.60	3.50	5.14	8.41	9.71
Water content B4	litre	0.21	0.27	0.44	0.65	1.24	1.34
code	8721...	.5111	.5112	.5113	.5114	.5115	.5116

Options are fitted when fan convector and options are ordered together. With built-in options, delivery time will be longer. With second heat exchanger, the standard heat exchanger has to be used for cooling and the second heat exchanger for heating.

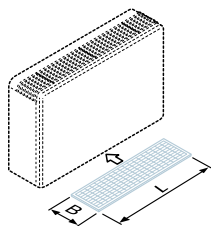


Size	02	03	04	06	08	10
a	90	90	90	90	95	95
b	198	198	198	198	240	240
c	280	280	280	280	315	315
d	480	480	480	480	480	480

Dimensions in mm

Options

Filter



- Recyclable air filter

Size	02	03	04	06	08	10
Dimensions BxL	210x530	210x530	210x805	210x805	250x1080	250x1355
code 8721...	.121	.121	.125	.125	.115	.116

Speed control



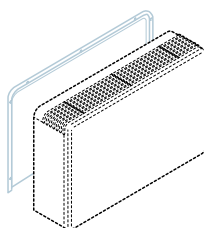
- Position 0-1-2-3 for wall mounting
- 1 per fan convector or 1 regulator for several fan-coils in combination with relay-contacts
- Instructions: In both cases the already incorporated speed regulators of the BRIW/BRIF should be disconnected
- Ordering code: 8761.0000

Speed control / thermostat



- Thermostat for wall mounting, with on/off switch and position 3 position fan speed control
- Suited for heating, cooling or ventilation
- With continuous or automatically fan speed control. 1 fan per Brise or 1 regulator for several fan-coils in combination with relay-contacts
- Ordering code: 8762.0000

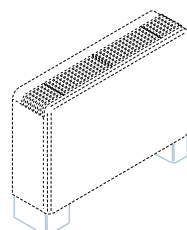
Rear panel for model BRIW



Size	02	03	04	06	08	10
code 8770...	.121	.121	.125	.125	.115	.115

- For free-standing models also order feet

Feet for model BRIW - BRBW

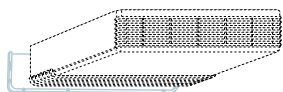


Size	02	03	04	06	08	10
code 8767...	.141	.141	.141	.141	.123	.123

- Inclusive protective cover

Options

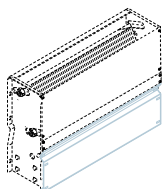
Fan-seal panel for model BRIC



- For visible mounting. Seal panel in the same color as the radiator.

Size	02	03	04	06	08	10
code 8771...	.121	.121	.125	.125	.115	.116

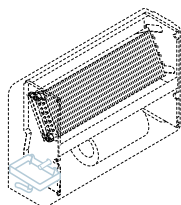
Fan-seal panel for model BRBW - BRBC



- For air intake at 1 side and as air-conducting compartments. With built-in models always order.

Size	02	03	04	06	08	10
code 8775...	.0021	.0021	.0025	.0025	.0015	.0016

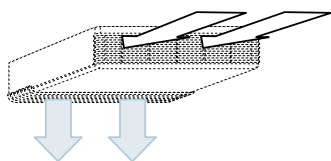
Condensation tray for model BRIW - BRIF - BRBW



- Additional condensation tray for cooling
- Instructions: position underneath the valves

Size	02	03	04	06	08	10
code 8775...	.0041	.0041	.0041	.0041	.0023	.0023

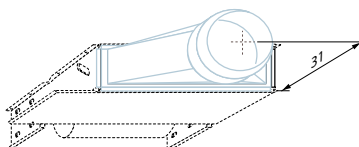
Transformation to exhaust downwards for model BRIC



- Inclusive fan-seal panel
 - Maximum height of ceiling: 2600mm
 - Maximum fitting height: 2300mm
- Ordering code: 8774.xx (size)

Size	02	03	04	06	08	10
code 8774...	---	---	.0025	.0025	.0015	.0016

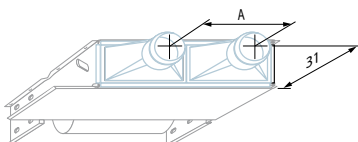
Plenum with connection ø315mm for model BRBC



- Exhaust plenum for connection of one air channel. Maximum length of the channel 2 metre, without loss of debit.

