

jaga

❄️🔥 BRIZA 22

HEATING & COOLING



Built-in Ceiling:

BABC/BT



BABC/FT



Built-in Wall:

BABW/BT



BABW/BF



BABW/FT



BABW/FF



Europe 230V

INFO SHEET BRIZA 22 , COMPACT FANCOIL With EC
Greentech EBM-PAPST technology



Jaga reserves the right to change product specification at any time in line with our policy of continuous improvement and innovation. jaga-usa.com / jaga-canada.com. 8 April 2020 10:03 AM





BRIZA 22

- heating and /or cooling
- high-quality aluminum-copper Dynamic coil with Hydrophilic coating
- for built-in to wall or ceiling
- available in 5 lengths
- 2-Pipe or 4-Pipe- system
- easy installation
- various supply and return air options
- air mixing box for wall mounted model
- low noise level
- JAGA BRIZA 22 is best suited for:

Heating and cooling of residential and commercial installation for renovations and new construction.

“EC technology: intelligent, low-energy use and ECO-friendly.

EC motors cut operating costs, reduce the impact on the environment and impress with their quiet operation.

With the introduction of the electronic commutation or EC motors, we take the next step into the direction of low energy consumption, less noise and a longer lifetime.

Some advantages:

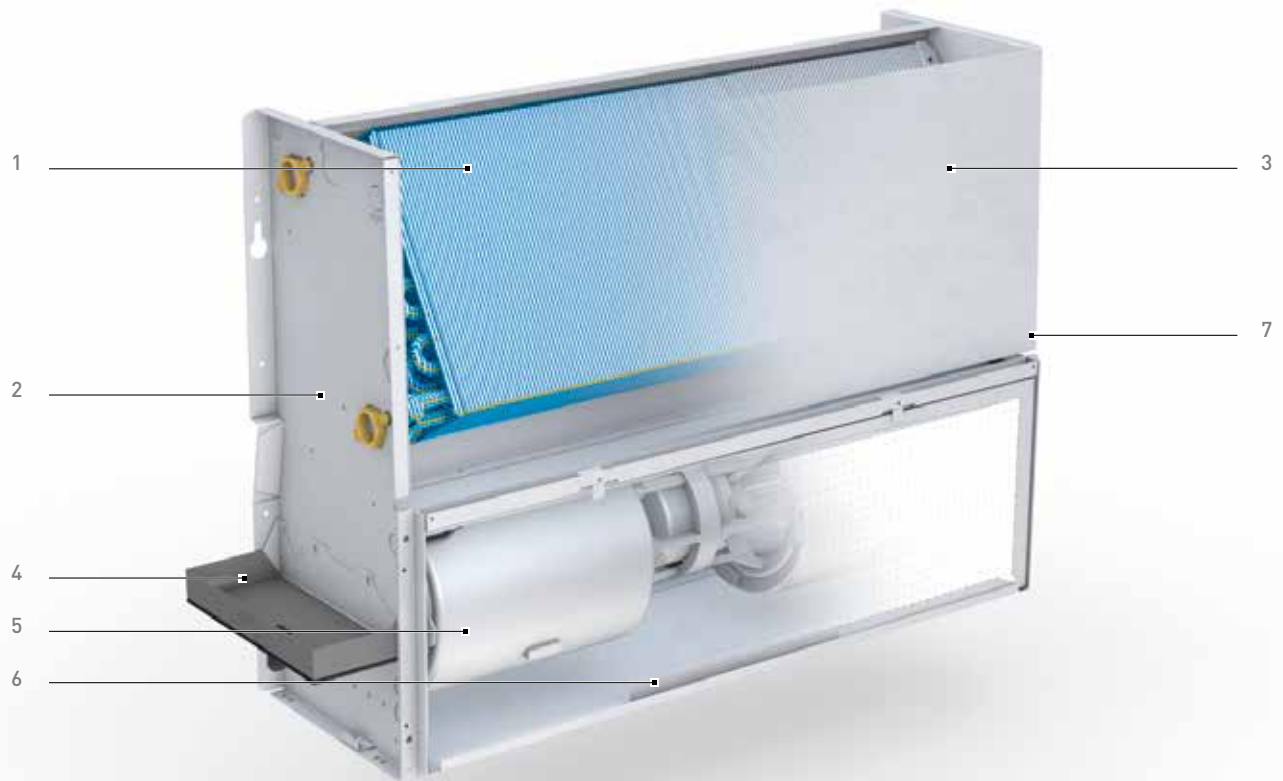
- high efficiency, energy savings
- little or no maintenance (brushless)
- low noise level
- 0-10V variable speed control
- long lifespan

EC Greentech EBM-PAPST motor: faster, more powerful, more economical, more sustainable

Jaga N.V. uses the exclusive GreenTech EC technologie of EBM-PAPST.

Permanent magnet BLDC motor with inverter integrated in the fan assembly, protection rating IP44, insulation class F and ball bearings. BLDC motors directly integrated with the fan assembly and inverter and 32% reductions in electricity consumption compared to traditional AC motors. Polypropylene (PP) housing. Centrifugal fan with forward-curved blades made of glass-filled polyamide PA 6. Conformity with 2017 ErP Directive.





- 1 High-quality aluminum-copper Dynamic coil with Hydrophilic coating
- 2 Hydraulic connection: 3/4"NPT standard left
- 3 Casing in galvanised steel with fire proof insulation
- 4 Condensate drain for wall installation, standard left
- 5 Centrifugal fan(s) with double inlet
- 6 Replaceable polypropylene filter to the front or bottom
- 7 Electrical connection right

New generation fans with energy-efficient operation:

Due to the better efficiency of the EC-motor and presence of integrated electronics, the power consumption is directly linked to the fan speed and therefore the airflow. The actual power consumption is determined by the (variable) speed.

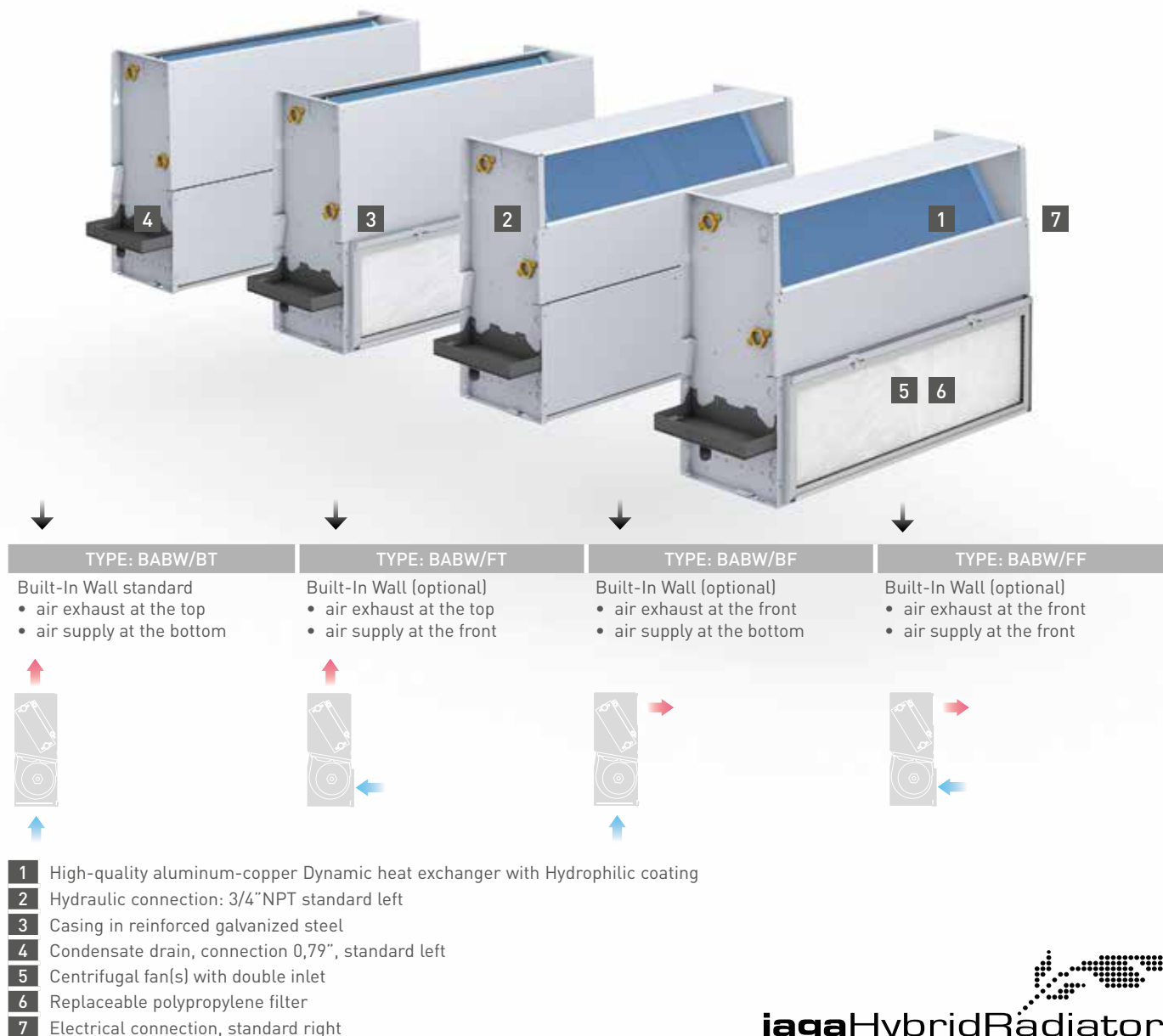
Product description:

- energy-saving maintenance-free EC motor
- heating & cooling
- 5 lengths
- 2-pipe system of 4-pipe system
- condensate drain pan
- electronic speed control with 0 ... 10V signal
- centrifugal fans with double inlet
- removable polypropylene (class G2) filter
- suitable for non-condensing and total cooling with chilled water
- hydraulic connection left, electrical connection to the right.
Also available with hydraulic connection right and electrical connection to the left.

