

Rain trap



✓ Free choice of dimensions

✓ Low pressure loss and reduced flow interference thanks to an innovative separator profile

✓ Architecturally appealing version for flat and slanting roofs

✓ A range of installation options

Product information

DL rain traps in a square design have been developed for a vertical airflow and are mainly used for outgoing air, but are also suitable as an outdoor air unit. Thanks to the various installation options as an on-roof or in-roof version, the DL rain trap represents an architecturally appealing alternative to conventional ventilation structures. It is suitable for flat and sloping roofs and forms the horizontal edge to the duct. To protection against dirt, the upper opening is fitted with a streamlined grille.

The interior slats ensure the lateral drainage of rainwater into the surrounding watertight collector, whereas the innovative separator profile keeps pressure loss and flow

interference low. To enable installation on the roof, the rain separator also comes with a support flange. Connection to the duct is achieved by a profile frame mounted as standard. In order to ensure even distribution of the flow speed between the slats, the maximum flow speeds set out in VDI 3803 1 (Air-conditioning – Structural and technical principles – Central air conditioning systems [VDI Ventilation Code of Practice])

Technical data

Material

Galvanised steel
Aluminium
V2a stainless steel
V4a stainless steel

Pressure rating

Low pressure (-200 Pa/+400 Pa)
Moderate pressure (-500 Pa/+1000 Pa)
High pressure (-750 Pa/+2000 Pa)

Leakage class

ATC1 (D)

Dimensions

Width: min. 200mm/max. on request
Height: min. 200mm/max. on request
Installation height: 800 mm

Recommended air velocity

Outside air < 2 m/s
Exhaust air < 4 m/s in the slat area

Finish

Powder coating as per RAL
Wet painting as per RAL
NCS or DB

Temperature resistance

-20°C to +80°C

Order code legend

Order code

RA-E-D-A-W-A-B-A-O

Roof (D)

FD – for flat roofs
SD – for sloping roofs

Model (A)

AD – on roof
ID – in roof

Material (M)

VZ – galvanised
ALU – aluminium
V2A – stainless steel V2A
V4A – stainless steel V4A
CU – copper

Opening in mm (AxB)

A – width
B – length
Can be freely selected

Connector (A)

AD (on roof) – AF support flange
150mm

ID (in roof) – P40, P30, P20 –
pre-formed profile frame with
corner bracket BFS – attachment
including duct cover

Optional (o)

KO – crane eyelets
BA – walk-in model
ES – frost protection 230 V, behind each slat
P-RAL... – powder coating
L-RAL... – painting
RAL colour of choice

Accessories (o)

Insect protection grille
Roof duct
Inspection plate
Frost protection

Example

Rain separator, galvanised steel, in roof, 1,000 x 1,000, walk-in version with RAL wet coating for flat roofs

Order code

RA-E-FD-ID-VZ-1000-1000-P40-BA-L-RAL