Size	02	03	04	06	08	10
code 8764...	.0121	.0121	.0125	.0125	.0115	.0116

Plenum with 2 connections ø160mm for model BRBC

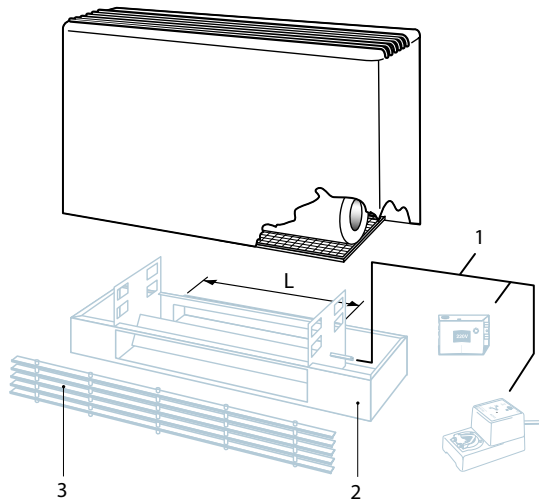


- Exhaust plenum for connection of two air channels. Maximum length of the channel 2 metre, without loss of debit.

Size	02	03	04	06	08	10
code 8764...	.0121	.0121	.0125	.0125	.0115	.0116

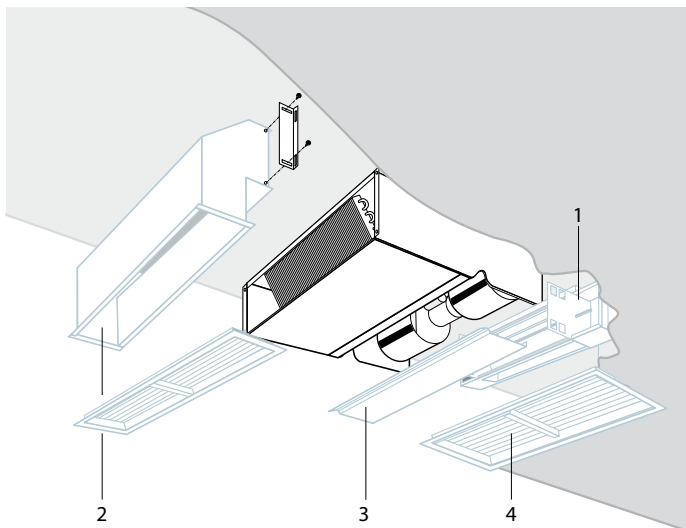
Air mixing boxes

BRIW Brise Wall



1. Servo motor
2. Air mixing box
3. Air inlet grille

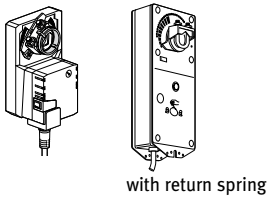
BRBC Brise Build-in Ceiling



1. Air mixing box
2. Corner piece with adjustable air exhausting grille
- 3 Fan-seal panel
4. Adjustable air inlet grille

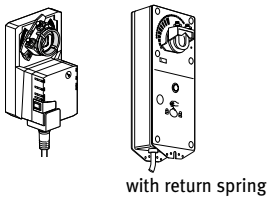
Servo motors for air mixing boxes

Servo motors “on/off”



Description	Drawing	Code
Servo motor “on/off-230 V”	1	8783.2301
Servo motor “on/off - 230 V” with return spring	2	8783.2302
Servo motor “on/off - 24 V” with return spring	3	8783.2403
Servo motor “on/off-230 V” for switch box 8751.070001 and 8751.070002	8/9	8783.2304

Servo motors modulating



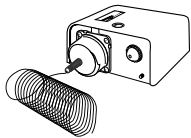
Description	Drawing	Code
Servo motor “modulating - 230 V”	5	8783.2303
Servo motor “modulating - 24 V”	6	8783.2401
Servo motor “modulating - 24 V” with return spring	7	8783.2402

