SUVT-R-FE

400 ºC/2h belt driven extraction fan units with highly robust backward curved impeller and high-efficiency electrostatic filters

Extraction fan units with high-efficiency electrostatic filters, F400 certification, equipped with a backward curved impeller and belt driven, acoustically insulated, with the option of adding an activated carbon filter stage. Suitable for commercial kitchen hoods where the removal of grease particles and odours is required.

Characteristics:
- Self-cleaning backward curved impeller.
- 25 mm rockwool insulation in panels.
- Maintenance inspection door.
- Access panels for filter removal for maintenance.
- Grease-collection tray.
- Integrated connection box.
- High efficiency (95% ePM1) 230 V (+-7.5%) 50 Hz electrostatic filter.
- Approved in accordance with standard EN 12101-3, to work outside the fire zone.

Fan:
- Very robust double inlet backward curved impeller.
- Maximum temperature of air to be carried: S1 continuous operation +5 ºC +75 ºC. S2 operation: 400 ºC/2h.

Filtration stages:
- G2 washable filter: Retains large grease particles.
- Electrostatic filter: Removes medium and small ionized grease particles.
- Activated carbon filter (optional): Removes low concentrations of odour particles.

Motor:
- Class F motors with ball bearings and IP55 protection.
- IE3 efficiency motors.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 ºC +50 ºC.

Finish:
- Structure in aluminum profiles and pre-lacquered outer sheet.

On request:
- Particle sensor for automatic control.
- Possibility of adapting the transmission assembly to the left or right.
- Special windings for different voltages and frequencies.

KF-CONTROL:
- Motor speed control by manual selection or by optional external sensors (SP-PM2.5+VOC).
- Integrated control system compatible with MODBUS RTU.
- Built-in temperature sensor.
- Filters condition check.
- WiFi.

Filter characteristics

ELECTROSTATIC FILTER			**ePM1**		
	95%		**90%**	**80%**	**70%**
Filtration class EN 779	-	-	F9	F8	F7
Air speed (m/s)	1	2	2.5	3	4
Air flow capacity (%)	40	50	65	75	100
Pressure drop (Pa)	10	17	24	37	64