Options:

- secondary coil for heating with 4-pipe system
- inlet piece 90°
- exhaust pieces 90°
- air mixing box with motorized damper with 0...10V control for outdoor air inlet
- EC thermostat 24VDC, 0..10V speed control
- 0...10V connection to home automation
- Jaga Fancoil Controller

Air inlet and outlet configurations





BRIZA 22 CEILING air inlet and outlet configurations

New generation fans with energy-efficient operation:

Due to the better efficiency of the EC-motors and presence of the commutation electronics, the power consumption is directly linked fan speed and therefore the airflow. The actual power consumption is determined by the (variable) speed.

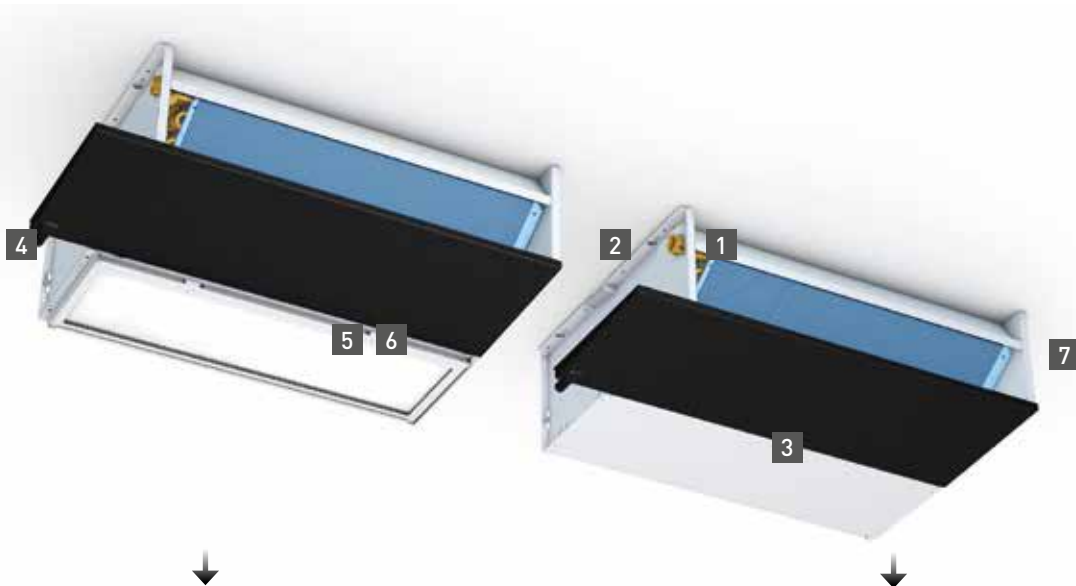
Product description:

- energy-saving maintenance-free EC motor
- 5 lengths
- Dynamic heat exchanger with Hydrophilic coating
- 2-pipe system of 4-pipe system
- condensate drain pan
- electronic speed control with 0 ... 10V signal
- centrifugal fans with double inlet
- removable polypropylene (MERV4) filter
- suitable for sensible and total cooling with of chilled water
- hydraulic connection left, electrical connection to the right.
Also available with hydraulic connection right and electrical connection to the left.

Options:

- secondary Dynamic heat exchanger with Hydrophilic coating for heating with 4-pipe system
- inlet piece 90°
- exhaust pieces 90°
- inlet plenum 180°
- exhaust plenums 180°

Air inlet and outlet configurations



TYPE: BABC/FT

B: Built-In Ceiling (optional)

- air supply at the front
- air exhaust at the top



TYPE: BABC/BT

A: Built-In Ceiling standard

- air supply at the bottom
- air exhaust at the top



- 1 High-quality aluminum-copper Dynamic heat exchanger with Hydrophilic coating
- 2 Hydraulic connection: 3/4"NPT standard left
- 3 Casing in reinforced galvanized steel
- 4 Front panel, condensate drain, connection 0,79", standard left
- 5 Centrifugal fan(s) with double inlet
- 6 Replaceable polypropylene filter
- 7 Electrical connection, standard right

jagaHybridRadiator



BRIZA 22 built-in ceiling

Range

Briza 22 Ceiling

Range

Type 02

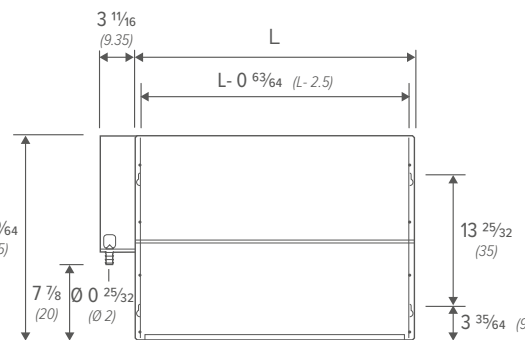
Type 03

Type 04

Type 06

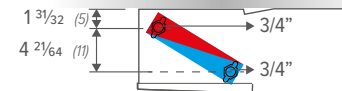
Type 08

Dimensions (cm)



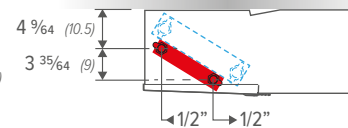
Standard Heat Exchanger

- 2-pipe heating / cooling
- 4-pipe cooling



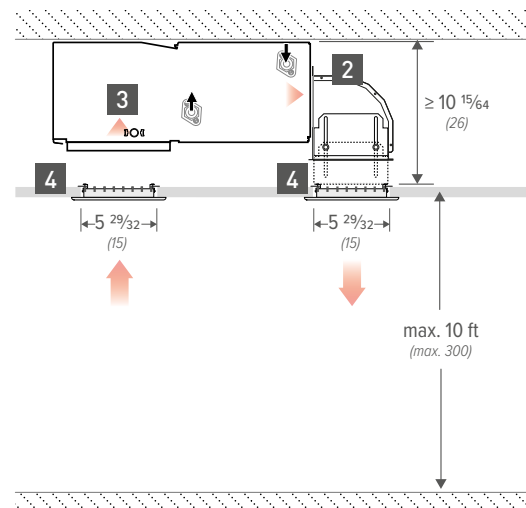
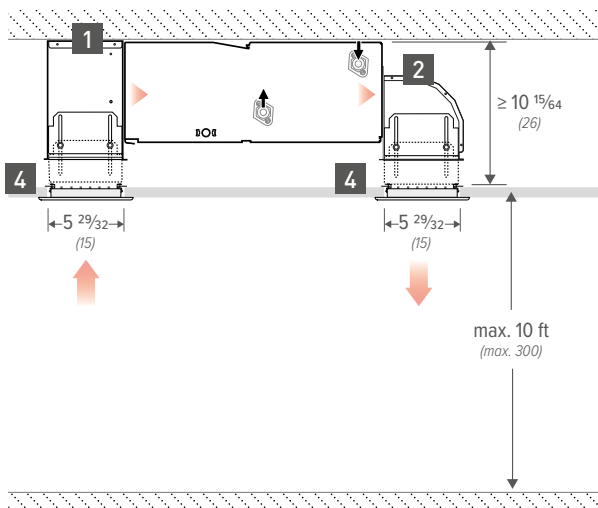
Additional Heat Exchanger

- 4-pipe heating element

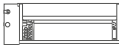
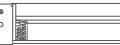
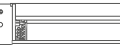
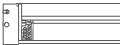
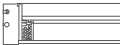


