



Application

Intended for installation on the roof of the building. The engine is in a separate compartment. The fans have motors with IP55 protection, adapted to continuous operation and speed regulation. 1-phase motors - voltage regulation, 3-phase motors - frequency converter regulation. Additional information in the table below. Permissible temperature of the pumped medium from -25OC to +60OC. Permissible ambient temperature up to +40OC. Other temperature ranges available on request.

Construction

The fan housing is made of steel sheet painted with polyester using the oven method. Aluminum or painted steel impeller. Bottom disc with inlet - hot-dip galvanized. Single or three-phase asynchronous motor. In the case of high-speed fans (2800 rpm), it is recommended to control them with a frequency converter (SX, SXE). Diameters of inlets (roof bases) from f140 to f400 mm. Rufino SP - with a radial impeller are characterized by high resistance to mechanical contamination.

Technical data:

Type	Efficiency MAX [m3/h]	Efficiency nominal [m3/h]	Pressure nominal [Pa]	Input power [kW]	Highest speed [obr./min]	Rated Current **		Noise* [dB(A)]	Weight [kg]
						1x230V [A]	3x400V [A]		
RUFINO SP-18	1620	1200	380	0,37	2800	2,3	0,9	69	21
RUFINO SP-20 A	2200	1500	100	0,18	900	-	0,72	58	27
RUFINO SP-20 B	2500	1500	350	0,25	1400	1,8	0,71	67	26
RUFINO SP-20 C	3800	3000	800	2,2	2800	-	4,6	84	39
RUFINO SP-25 A	2950	1500	340	0,25	1400	1,8	0,71	67	24
RUFINO SP-25 B	3750	2500	260	0,55	1400	4,2	1,5	69	26
RUFINO SP-25 C	7800	5000	1150	3	2800	-	6	90	60
RUFINO SP-25 D	5200	4000	360	1,1	1400	-	2,7	81	58
RUFINO SP-31 A	2250	1500	110	0,18	900	-	0,6	56	31
RUFINO SP-31 B	4150	3000	300	0,55	1400	4,2	1,50	76	31
RUFINO SP-31 C	8200	5000	1150	3	2800	-	6	99	61
RUFINO SP-31 D	4900	2700	400	0,75	1400	4,9	1,9	72	44
RUFINO SP-35 A	8350	6000	500	1,1	1400	-	3,4	78	59
RUFINO SP-35 B	16210	9470	1440	7,5	2800	-	13,7	99	110
RUFINO SP-40 A	7500	5470	960	3	1400	-	6,5	78	80
RUFINO SP-40 B	11800	8200	300	1,5	900	-	3,8	71	97
RUFINO SP-40 C	16400	12000	470	4	1400	-	8,1	85	111

**Guide values, may change the application depending on the motor used
Rated currents are given on the rating plate and in the operating instructions.

*Measurement at a distance of 4m

Dimensions:

Type	Dimensions				
	ØD	ØD1	ØA	B	n x Ød
	[mm]	[mm]	[mm]	[mm]	[mm]
RUFINO SP-18	180	205	440	520	4x7
RUFINO SP-20	200	225	630	600	4x9,5
RUFINO SP-25	250	275	630	600	4x9,5
RUFINO SP-25D,C	250	275	730	600	4x9,5
RUFINO SP-31	315	352	630	600	8x9,5
RUFINO SP-35	355	392	730	750	8x9,5
RUFINO SP-40A	400	438	820	950	8x9,5
RUFINO SP-40B,C	400	438	920	950	8x9,5

Information:

1-phase motors (230V) with the use of voltage regulation can be regulated in the range of up to 30% of the nominal value of rotational speed (e.g. for a 1400 rpm motor, the minimum rotational speed will be about 1000 rpm). Over-adjustment may damage the engine. The obtained speed regulation range depends on the fan load. The set rotational speed with voltage regulation may not be constant and may vary with the fan load.

3-phase motors (400V or 3x230V) using frequency control (frequency converter) can be regulated within the range of up to 60% (20Hz to 50Hz) of the nominal rotational speed (e.g. for a 1400 rpm engine, the minimum rotational speed will be approximately 670 rpm). Regulation in a wider range is available on request after using a special motor. The preset rotational speed when controlled with an inverter is constant and does not change with the fan load.



