

# DBE radiators\_Product descriptions

## Canal Compact DBE

### Material

Made of 4 mm thick fibreglass reinforced polyester, provided with topcoat. Waterproof, single-piece. Provided on the top side with an integrated anodized black/natural coloured aluminium profile, height 31.5 mm, that serves as a frame for the grille and for the anchoring of the duct in the subfloor.

- insulated R 1.5 / K 0.67 w/(m2.K): inside coating of 25 mm polyurethane foam.
- insulated R 4.0 / K 0.25 w/(m2.K): inside coating of 80 mm polyurethane foam.

Polyurethane foam: (32 kg/m3); in accordance to ASTM 1692.

Finish: dark grey polyethylene foam of 5 mm thick, in accordance to DIN 4102-1, class B2.

Canal Compact is provided as standard with a chipboard cover, thickness 1.5 cm, with pre-assembled spacer sleeves (meter load max. 90 kg).

### Feet

Feet from sendzimir galvanized and dark grey lacquered (RAL 7024) steel plate of 1.5 mm, provided with upright lips for fixing the separating wall and the heat exchanger.

### Brackets

Brackets of electrolytic galvanized and dark grey coated (RAL 7024) 1 mm steel plate included. These are clicked on the heat exchanger and give extra support for the separation wall. On both ends they function as a seal between the duct and separation wall.

### Separation wall

Black finished polyurethane wall in one piece, thickness 25 mm, slid in between the vertical upright lips of the feet.

### Heat exchanger

With DBE Technology

- the Low-H<sub>2</sub>O heat exchanger is manufactured from round, seamless circulation tubes of pure red copper, with pure aluminium fins and two brasscollectors for left or right 1/2" same end connection.
- straight air vent 1/8" and drain cock 1/2" are included.
- mounting on 2 feet on the bottom end of the polyester duct.
- pressure test: 20 bar.
- working pressure: 10 bar.

Heat exchanger electrostatically lacquered with anthracite grey epoxy-polyester RAL 7024, gloss degree 70%.

Manufacturer: Jaga  
Type: Canal Compact

Outputs meet standard EN442.

## 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 for Knockonwood DBE / Strada DBE / Mini DBE / Knockonwood freestanding DBE / Canal Compact DBE elements.
- The normal fitting position for the heating elements is under the window, and to achieve the most aesthetically pleasing appearance the casing should not be wider than the total width of the window.
- The height of the casing has to be a function of the heat loss calculations; aesthetically narrower types are preferable. Types 20 and 21 are more suitable for utility areas.
- When only small outputs are required, the casing can be extended, if necessary, to fill up the total window space
- the minimum space requirement under the heating elements is: for Knockonwood DBE / Strada DBE
  - type 06, 10 en 11:10 cm
  - type 15 en 16:12 cm
  - type 20 en 21:15 cm
- As minimum space between the top of the casing and the extended window sills, the above mentioned dimensions have to be applied.
- The heat exchangers will be connected to a two pipe system, with a same side end connection. The heat exchangers are equipped with 1/2" brass collector, 1/8" air vent and a 1/2" drain cock. The flow valve always has to be fitted to the top connection of the heat exchanger.
- The specially designed thermostatic Jaga-Danfoss / Jaga Comap / Jaga / Jaga type 6 / Jaga-Pro / Jaga-Top valves can be connected to plastic central heating service pipes/ RPE/ALU. tube / copper tube/ steel pipe. KNOW freestanding DBE is only available with Eurocone 3/4 sleeve couplings. The valve body is concealed within the standard casing.
- Jaga Danfoss thermostatic heads white type RA / white type RAX / chrome type RAX/ Jaga thermostatic heads / Jaga Deco thermostatic heads chrome / Jaga Deco thermostatic heads chrome-white / Jaga Comap thermostatic heads silver / remote controlled Jaga thermostatic heads / Jaga Deco thermostatic heads chrome-white with sensor at distance / not / to be fitted.