Switch boxes for servo motors



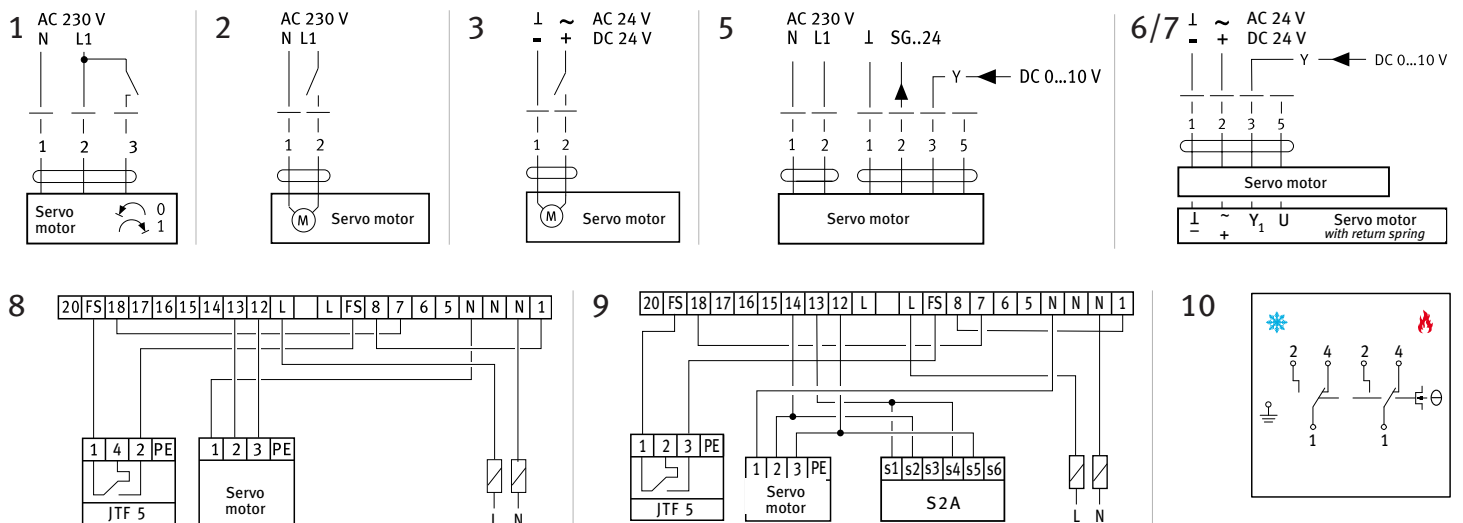
Description	Drawing	Code
Switch box open/closed for servo motor 8783.2304	8	8751.070001
Switch box open/middle/closed, incl. second switch, for servo motor 8783.2304	9	8751.070002

Thermostat for frost protection



Description	Drawing	Code
Thermostat for frost protection (from -10° up to +12°C)	10	8751.050003

Diagrams



Correction factors

Average correction factors according to EN442 - 75/65/20°C for Comfort and Boost mode

Tv	Tl	Tr > 20	25	30	35	40	45	50	55	60	65	70	75	80	85
90	20	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35
	24	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12	1.17	1.22	1.32
85	20	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	
	24	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12	1.17	
80	20	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15		
	24	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07		
75	20	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05			
	24	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.95			
70	20	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95				
	24	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87				
65	20	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85					
	24	0.37	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77					
60	20	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75						
	24	0.32	0.37	0.42	0.47	0.52	0.57	0.62	0.67						
55	20	0.35	0.40	0.45	0.50	0.55	0.60	0.65							
	24	0.27	0.32	0.37	0.42	0.47	0.52	0.57							
50	20	0.30	0.35	0.40	0.45	0.50	0.55								
	24	0.22	0.27	0.32	0.37	0.42	0.47								
45	20	0.25	0.30	0.35	0.40	0.45									
	24	0.17	0.22	0.27	0.32	0.37									
40	20	0.20	0.25	0.30	0.35										
	24	0.12	0.17	0.22	0.27										
35	20	0.15	0.20	0.25											
	24	0.07	0.12	0.17											
30	20	0.10	0.15												
	24	0.02	0.07												

The indicated outputs with ΔT 50°C are the exact outputs and are calculated in accordance with EN442.
An average correction factor is given in this table for outputs at other ΔT and is applicable for all dimensions.

KEY
Tv = flow temperature
Tr = return temperature
Tl = desired air temperature

How to choose the right radiator?

Rapid estimation of heat losses

Calculate the volume of the room (L x W x H) and multiply this by the Watts/m³ figure given in the table below. Choose according to the level of insulation and the desired room temperature.