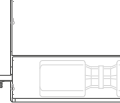




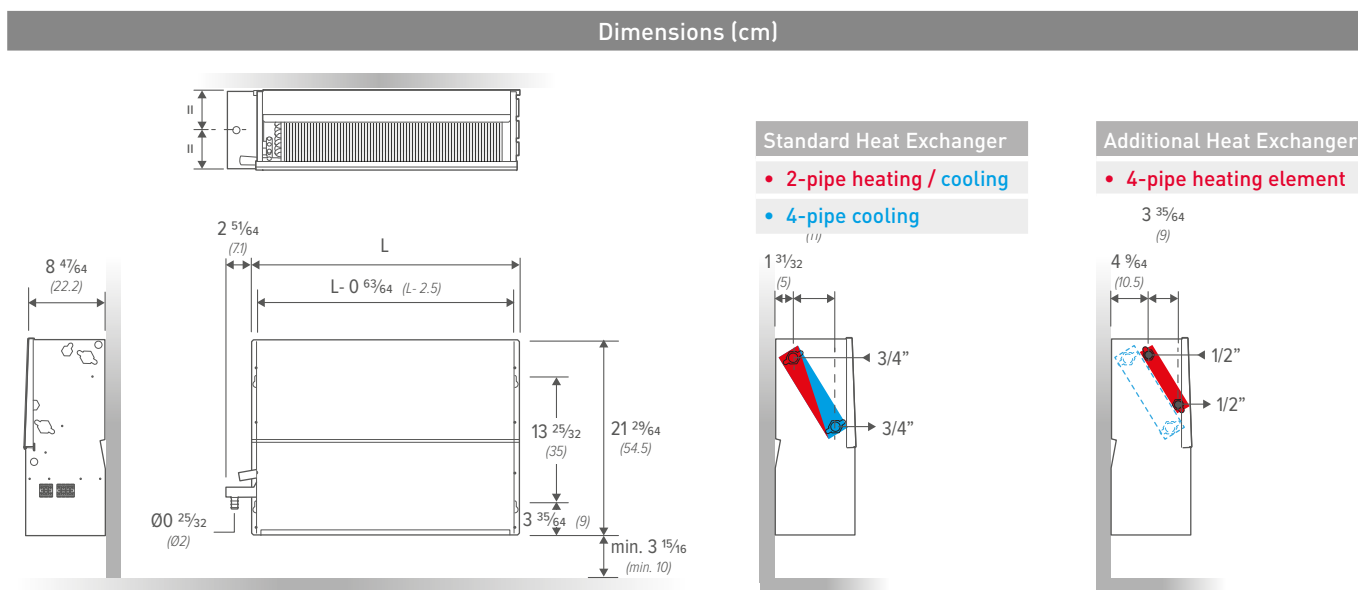
Type	02	03	04	06	08
Code	BABC	BABC	BABC	BABC	BABC
L (inches)	21 21/32	29 17/32	37 13/32	49 7/32	61 1/32
L (cm)	55	75	95	125	155

Dimensions (cm) for installation into ceiling with Jaga 90° inlet / exhaust angle piece

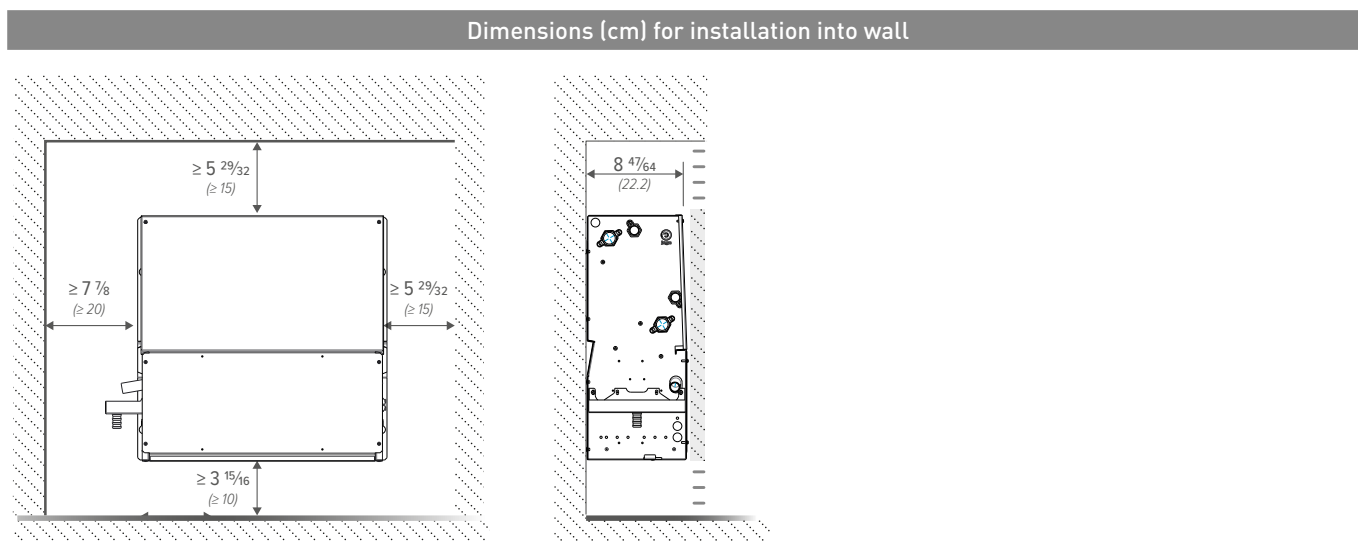


- | | |
|---------------------|---|
| 1 90° inlet piece | 3 front grille with filter |
| 2 90° exhaust piece | 4 adjustable air inlet / exhaust grille |

Briza 22 Wall					
Range					
Type 02	Type 03	Type 04	Type 06	Type 08	
					
					

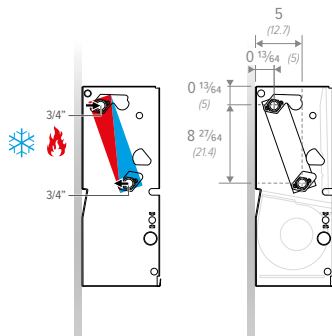


Model	02	03	04	06	08
Code	BABW	BABW	BABW	BABW	BABW
L [inches]	21 21/32	29 17/32	37 13/32	49 7/32	61 1/32
L [cm]	55	75	95	125	155



Dimensions hydraulic connections

2-pipe



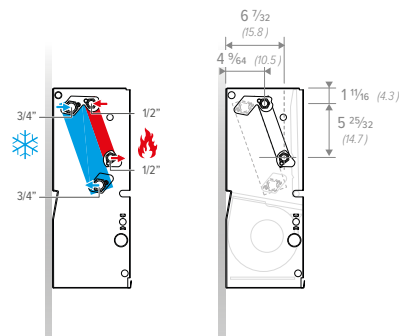
Two-pipe system:

- a two-pipe fan coil system consists of fan coil units with single coils, which are connected to two pipes (one supply pipe and one return pipe) that either provide hot water or chilled water throughout the building. A building with a two-pipe system is either entirely in a heating mode or entirely in a cooling mode. It is not possible to cool some rooms while heating others.

Connection:

- 1 valve set

4-pipe



Four Pipe Systems:

- a four pipe system has fan coil units with separate heating and cooling coils, as well as separate pairs of heating and cooling pipes. Hot water and chilled water is always available. The system is able to instantly switch from the heating mode to the cooling mode, or vice versa, and can provide heating to some rooms while simultaneously providing cooling to other rooms. It is very flexible.

Connection:

- 2 valve sets



	page:
• configurations	10 - 11
• technical data heating 2-pipe 🔥 75/65/20, 55/45/20, 35/30/20	
• technical data heating 4-pipe 🔥 75/65/20, 55/45/20, 35/30/20	12 - 21
• technical data cooling ❄️ 6/18/27 7/12/27	
• hydraulic pressure drop	22
• general technical data	23
• maximal cable lengths	
• options	24 - 25 -26
• JFCC Jaga Fan Coil Contro	
• thermostaten	28
• spare parts	29
• product specifications	30
• functioning limits	31
• what is sound power, sound pressure	32

Configurations

Ceiling (BABC)

