

- Roof fans EC motor
- Vertical discharge
- Motor in air stream
- IP54



Roof exhaust units type RFIS-EC

Acoustic insulated roof unit with vertical exhaust

Application

- These roof unit is used for air exhaust of apartments buildings, offices, hotels,...
- Used where low noise and energetic consumption is required

Composition

- Outer casing made of aluminum type AW1050, rigidity H14/24 with meshwork grille and security switch
- Impeller with backward inclined blades made of plastic balanced G6.3 DIN ISO 1940
- High efficient EC motor with low energy consumption
- Supply: 230Vac 1ph or 400Vac 3ph
- External rotor motor with overheat protection and free maintenance ball bearings.
- Insulation class F and protection class IP54
- Noise levels to DIN 45 635 and ISO 3744

Accessories

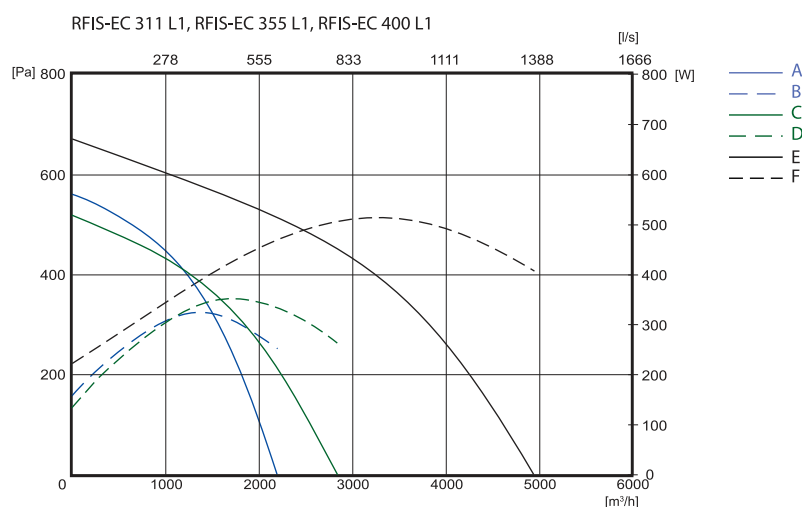
- Roof curb, type **RC-I**
- Acoustic roof curb, type **RAC-I**
- Matching flange, type **RIF**
- Flexible connector, type **RFC**
- Back draught shutter, type **RAS**
- Potentiometer, type **MTP010**
- 3-speed operation switch 0-10V, **MSS-D**

Order example

- **RFIS-EC CP 400**
RFIS-EC= type
CP= constant pressure
400= size

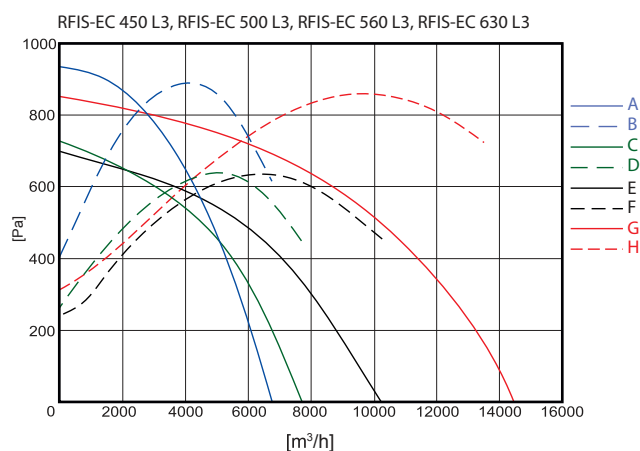
	Air performance data									
	Q [m³/h]									
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	700Pa
RFIS-EC 311	2100	2000	1900	1800	1690	1550	1230	600	-	-
RFIS-EC 355	2650	2570	2390	2290	2090	1880	1370	280	-	-
RFIS-EC 400	4770	4620	4450	4260	4100	3870	3350	2600	1200	-
RFIS-EC 450	6600	6410	6250	6070	5900	5700	5320	4860	4320	3620
RFIS-EC 500	7460	7230	7000	6720	6450	6170	5500	4520	3100	390
RFIS-EC 560	9860	9480	9200	8800	8500	8100	7180	5960	3850	-
RFIS-EC 630	14200	13900	13900	13200	12800	12500	11500	10400	8900	6500

Selection curves



A = Performance RFIS-EC 311 L1
 B = Power consumption RFIS-EC 311 L1
 C = Performance RFIS-EC 355 L1
 D = Power consumption RFIS-EC 355 L1
 E = Performance RFIS-EC 400 L1
 F = Power consumption RFIS-EC 400 L1

Selection curves

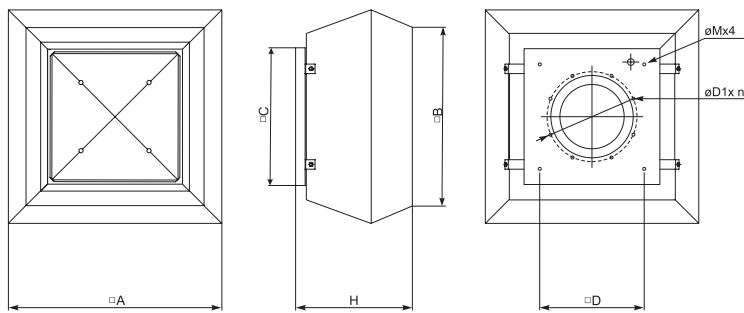


A = Performance RFIS-EC 450 L3
 B = Power consumption RFIS-EC 450 L3
 C = Performance RFIS-EC 500 L3
 D = Power consumption RFIS-EC 500 L3
 E = Performance RFIS-EC 560 L3
 F = Power consumption RFIS-EC 560 L3
 G = Performance RFIS-EC 630 L3
 H = Power consumption RFIS-EC 630 L3

Technical data										Lwa [dB(A)]		
	U [V]	P [W]	I [A]	SCp	ηtot %	tm [°C]	ta [°C]	n [rpm]		Lwa 5	Lwa 6	Lwa 2
RFIS-EC 311	230	323	1.51	MTP010	43	60	60	2270		74	74	65
RFIS-EC 355	230	350	1.61	MTP010	53	60	60	2010		74	74	65
RFIS-EC 400	230	772	3.50	MTP010	49	60	60	1700		78	77	69
RFIS-EC 450	400	1418	2.22	MTP010	50	60	60	1800		82	84	74
RFIS-EC 500	400	1280	2.02	MTP010	50	60	60	1400		78	79	70
RFIS-EC 560	400	1595	2.51	MTP010	52	40	40	1230		77	77	69
RFIS-EC 630	400	2870	4.42	MTP010	52	60	60	1230		81	82	73

Roof fans

SCp= Potentiometer
 η_{tot} = Total efficiency
 t_m = Max air temperature
 t_a = Max ambient temperature
 Lwa 2= Breakout sound power
 Lwa 5= Sound power inlet
 Lwa 6= Sound power outlet



	Dimensions								
	A [mm]	B [mm]	C [mm]	H [mm]	ØM [mm]	D [mm]	ØD1 [mm]	n	Kg
RFIS-EC 311	675	567	435	370	M6	330	285	6	24
RFIS-EC 355	844	716	595	420	M10	450	438	6	38
RFIS-EC 400	844	716	595	420	M10	450	438	6	38
RFIS-EC 450	966	817	665	488	M10	535	438	6	60
RFIS-EC 500	966	817	665	488	M10	535	438	6	60
RFIS-EC 560	1265	1033	939	611	M10	750	605	8	100
RFIS-EC 630	1265	1033	939	611	M10	750	605	8	121