Technical characteristics

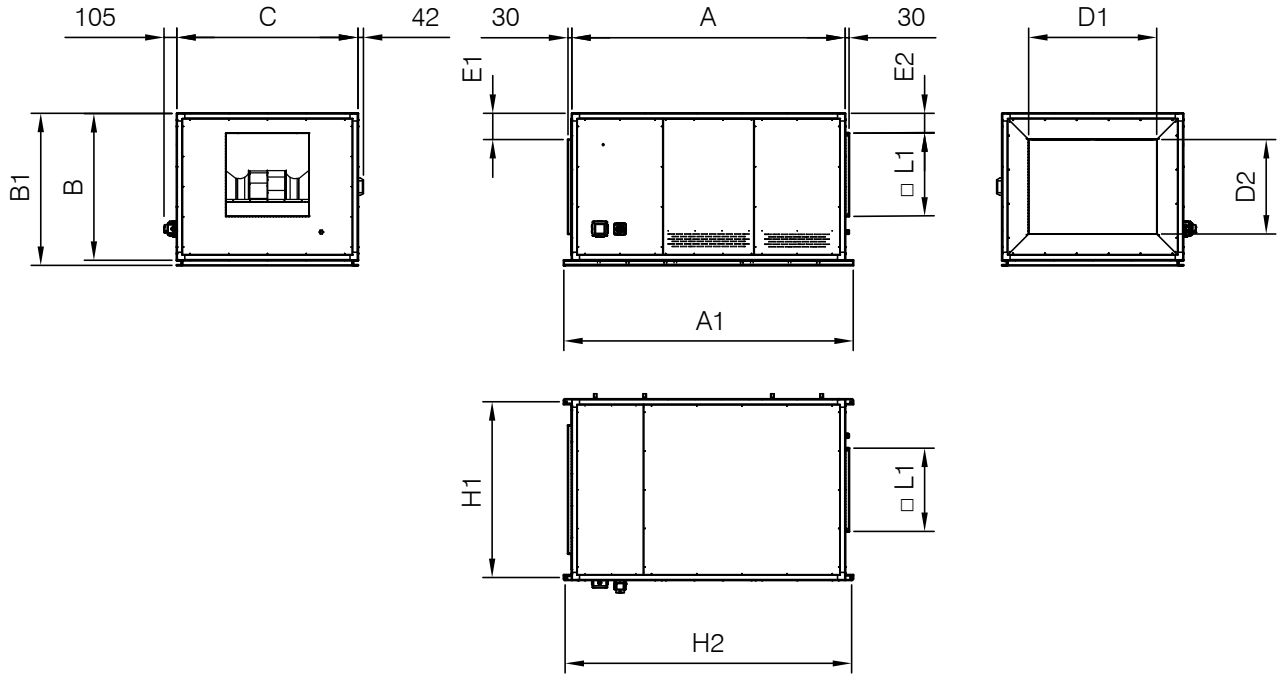
Model	Speed	Maximum admissible current (A)			Installed power	Maximum filter flow rate[1]	Maximum flow rate (m^3/h)		Sound pressure level[2] dB(A)	Approx. weight (Kg)	
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	FE	FE + FCA	Inlet	FE	FE + FCA
SUVT-R-FE-450-1 IE3	950	2.82	1.62		0.75	5000	7740	6735	70	535	540
SUVT-R-FE-450-1.5 IE3	1105	4.07	2.34		1.10	5000	9165	8110	73	535	540
SUVT-R-FE-450-2 IE3	1220	5.41	3.11		1.50	5000	10250	9170	75	540	545
SUVT-R-FE-450-3 IE3	1435	7.93	4.56		2.20	5000	12235	11115	79	550	555
SUVT-R-FE-500-1.5 IE3	910	4.07	2.34		1.10	7500	10665	9405	72	685	690
SUVT-R-FE-500-2 IE3	1030	5.41	3.11		1.50	7500	12195	10905	75	685	690
SUVT-R-FE-500-3 IE3	1195	7.93	4.56		2.20	7500	14330	13000	78	695	700
SUVT-R-FE-500-4 IE3	1280	10.70	6.15		3.00	7500	15405	14055	79	700	705
SUVT-R-FE-630-3 IE3	805	7.93	4.56		2.20	15000	19550	17900	68	760	765
SUVT-R-FE-630-4 IE3	915	10.70	6.15		3.00	15000	22390	20720	71	765	770
SUVT-R-FE-630-5.5 IE3	1025	13.90	8.00		4.00	15000	25205	23520	73	770	775
SUVT-R-FE-630-7.5 IE3	1115		10.30	5.97	5.50	15000	27410	25715	75	785	790

1. Maximum flow rate at 100% of the efficiency of the filters.
2. Sound pressure level in dB(A) at a distance of 3 m and at maximum flow rate.

Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SISTEVEN website or the Selector programme.

