CRF/EW/CPC

Centrifugal roof fans, automatic operation, low noise level, EC Technology motor and constant pressure control

Centrifugal roof mounted extract fans with low noise levels and external rotor motor, fitted with an EC Technology motor.

Fan:
- Galvanized steel sheet construction.
- Backward curved impeller made of plastic material.
- Bird protection grid.
- Folding body for ease of inspection and maintenance.

Motor:
- High efficiency EC Technology motors, outer rotor adjustable via 0-10 V signal. IP54 protection.
- Single-phase 230 V 50/60 Hz and three-phase 400 V 50/60 Hz.
- Maximum temperature of air to be carried: -25 ºC +50 ºC.

EC CONTROL:Supplied as an optional accessory. Control panel for ventilation systems with EC Technology motors with the electronics integrated in the motor itself. With the following characteristics:
- CPC: Constant pressure control.
- CFC: Constant flow control.
- DAY/NIGHT: Double pressure setpoint adjustment according to time of day.
- External sensor: compatible with temperature, humidity, air quality or CO sensor.
- Equipment preconfigured in constant pressure mode with 100 Pa set point.

Finish:
- Anti-corrosive in galvanized steel sheet.

Order code

CRF/EW	—	***315***	—	***M***	—	***/L***	—	***/CPC***
CRF/EW: Centrifugal roof fans, automatic operation, low noise level and EC Technology motor		Impeller diameter in mm		M = Single-phase T = Three-phase		L: Low flow rate M: Medium flow rate H: High flow rate		Automatic constant pressure regulation control

Technical characteristics

Model	Max. speed	Maximum admissible current (A)		Max. electric power	Maximum flow rate	NPS at maximum speed dB (A)*		Approx. weight	According ErP
	(r/min)	230V	400V	(kW)	(m³/h)	Inlet	Exhaust	(Kg)	
CRF/EW-190-M/CPC	3570	1.01		0.127	718	42	45	10	2018
CRF/EW-250-M/CPC	2850	1.35		0.180	1553	44	47	12	2018
CRF/EW-315-M/L/CPC	1920	1.35		0.175	2223	35	38	16	2018
CRF/EW-315-M/H/CPC	2377	2.00		0.450	2597	49	52	18	2018
CRF/EW-400-M/M/CPC	1550	2.00		0.460	3811	45	48	27	2018
CRF/EW-400-M/H/CPC	1700	4.70		0.750	5202	49	52	28	2018
CRF/EW-400-T/CPC	2000		1.68	0.950	5573	51	58	29	2018
CRF/EW-500-M/CPC	1200	4.80		0.720	6831	43	49	48	2018
CRF/EW-500-T/L/CPC	1250		2.00	1.150	7401	48	54	50	2018

* The noise level values are pressures in dB(A) measured at a distance of 6 metres and at 2/3 of the maximum flow rate (2/3 Qmax).

Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Acoustic characteristics

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

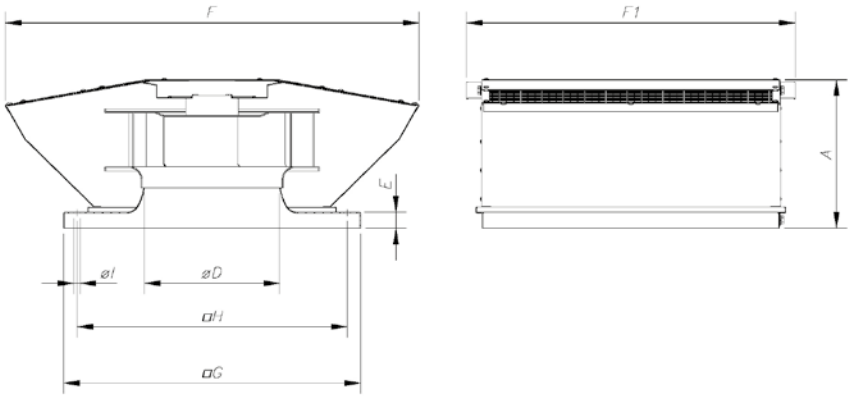
Values measured at inlet with 2/3 maximum flow rate (2/3 Qmax).

	63	125	250	500	1000	2000	4000	8000
190-M	28	45	51	58	60	61	57	52
250-M	34	49	55	60	62	61	59	50
315-M/L	29	51	48	53	53	51	47	40
315-M/H	46	61	63	66	65	66	61	55
400-M/M	46	60	57	63	61	59	54	57
400-M/H	39	63	62	68	65	63	58	60
400-T	40	53	65	71	68	68	63	63
500-M	41	55	56	60	62	61	57	50
500-T/L	45	57	60	65	65	65	62	56

Values measured at exhaust with 2/3 maximum flow rate (2/3 Qmax).

