Description:

Centrifugal roof fan with backward curved impeller and vertical discharge. Housing made of weather-resistant aluminium AlMg3. The air outlet is protected by a protection grille against intrusion, birds, dirt 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. Swing-out fan unit for cleaning and maintenance purposes. Suited for use according to VDI 2052. The incorporated grease pan and drain avoid roof soiling and ensure a controlled drainage of fat impregnated impurities.

The backward curved strong impeller is mounted on the shaft of an energy saving internal rotor EC motor. The impeller is dynamically balanced according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. Via the integrated EC controller it is possible to continuously adjust the speed of the motor using a 0-10 V signal. The motor is located outside the air stream and as such optimally protected against soiling. The motor protection is provided by integrated thermal monitoring of the motor electronic.

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 (Δp fa): Pa Efficiency static max. (η fa): 50,8 % Efficiency total max. (ηt): 52,4 %

Rated voltage (U): 230, 1~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 662 W Current consumption max. (I max.): 3,1 A Rated speed (n): 3998 min-1

Protection class motor: IP 54

Protection class terminal box: IP - Ambient temperature max. (t A): 40 °C Medium temperature max. (tM): 120 °C

Inlet sound power level (L WA5): 80 dB(A) Outlet sound power level (LWA6): 85 dB(A)

Dimensions housing (L x W x H): 514x514x482 mm

Weight: 20,0 kg

Wiring diagram: 145542

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

97944 Boxberg

Tel. 07930-9211300 [www.ruck.eu](http://www.ruck.eu/)

|  |  |  |
| --- | --- | --- |
| Available accessories:DSF 220-10 | 126170 | Roof socket, flat roof, size 220 |
| DSF 220-12 up to 19 |  | Sloped roof socket, size 220, slope optional in 3° increments (3-24°) |
| DSS 220-10 | 126356 | Roof socket, flat roof sound insulated, size 220 |
| DSS 220-12 up to 19 |  | Sloped roof sound insulated socket, size 220, |
|  |  | slope optional in 3° increments (3-24°) |
| DAP 220 | 133946 | Roof adapter plate size 220 |
| DVK 180 10 | 153000 | Roof - Gravity shutter size 180 |
| DAS 180 F4 | 145422 | Roof - Inlet spigot size 180 |
| DAF 150 | 110735 | Roof - Inlet flange size 150 |
| DAF 160 | 137396 | Roof - Inlet flange size 160 |
| DAF 180 | 110744 | Roof - Inlet flange size 180 |
| TEM 035 | 103502 | 5-step transformer box with connection for motor protection, IP54 |
| TEM 035G | 111580 | 5-step trafo box with connection for motor protection and gas valve, IP54 |
| TES 035 | 103954 | 7-step transformer without motor protection, for switch cabinet, IP20 |
| MTP 20 | 128146 | Potentiometer 0-10V, stepless |
| MTP 30 | 143289 | Stepped potentiometer, +10Vdc, step 1+2 adjustable, step 3 100% Vdc |
| MTP 40 | 147359 | Potentiometer for connection in terminal box, sales unit 20 pcs. |
| CON P1000 | 115259 | Constant pressure control with day-night switch function |
| CLIMASET 01 | 111314 | Accessories set for CON P1000, pressure hose, nipples and screws |
| SEN P1000 | 126080 | Differential pressure sensor |
| SEN AIR | 148641 | Airflow and temperature transducer |