



CLIMATE DESIGNERS

Mini canal

Mini-Duct

Pre-mounted in the floor-well, in send-zimir galvanized steel plate of 1 mm thick, provided with anthracite grey epoxy-polyester RAL 7024. The well has 6 pre-perforated holes to lead through the hydraulic tubes, 2 in the top and 2 in each side. 2 Black sealing plastic plugs are included. The well is also provided with brackets and anchoring strips in order to fix the well in the concrete. The insert frame is pre-mounted 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 coloured / dark brown / black / brass coloured / 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 insert frame is pre-mounted on the Mini Canal.

With removable pieces to avoid deformation of the frame during installation or floor construction.

Designo rigid aluminium grilles

Profiled slats placed lengthways (7 x 16 mm) with 7 mm space between, mechanically connected with two crossways supporting slats (5 x 27 mm) with maximum 30.5 cm space between.

Free air flow 50 %.

Versions: anodized aluminium in natural coloured / dark brown / black / brass coloured / 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 (7 x 16 mm) with 13 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

/ 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 10 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 coloured / dark brown / black / brass coloured / lacquered in a scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200 °C. UV-resistant due to ASTM G53.

Designo rollable 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: beech / beech 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 1.4301.

Crossways positioned stainless steel slats (8 x 18 mm) with 12 mm space between.

The wood slats are interconnected by a stainless steel spring and fixed in the correct distance by stainless steel synthetic pieces.

Free air flow 60%

With matching insert frame in anodized aluminium with a natural colour, including black rubber strip to hide the bottom side of the insert 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;

For double-sided connection 1/2", only for heat exchanger type 04

Slats fitted into the middle of the well.

Air vents 1/8" and drain cocks 1/2" are included.

Pressure test: 20 bar.

Working pressure: 10 bar.

Colour

> Heat exchanger electrostatically lacquered with anthracite grey epoxy-polyester RAL 7024.

> Lacquered frame and rigid grille in the colour... (see colour chart)

The coating is a scratch resistant epoxy-polyester 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 EN 442.

Options

> Cover plate: 22 mm thick fibreboard plate. Protects the Mini-Canal against contamination and damaging during construction works.

> Soil insulation: in dark grey polyethylene foam, thickness 5 mm

> 3-sided insulation: in dark grey polyethylene foam, thickness 5 mm

> Cover strip: to hide the bottom side of the insert frame and to avoid contact noises

> Fixing with height control: to adjust the height on uneven and roughcast sub- floors.

> Corners: only for rigid aluminium grilles: Corner 90° / Corner 45°.

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.