

Range of direct driven backward curved centrifugal cabinet fans designed for smoke extraction in fire conditions and certified F400-120 (CE marked). The casings are manufactured from a robust galvanised frame work combined with panels lined with 25 mm thickness of fireproof fibreglass acoustic insulation (M0). All models incorporate F400-120 rated motors approved to operate continuously (S1) and in emergency situations (S2). Available, depending upon the model, with three phase motors in 4, 6 or 4/8 poles.

Motors

All the motors are IP55 Class H insulation. Electrical supply.

Three phase 230/400V-50Hz up to 3 kW.
Three phase 400V-50Hz, for higher power motors and two speed motors).



Specific applications



Officially approved to EN12101-3 standard. Certificate n° 0370-CPR-2475

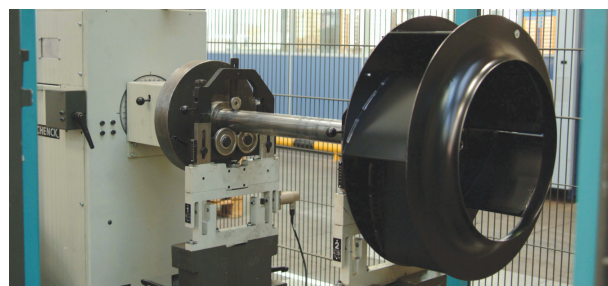
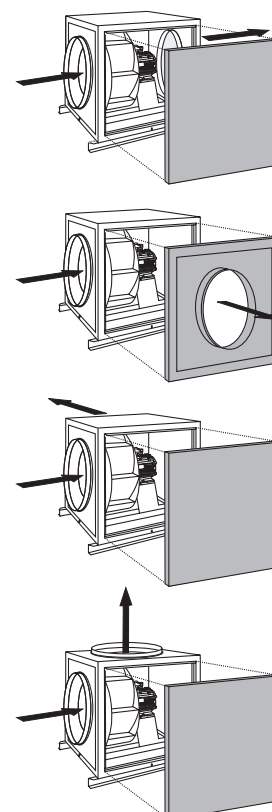


Car parks

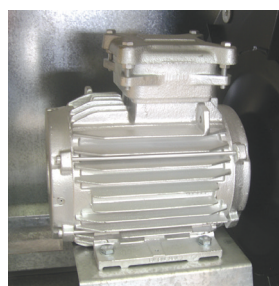


Commercial and industrial kitchens

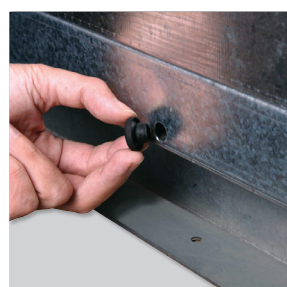
Versatile design



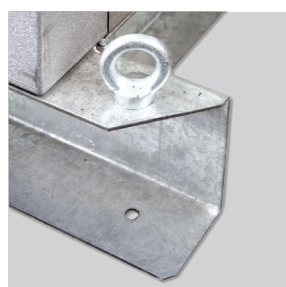
Backward curved centrifugal impellers
To avoid the accumulation of dirtiness or grease. Dynamically balanced according to ISO 1940 standard.



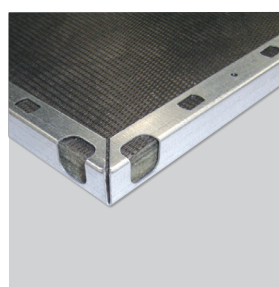
Approved motor S1 and S2
F400-120 rated motors approved to operate continuously (S1) and in emergency situations (S2).



Tight cabinet
Condensation drain holes to eliminate condensed water.



Easy to install
All fans are fitted with rigid framework with lifting rings to ease the installation on floor or ceiling.



Low noise level
Panels manufactured from galvanized sheet steel lined with fireproof acoustic insulation (M0), to reduce significantly the radiated noise.



Anti-vibration mounts
To reduce vibration and noise transmissions to the installation.



Robustness
Quality finishing, with aluminium corners providing a high robustness.

