Mini Canal

Mini-Duct
Pre-mounted duct, in sendzimir galvanized steel plate of 1 mm thick, provided with anthracite grey epoxy-polyester RAL 7024, gloss degree 10%. The well has 6 pre-perforated holes to lead through the tubes. These holes, 2 in the front and 2 in each side are covered with black plugs. Mini Canal with same end connection is provided with 3 pre-perforated holes in the front. The mini duct is also provided with brackets, air conducting compartments and anchoring strips in order to fix the duct in the concrete. The frame is premounted on the Mini-Canal.

K-value = 8 W/m²K
R-value = 0.125 m²K/W

Aluminium frames
Reinforced L-profile, height 31.5 mm x 24 mm width. Versions: anodized aluminium in natural colour / dark brown / black / brass colour / lacquered in a scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200°C. UV resistant due to ASTM G53.
The frame is pre-mounted on the Mini floor duct.
With removable pieces to avoid deformation of the frame during installation or floor construction.

Designo rigid aluminium grilles
Profiled slats placed lengthways (5 x 16 mm) with 8.5 mm space between, mechanically connected with two crossways supporting slats (5 x 27 mm) with maximum 30.5 cm space between.
Free air flow 62.5%.
Versions: anodized aluminium in natural colour / dark brown / black / brass colour / lacquered in a scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200°C. UV resistant due to ASTM G53.

Rigid aluminium grilles
Profiled slats placed lengthways (5 x 16 mm) with 15 mm space between, mechanically connected with two crossways supporting slats (5 x 27 mm) with maximum 30.5 cm space between.
Free air flow 75%.
Versions: anodized aluminium in natural colour / dark brown / black / brass colour / lacquered in a scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200°C. UV resistant due to ASTM G53.

Roll-up aluminium grilles
Crossways positioned aluminium slats (5 x 23 mm) with 11 mm space between. The slats are interconnected by a galvanized steel spring and fixed in the correct distance by aluminium pieces in the same colour.
Free air flow 70%.
Versions: anodized aluminium in natural colour / dark brown / black / brass colour.

Roll-up Designo wooden grilles
Crossways positioned wooden slats (12 x 24.5 mm) with 13 mm space between. The wood slats are interconnected by a galvanized steel spring and fixed in the correct distance by natural coloured aluminium pieces.
Free air flow 52%.
Versions: oak / beech / merbau / oak varnished / beech varnished / merbau varnished.

Roll-up wooden grilles
Crossways positioned wooden slats (12 x 24.5 mm) with 20 mm space between. The wood slats are interconnected by a galvanized steel spring and fixed in the correct distance by dark brown synthetic pieces.
Free air flow 63%.
Versions: oak / beech / merbau / oak varnished / beech varnished / merbau varnished.

Roll-up stainless steel grilles
Roll-up grille in rust proof high-grade steel V2A 1.4301.
Crossways positioned stainless steel slats (8 x 18 mm) with 12 mm space between. The slats are interconnected by a metal spring, with a light grey synthetic cover.
Free air flow 60%
With matching frame in anodized aluminium with a natural colour, including black rubber strip to hide the bottom side of the frame, and to avoid contact noises.

Heat exchanger
The heat exchanger is manufactured from round, seamless circulation tubes of pure red copper, with pure aluminium fins and two brass collectors for left or right 1/2" same end connection. Other end connection 1/2": only for heat exchanger type 04 .
Air vent(s) 1/8" and drain cock(s) 1/2" are included.
Pressure test: 20 bar.
Working pressure: 10 bar.

Colour
- Heat exchanger electrostaticaly lacquered with anthracite grey epoxy-polyester RAL 7024, gloss degree 70%.
- Lacquered frame and rigid grille in the colour... (see colour chart). The coating is a scratch resistant epoxypolyester powder, sprayed electrostatically and baked at a temperature of 200°C. UV resistant due to ASTM G53.

Manufacturer: Jaga
Type: Mini Canal

Outputs meet standard EN442.

Options
- Cover plate: 22 mm thick fibreboard plate.
- Bottom end insulation: in dark grey polyethylene foam, thickness 5 mm
- 3 Sided insulation
- Cover strip: to hide the bottom side of the frame and to avoid contact noises
- Fixing with height control: to adjust the height on uneven and roughcast subfloors.
- Corners: corner 90° / corner 135°. For wooden and aluminium grilles.

How to install

The building services engineer chooses the heating elements considering the following conditions:
- a heat output calculation according to the standard.
- the required heat outputs will be determined by the tables and the fitting instruction of the building services engineer.
- the heat exchanger should be connected to a two pipe system with a same end connection, other end connection (just for type 04).
- the heat exchanger is equipped with two brass collectors for left or right 1/2"same end connection. Air vent 1/8" and drain cock 1/2" are included. In case of same end connection the flow valve always has to be fitted to the top connection.
- in order to totally block off the cold draughts from the window it is preferable that the heat exchanger covers the full length of the window. Concerning the distance in between the window and the Mini Canal allow extra space for curtains, which under no circumstances should hang over the Mini Canal.
  The heat exchanger must always be kept accessible for maintenance purposes.