Description:

Centrifugal roof fan with backward curved impeller and horizontal discharge. Housing made of weather-resistant aluminum AlMg3 with very low construction height. The air outlet is protected by a protection grille against intrusion, birds and other foreign objects. Baseplate of galvanized steel sheet with deep drawn air inlet and preassembled screws for the possibility of connecting pipe flanges and accessories according to DIN 24154 / EN 12 220. The fan has been conceived for easy mounting on roof socket (optional accessory) without the necessity of removing the housing.

The impeller with backward curved blades is fitted on the external rotor of an energy saving, high efficiency EC-motor and together balanced according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. The drive motor is equipped, for maintenance-free use, with ball bearings with lifetime lubrication, sealed on both sides. The motor protection is provided by a thermal contact integrated into the winding, permanently monitored by the motor electronic. The electrical connection is to be done via the cable lead out through the housing base plate. The motor is controllable using a 0-10V signal (e.g. potentiometer or CO2 Sensor). The lockable device switch is integrated into the housing and therefore well protected.

CE marking according to EC Declaration of Conformity for Electromagnetic Compatibility EMC - Directive 2004/108/EC. EC - Declaration of Incorporation according to the Machinery Directive 2006/42/EC - Directive 2009/125/EC (Reg.

1253/2014/EU).

Technical data:

Volumetric flow (V): m³/h Pressure increase (Δpfa): Pa Efficiency static max. (ηfa): 58,3 % Efficiency total max. (ηt): 59,3 %

Rated voltage (U): 230, 1~ V Rated frequency (f): 50 Hz Rated power consumption (PN): 511 W Current consumption max. (Imax.): 2,4 A Rated speed (n): 1420 min-1

Protection class motor: 54 IP Protection class terminal box: 44 IP Ambient temperature max. (tA): 50 °C Medium temperature max. (tM): 50 °C

Inlet sound power level (LWA5): 71 dB(A) Outlet sound power level (LWA6): 75 dB(A)

Dimensions (L x W x H): 860x860x418 mm

Weight: 20,2 kg

Wiring diagram: 131918

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

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| Available accessories:  DSF 450-10 | 126193 | Roof socket, flat roof size 450 |
| DSF 450-12 up to 19 |  | Sloped roof socket, size 450, slope optional in 3° increments (3-24°) |
| DSS 450-10 | 126461 | Roof socket, flat roof, sound insulated, size 450 |
| DSS 450-12 up to 19 |  | Sloped roof sound insulated socket, size 450, |
|  |  | slope optional in 3° increments (3-24°) |
| DAP 450 | 133976 | Roof adapter plate size 450 for suction side accessories (for DSS-10) |
| DVK 400 10 | 152897 | Roof - Gravity shutter size 400 |
| DAS 400 | 109827 | Roof - Inlet spigot size 400 |
| DAF 400 | 109826 | Roof - Inlet flange size 400 |
| MTP 20 | 128146 | Potentiometer 0-10V, stepless |
| MTP 30 | 143289 | Stepped potentiometer, 0-10V, 3 steps |
| MTP 40 | 147359 | Potentiometer for connection in terminal box, sales unit 20 pcs. |
| CON P1000 | 115259 | Constant pressure control with day-night switch function |
| CLIMASET01 | 111314 | Accessories set for CON P1000, pressure hose, nipples and screws |
| SEN AIR | 148641 | Airflow and temperature transducer |
| SEN CO2 | 126586 | CO2 Sensor, for variable air volume control (e.g. in meeting rooms) |