BT standard in + standard out **FT** OPTION front air inlet + standard out

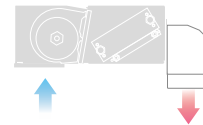


OPTION front air inlet

OPTION 90° angle piece

standard in + OPTION 90° air outlet

OPTION front air inlet + OPTION: 90° air outlet



OPTION 90° air outlet

OPTION front air inlet

OPTION 90° air outlet

OPTION 180° plenums

OPTION 180° air inlet + OPTION 180° air outlet

OPTION 90° angle piece

OPTION 90° air inlet + OPTION: 90° air outlet



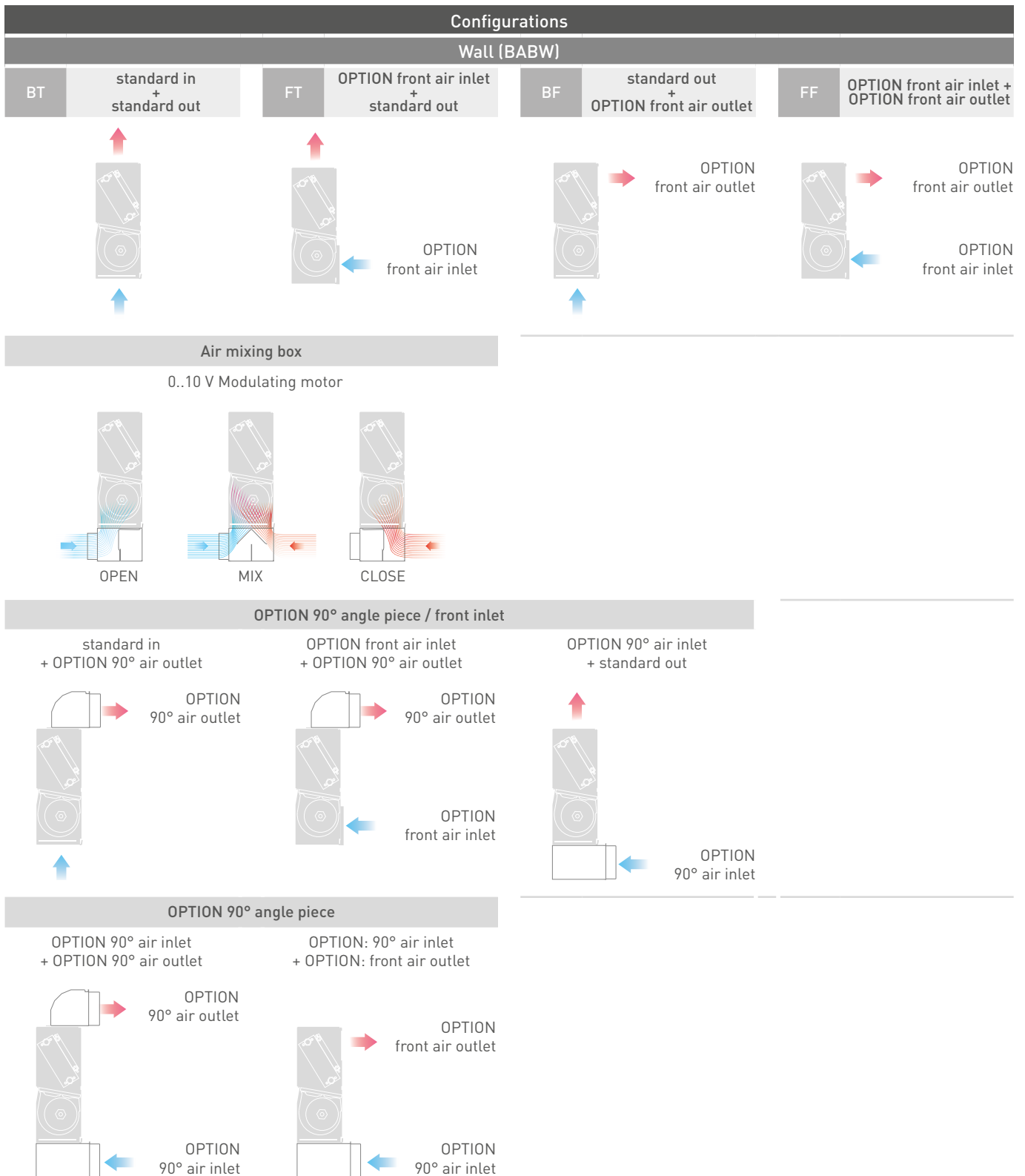
OPTION 180° air inlet

OPTION 180° outlet



OPTION 90° air inlet

OPTION 90° air outlet





BRIZA 22 • L55 • 2-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	BTU/h*
285	51,0	59,0	42,0	0.36	10	24105
246	46,5	54,5	29,0	0.26	8	21781
195	42,5	50,5	17,0	0.16	6	17982
137	35,0	43,0	8,0	0.09	4	12745
73	25,5	33,5	3,7	0.06	2	7763

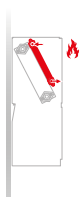
BRIZA 22 • L55 • 2-PIPE SYSTEM • heating 130/110/68°F

285	51,0	59,0	42,0	0,36	10	13625
246	46,5	54,5	29,0	0,26	8	12311
195	42,5	50,5	17,0	0,16	6	10164
137	35,0	43,0	8,0	0,09	4	7204
73	25,5	33,5	3,7	0,06	2	4388

BRIZA 22 • L55 • 2-PIPE SYSTEM • heating 95/85/68°F

285	51,0	59,0	42,0	0,36	10	5764
246	46,5	54,5	29,0	0,26	8	5208
195	42,5	50,5	17,0	0,16	6	4300
236	35,0	43,0	8,0	0,09	4	3048
123	25,5	33,5	3,7	0,06	2	1856

- Heating / Cooling capacity measured according EN1397
- Air flow measured according ISO5801
- Sound measurement according ISO 3741:2010 / ISO 5135:1997 / EUROVENT 8/2-1992, with an adopted room attenuation of 8dB(A) with a volume of 75m³/h / reverberation time 0.5sec



BRIZA 22 • 02 • 4-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT	
(CFM)	Lp [dBa]	Lw [dBa]	[W]	[A]	VDC [V]	(BTU/h)	
285	51,0	59,0	42,0	0,36	10	9468	
137	46,5	54,5	29,0	0,26	8	8845	
195	42,5	50,5	17,0	0,16	6	7963	
137	35,0	43,0	8,0	0,09	4	6312	
73	25,5	33,5	3,7	0,06	2	4749	

BRIZA 22 • 02 • 4-PIPE SYSTEM • heating 130/110/68°F

285	51,0	59,0	42,0	0,36	10	5352	
246	46,5	54,5	29,0	0,26	8	4999	
195	42,5	50,5	17,0	0,16	6	4501	
137	35,0	43,0	8,0	0,09	4	3568	
73	25,5	33,5	3,7	0,06	2	2684	

BRIZA 22 • 02 • 4-PIPE SYSTEM • heating 95/85/68°F

285	51,0	59,0	42,0	0,36	10	2264	
246	46,5	54,5	29,0	0,26	8	2115	
195	42,5	50,5	17,0	0,16	6	1904	
137	35,0	43,0	8,0	0,09	4	1509	
123	25,5	33,5	3,7	0,06	2	1136	



BRIZA 22 • 02 • cooling 60/68/80°F

Air Flow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dBa]	Lw [dBa]	[W]	[A]	VDC [V]	total	sensible
285	51,0	59,0	42,0	0,36	10	3881	3881
246	46,5	54,5	29,0	0,26	8	3497	3497
195	42,5	50,5	17,0	0,16	6	2833	2833
137	35,0	43,0	8,0	0,09	4	2087	2087
73	25,5	33,5	3,7	0,06	2	1281	1281

BRIZA 22 • 02 • cooling 45/55/80°F

285	51,0	59,0	42,0	0,36	10	9167	7021
246	46,5	54,5	29,0	0,26	8	8367	6326
195	42,5	50,5	17,0	0,16	6	6869	5125
137	35,0	43,0	8,0	0,09	4	5128	3775
73	25,5	33,5	3,7	0,06	2	3190	2317



BRIZA 22 • 03 • 2-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT
CFM	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	(BTU/h)
350	49,0	57,0	45	0,41	10	29769
304	45,0	53,0	31	0,29	8	27172
241	39,0	47,0	18	0,17	6	22441
170	29,5	37,5	8,5	0,09	4	16133
91	20,5	28,5	3,6	0,05	2	9702

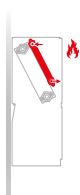
BRIZA 22 • 03 • 2-PIPE SYSTEM • heating 130/110/68°F

350	49,0	57,0	45	0,41	10	16826
304	45,0	53,0	31	0,29	8	15358
241	39,0	47,0	18	0,17	6	12684
170	29,5	37,5	8,5	0,09	4	9119
91	20,5	28,5	3,6	0,05	2	5484

BRIZA 22 • 03 • 2-PIPE SYSTEM • heating 95/85/68°F

350	49,0	57,0	45	0,41	10	2136
304	45,0	53,0	31	0,29	8	1951
241	39,0	47,0	18	0,17	6	1609
170	29,5	37,5	8,5	0,09	4	1160
91	20,5	28,5	3,6	0,05	2	696

- Heating / Cooling capacity measured according EN1397
- Air flow measured according ISO5801
- Sound measurement according ISO 3741:2010 / ISO 5135:1997 / EUROVENT 8/2-1992, with an adopted room attenuation of 8dB(A) with a volume of 75m³/h / reverberation time 0.5sec



BRIZA 22 • 03 • 4-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT	
(CFM)	Lp [dBa]	Lw [dBa]	[W]	[A]	VDC [V]	(BTU/h)	
350	49,0	57,0	45	0,41	10	11679	
304	45,0	53,0	31	0,29	8	11080	
241	39,0	47,0	18	0,17	6	9877	
170	29,5	37,5	8,5	0,09	4	8041	
91	20,5	28,5	3,6	0,05	2	5919	

BRIZA 22 • 03 • 4-PIPE SYSTEM • heating 130/110/68°F

350	49,0	57,0	45	0,41	10	6601	
304	45,0	53,0	31	0,29	8	6263	
241	39,0	47,0	18	0,17	6	5583	
170	29,5	37,5	8,5	0,09	4	4545	
91	20,5	28,5	3,6	0,05	2	3345	

BRIZA 22 • 03 • 4-PIPE SYSTEM • heating 95/85/68°F

350	49,0	57,0	45	0,41	10	1415	
304	45,0	53,0	31	0,29	8	1923	
241	39,0	47,0	18	0,17	6	2362	
170	29,5	37,5	8,5	0,09	4	2650	
155	20,5	28,5	3,6	0,05	2	2793	



BRIZA 22 • 03 • cooling 60/68/80°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dBa]	Lw [dBa]	[W]	[A]	VDC [V]	total	sensible
350	49,0	57,0	45	0,41	10	4991	4991
304	45,0	53,0	31	0,29	8	4552	4552
241	39,0	47,0	18	0,17	6	3722	3722
170	29,5	37,5	8,5	0,09	4	2744	2744
91	20,5	28,5	3,6	0,05	2	1668	1668

BRIZA 22 • 03 • cooling 7/12/27

350	49,0	57,0	45	0,41	10	11700	8961
304	45,0	53,0	31	0,29	8	10810	8173
241	39,0	47,0	18	0,17	6	8956	6683
170	29,5	37,5	8,5	0,09	4	6693	4928
91	20,5	28,5	3,6	0,05	2	4124	2995