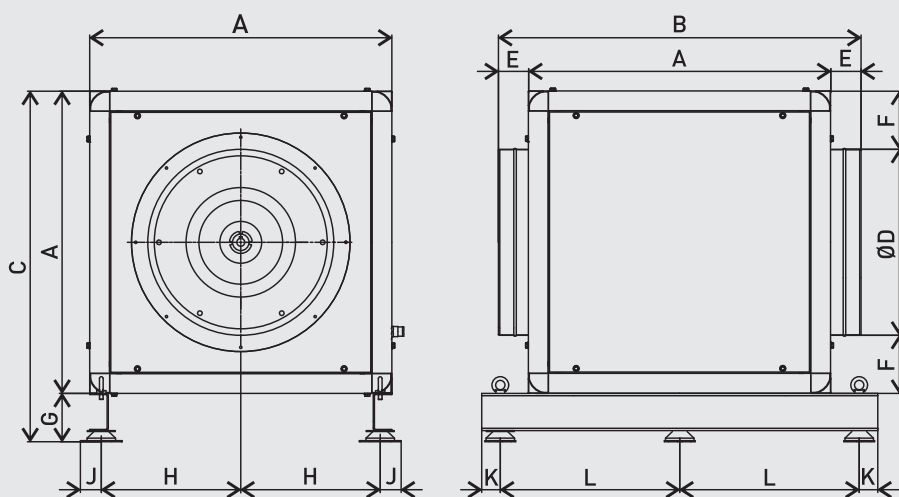
TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Speed (rpm)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (m³/h)	Sound pressure level (dB(A)) at 1,5 m*			Weight (kg)	Speed controller
					Intlet	Outlet	Breakout		
4 POLE MOTORS									
CHAT/4-400 N 0,37kW	1460	365	0,8	3.200	53	50	42	80	VFTM TRI 0,37
CHAT/4-450 N 0,55kW	1460	696	1,8	4.770	58	57	46	90	VFTM TRI 0,55
CHAT/4-500 N 1,1kW	1470	1.016	2,0	6.770	63	63	50	110	VFTM TRI 1,1
CHAT/4-560 N 1,5kW	1470	1.718	3,1	9.180	67	67	53	185	VFTM TRI 1,5
CHAT/4-630 N 2,2kW	1460	2.931	5,5	13.400	72	74	57	200	VFTM TRI 3
CHAT/4-710 N 5,5kW	1480	5.337	9,5	19.670	77	80	61	215	VFTM TRI 5,5
6 POLE MOTORS									
CHAT/6-560 N 0,55kW	960	648	1,6	6.250	55	53	45	185	VFTM TRI 0,55
CHAT/6-630 N 1,1kW	970	943	2,2	8.830	58	57	47	200	VFTM TRI 1,1
CHAT/6-710 N 1,5kW	970	1.701	4,1	12.520	62	61	49	215	VFTM TRI 1,5
CHAT/6-800N 3kW	980	3.169	6,8	18.880	65	67	51	229	VFTM TRI 3
4/8 POLE MOTORS									
CHAT/4/8-450 N 0,55/0,09 kW	1470	754	1,9	4.720	58	57	46	90	DMEZ 1/2,3 DA
	740	229	0,9	2.350	43	42	31		
CHAT/4/8-500 N 1,1/0,18 kW	1470	1.215	2,7	6.880	63	63	50	110	DMEZ 1,3/3,1 DA
	740	249	1,0	3.390	48	48	35		
CHAT/4/8-560 N 1,5/0,25 kW	1450	1.909	3,6	9.460	67	67	53	185	DMEZ 1,3/4,2 DA
	730	354	1,3	4.680	52	52	38		
CHAT/4/8-630 N 3/0,55 kW	1450	3.259	7,5	13.420	72	74	57	200	DMEZ 2,3/7,6 DA
	740	617	1,9	6.720	57	59	42		
CHAT/4/8-710 N 5,5/1,1 kW	1490	5.995	12,1	20.030	77	80	61	215	DMEZ 4,2/13 DA
	740	916	3,9	9.580	62	65	46		

* Sound pressure level measured at 1,5 m in free field condition, at the duty point 2 of the performance curve.

