



PRODUCT DESCRIPTION

Briza 22 is designed to heat and cool domestic or similar rooms. It is designed to function solely as a terminal air handling unit with optional supply and discharge plenum. The units come with **2 pipe** or **4 pipe system fittings**.

Very suitable for **connection to low-temperature systems** such as heat pumps, solar-energy systems and condensing boilers

Cooling, Suitable for non-condensing and condensing cooling using chilled water

Heating: heats efficiently and comfortably with the lowest water temperature.

Ventilation: with optional air mixing box

Centrifugal fans with GreenTech-EC technology: energy efficient, easy operation, low noise level.

Components:

The support **frame** consists of a reinforced galvanized steel sheet with self-extinguishing anti-condensation insulation on the front, side and back panels of the unit.

replaceable polypropylene dust filter (class G2)

condensate trap with drain pipe Ø 20 mm

- wall-mounted model / freestanding: condensate trap on the left side of the unit., condensate drain with natural drainage
- ceiling-mounted model: condensate trap in the front panel, condensate drain with natural drainage

In order to avoid odor nuisance, the condensate drain must be connected to a regularly used drain pipe with an odor trap..

Pre-assembled casing:

- pre-assembled front and side panels made of electro-galvanized & straightened steel sheet with a thickness of 1.25 mm.
- grille made of 0.80 mm thick Sendzimir galvanized steel sheet, profiled, curved backwards with sloping upper part
- Colour:
 - **traffic white RAL 9016 (133)**. Soft touch: finely-structured matte paint, gloss sheen <10%.
 - **sand blast grey (001)**, fine-texture metallic paint
 - **off-black (145)**. Soft touch: finely-structured matte paint, gloss sheen < 10%

Non-standard colours: see Jaga colour chart.

- the casing's coating is a structured scratchproof polyester, applied electrostatically in powder form and baked at 200°C.
- UV resistant according to ASTM G53.
- The casing's surface temperature will never exceed 43°C, even when the water temperature is 90°C.

Heat exchanger:

- high-quality aluminium-copper heat exchanger with hydrophilic coating. consists of: round seamless circulation pipes made of pure red copper, connected with pure aluminium fins, with a spacing of 2.1 mm and an integrated brass collector, including air vent 1/2".
- working pressure: 20 bar

Hydronic connection:

- 2-pipe version:
 - standard heat exchanger for heating and cooling, 3/4 GF connection on the left, also available with the connection on the right..
- 4-pipe version:
 - standard heat exchanger for cooling, 3/4 GF connection on the left, also available with the connection on the right.
 - a second heat exchanger for heating, 1/2" GF connection on the left, also available with the connection on the right.

Fan:

Centrifugal fans with GreenTech-EC technology: energy efficient, easy operation, low noise level.

- motor: made of aluminium, mounted with vibration dampers on both sides. 230 VAC, 50-60 Hz (see type tag). Motor protection class IP44, electronic IP20 depending on the installation and the position. Control input 0-10 V, electrically isolated. Voltage output 10 V, 1.1 mA, electrically isolated, not short-circuit proof.
- electrical connection is by default on the right hand side of the unit by means of clamps (protective grounding, 230VAC 0... 10 V).
 - supply voltage 208-230 VAC / 50 - 60 Hz.

Filter: replaceable synthetic G2 filter (CF-FC Coarse 35%)

Performances:

Installation in a wall recess (BABW ..) or Built-in ceiling(BABC ..):

- **BT (Bottom - Top)** - standard version
 - air inlet from the bottom - air outlet from the top.
 - casing with grille on top, front panel and side panels
 - height: 545 mm
 - depth: 222 mm
 - **BF (Bottom - Front)**
 - air inlet from the bottom - air outlet from the front.
 - casing with top panel, grille on the front, front panel and side panels
 - height: 545 mm
 - depth: 222 mm
 - **FT (Front - Top)**
 - air inlet from the front - air outlet from the top.
 - casing with grille on the top, grille on the front, front panel, side panels, bottom panel
 - height: 545 mm
 - depth: 242 mm (222 mm + 20 mm filter holder)
 - **FF (Front - Front)**
 - air inlet from the front - air outlet from the front.
 - casing with top panel, 2 grilles on the front, front panel and side panels, bottom panel
 - height 545 mm
 - depth: 242 mm (222 mm + 20 mm filter holder)
- wall mounted (BAMW ..) or ceiling-mounted (BAMC ..):**
- **BT (Bottom - Top)** - standard version
 - air inlet from the bottom - air outlet from the top.
 - casing with grille on top, front panel and side panels
 - height: 625 mm
 - depth: 232 mm
 - **BF (Bottom - Front)**
 - air inlet from the bottom - air outlet from the front.
 - casing with top panel, grille on the front, front panel and side panels
 - height: 625 mm
 - depth: 272 mm
 - **FT (Front - Top)**
 - air inlet from the front - air outlet from the top.
 - casing with grille on the top, grille on the front, front panel, side panels, bottom panel
 - height: 625 mm
 - depth: 272 mm (272 mm + 20 mm filter holder)
 - **FF (Front - Front)**
 - air inlet from the front - air outlet from the front.
 - casing with top panel, 2 grilles on the front, front panel and side panels, bottom panel
 - height: 625 mm
 - depth: 272 mm (272 mm + 20 mm filter holder)