Insulation	20°	24°
excellent	45	55
good	65	75
average	85	95
poor	100	115

Required output in Watts/m³

Example

Use the table to determine the relevant correction factor with a water temperature of 60/45°C with a room temperature of 20°C.

The correction factor = 0.65

Required output 1000 watts : 1000 divided by 0.65 = 1538 watts therefore search in this leaflet's standard output table for a product with an output of at least 1538 watts. Alternatively use the "Radiator Finder" search function on www.jaga.co.uk to identify all Jaga heating products with this required output.



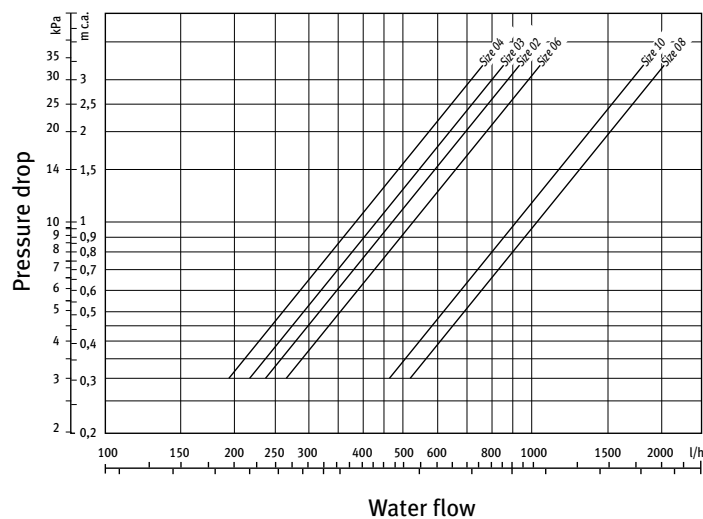
Output calculated in accordance with EN442, at a water temperature of 75/65°C and a room temperature of 20°C ($\Delta T=50$).

Acoustic Data

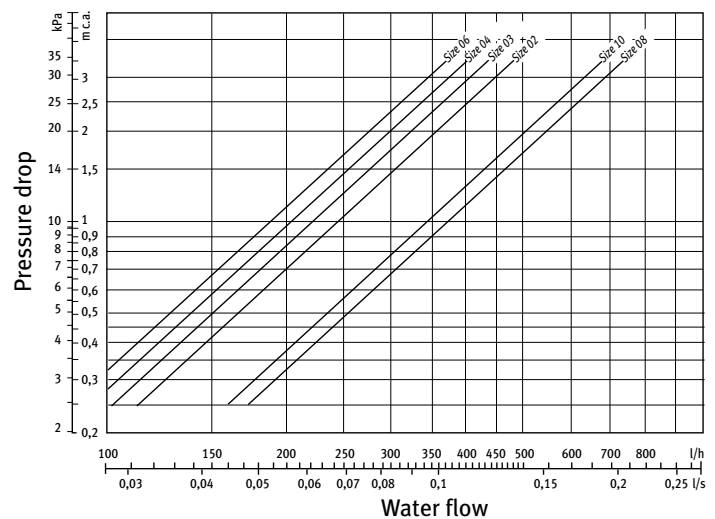
For acoustic data for Brise please contact the Jaga technical team on 01531 631 533

Pressure drops

For standard heat exchanger



For second heat exchanger



Average water temperature 60 °C

Product specification

Brise

The support frame

- Made of reinforced galvanized steel plate.

The fan unit

- Centrifugal fan(s) engine to condense in 3 speeds continuously and integrated KLIXON security with an automatic reset
- Voltage: 230 Volt single phase 50Hz

Heat exchanger

- Made of pure copper and aluminium, suitable for left or right handed connection
- Connections for types:
 - for types 02, 03 and 04 use 1/2".
 - for types 06, 08 and 10 use 3/4".
 - extended air vent for all types: 1/8"
 - second heat exchanger connection= 1/2"

The condensation tray

- Made of PVC black

Colour

- Model BRIW and BRIC:
 - metal casing with smooth light grey metallic lacquer
 - grilles of heat resistant dark grey ABS

Insulation

- Extremely well insulated in order to prevent condensation and to muffle the noise

How to install

- The installer will propose all the heating elements, while taking into account the following requirements:
 - heating / or cooling / through one water-side standard heat exchanger and one water-side circuit for cooled or heated water
 - heating and cooling using one standard heat exchanger and a second heat exchanger, through two separate water-side circuits for cooling water and warm water
 - cooling using a standard heat exchanger and heating through electro-resistance with a safety thermostat (max. 2 kW)