DIMENSIONS (mm)

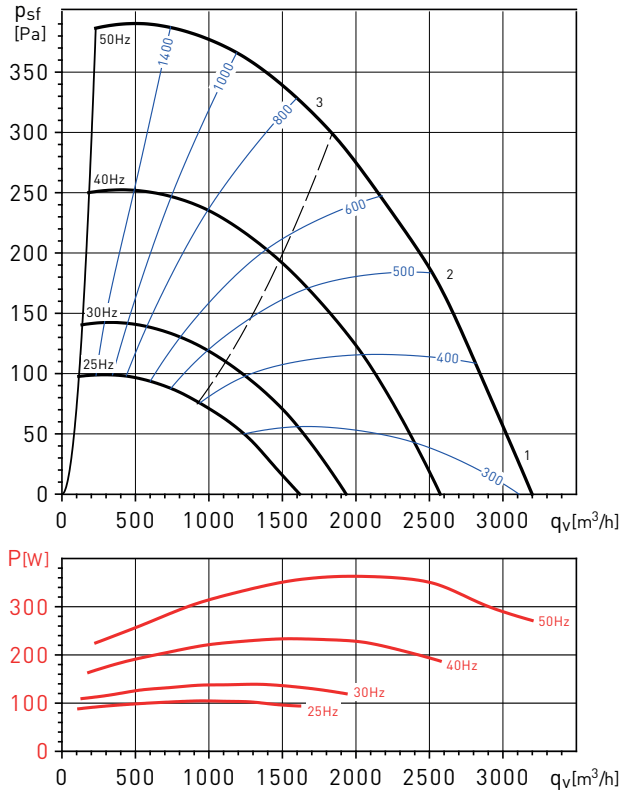


	A	B	C	D	E	F	G	H	J	K	L
CHAT/ -400 N	650	780	754	400	65	125	104	300	45	40	386
CHAT/ -450 N	650	760	754	448	55	101	104	300	45	40	386
CHAT/ -500 N	800	910	904	498	55	151	104	375	45	40	461
CHAT/ -560 N	860	970	964	558	55	151	104	405	45	40	470
CHAT/ -630 N	980	1090	1084	628	55	176	104	465	45	40	530
CHAT/ -710 N	1037	1147	1141	708	55	164,5	104	493,5	45	40	558,5
CHAT/ -800 N	1200	1310	1304	798	55	201	104	575	45	40	640

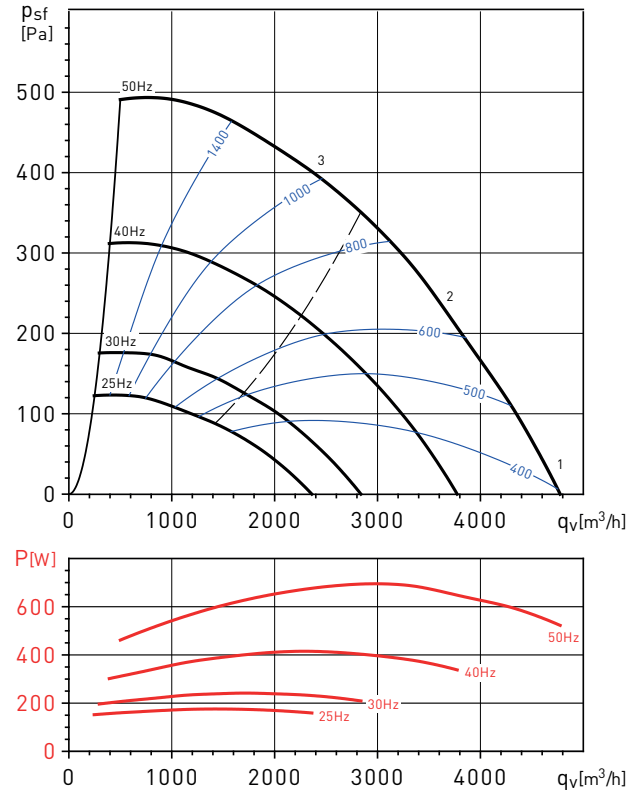
PERFORMANCE CURVES - 4 POLE MOTOR

- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- P: Input power in W.
- Normal dry air at 20° and 760 mmHg.
- SPF: Specific power factor, in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