	63	125	250	500	1000	2000	4000	8000
190-M	31	48	54	61	63	64	60	55
250-M	37	52	58	63	65	64	62	53
315-M/L	32	54	51	56	56	54	50	43
315-M/H	49	64	66	69	68	69	64	58
400-M/M	49	63	60	66	64	62	57	60
400-M/H	42	66	65	71	68	66	61	63
400-T	45	56	68	73	78	76	70	66
500-M	43	56	59	67	69	65	59	53
500-T/L	46	59	63	71	75	69	65	59

Dimensions mm



	A	ØD*	E	F	F1	G	H	øI
CRF/EW/CPC-190	185	124	30	477	420	355	305	12
CRF/EW/CPC-250	190	165	30	518	465	400	350	12
CRF/EW/CPC-315	277	204	30	701	515	450	400	12
CRF/EW/CPC-400	365	257	30	850	622	560	510	12
CRF/EW/CPC-500	426	321	30	1137	775	710	660	12

* Recommended nominal tube diameter

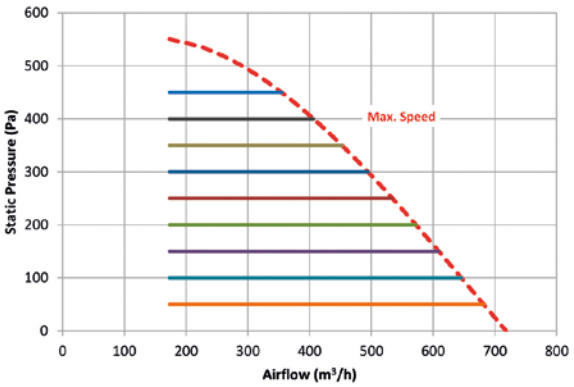
Accessories

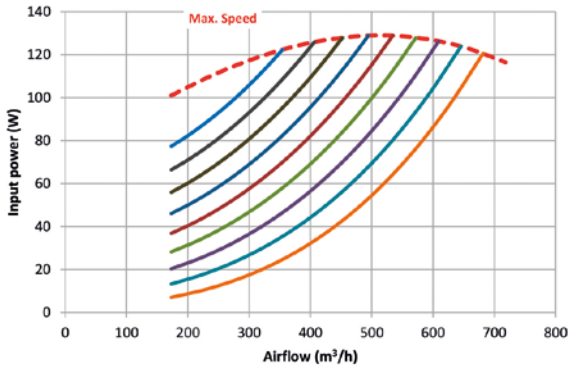
INT | RM | PA | MS | PT | SI-CO2 IND | SI-TEMP IND | SI-TEMP+HUMEDAD | SI-HUMEDAD | SI-MF | SI-PRESIÓN

Characteristic curves

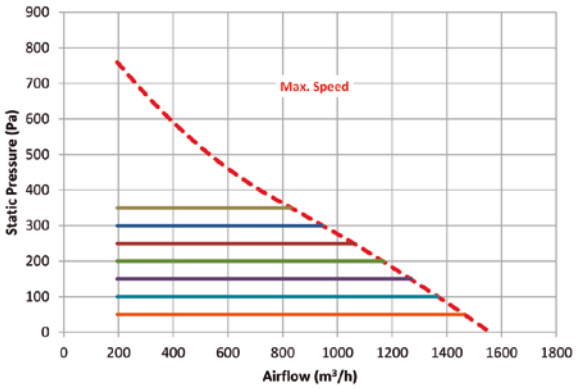
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