BRIZA 22 • 04 • 2-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	(BTU/H)
448	46,5	54,5	50	0,44	10	41973
392	42,5	50,5	36	0,33	8	38489
308	37,0	45,0	20	0,19	6	31995
215	29,5	37,5	10	0,1	4	22865
118	22,0	30,0	4	0,05	2	13851

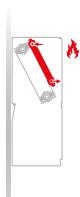
BRIZA 22 • 04 • 2-PIPE SYSTEM • heating 55/45/20 ΔT (water-air) = 30K

448	46,5	54,5	50	0,44	10	23724
392	42,5	50,5	36	0,33	8	21754
308	37,0	45,0	20	0,19	6	18084
215	29,5	37,5	10	0,1	4	12924
118	22,0	30,0	4	0,05	2	7829

BRIZA 22 • 04 • 2-PIPE SYSTEM • heating 35/30/20 ΔT (water-air) = 12.5K

448	46,5	54,5	50	0,44	10	10037
392	42,5	50,5	36	0,33	8	9204
308	37,0	45,0	20	0,19	6	7651
215	29,5	37,5	10	0,1	4	5468
118	22,0	30,0	4	0,05	2	3312

- Heating / Cooling capacity measured according EN1397
- Air flow measured according ISO5801
- Sound measurement according ISO 3741:2010 / ISO 5135:1997 / EUROVENT 8/2-1992, with an adopted room attenuation of 8dB(A) with a volume of 75m³/h / reverberation time 0.5sec



BRIZA 22 • 04 • 4-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT	
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	(BTU/h)	
448	46,5	54,5	50	0,44	10	16482	
392	42,5	50,5	36	0,33	8	15650	
308	37,0	45,0	20	0,19	6	14200	
215	29,5	37,5	10	0,10	4	11310	
118	22,0	30,0	4	0,05	2	8499	

BRIZA 22 • 04 • 4-PIPE SYSTEM • heating 130/110/68°F

448	46,5	54,5	50	0,44	10	9316	
392	42,5	50,5	36	0,33	8	8845	
308	37,0	45,0	20	0,19	6	8026	
215	29,5	37,5	10	0,10	4	6392	
118	22,0	30,0	4	0,05	2	4804	

BRIZA 22 • 04 • 4-PIPE SYSTEM • heating 95/85/68°F

448	46,5	54,5	50	0,44	10	3941	
392	42,5	50,5	36	0,33	8	3742	
308	37,0	45,0	20	0,19	6	3396	
215	29,5	37,5	10	0,10	4	2704	
118	22,0	30,0	4	0,05	2	2032	



BRIZA 22 • 04 • cooling 65/60/80°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	total	sensible
448	46,5	54,5	50	0,44	10	7218	7218
392	42,5	50,5	36	0,33	8	6635	6635
308	37,0	45,0	20	0,19	6	5442	5442
215	29,5	37,5	10	0,1	4	4019	4019
118	22,0	30,0	4	0,05	2	2432	2432

BRIZA 22 • 04 • cooling 45/55/80°F

448	46,5	54,5	50	0,44	10	16805	12871
392	42,5	50,5	36	0,33	8	15650	11831
308	37,0	45,0	20	0,19	6	13004	9703
215	29,5	37,5	10	0,1	4	9732	7165
118	22,0	30,0	4	0,05	2	5970	4337



BRIZA 22 • 06 • 2-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	(BTU/h)
648	52,5	60,5	79	0,64	10	55575
564	49,0	57,0	59	0,48	8	50606
449	43,0	51,0	34	0,31	6	41632
314	36,0	44,0	18	0,19	4	29619
164	28,0	36,0	9	0,12	2	17572

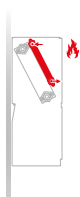
BRIZA 22 • 06 • 2-PIPE SYSTEM • heating 130/110/68°F

648	52,5	60,5	79	0,64	10	31412
564	49,0	57,0	59	0,48	8	28604
449	43,0	51,0	34	0,31	6	23531
314	36,0	44,0	18	0,19	4	16741
164	28,0	36,0	9	0,12	2	9932

BRIZA 22 • 06 • 2-PIPE SYSTEM • heating 95/85/68°F

648	52,5	60,5	79	0,64	10	13290
564	49,0	57,0	59	0,48	8	12101
449	43,0	51,0	34	0,31	6	9955
314	36,0	44,0	18	0,19	4	7083
164	28,0	36,0	9	0,12	2	4202

- Heating / Cooling capacity measured according EN1397
- Air flow measured according ISO5801
- Sound measurement according ISO 3741:2010 / ISO 5135:1997 / EUROVENT 8/2-1992, with an adopted room attenuation of 8dB(A) with a volume of 75m³/h / reverberation time 0.5sec



BRIZA 22 • 06 • 4-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	(BTU/h)	
648	52,5	60,5	79	0,64	10	21821	
564	49,0	57,0	59	0,48	8	20564	
449	43,0	51,0	34	0,31	6	18478	
314	36,0	44,0	18	0,19	4	14631	
164	28,0	36,0	9	0,12	2	10785	

BRIZA 22 • 06 • 4-PIPE SYSTEM • heating 130/110/68°F

648	52,5	60,5	79	0,64	10	12334	
564	49,0	57,0	59	0,48	8	11623	
449	43,0	51,0	34	0,31	6	10444	
314	36,0	44,0	18	0,19	4	8269	
164	28,0	36,0	9	0,12	2	6096	

BRIZA 22 • 06 • 4-PIPE SYSTEM • heating 95/85/68°F

648	52,5	60,5	79	0,64	10	2579	
564	49,0	57,0	59	0,48	8	3499	
449	43,0	51,0	34	0,31	6	4419	
314	36,0	44,0	18	0,12	4	4917	
279	28,0	36,0	9	0,12	2	5218	



BRIZA 22 • 06 • cooling 60/65/80°F

AirFlow Q OPa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	total	sensible
648	52,5	60,5	79	0,64	10	9421	9421
564	49,0	57,0	59	0,48	8	8531	8531
449	43,0	51,0	34	0,31	6	6971	6971
314	36,0	44,0	18	0,19	4	5130	5130
164	28,0	36,0	9	0,12	2	3083	3083

BRIZA 22 • 06 • cooling 45/55/80°F

648	52,5	60,5	79	0,64	10	23065	17666
564	49,0	57,0	59	0,48	8	21160	15998
449	43,0	51,0	34	0,31	6	17519	13072
314	36,0	44,0	18	0,19	4	13067	9621
164	28,0	36,0	9	0,12	2	7958	5781



BRIZA 22 • 08 • 2-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)
(CFM)	Lp [dB(A)]	Lw [dB(A)]	[W]	[A]	VDC [V]	((BTU/h)
744	51,0	59,0	86	0,73	10	73812
655	47,0	55,0	64	0,55	8	67187
518	41,0	49,0	35	0,31	6	54458
363	34,0	42,0	15	0,15	4	39215
197	25,0	33,0	6,3	0,08	2	22607

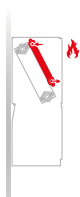
BRIZA 22 • 08 • 2-PIPE SYSTEM • heating 130/110/68°F

744	51,0	59,0	86	0,73	10	41720
655	47,0	55,0	64	0,55	8	37975
518	41,0	49,0	35	0,31	6	30781
363	34,0	42,0	15	0,15	4	22165
197	25,0	33,0	6,3	0,08	2	12778

BRIZA 22 • 08 • 2-PIPE SYSTEM • heating 95/85/68°F

744	51,0	59,0	86	0,73	10	17651
655	47,0	55,0	64	0,55	8	16066
518	41,0	49,0	35	0,31	6	13023
363	34,0	42,0	15	0,15	4	9378
197	25,0	33,0	6,3	0,08	2	5406

- Heating / Cooling capacity measured according EN1397
- Air flow measured according ISO5801
- Sound measurement according ISO 3741:2010 / ISO 5135:1997 / EUROVENT 8/2-1992, with an adopted room attenuation of 8dB(A) with a volume of 75m³/h / reverberation time 0.5sec



BRIZA 22 • 08 • 4-PIPE SYSTEM • heating 170/150/68°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dbA]	Lw [dbA]	[W]	[A]	VDC [V]	(BTU/h)	
744	51,0	59,0	86	0,73	10	29037	
655	47,0	55,0	64	0,55	8	27043	
518	41,0	49,0	35	0,31	6	24464	
363	34,0	42,0	15	0,15	4	19149	
197	25,0	33,0	6,3	0,08	2	13972	

BRIZA 22 • 08 • 4-PIPE SYSTEM • heating 130/110/68°F

744	51,0	59,0	86	0,73	10	16412	
655	47,0	55,0	64	0,55	8	15285	
518	41,0	49,0	35	0,31	6	13827	
363	34,0	42,0	15	0,15	4	10823	
197	25,0	33,0	6,3	0,08	2	7897	

BRIZA 22 • 08 • 4-PIPE SYSTEM • heating 95/85/68°F

744	51,0	59,0	86	0,73	10	6944	
655	47,0	55,0	64	0,55	8	6467	
518	41,0	49,0	35	0,31	6	5850	
363	34,0	42,0	15	0,15	4	4579	
197	25,0	33,0	6,3	0,08	2	3341	