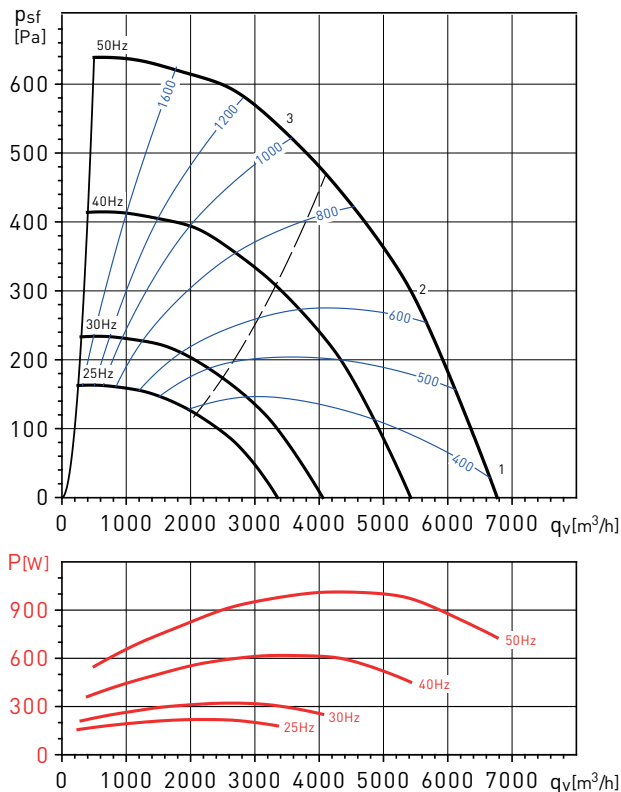
CHAT/4-400N 0,37kW



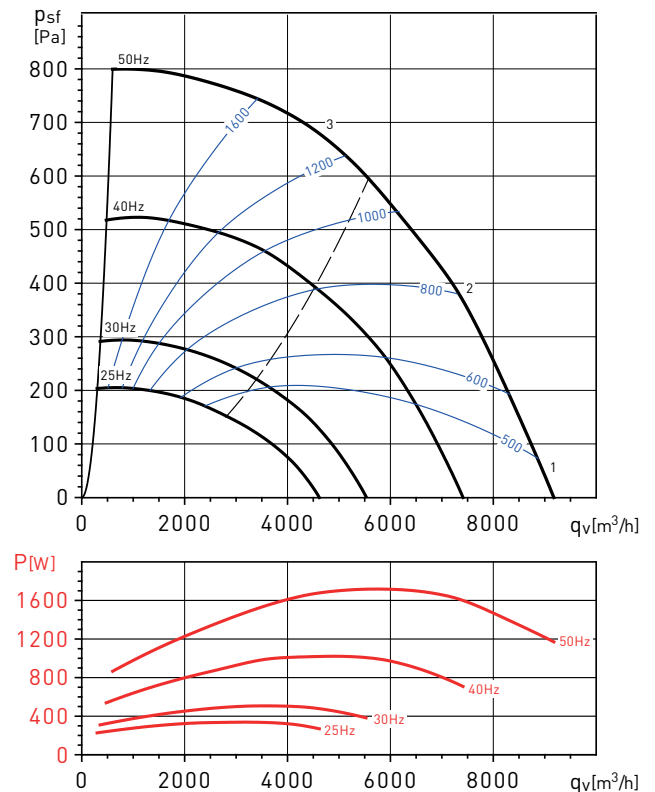
CHAT/4-450N 0,55kW



CHAT/4-500N 1,1kW



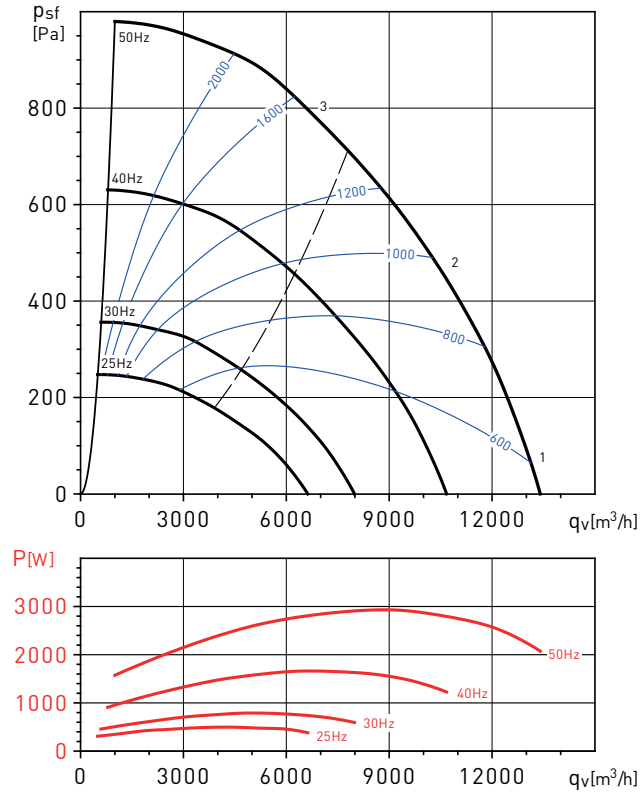
CHAT/4-560N 1,5kW



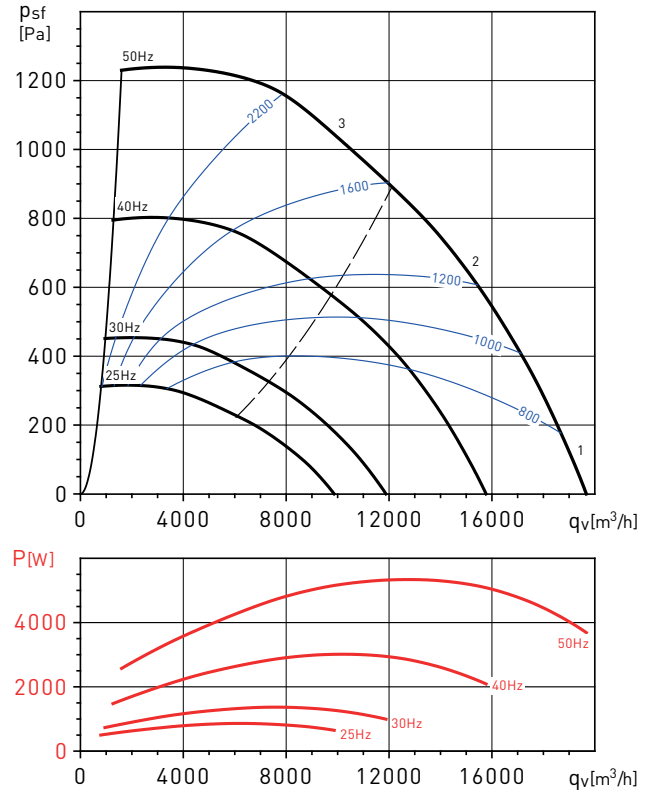
PERFORMANCE CURVES - 4 POLE MOTOR

- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- P: Input power in W.
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- Performance data in accordance with ISO 5801.

CHAT/4-630N 3kW



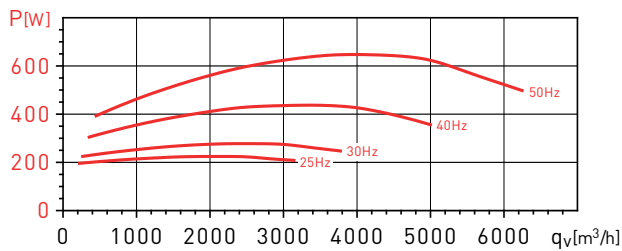
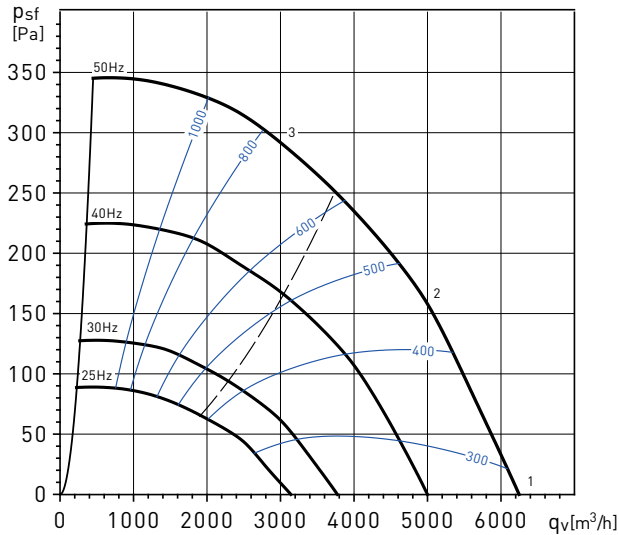
CHAT/4-710N 5,5kW