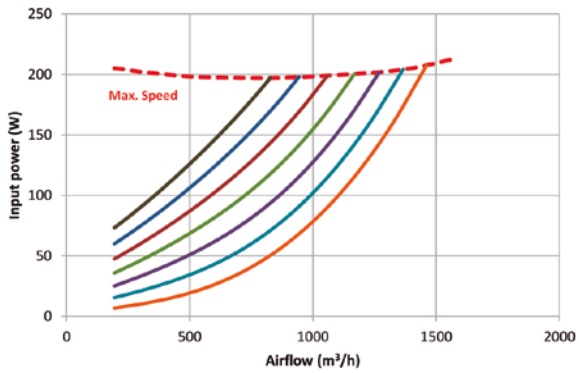
CRF/EW-190-M/CPC





CRF/EW-250-M/CPC





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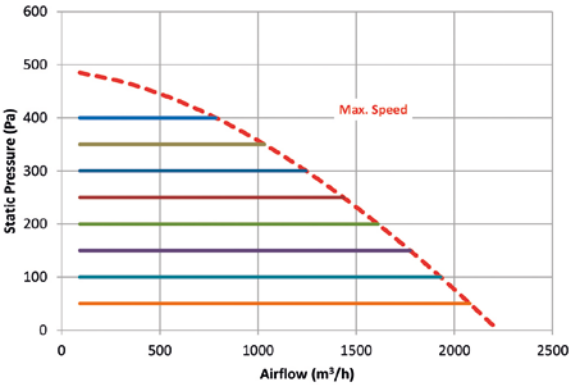
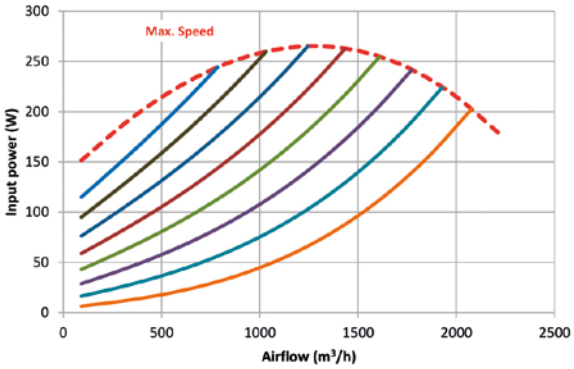
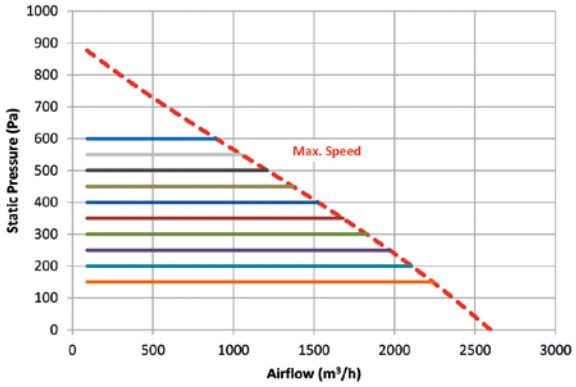
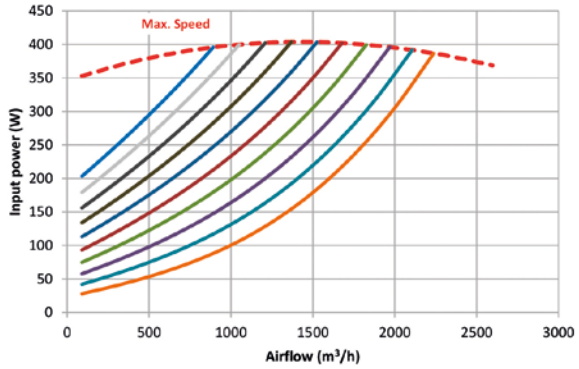




CRF/EW-315-M/H/CPC

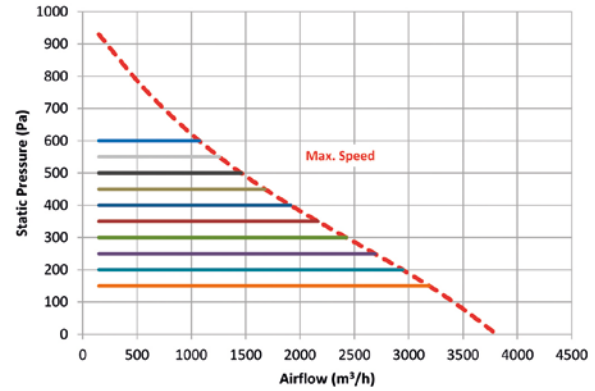


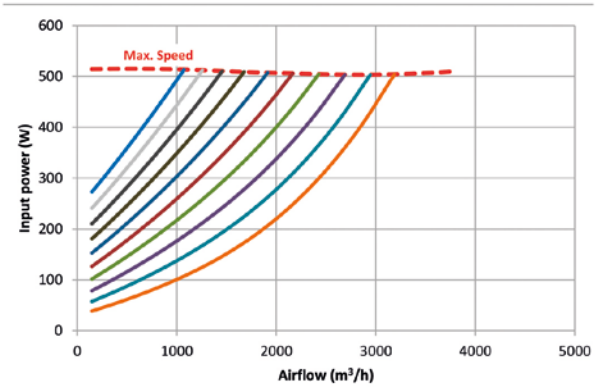


Characteristic curves

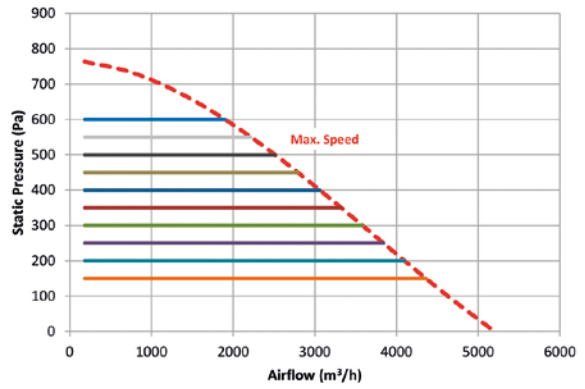
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