Dimensions mm

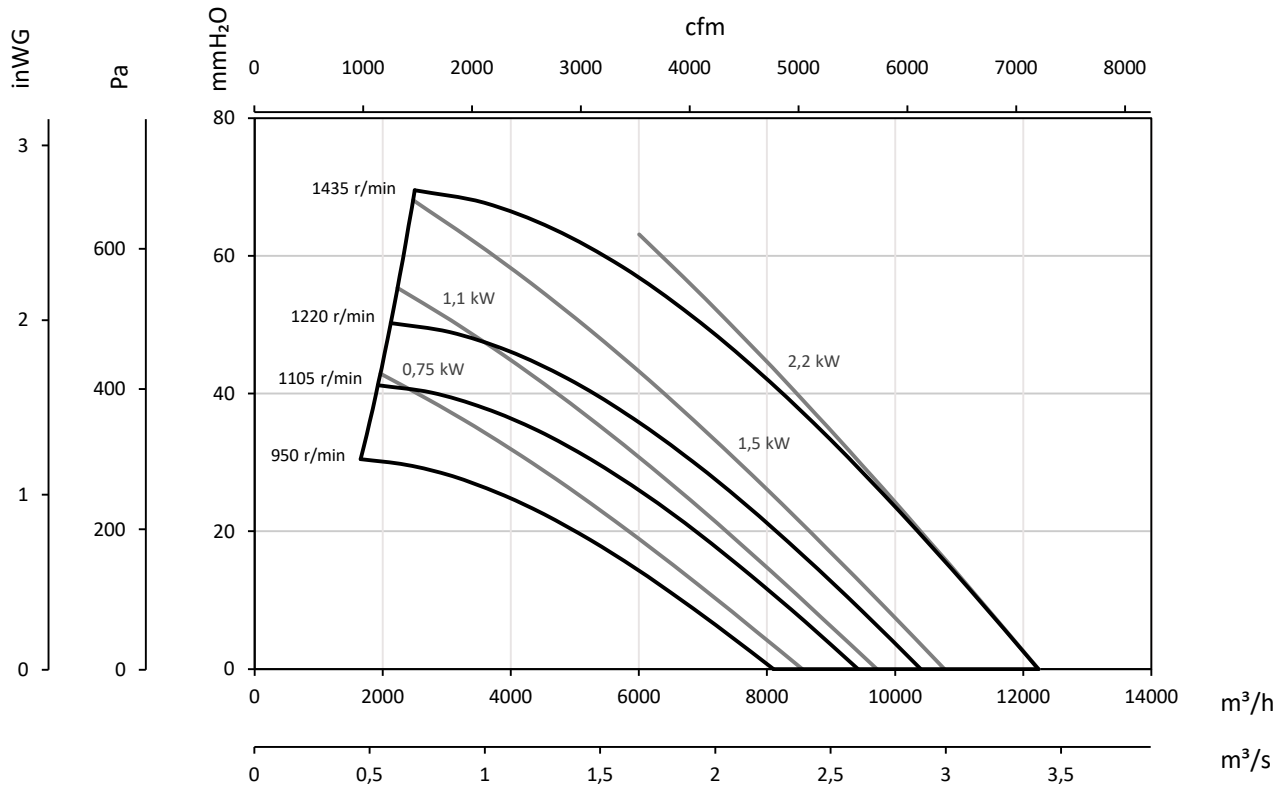


	A	A1	B	B1	C	D1	D2	E1	E2	H1	H2	L1
SUVT-R-FE-450	1882	2002	951	991	1392	1067.4	629	83.8	161	1352	1969	571.2
SUVT-R-FE-500	2104	2224	1129	1169	1392	1067.4	807	152.4	161	1352	2191	641.2
SUVT-R-FE-630	2221	2341	1461	1501	1831	1506.4	1139	240.4	161	1791	2308	801.2