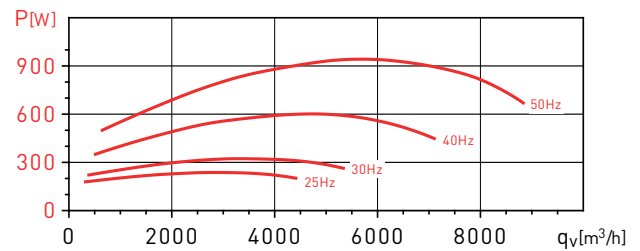
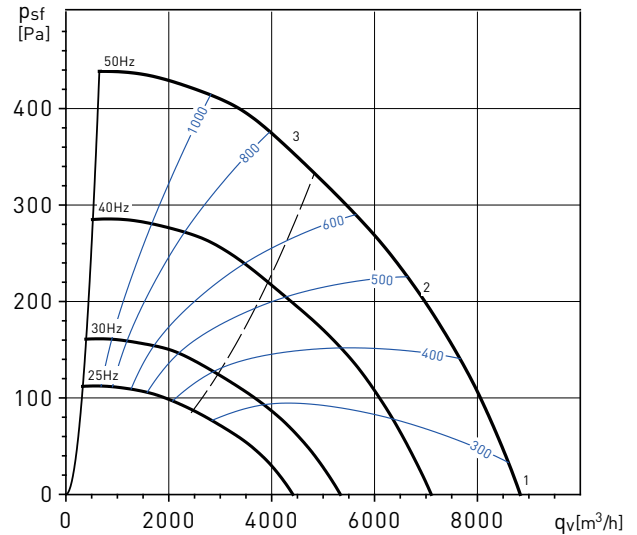
PERFORMANCE CURVES - 6 POLE MOTOR

- q_v : Airflow in m^3/h .
- p_{sf} : Static pressure in Pa.
- P: Input power in W.
- Normal dry air at 20° and 760 mmHg.
- SPF: Specific power factor, in $W/m^3/s$ (blue curves).
- Performance data in accordance with ISO 5801.

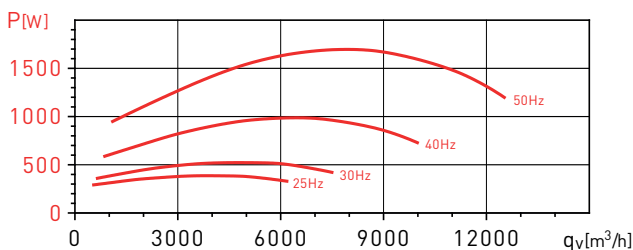
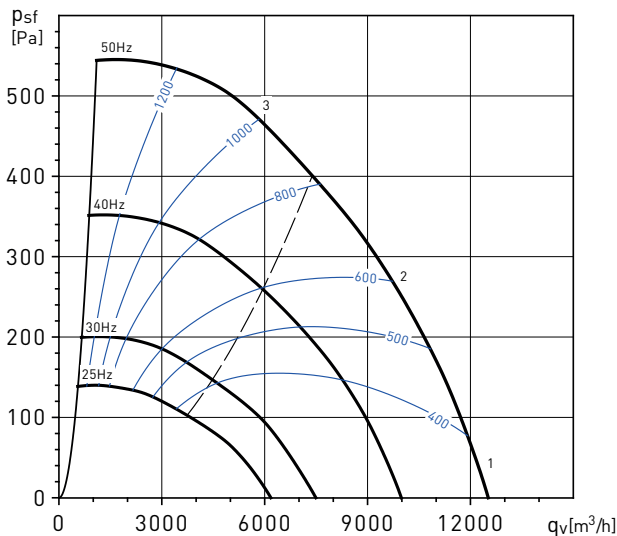
CHAT/6-560N 0,55kW



