

CENTRIFUGAL ROOF FANS - UPBLAST

Our centrifugal roof exhaust fan features an upper exhaust design with a backward centrifugal aluminium impeller. The fan's circular arc venturi tube ensures smooth airflow, and the impeller is meticulously balanced to meet international standards (ISO 1940G2.5). The robust aluminium alloy construction of both the fan casing and impeller provides exceptional durability and resistance to corrosion.

The fan's motor is carefully matched to its load, offering reliable performance and energy efficiency. The motor is strategically placed outside the airflow to prevent dust and grease buildup, ensuring long-lasting operation. The motor is rated IP44 for protection against water and solid objects, and it has a B insulation class and ball bearings for added durability.

The fan cover and outer housing are made of thick aluminium plating, providing superior strength and protection against harsh weather conditions. The design prevents water leakage, even in heavy rain or snow. The drive mechanism support plate is made of galvanised steel for corrosion resistance and structural support, ensuring the smooth operation of the drive components without excessive vibration.

The flashing and air inlet are integrated to prevent water seepage, and the flashing has mounting holes for secure attachment to the roof flashing structure. A sturdy anti-bird grill made of cold-drawn iron wire protects the fan outlet from obstructions.

Fan Performance and Testing

The fan's performance parameters are tested in accordance with Air Movement and Control Association Standards 210 and 310. These tests are conducted on the entire fan to ensure accurate performance data.

Applications:

Our belt-driven centrifugal roof exhaust fan is ideally suited for installation on the roofs of industrial and mining plants, civil buildings, shopping malls, and other venues where efficient air extraction and exhaust are required.



Transmission Medium Requirements:

The fan is designed to handle air or other non-corrosive, non-flammable, and non-explosive gases. The transmission medium should not contain excessive dust or particles, as this may shorten the impeller's lifespan. The maximum allowable particle content is 150 mg/m³.

Transmission Medium Temperature:

For standard structures, the transmission medium temperature should not exceed 80°C.

SPECIFICATIONS

Model No	Size mm	Motor kW	Voltage/Hz	RPM	Airflow		Static Pressure Pa	Airflow @ Zero Static Pressure		dBa	Weight kg
					m ³ /h	L/s		m ³ /h	L/s		
RFCU-280-370	280	0.37	415V/50Hz	1900	1984	551	277	2450	680	66	47
RFCU-315-550	315	0.55	415V/50Hz	1650	2454	681	264	2850	791	55	55
RFCU-400-11	400	1.1	415V/50Hz	1400	4263	1184	306	5300	1472		67
RFCU-450-22	450	2.2	415V/50Hz	1450	6286	1746	416	7600	2111		88
RFCU-500-3	500	3	415V/50Hz	1520	7735	2148	682	11,960	3322	78	95
RFCU-560-3	560	3	415V/50Hz	1250	8937	2482	579	12,642	3511		
RFCU-630-22	630	2.2	415V/50Hz	930	9467	2629	405	14,165	3934		
RFCU-800-55	800	5.5	415V/50Hz	860	17,926	4979	559	26,500	7361		



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