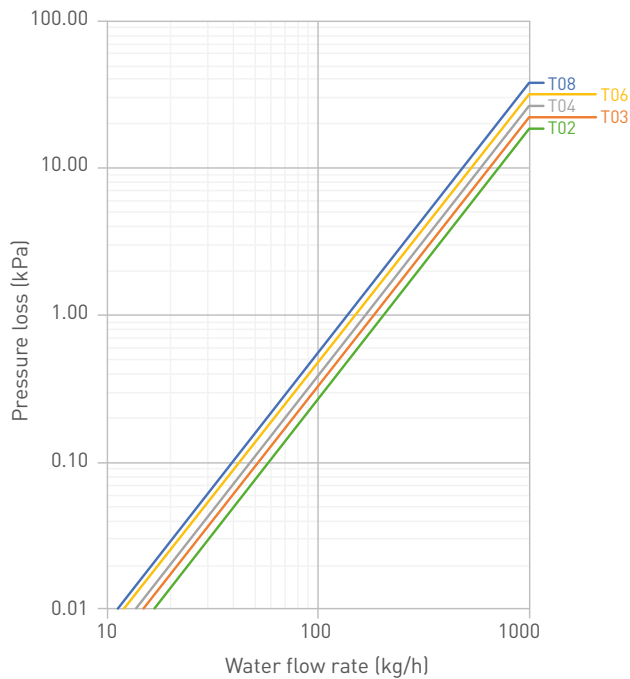
BRIZA 22 • 08 • cooling 60/65/80°F

AirFlow Q 0Pa	Sound pressure	Sound power	Power consumption	Current	Control voltage	OUTPUT P (BTU/h)	
(CFM)	Lp [dbA]	Lw [dbA]	[W]	[A]	VDC [V]	total	sensible
1266	51,0	59,0	86	0,73	10	12118	12118
1113	47,0	55,0	64	0,55	8	10890	10890
884	41,0	49,0	35	0,31	6	8870	8870
615	34,0	42,0	15	0,15	4	6544	6544
337	25,0	33,0	6,3	0,08	2	3886	3886

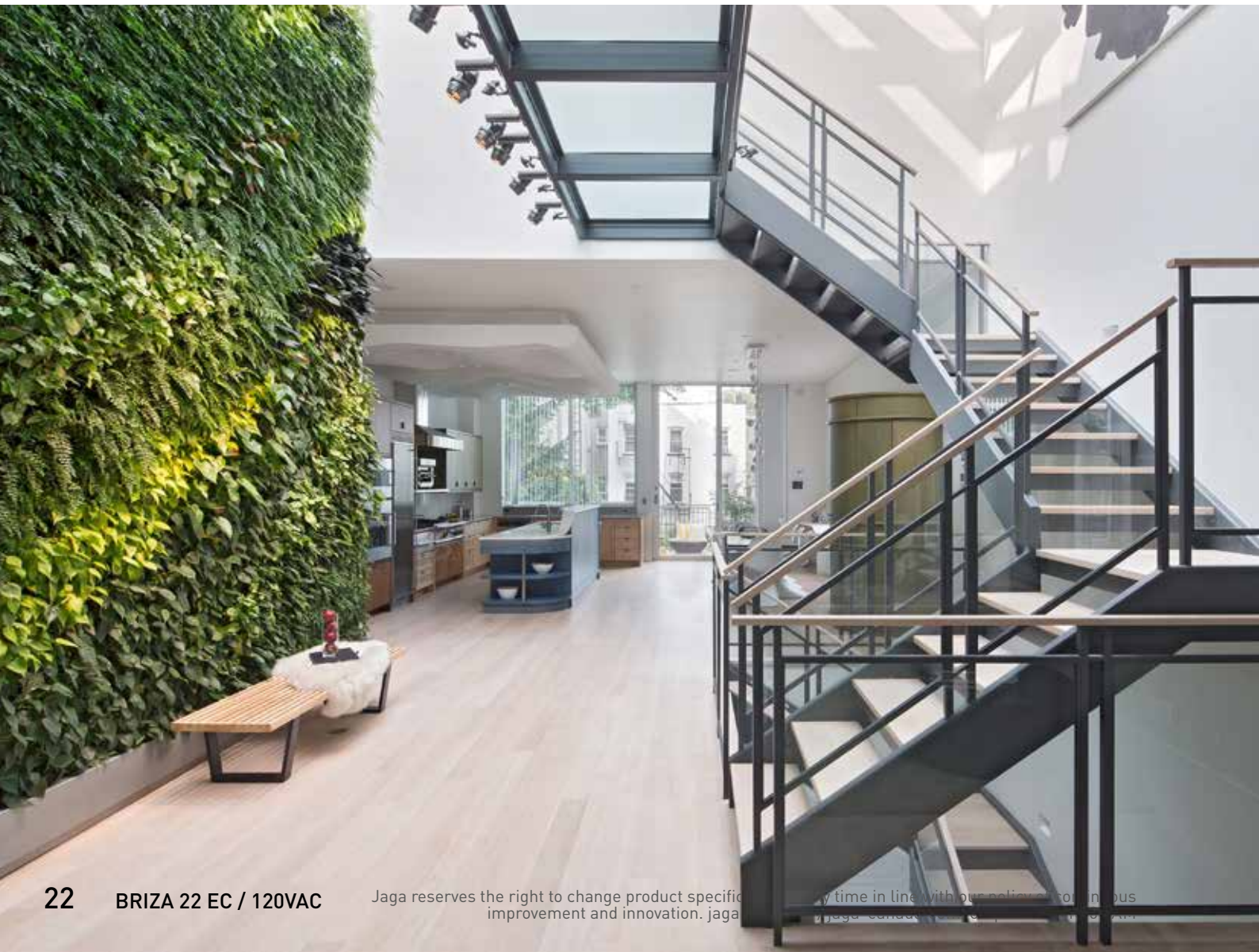
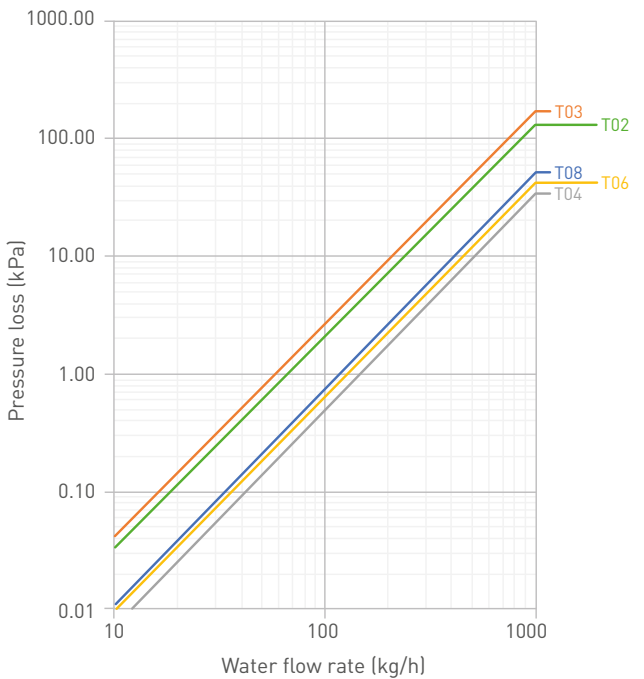
BRIZA 22 • 08 • cooling 45/55/80°F

1266	51,0	59,0	86	0,73	10	31204	23899
1113	47,0	55,0	64	0,55	8	28408	21477
884	41,0	49,0	35	0,31	6	23444	17492
615	34,0	42,0	15	0,15	4	17530	12906
337	25,0	33,0	6,3	0,08	2	10550	7663

Pressure loss curve standard heat exchanger Briza 22



Pressure loss curve additional heat exchanger Briza 22

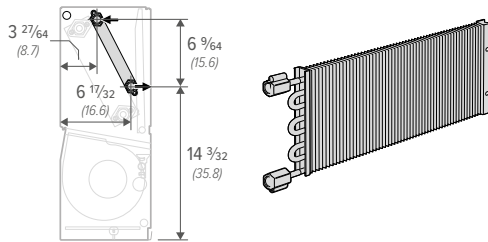


BRIZA 22 Built-In general technical data							
			02	03	04	06	08
Power supply	V-PH -		115-1-60				
Width (L)	mm		550	750	950	1250	1550
Height			545				
Depth			222				
Weight	kg		17	21 .5	27	35 .5	44
Connection standard heat exchanger	inch		¾G(F)				
Connection optional heat exchanger			½G(F)				
Connection condensate drain	mm		20				
Number of rows of pipes (standard) heat exchanger			4				
Water capacity (default) heat exchanger	L		1,23	1,77	2,23	3,14	4,05
Water capacity (additional) heat exchanger			0,31	0,42	0,53	0,69	0,85
Number of fans			1	2	2	3	4
Power input	P _e in W	10 Vdc	42	45	50	79	86
		8 Vdc	29	31	36	59	64
		6 Vdc	17	18	20	34	35
		4 Vdc	8	8,5	10	18	15
		2 Vdc	3,7	3,6	4	9	6,3
Current consumption	I _N in A	10 Vdc	0,36	0,41	0,44	0,64	0,73
		8 Vdc	0,26	0,29	0,33	0,48	0,55
		6 Vdc	0,16	0,17	0,19	0,31	0,31
		4 Vdc	0,09	0,09	0,1	0,19	0,15
		2 Vdc	0,06	0,05	0,05	0,12	0,08
Head-pressure Pa (10 Vdc)	m³/h	0 Pa	485	595	764	1104	1266
		10 Pa	450	550	690	1005	1155
		20 Pa	425	520	640	950	1075
		30 Pa	400	480	590	890	995
		40 Pa	380	450	550	830	915
		50 Pa	350	410	495	770	830
		60 Pa	330	375	440	705	755
		70 Pa	300	335	385	635	675
		80 Pa	265	290	335	555	585
		90 Pa	240	240	275	475	480
		100 Pa	200	195	220	380	375
		110 Pa	170	140	150	305	275
		120 Pa	140	85	90	220	160
Specific Fancoil Power, with G2 Filter @ Speed 10 Volt	SFP (W/ l/s)	0Pa	0,315	0,272	0,235	0,257	0,244
		30Pa	0,28	0,268	0,24	0,27	0,241