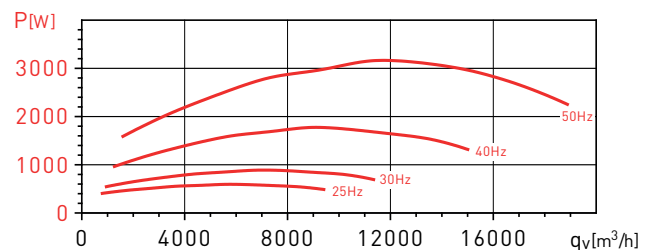
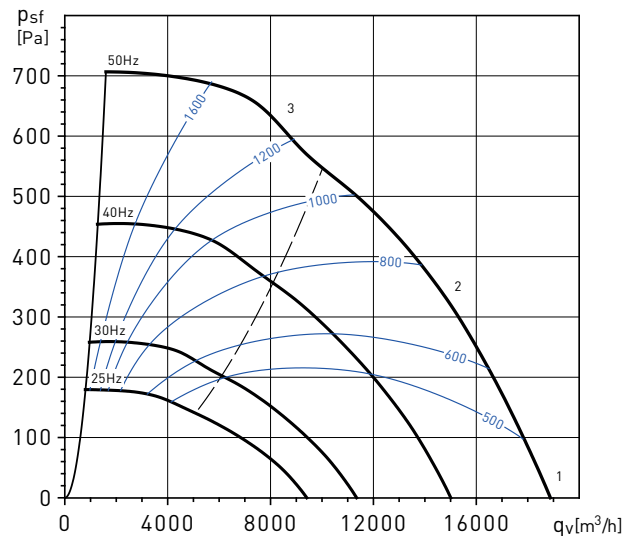
CHAT/6-630N 1,1kW



CHAT/6-710N 1,5kW



CHAT/6-800N 3kW



ACOUSTIC CHARACTERISTICS

Sound power level spectrum in dB(A) at the corresponding frequency band (Hz):

CHAT/4-400		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	42	57	64	66	62	66	59	52	71
	2	38	56	61	62	59	59	53	50	67
	3	41	60	61	65	61	61	56	52	69
OUTLET	1	49	54	59	61	67	66	60	50	71
	2	42	50	55	57	61	55	50	46	64
	3	50	53	55	59	64	59	53	48	67
RADIATED	1	32	44	55	52	52	54	50	46	60
	2	28	43	52	48	50	47	44	45	56
	3	31	47	53	51	52	49	48	47	58

CHAT/4-450		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	46	62	67	69	66	70	63	56	75
	2	43	61	65	66	65	64	59	56	72
	3	45	64	66	67	65	65	61	57	73
OUTLET	1	55	60	63	66	72	71	66	55	76
	2	47	56	60	63	68	63	58	53	71
	3	52	58	59	63	69	65	59	54	72
RADIATED	1	37	51	58	56	57	57	52	47	64
	2	33	49	55	52	54	50	47	45	60
	3	35	52	55	53	54	51	49	47	61

CHAT/4-500		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	51	66	71	72	71	75	67	60	79
	2	48	66	70	70	70	70	65	61	77
	3	49	68	70	70	70	69	65	61	77
OUTLET	1	61	66	67	70	77	76	71	61	81
	2	52	62	64	68	74	70	64	59	77
	3	54	62	63	67	74	71	65	60	77
RADIATED	1	41	56	60	58	60	59	53	47	66
	2	38	55	58	56	58	54	50	46	64
	3	38	56	58	55	57	53	50	47	64

CHAT/4-560		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	55	71	74	75	75	79	72	64	83
	2	53	70	73	74	74	74	70	65	81
	3	52	70	73	73	73	72	69	65	80
OUTLET	1	65	71	71	74	80	80	75	65	85
	2	54	65	67	71	78	75	69	63	81
	3	57	67	67	72	78	76	71	65	82
RADIATED	1	44	61	61	60	62	61	54	46	68
	2	42	59	60	58	61	56	52	47	67
	3	42	61	60	58	60	55	52	47	66