Filters

- not / to provide / fitted in a galvanized box (standard for models BRIW-BRIF)

Speed control

- Each ventilo-fan convector has a 3-position speed control:
 - Models BRIW/BRIF:
 - fitted in the casing
 - Models BRIC/BRBC/BRBW:
 - to fit at distance against the wall / to fit at distance against the wall with a thermostat for heating and cooling

Options

- ventilation by means of an added air mixing box / with front grille in aluminium / for inside and outside air / manual controllable or modulating / with servo on/off motor: with servo on/off motor 230 Volt / with servo on/off 230 Volt, suitable for frost protection / with servo motor 230 Volt with return spring, suitable for frost protection / with modulating servo motor 230 Volt suitable for frost protection / with servo motor on/off 24 Volt with return spring / with modulating servo motor 24 Volt / with modulating servo motor 24 Volt with return spring
- switch boxes for servo motors: out mixing box open or closed position / open, medium or closed position
- thermostat for frost protection
- freestanding models are provided with feet, connection covers and a rear panel, laquered in the same colour as the casing (light grey metallic)
- for the vertical cooling model, a supplementary condensation tray and drain pipe has to be provided
- built in models in a void ceiling have to be provided with a corner piece with adjustable aluminium grille for exhausting air and adjustable aluminium air inlet grille
- the maximum ceiling height is 2800mm
- ventilo-fan convectors mounted to the ceiling, blowing down wards, have to be adapted. The maximum mounting height is 2300mm

Jaga Guarantee Information

- 1** The guarantee is valid only if the equipment is properly and correctly used, by its first owner and if installed in accordance with the norms and instructions as detailed in the instruction leaflet and current industry standard practices.
- 2** The guarantee only applies to the equipment and the spare parts supplied by Jaga. Jaga has the choice between repair and replacement of the equipment or the spare parts. If any modifications have been made by Jaga to the standard product design, Jaga reserves the right to replace the guaranteed equipment with equivalent products or spare parts.
- 3** The period of guarantee is mentioned in this certificate. The guarantee decreases every year on a straight line basis by an equal percentage in order to reach a zero guarantee at the end of the guarantee period (e.g. for a period of 10 years the annual decrease of the guarantees 10% of the invoiced value). Repaired or replaced product is guaranteed through to the end of the original guarantee period.
- 4** The guarantee is valid only on products displaying the appropriate identification information concerning product type and series. No guarantee is granted on equipment or spare parts lacking this information, on equipment where this information has been removed or altered, or on equipment that has been repaired or modified by persons not authorised by Jaga to carry out this work.
- 5** The customer is responsible for any damage caused as a result of errors in installation or use of incorrect fittings, or for any damage caused by electrical connections, faulty or damaged electrical installations or appliances, erroneous voltage or hydraulic pressure and all other errors not directly related to the product delivered by Jaga. The guarantee is also revoked when unsuitable parts or components are used. The guarantee for our heat exchangers is not valid if they are regularly drained, or if they are heated by means of industrial water, steam or water saturated by excessive quantities of oxygen. The quality of the system after has to be in accordance with the VDI 2035-2 directives. The guarantee is also not applicable if the heat exchangers are placed in unsuitable atmospheric surroundings, such as but not exclusively ammonia, caustic substances etc.
- 6** This guarantee excludes damage due to incorrect handling and/or use of the equipment, or due to formation of lime deposits, incorrect use of the safety valve, or to all equipment that is incorporated into the building in a way that means it cannot be accessed normally.
- 7** Any work undertaken or product supplied as a result of a guarantee claim that proves not to be valid will be charged for. Product supplied will be invoiced at the customer's standard purchasing terms, and labour will be charged at £50 per hour with a minimum labour charge of £200.
- 8** The guarantee period starts from the date of the invoice for supply of the products covered by the guarantee. If the invoice is not available, the date of production will be used based on the product ID number/series.
- 9** Only the courts of judicial district Hasselt (Belgium) are authorised to deal with disputes arising from this guarantee. It will apply Belgian law even when sales involved are subjects of EU member states as well as non-EU member countries.

Heat exchanger



Casings and components



Valves for Low-H₂O heat exchangers

