CRF

Roof-mounted centrifugal extractor fans, with low noise level

Centrifugal roof-mounted extractor fans with low noise level and external rotor motor.

Fan:
- Made of galvanised sheet steel.
- Impeller with reaction blades built of aluminium sheet metal except for models 225 and 250, which are made of galvanised sheet steel.
- Bird control grille.
- Folding body for ease of inspection and maintenance.

Motor:
- Class F motors, external rotor and IP54 protection.
- Single-phase 230V-50/60Hz, except 450 and 500 230V 60Hz.
- Multi voltage motor, special design valid for 220/380V 60Hz, 254/440V 60Hz, 265/460V 60Hz, 277/480V 60Hz
- Maximum temperature of air to be carried: -25°C + 50 °C.

Finish:
- Anti-corrosive finished galvanised sheet steel.

On request:
- The variable speed drive (VSD) is supplied on request.

Order code

CRF — 240 — 4T — 60Hz

- CRF: Centrifugal roof-mounted extractor fans with low noise level and external rotor.
- Impeller diameter in mm
- Number of motor poles
  M: Single-phase
  T: Three-phase

Technical characteristics

60Hz

Model	Speed	Maximum current current (A)		Maximum electric power	Maximum flow rate	Sound pressure level dB(A)(1)		Weight	Recommended VSD
	(r/min)	220-277V	380-480V	(kW)	(m^3/h)	Intake	Discharge	(kg)	
CRF-225-4M	1704	0.20		0.04	650	32.55	38.85	11	VSD1/M-0.5
CRF-250-4M	1728	0.31		0.06	950	33.60	39.90	12	VSD1/M-0.5
CRF-250-4T	1740		0.28	0.06	950	33.60	39.90	12	VSD3/A-RFT-1
CRF-315-4M	1680	0.60		0.14	2000	40.95	47.25	17	VSD1/M-0.5
CRF-315-4T	1716		0.35	0.14	2000	40.95	47.25	17	VSD3/A-RFT-1
CRF-315-6M	1128	0.38		0.08	1280	29.40	35.70	17	VSD1/M-0.5
CRF-315-6T	1080		0.20	0.07	1280	29.40	35.70	17	VSD3/A-RFT-1
CRF-355-4M	1680	0.75		0.17	2500	45.15	50.40	24	VSD1/M-0.5
CRF-355-4T	1680		0.45	0.18	2500	45.15	50.40	24	VSD3/A-RFT-1
CRF-355-6M	1116	0.46		0.10	1800	32.55	39.90	24	VSD1/M-0.5
CRF-355-6T	1140		0.32	0.10	1800	32.55	39.90	24	VSD3/A-RFT-1
CRF-400-4M	1620	1.20		0.26	2810	48.30	54.60	28	VSD1/M-0.5
CRF-400-4T	1656		0.60	0.27	2810	48.30	54.60	28	VSD3/A-RFT-1
CRF-400-6M	1128	0.72		0.14	2400	36.75	43.05	28	VSD1/M-0.5
CRF-400-6T	1080		0.40	0.15	2400	36.75	43.05	28	VSD3/A-RFT-1
CRF-450-4M	Available soon								
CRF-450-4T	Available soon								
CRF-450-6M	Available soon								
CRF-450-6T	Available soon								
CRF-500-4T	Available soon								
CRF-500-6M	Available soon								
CRF-500-6T	Available soon								

(1) 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).

Acoustic characteristics

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

Values taken during intake with 2/3 maximum flow rate (2/3Qmax).

Model	63	125	250	500	1000	2000	4000	8000
225	29	35	46	49	50	46	44	38
250	30	36	47	50	51	47	45	39
315-4	40	49	54	54	58	57	50	44
315-6	29	38	43	43	47	46	39	33
355-4	44	53	58	58	62	61	54	48
355-6	32	41	46	46	50	49	42	36
400-4	48	54	60	60	63	66	57	51
400-6	37	43	49	49	52	55	46	40

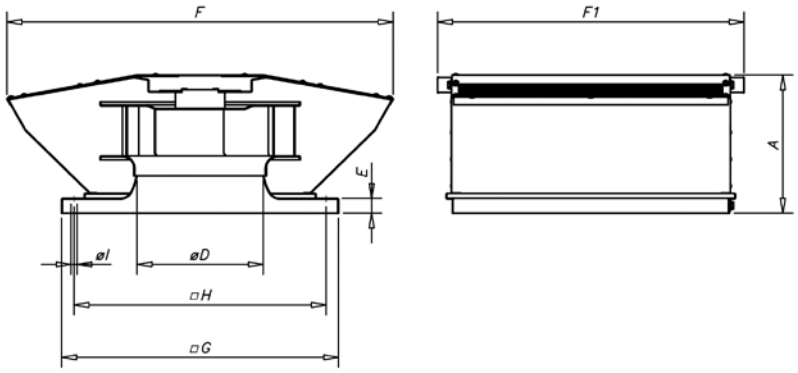
Values taken during discharge with 2/3 maximum flow rate (2/3Qmax).

