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Air-Conditioning & Ventilation Components & Systems

# RFH RFV

CENTRIFUGAL ROOF  
FANS 400°C/2h



According  
EU Regulation



# RFH RFV

## 400°C/2h centrifugal roof fans with horizontal or vertical outlet air



RFH: 400°C/2h centrifugal roof fans with horizontal outlet air, hood in aluminium  
RFV: 400°C/2h centrifugal roof fans with vertical outlet air, hood in aluminium



**Fan:**

- Galvanised sheet steel base plate.
- Impeller with backward-curved blades made from galvanised sheet steel
- Bird guard
- Aluminium rain deflector hood
- Approval according to Standard EN 12101-3:2002/AC:2006

- Single-phase 230V.-50Hz., and three-phase 230/400V.-50Hz.
- Max. air temperature to transport: -25°C.+ 120°C.

**Finish:**

- Anticorrosive galvanized sheet steel and aluminium

**Motor:**

- IE2 efficiency motors for capacities equal to or over 0.75kW and below 7.5kW, except single-phase, 2 speed and 8 poles motors.
- Class F motors, with bearings, IP55 protection.

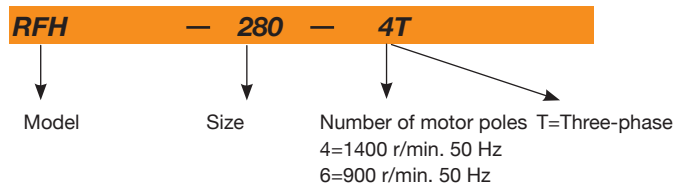
**On request:**

- Special windings for different voltages
- ATEX certification, Category 3



Air-Conditioning & Ventilation Components & Systems

**Order code**



**Technical characteristics**

Model	Speed (r/min)	Maximum current (A)		Installed power (kW)	Maximum airflow (m³/h)	Sound pressure level dB(A)		Weight approx. (Kg)
		230V	400V			Inlet	Outlet	
RFH RFV 280-4T	1350	1.66	0.96	0.25	1450	37	43	25
RFH RFV 280-4M	1380	0.65		0.25	1450	37	43	25
RFH RFV 315-4T	1350	1.66	0.96	0.25	2100	41	47	25
RFH RFV 315-4M	1380	0.95		0.25	2100	41	47	25
RFH RFV 315-6T	900	1.51	0.87	0.25	1400	30	36	25
RFH RFV 315-6M	890	0.50		0.25	1400	30	36	25
RFH RFV 355-4T	1350	1.66	0.96	0.25	3100	45	50	32
RFH RFV 355-4M	1380	1.35		0.25	3100	45	50	32
RFH RFV 355-6T	900	1.51	0.87	0.25	2000	33	40	33
RFH RFV 355-6M	890	0.65		0.25	2000	33	40	33
RFH RFV 400-4T	1380	2.92	1.69	0.55	4950	48	54	35
RFH RFV 400-4M	1380	3.30		0.55	4950	48	54	35
RFH RFV 400-6T	900	2.24	1.30	0.37	3200	37	43	35
RFH RFV 400-6M	910	0.95		0.37	3200	37	43	35
RFH RFV 450-4T	1410	3.10	1.79	0.75	7000	55	61	52
RFH RFV 450-4M	1380	4.40		0.75	7000	55	61	52
RFH RFV 450-6T	900	2.24	1.30	0.37	4500	44	50	51
RFH RFV 450-6M	910	1.80		0.37	4500	44	50	51
RFH RFV 500-4T	1430	5.96	3.44	1.50	10200	59	64	60
RFH RFV 500-6T	900	2.24	1.30	0.37	6900	47	54	53
RFH RFV 500-6M	910	2.00		0.37	6900	47	54	53
RFH RFV 630-6T	945	4.88	2.82	1.10	12000	51	57	95
RFH RFV 630-8T	695	3.53	2.04	0.55	8900	44	50	95
RFH RFV 710-6T	955	9.30	5.30	2.20	17300	54	61	118
RFH RFV 710-8T	705	5.63	3.25	1.10	12900	46	53	102
RFH RFV 800-6T	960	16.50	9.46	4.00	24700	58	64	160
RFH RFV 800-8T	705	7.10	4.10	1.50	18400	50	57	142



**Erp. BEP (best efficiency point) characteristics**

<b>MC</b>	Measurement category	<b>ηe[%]</b>	Efficiency
<b>EC</b>	Efficiency category	<b>N</b>	Efficiency grade
<b>S</b>	Static	<b>[kW]</b>	Electric power
<b>T</b>	Total	<b>[m³/h]</b>	Airflow
<b>VSD</b>	Variable-speed drive	<b>[mmH<sub>2</sub>O]</b>	Static or total pressure (According to EC)
<b>SR</b>	Specific ratio	<b>[RPM]</b>	Speed