Cable length / cable thickness Ø i.f. number of devices					
Cable thickness Ø 1mm²		Cable thickness Ø 1,5mm²		Cable thickness Ø 2,5mm²	
Number of devices	Length in meters	Number of devices	Length in meters	Number of devices	Length in meters
5	34	5	51	5	85
10	17	10	25	10	42
15	11	15	17	15	28
20	8	20	12	20	21
25	6	25	10	25	17
30	5	30	8	30	14
35	4	35	7	35	12
40	3	40	6	40	10

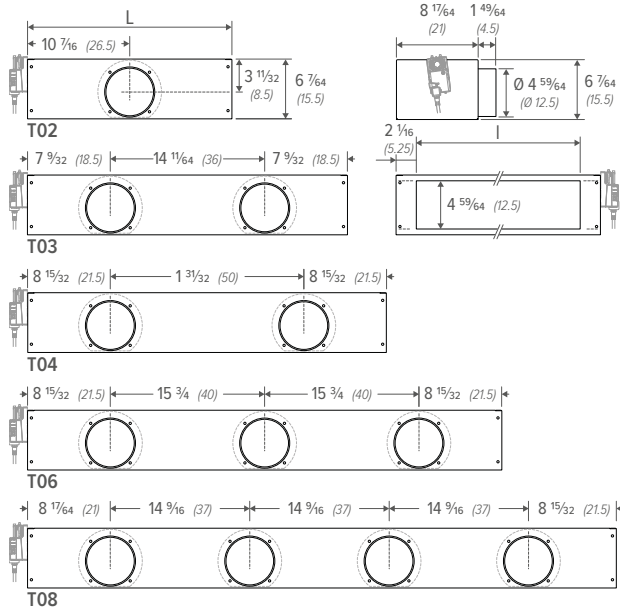
Options

Supplementary Dynamic Heat Exchanger with Hydrophilic coating (for 4-pipe system)



Model	02	03	04	06	08
Code	8721.5401	8721.5402	8721.5403	8721.5404	8721.5405

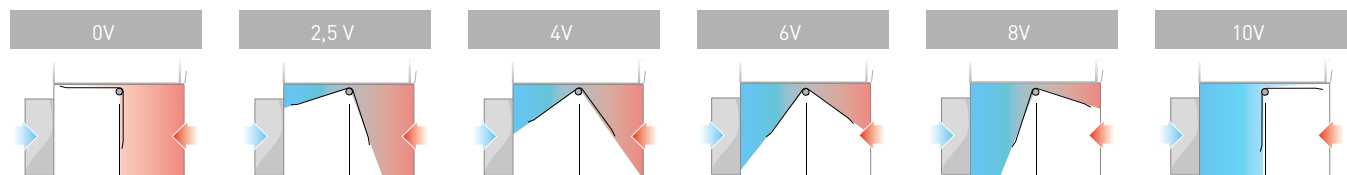
Motorised damper with 0..10V modulating motor.



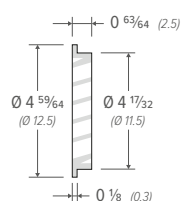
Model	02	03	04	06	08
Code	8763.0301	8763.0302	8763.0303	8763.0304	8763.0305
L (cm)	53	83	93	123	153
l	42.5	72.5	82.5	112.5	142.5



- 24VDC motorized air mixer, with modulating adjustable damper. (damper position determined by modulating 0...10V signal)



OPTION code 8776.1750



Wall ventilation grille Ø125 mm Aluminium.
Standard color: Aluminium. Other colors on demand (RAL).

Options

90° Angle piece

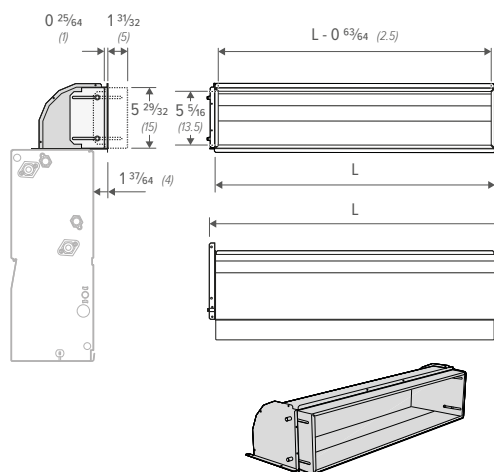
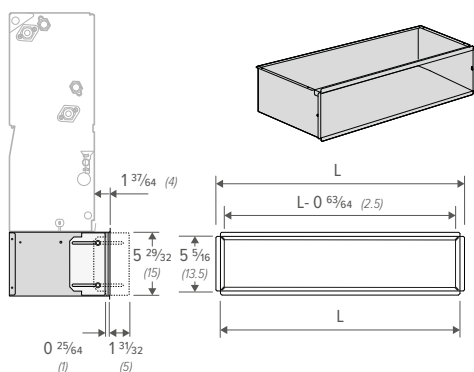


Inlet angle piece 90°

Model	02	03	04	06	08
Code	8787.0101	8787.0102	8787.0103	8787.0104	8787.0105
L (cm)	53	73	93	123	153
l	50	70	90	120	150

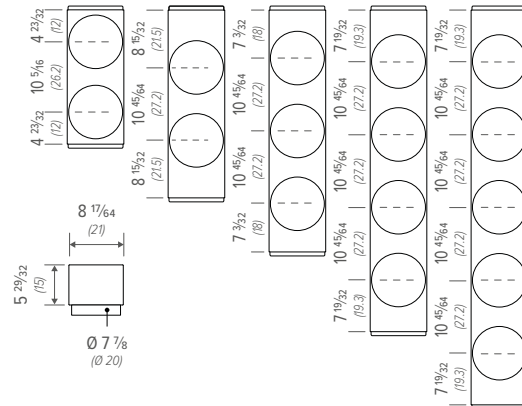
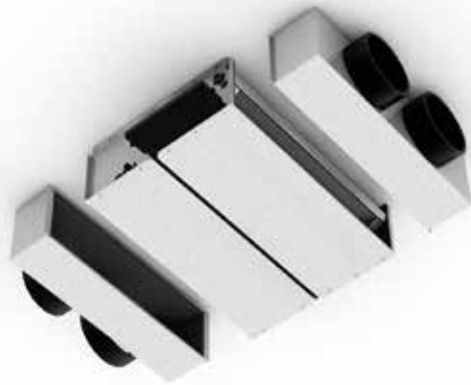
Exhaust angle piece 90°

Model	02	03	04	06	08
Code	8788.0101	8788.0102	8788.0103	8788.0104	8788.0105
L (cm)	53	73	93	123	153
l	50	70	90	120	150



Options

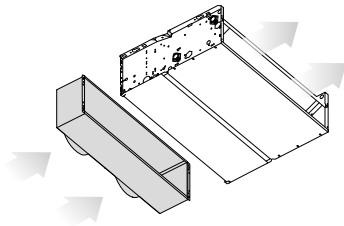
180° Plenum



Inlet plenum 180°

- inlet plenum with circular connection Ø 200 mm
- mounting on the inlet side of the device
- from galvanized steel
- pressure losses are negligibly

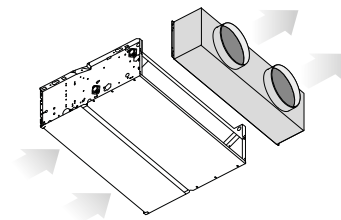
Model	02	03	04	06	08
Code	8764.0501	8764.0502	8764.0503	8764.0504	8764.0505



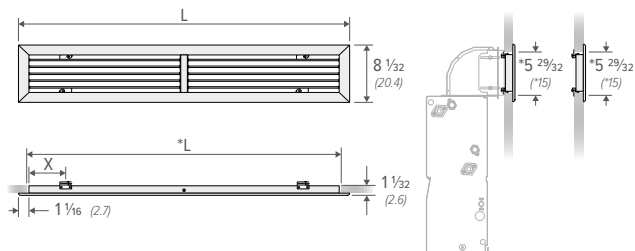
Exhaust Plenum 180°

- plenum with circular connection Ø 200 mm
- inner side acoustically and thermally insulated
- mounting on the outlet side of the device
- from galvanized steel
- pressure losses are negligibly

Model	02	03	04	06	08
Code	8764.0601	8764.0602	8764.0603	8764.0604	8764.0605



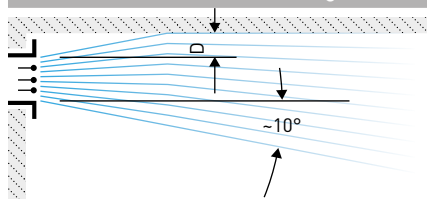
Adjustable air inlet grille / exhaust grille



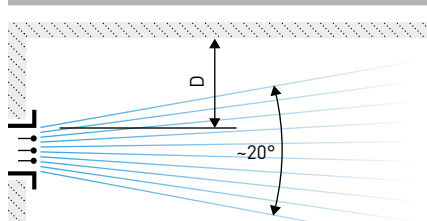
* minimum dimensions cut-out for mounting of grille

Model	02	03	04	06	08
Code	8789.201	8789.202	8789.203	8789.204	8789.205
L	53.2	73.2	93.2	123.2	153.2
*L	50	70	90	120	150

With ceiling deflection



Without ceiling deflection





BRIZA 22 options

JAGA Dynamic Product Control , Jaga Control panel



DPC.BRC4

with control panel
water temperature sensor **heating**
room temperature sensor

DPC.BRC6

- with control panel
- water temperature sensor **heating & cooling**
- room temperature sensor

Heating: The fans will start when the water temperature sensor detects 28°C / 83°F water in the coil.