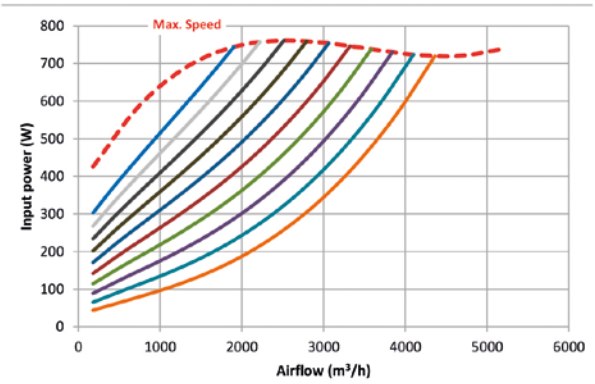
CRF/EW-400-M/M/CPC



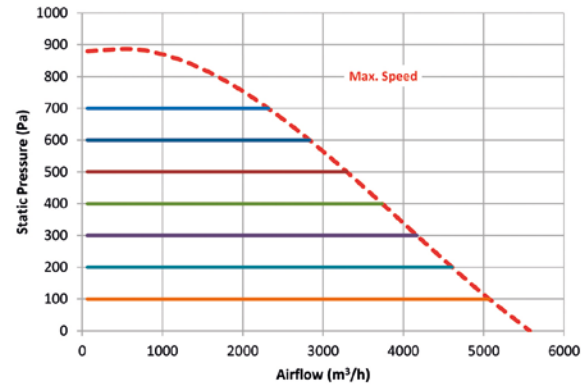


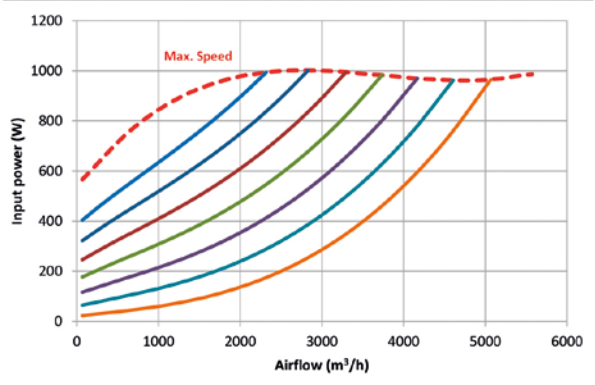
CRF/EW-400-M/H/CPC



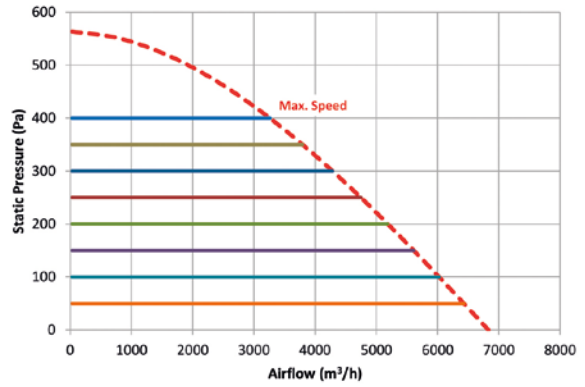


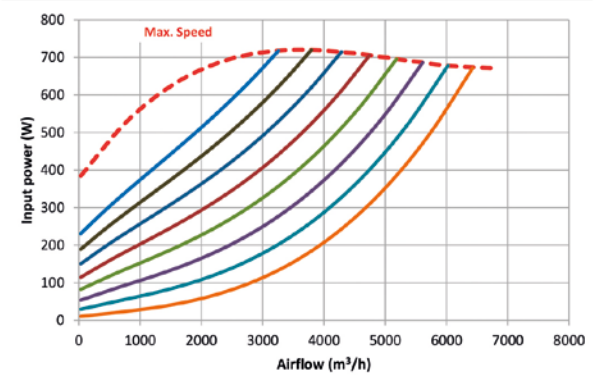
CRF/EW-400-T/CPC





CRF/EW-500-M/CPC





Characteristic curves

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

CRF/EW-500-T-L/CPC