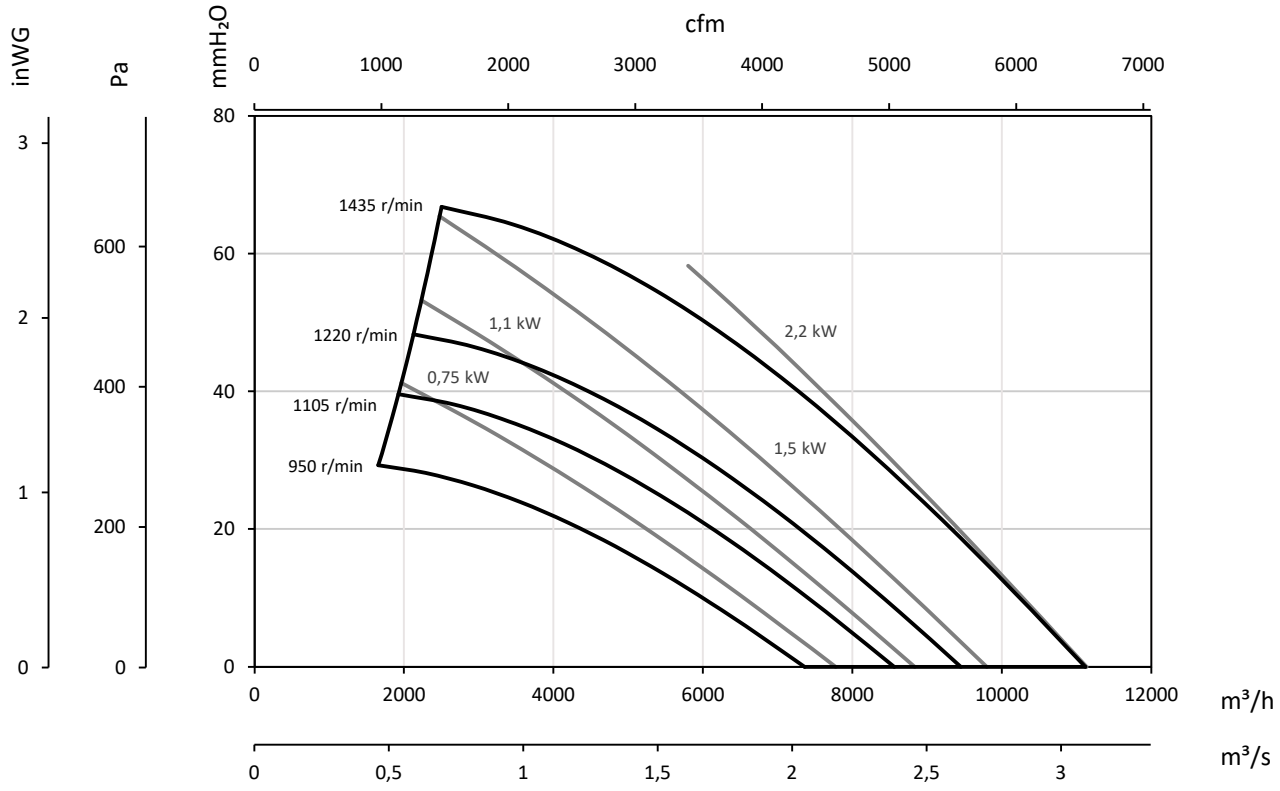
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