Cooling: The fans will start when the water temperature sensor detects 18°C / 64°F water in the coil.

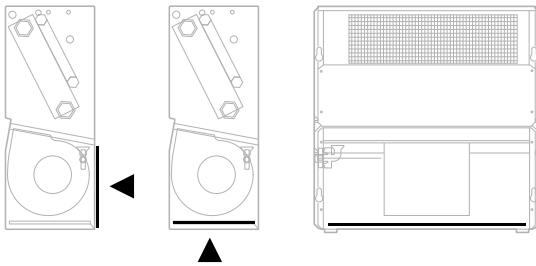
Installation

Electrical connections: IMPORTANT!

- the warranty is only valid when the correct power supply has been installed
- Make sure to double check polarity before switching on the power supply. Mixed polarity will damage the controller.
- The electrical installation must be carried out by a qualified technician, in compliance with the local building codes.

Spare-parts

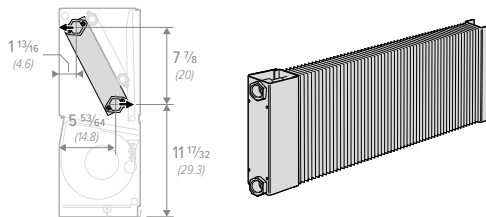
Filter



Code	Model				
	02	03	04	06	08
	8721.401	8721.402	8721.403	8721.404	8721.405

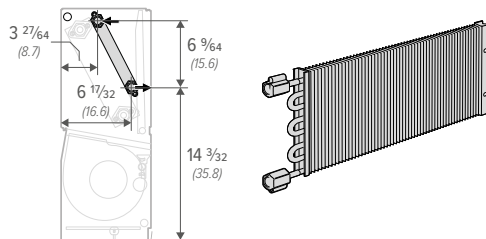
Material according DIN 53438

Standard coil 2-pipe heating / 4-pipe cooling



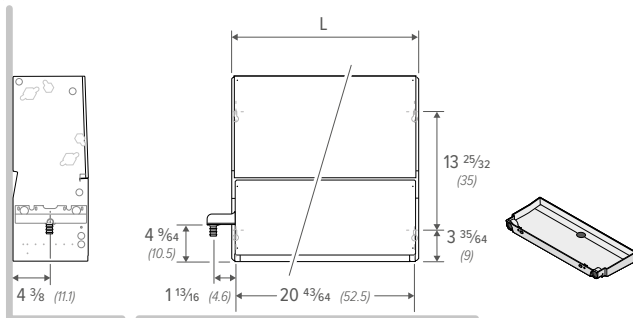
Code	Model				
	02	03	04	06	08
	8776.0301	8776.0302	8776.0303	8776.0304	8776.0305

OPTIONAL Supplementary coil (heating for 4-pipe system)



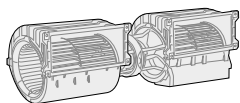
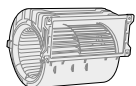
Code	Model				
	02	03	04	06	08
	8721.5401	8721.5402	8721.5403	8721.5404	8721.5405

OPTIONAL secondary condensate drain pan wall



Code	Model				
	02	03	04	06	08
	38776.171301				

Fan module



Code	Model				
	02	03	04	06	08
24560.02200010	1X	-	-	1X	-
24560.02200011	-	1X	1X	1X	2X

Expected lifespan fans:

With an operation of 24 hours a day and 7 days a week at 70% power at a temperature of 20 °, the expected lifetime is 84.482 hours, or about 10 years. After this there is a 1 % chance of dropout.





BRIZA 22 product description Built-In Wall

Description Briza 22 Build in Wall:

Pre-mounted air conditioning unit, available in five lengths, for installation into a wall pocket. Available in four versions, each in 2- or 4-pipe connection.

Build-in Wall **BABW/BT** (Standard version)

- air exhaust at the top
- return air at the bottom

Build-in Wall **BABW/FT** (Optional version)

- air exhaust at the top
- return air at the front

Build-in Wall **BABW/BF** (Optional version)

- air exhaust at the front
- return air at the bottom

Build-in Wall **BABW/FF** (Optional version)

- air exhaust at the front
- return air at the front

Description Briza 22 Built-In Ceiling

Pre-mounted air conditioning unit, in five lengths, for installation in ceiling. Available in two versions, each in 2- or 4-pipe connection.

Build-in Wall **BABC/BT** (Standard version)

- air exhaust at the top
- return air at the bottom

Build-in Wall **BABW/FT** (Optional version)

- air exhaust at the top
- return air at the front

Heating: standard equipped for connection to central heating systems for conventional and low water temperatures.

Cooling: standard equipped for connection to chilled water cooling systems.

Ventilation: connection for mechanical ventilation.

The enclosure is made of reinforced galvanized steel and a sloped condensate drain pan. All panels of the enclosure and drain pan are equipped with self-extinguishing thermal insulation to avoid condensation

- the wall version is equipped as standard with a condensate drain pan on the left, connection Ø 25/32".
- the ceiling version: the unit is equipped with a sloped condensate drain pan in the front panel, the gravity drain connection is located on the left side of the device, connection Ø 25/32"
- To avoid odor issues, a P-trap must be installed between the drain pipes and the unit.

Dynamic heat exchanger:

The heat exchanger consists of a coil with three round rows seamless circulation tubes of pure red copper, connected with pure aluminium fins brass 2:08 mm spaced, and cast collectors equipped with a patented low pressure loss hydraulic distributor.

Test pressure 377PSI working pressure 290PSI

Hydraulic connection:

2-pipe systeem:

- standard coil GF 3/4 "connection on the left. Also available with hydraulic connection to the right.

4-pipe systeem:

- standard coil GF 3/4 "connection on the left. Also available with hydraulic connection to the right.
- secondary coil GF 1/2", connection on the left. Also available with hydraulic connection to the right.

GREEN-TECH Fan unit(s):

Cylindrical rotor fans with **GreenTech EC technology**: Energy-saving, easy operation, low noise.

Motor:

- aluminium, mounted with vibration dampers on both sides. 115V VAC, 60 Hz, (see identification plate). Protection class motor IP44, electronic IP20, depending on installation and position. Control input 0-10 V or PWM, electrically insulated. Voltage output 10 V, 1.1 mA, electrically insulated.

Fan impeller:

- forward curved, from PA synthetic

Elektrical connection:

- standard to the right of the unit.
- by means of terminals (earth connection - / + 120, 0 ... 10V), . Supply Voltage 115 V / 60 Hz.

Dust filter:

Renewable polypropylene synthetic filter (filter class MERV4, removable from the front of the unit).

Terms of Use:

Air-conditioning unit for indoor use, to provide in the summer and during the winter the required heating and cooling (summer and winter, air conditioning).

For indoor spaces with domestic or similar use.

Operating limits:

Max Temperature supply water: 90 ° C.

Maximum pressure heat exchanger: 20

bar. Supply voltage: 120V ± 10%.

Options:

- motorised damper: air mixing box with motorized damper with 0...10V control for outdoor air inlet
- wall ventilation grille Ø 125mm
- inlet angle piece 90°
- exhaust angle piece 90°
- adjustable air inlet grille / exhaust grille for 90° angle pieces
- inlet plenum 180° with round flanges, connection Ø 200 mm
- exhaust plenums 180° with round flanges connection Ø200 mm
- secondary drain pan

Manufactured by Jaga n.v. Belgium.

Type: BRIZA 22 BUILD-IN WALL Type:

BRIZA 22 BUILD-IN CEILING



What is sound power, sound pressure

Sound power is noise production of the device itself (sound source). The sound power is thus considered as a fixed value independent of the installation situation.

Sound pressure is the perceptible sound. This depends on the installation situation and on several factors:

- the location of the device
- the environmental condition
- the distance to the measured sound source
- the reflection of the sound (depending on the size and the height of the room and the materials used)

Note: The sound power is always higher than the perceived sound pressure.

Reverberation time:

Reverberation time is the time - in seconds - which is necessary to lower the sound pressure level of 60 dB after the sound source is switched off. This shows that the reverberation time in a large room will be larger than in a small room. Particularly the acoustics and decoration of the room determines the reverberation time.

Sound power

sound pressure