Model	MC	EC	VSD	SR	ηe[%]	N	(kW)	(m³/h)	(mmH <sub>2</sub> O)	(RPM)
280-4T	-	-	-	-	-	-	0.099	855	17.36	1462
280-4M	-	-	-	-	-	-	0.114	888	18.71	1467
315-4T	C	S	NO	1.00	41.2%	59.9	0.169	1205	21.26	1430
315-4M	C	S	NO	1.00	42.0%	60.1	0.189	1257	23.15	1442
315-6T	-	-	-	-	-	-	0.054	826	10.00	981
315-6M	-	-	-	-	-	-	0.068	875	11.21	986
355-4T	C	S	NO	1.00	45.0%	61.1	0.292	1788	26.99	1359
355-4M	C	S	NO	1.00	43.5%	59.3	0.315	1813	27.75	1377
355-6T	-	-	-	-	-	-	0.106	1262	13.44	959
355-6M	C	S	NO	1.00	40.6%	60.1	0.138	1344	15.26	971
400-4T	C	S	NO	1.00	50.4%	63.3	0.588	2652	41.02	1381
400-4M	C	S	NO	1.00	48.1%	60.6	0.653	2705	42.67	1408
400-6T	C	S	NO	1.00	43.4%	61.4	0.192	1689	18.09	956
400-6M	C	S	NO	1.00	45.5%	62.9	0.219	1792	20.35	963
450-4T	C	S	NO	1.00	60.8%	72.4	0.788	4472	39.34	1411
450-4M	C	S	NO	1.00	48.3%	59.1	0.942	4343	38.48	1419
450-6T	C	S	NO	1.00	48.9%	64.6	0.319	3148	18.20	926
450-6M	C	S	NO	1.00	51.3%	66.4	0.363	3338	20.46	933
500-4T	C	S	NO	1.01	60.6%	67.9	2.018	7176	62.55	1440
500-6T	C	S	NO	1.00	54.1%	66.5	0.667	4779	27.75	959
500-6M	C	S	NO	1.00	47.6%	59.1	0.796	4854	28.63	925
630-6T	C	S	NO	1.00	62.9%	72.5	1.238	6832	41.88	923
630-8T	C	S	NO	1.00	47.1%	59.4	0.674	5027	23.21	695
710-6T	C	S	NO	1.01	59.4%	66.1	2.282	9457	52.64	956
710-8T	C	S	NO	1.00	53.0%	63.2	1.060	7052	29.27	713
800-6T	C	S	NO	1.01	63.0%	67.3	3.879	14310	62.66	968
800-8T	C	S	NO	1.00	58.0%	66.3	1.629	10429	33.28	706

Best efficiency point data of the motor-impeller unit

**Acoustic features**

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at a distance of 6 m.

**Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.**

Values taken at the inlet with 2/3 of the maximum airflow (2/3Qmax).

Modelo	63	125	250	500	1000	2000	4000	8000
280-4	35	41	52	55	56	52	50	44
315-4	42	51	56	56	60	59	52	46
315-6	31	40	45	45	49	48	41	35
355-4	46	55	60	60	64	63	56	50
355-6	34	43	48	48	52	51	44	38
400-4	50	56	62	62	65	68	59	53
400-6	39	45	51	51	54	57	48	42
450-4	57	63	69	69	72	75	66	60
450-6	46	52	58	58	61	64	55	49
500-4	62	69	74	74	78	77	70	65
500-6	50	57	62	62	66	65	58	53
630-6	54	60	65	66	70	69	62	55
630-8	47	53	58	59	63	62	55	48
710-6	57	63	68	69	73	72	65	58
710-8	49	55	60	61	65	64	57	50
800-6	61	67	72	73	77	76	69	62
800-8	53	59	64	65	69	68	61	54

Values taken at outlet with 2/3 of the maximum airflow (2/3Qmax).

Modelo	63	125	250	500	1000	2000	4000	8000
280-4	39	44	58	60	61	61	56	51
315-4	41	50	60	64	67	64	57	51
315-6	30	39	49	53	56	53	46	40
355-4	44	53	63	67	70	67	60	54
355-6	34	43	53	57	60	57	50	44
400-4	49	61	69	71	72	72	64	56
400-6	38	50	58	60	61	61	53	45
450-4	56	68	76	78	79	79	71	63
450-6	45	57	65	67	68	68	60	52
500-4	60	72	80	82	83	80	73	65
500-6	50	62	70	72	73	70	63	55
630-6	50	64	72	76	75	72	66	60
630-8	43	57	65	69	68	65	59	53
710-6	54	68	76	80	79	76	70	64
710-8	46	60	68	72	71	68	62	56
800-6	57	71	79	83	72	79	73	67
800-8	50	64	72	76	72	72	66	60