SUVT-R-FE-450



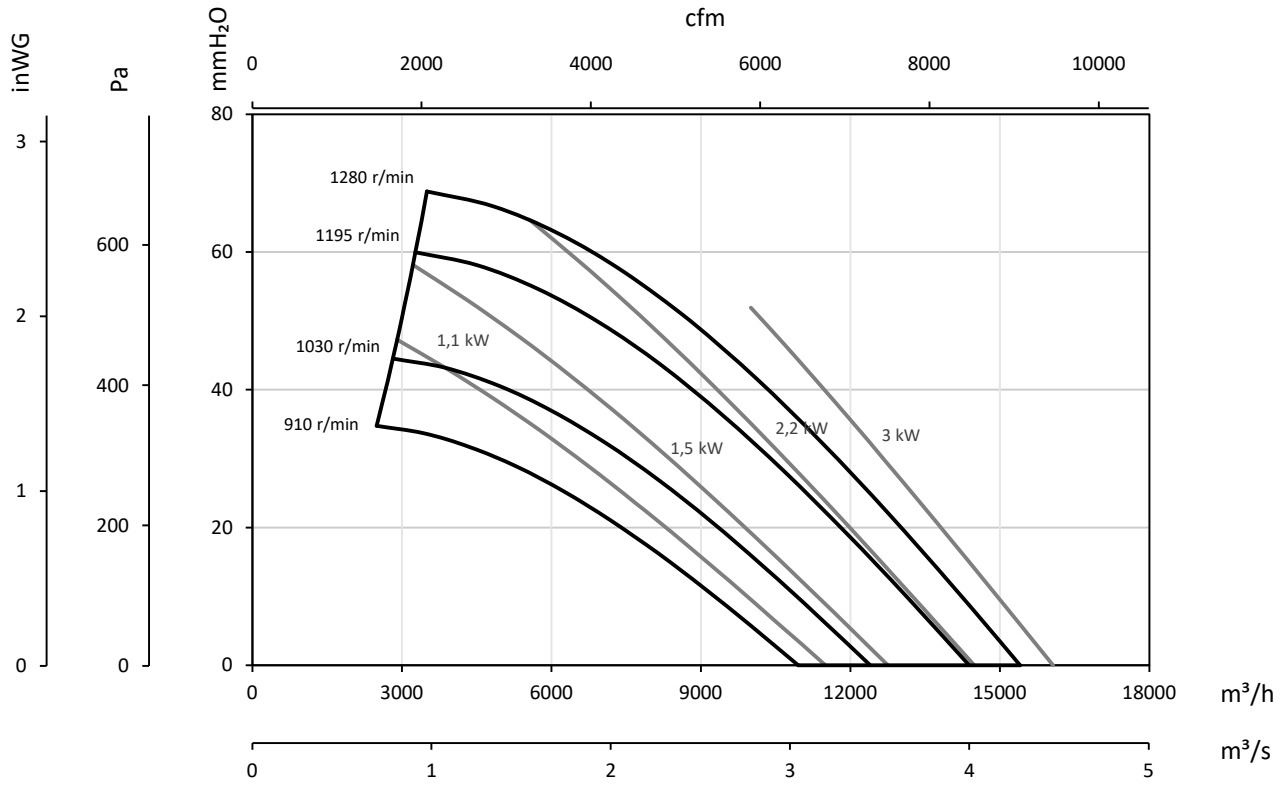
SUVT-R-FE-450-FCA



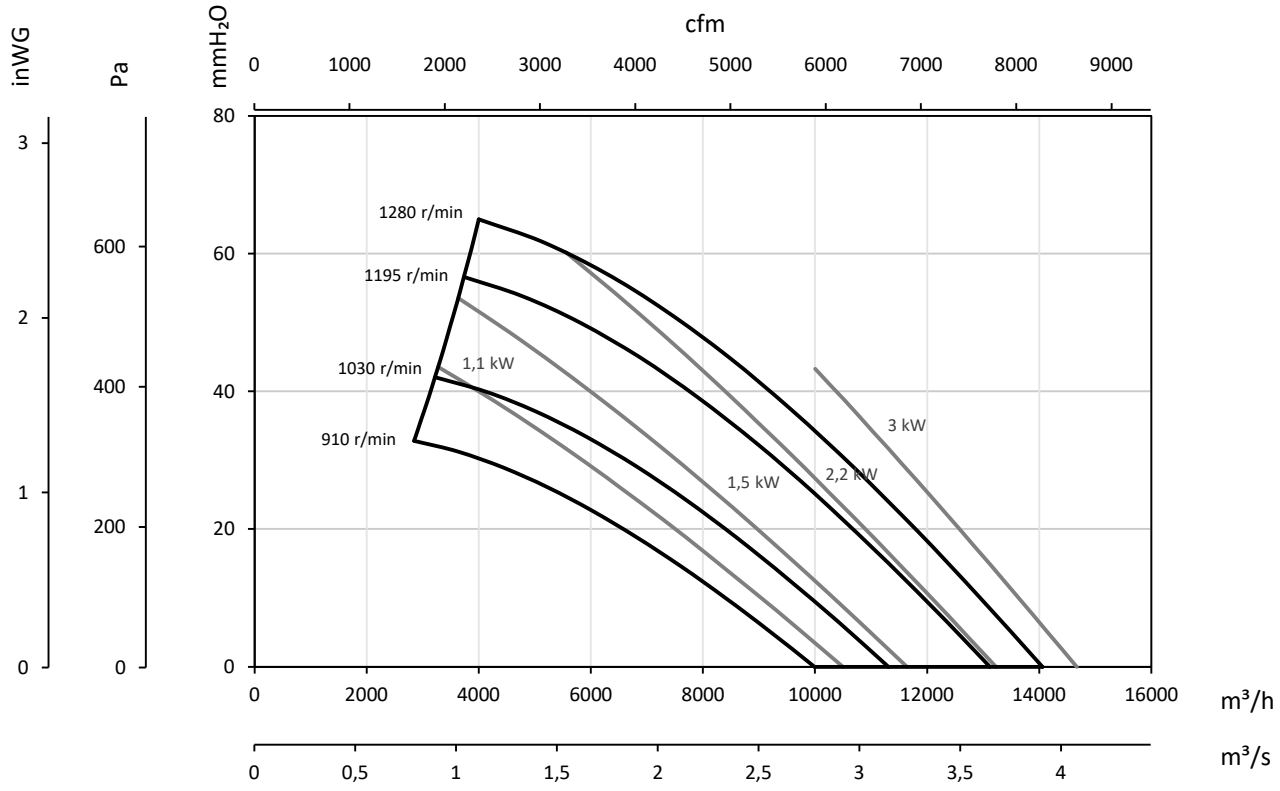
Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

