Type: DVNI 450 D4 30

Item number: 145041

Description:

Centrifugal roof fan with backward curved impeller and vertical discharge. Housing made of weather-resistant aluminium AlMg3, with 40mm mineral wool insulation. 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 efficiency-optimized radial impeller with backward curved blades is fitted on the shaft of an IEC three phase motor with a special shaft seal that prevents the ingress of oil and water. The impeller is provided with a Taperlock clamping bush which ensures improved balancing quality and higher operational stability. The impeller is balanced together with the motor according to the quality class G 6.3 of DIN / ISO 1940, on 2 planes. Speed control possible only via frequency converter. The drive motor is placed outside of the airstream. For maintenance-free use, there are ball bearings with lifetime lubrication, sealed on both sides. The motor thermal protection must be installed on site (monitoring of the thermal motor current via a FU or motor protection switch). The electrical connection is to be done via the integrated isolator switch.

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): 56,4 % Efficiency total max. (ηt): 57,2 %

Rated voltage (U): 400, 3~ V Rated frequency (f): 50 Hz Rated power consumption (P N): 901 W Current consumption max. (I max.): 2,3 A Rated speed (n): 1470 min-1

Protection class motor: IP 55

Protection class terminal box: IP - Ambient temperature max. (t A): 50 °C Medium temperature max. (tM): 120 °C

Inlet sound power level (L WA5): 76 dB(A) Outlet sound power level (LWA6): 77 dB(A)

Dimensions (L x W x H): 984x984x776 mm

Weight: 103,4 kg

Wiring diagram: 143654

Manufacturer:

ruck Ventilatoren GmbH Max-Planck-Str. 5

97944 Boxberg

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

Type: DVNI 450 D4 30

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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 |
| DVK 400 10 | 152897 | Roof - Gravity shutter size 400 |
| DAS 400 F4 | 150093 | Roof - Inlet spigot size 400 |
| DAF 400 | 109826 | Roof - Inlet flange size 400 |
| MS 02 | 140409 | Motor protection switch with device switch function |
| FU 15 09 | 141843 | Frequency controller, output voltage 0-230V, 3~, 1500W, IP20 |
| FU 15 12 | 141854 | Frequency controller, output voltage 0-230V, 3~, 1500W, IP66 |
| FU 15 15 | 141865 | Frequency controller, output voltage 0-400V, 3~, 1500W, IP20 |
| FU 15 18 | 141876 | Frequency controller, output voltage 0-400V, 3~, 1500W, IP66 |
| 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 |
| CLIMASET01 | 111314 | Accessories set for CON P1000, pressure hose, nipples and screws |
| SEN AIR | 148641 | Airflow and temperature transducer |