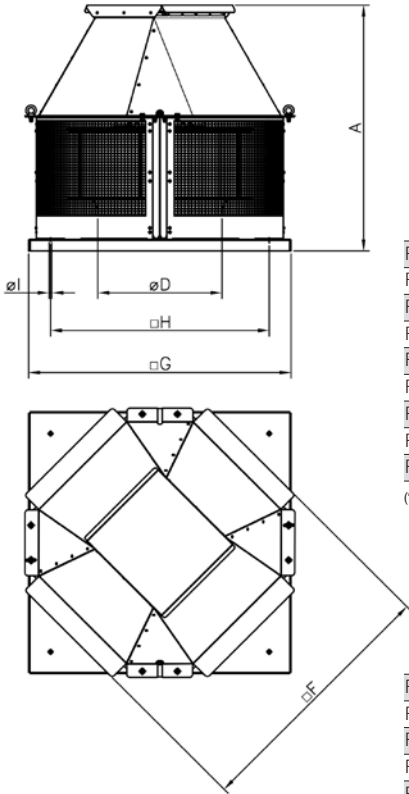
To obtain the Lwa sound power spectra in dB(A) at the inlet with the maximum airflow (Qmax), add the values in the following tables to the LpA sound pressure level given on the characteristic curves:

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



Dimensions in mm

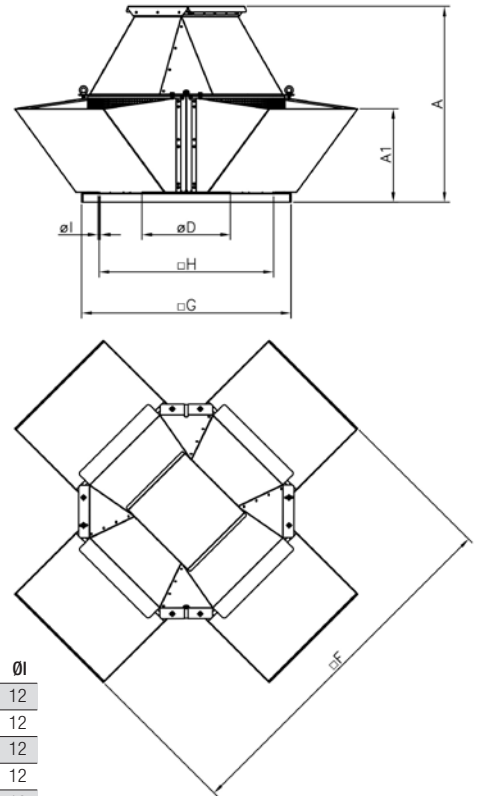
RFH



	A	ØD*	F	G	H	Øl
RFH-280	515	250	460	450	360	12
RFH-315	540	250	460	450	360	12
RFH-355	610	355	565	560	450	12
RFH-400	665	355	565	560	450	12
RFH-450	740	500	735	710	590	12
RFH-500	755	500	735	710	590	12
RFH-630	845	630	890	900	750	14
RFH-710	995	710	1110	1100	900	14
RFH-800	1065	710	1110	1100	900	14

(\*) Recommended nominal diameter for duct.

RFV



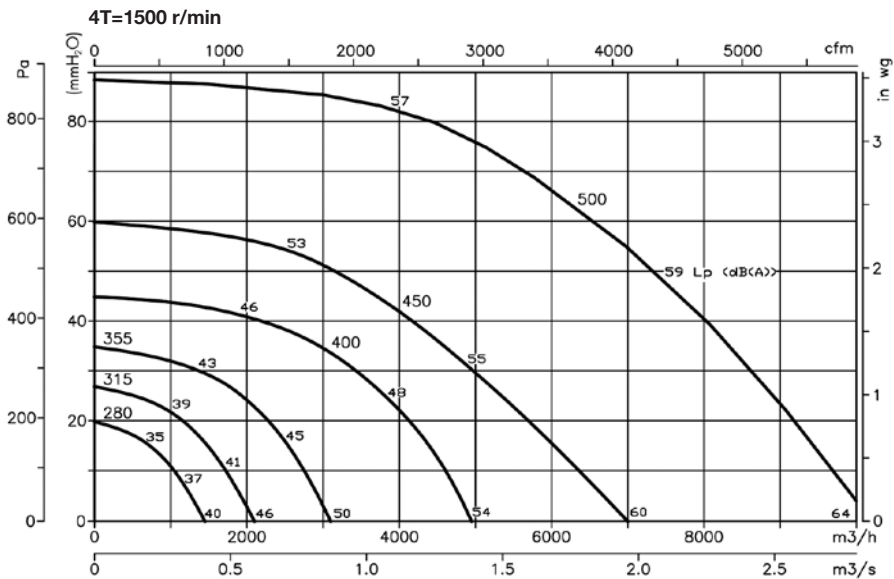
	A	A1	ØD*	F	G	H	Øl
RFV-280	515	235	250	800	450	360	12
RFV-315	540	235	250	800	450	360	12
RFV-355	610	305	355	1045	560	450	12
RFV-400	665	305	355	1045	560	450	12
RFV-450	740	340	500	1255	710	590	12
RFV-500	755	340	500	1255	710	590	12
RFV-630	845	400	630	1550	900	750	14
RFV-710	995	455	710	1875	1100	900	14
RFV-800	1065	455	710	1875	1100	900	14

(\*) Recommended nominal diameter for duct.