SUVT-R-FE-500



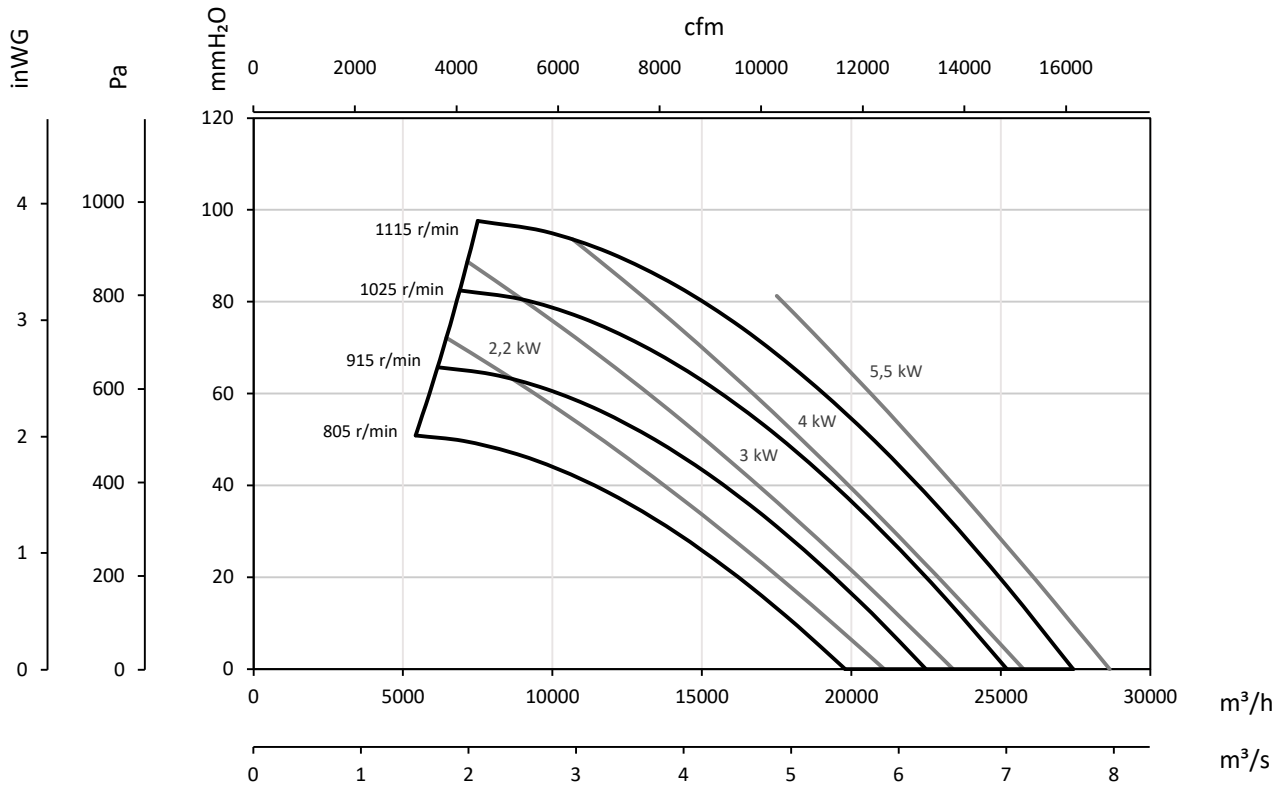
SUVT-R-FE-500-FCA



Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

SUVT-R-FE-630



SUVT-R-FE-630-FCA