CHAT/4-630		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	59	75	78	78	79	83	76	69	87
	2	58	75	78	78	80	80	76	70	86
	3	56	74	77	76	77	77	74	69	84
OUTLET	1	70	76	74	78	84	85	80	70	89
	2	59	72	72	78	84	82	76	71	88
	3	59	71	71	76	83	82	77	71	87
RADIATED	1	49	67	64	63	66	64	56	47	72
	2	47	65	63	62	65	60	54	48	71
	3	46	65	63	60	63	57	53	47	70

CHAT/4-710		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	64	81	83	82	85	88	81	74	92
	2	63	79	82	82	85	85	81	76	91
	3	60	78	82	78	81	81	78	74	88
OUTLET	1	76	81	78	82	89	90	85	75	94
	2	63	77	76	83	90	89	82	77	94
	3	61	76	75	81	88	88	82	77	92
RADIATED	1	54	73	66	66	70	66	59	47	76
	2	53	71	66	65	69	63	58	49	75
	3	49	70	65	62	66	59	56	47	73

CHAT/6-560		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	44	56	63	66	64	68	59	52	72
	2	41	59	63	65	61	59	55	50	69
	3	44	63	63	66	64	62	58	54	71
OUTLET	1	47	54	60	61	69	70	61	55	73
	2	44	52	57	57	64	60	54	49	67
	3	53	57	58	57	63	58	51	47	67
RADIATED	1	38	40	52	54	57	57	51	47	62
	2	35	44	53	53	55	49	47	46	60
	3	36	45	50	52	55	49	47	47	59

CHAT/6-630		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	47	61	67	69	67	71	63	56	75
	2	44	62	66	67	65	64	59	55	72
	3	46	65	66	68	66	65	61	57	74
OUTLET	1	53	59	63	65	72	72	65	57	76
	2	47	56	60	62	68	64	58	53	71
	3	53	59	60	62	68	64	58	53	71
RADIATED	1	39	48	56	56	58	58	52	47	64
	2	36	49	55	54	56	51	48	46	61
	3	37	51	54	54	56	51	49	47	61

CHAT/6-710		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	50	66	71	72	70	74	67	60	79
	2	47	65	69	69	69	69	64	60	76
	3	48	67	69	70	68	68	64	60	76
OUTLET	1	60	65	67	70	76	75	70	59	80
	2	50	60	63	67	72	68	62	57	75
	3	54	61	63	68	74	71	65	60	77
RADIATED	1	40	56	59	57	58	58	53	46	65
	2	36	54	57	54	57	53	49	46	63
	3	37	56	58	55	57	53	50	47	64

CHAT/6-800		63	125	250	500	1000	2000	4000	8000	LWA
INLET	1	54	72	75	75	74	78	72	65	83
	2	50	67	71	71	73	74	68	65	79
	3	49	68	72	71	71	72	68	64	79
OUTLET	1	68	72	71	75	80	78	76	62	84
	2	55	66	67	73	78	73	68	63	81
	3	54	64	66	74	80	78	74	67	84
RADIATED	1	41	65	64	59	59	59	54	46	69
	2	37	60	60	55	58	55	50	46	65
	3	37	62	62	56	57	54	51	46	67

MOUNTING ACCESSORIES



ACOPEL F400 N*
Circular flexible connector
 Certified F400-120.
 Can be installed at the inlet or outlet side.



APC*
 Protection guards for direct connection to the inlet-outlet fan flange connector.



CTI CVA/CHAT Outdoor cover
 For outdoor installations.

* For more information see Mounting accessories.

CHAT-N Model	APC Model	CTI CVA/CHAT Model
400	APC-400	CTI CVA-355/400 CHAT-400/450
450	APC-450	CTI CVA-355/400 CHAT-400/450
500	APC-500	CTI CVA-500 CHAT-500
560	APC-560	CTI CVA-9000 CHAT-560
630	APC-630	CTI CVA-14000 CHAT-630
710	APC-710	CTI CVA-17000 CHAT-710
800	APC-800	CTI CHAT-800 N