Characteristic curves

Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg.

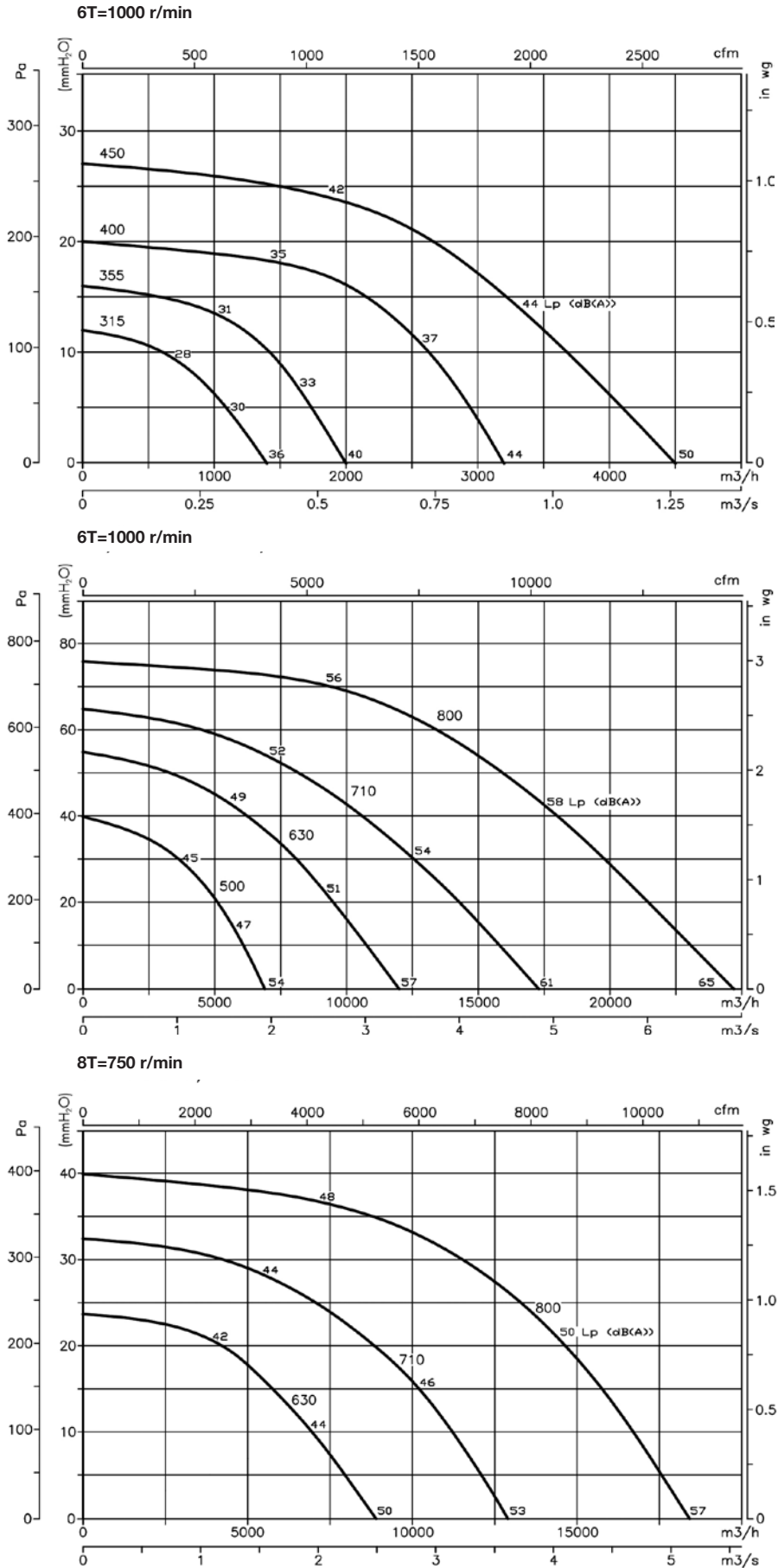


Characteristic curves



Q = Airflow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe = Static pressure in mmH<sub>2</sub>O, Pa and inwg.



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