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Freestanding (BAMF) with feet:

- **BT (Bottom - Top)** - standard version
 - air inlet from the bottom - air outlet from the top.
 - height: 800 mm
 - depth: 235 mm

Options:

- electrical resistance
- air mixing box with 230V modulating motor
- outside grille for air mixing box
- air outlet corner piece 90°
- air inlet corner piece 90°
- adjustable grille for
 - 90° corner piece
- air inlet plenum 180°
- air exhaust plenum 180°
- condensate pump
- float switch (only for ceiling-mounted installation)
- mounting bracket for the float switch (only for ceiling-mounted installation)
- valve sets:
 - Set 301 set with Jaga two-way valve 24VDC or 230VAC
 - Set 302 connection set standard heat exchanger with 2 return valves G $\frac{3}{4}$ "
 - Set 98 connection set 2nd heat exchanger with 2 return valves G1/2"
 - Set 99 Jaga lockshield valve and thermoelectric drive 230 VAC, (only for on the distributor)
- control options:
 - thermostat RDT160T: fan speed 0... 10 V, valves with motor 0... 10 V, heating, cooling, automatic or manual
 - Jaga thermostat JRT100: 2-pipe and 4-pipe, heating, cooling, semi-recessed
 - Jaga thermostat JRT100TW: 2-pipe and 4-pipe, heating, cooling, semi-recessed, with touchscreen and WIFI
 - Jaga thermostat JRT200: 2-pipe and 4-pipe, heating, cooling, wall-mounted
 - JDPC Jaga Dynamic Product Controller: heating/cooling/standby with automatic switch (temporary manual adjustment is possible: contact Jaga for more information), supply voltage: 24VDC, 0-10V input for a building management system/ thermostats
 - JFCC "Jaga FanCoil Controller"
- Stainless steel flexible connections:
 - Stainless steel flexible connections M $\frac{3}{4}$ - F $\frac{3}{4}$
 - Stainless steel flexible connections M 1/2 - F $\frac{1}{2}$

Terms of use :

Briza 22 is designed to heat and cool domestic or similar rooms. It is designed to function solely as a terminal air handling unit with optional supply and discharge plenum. Any other use is strictly prohibited.

- installing and/ or using the Jaga Briza 22 in an explosive environment is strictly prohibited
- the unit is not intended for installation or use in damp areas, e.g. swimming pools. (IEC EN 60335-2-40)
- it is forbidden to put objects through the inlet and outlet grilles. Always use the main switch to isolate the unit from the mains before performing any maintenance work on the unit, even if it is just inspections purposes.
- The units comply with the following **guidelines**:
 - CE-marking machinery directive 2006/42/EG
 - low tension directive 2014/35/EU
 - electromagnetic compatibility directive (EMC) 2014/30/EU
- **Operating limits**:
 - temperature supply water: 3 + 90 ° C.
 - max. working pressure heat exchanger: 20 bar
 - supply voltage: 230 V \pm 10%

Installation that does not comply with the specified operational limits relieves Jaga NV from discharge liabilities with regard to damage to objects and persons.

How to install:

The building services engineer chooses the heating elements considering the following conditions:

- a heat output calculation according to the standard.
- Tables of heat outputs and dimensions according to EN16430The heating elements are placed under the windows: they must be at least as wide as the window, taking into account the heat loss calculation.
- Free space:
 - the minimum space requirement under the heating elements is 15 cm.
 - the minimum distance for connections to the side of the unit is 15 cm.

Designed and manufactured in Belgium by Jaga nv

performances: BABW/BT - BABW/FT / BABW/BF - BABW/FF - BABC/BT - BABC/FT / BABC/BF - BABC/FF - BAMW/BT - BAMW/FT / BAMW/BF - BAMW/FF - BAMC/BT - BAMC/FT / BAMC/BF - BAMC/FF - BAMF/BT

Type: T2 (L550mm) / T3 (L750mm) / T4 (L950mm) / T6 (L1250mm) / T8 (L1550mm) / T10 (L1900mm)