Model	63	125	250	500	1000	2000	4000	8000
225	33	38	52	54	55	55	50	45
250	34	39	53	55	56	56	51	46
315-4	39	48	58	62	65	62	55	49
315-6	28	37	47	51	54	51	44	38
355-4	42	51	61	65	68	65	58	52
355-6	32	41	51	55	58	55	48	42
400-4	47	59	67	69	70	70	62	54
400-6	36	48	56	58	59	59	51	43

To obtain the Lwa noise power spectra in dB(A) in intake at maximum flow rate (Qmax), add the values set out in the following chart to the LpA sound pressure level given in the characteristic curves:

Frequency band (Hz)							
63	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
2	9	15	15	18	18	11	5

Dimensions mm



Model	A	ØD*	E	F	F1	G	H	øI
CRF-225	185	200	30	475	420	355	305	12
CRF-250	185	250	30	515	460	400	350	12
CRF-315	265	250	30	690	510	450	400	12
CRF-355	280	355	30	780	620	560	510	12
CRF-400	280	355	30	780	620	560	510	12

(*) Recommended pipe nominal diameter

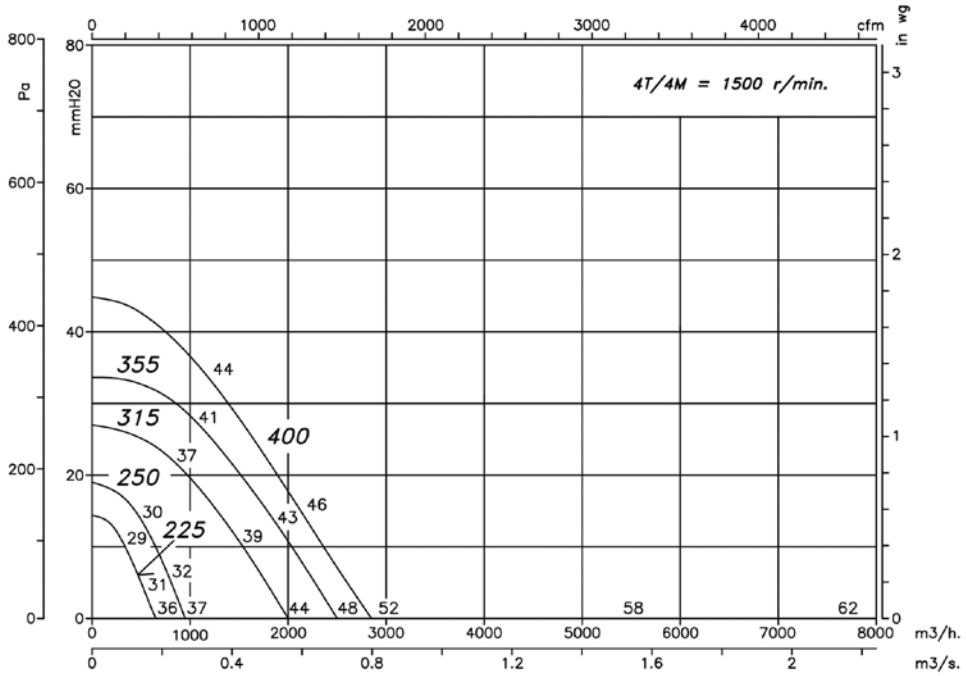
Accessories

INT RM VSD3/A-RFT VSD1/A-RFM VSD3/A-RFT CUADROS PA MS PT SI

Characteristic curves

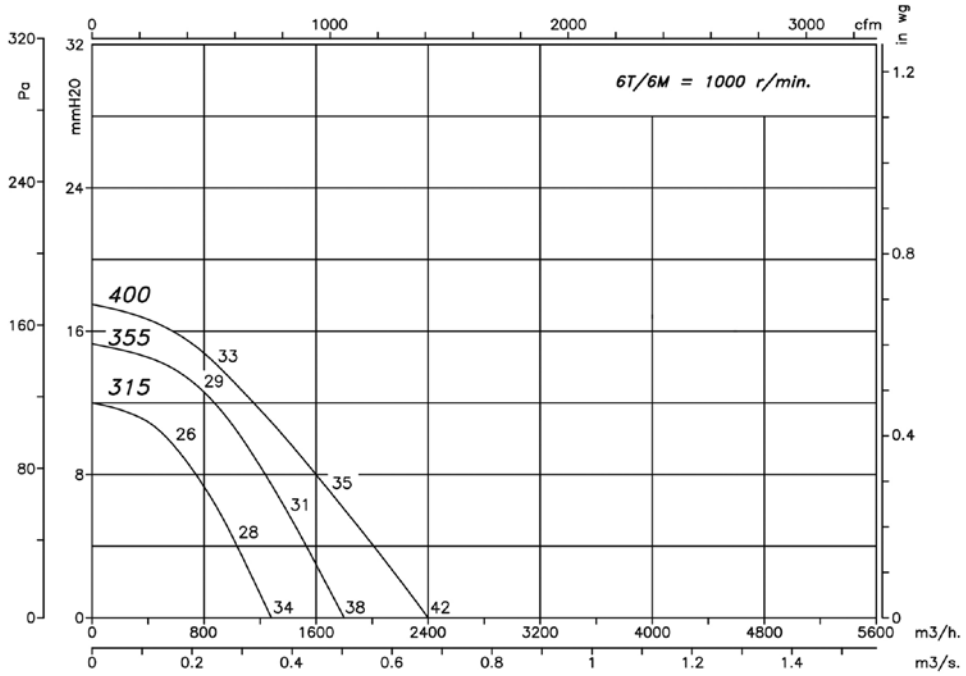
Q= Flow rate in m^3/h, m^3/s and cfm. Pe= Static pressure in mm H_2O, Pa and inwg.

4T/4M=1500 r/min



The Lp noise levels (dB(A)) indicated in the curves are pressures measured in a free field during intake, at 6 metres.

6T/6M=1000 r/min



The Lp noise levels (dB(A)) indicated in the curves are pressures measured in a free field during intake, at 6 metres.