



Range of belt driven cabinet fans, certified F400-120 (CE marked), designed for:

- Extract of air from commercial kitchens.
- Extraction of fumes and smoke in case of fire.

All models are suitable for air stream temperature up to 80°C. Interior or exterior installations. The casings are manufactured in heavy gauge galvanised sheet steel.

Side panels are removable on both sides for ease of access. All models incorporate:

- Double inlet backward curved centrifugal impellers, helps to maintain airflow as filter pressure changes.
- Airtight cabinet to avoid spread of the condensates.
- Threaded drain connection for condensate.
- Inspection door on the scroll of the fan to assist cleaning.
- Transmission by trapezoidal drive and pulley. In standard versions the transmission is located on the left, if we look from the mouth of aspiration.

Transmission on the right, on request.

Supplied with inlet & outlet flanges.

Transmission by trapezoid belt and pulleys with gorge (variable motor's pulley).

Motor outside the air stream, mounted within the fan cabinet.

Motors

All motors are IP 55, class F insulation.

Electrical supply:

1 speed three phase 230/400V-50Hz

2 speeds three phase 400V-50Hz.

(See characteristics chart) The one speed three phase models are speed controllable by frequency inverter.

IMPORTANT: it is compulsory to add an electrical device, which, in case of fire, allow to switch on the security power supply and override comfort mode.

On request

Double skin panels with glass wool M0 (25mm) for sound and thermal insulation. Polyester paint finish. Disconnecting switch installed within the unit.

Specific applications



Officially approved to EN12101-3



Industrial kitchens



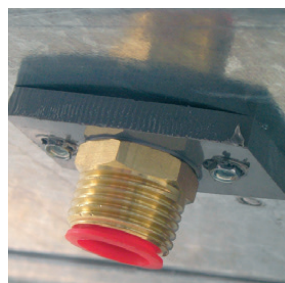
Start/stop switch mounted and wired



Belt drive trapezoidal and pulley



Backward impeller, self-cleaning



Condensate outlet



Inspection door in the fan volute for facilitate cleaning



Watertight box in order to prevents condensate from escaping

BELT DRIVEN CABINET FANS FOR KITCHEN

KCTR Series- F400-120 rated cabinet fans



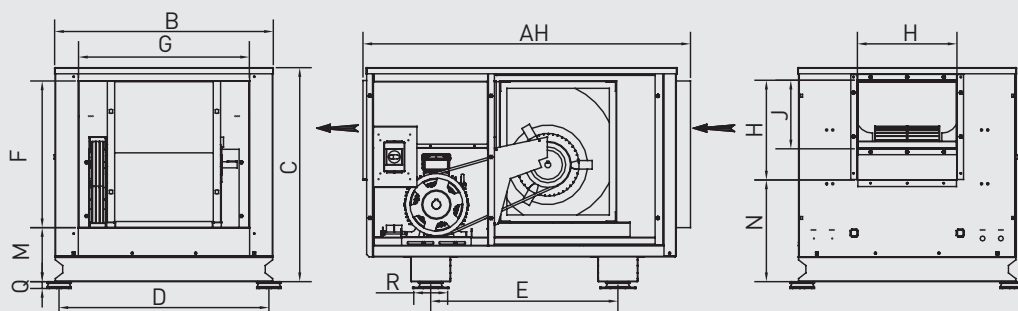
Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Speed (r.p.m.)	Motor power (kW)	Nominal current (A)		Maximum air volume (m³/h)	Weight (kg)
			230V	400V		
			KCTR-H/2-250 0,75 KCTR-V/2-250 0,75	2255 2390 2525 2660		
KCTR-H/2-250 1,1 KCTR-V/2-250 1,1	2840 3020 3200	1,1	4,03	2,32	4.440 4.720 5.000	84
KCTR-H/2-315 1,1 KCTR-V/2-315 1,1	1620 1730 1840 1950	1,1	4,03	2,32	5.180 5.540 5.890 6.240	124
KCTR-H/2-315 1,5 KCTR-V/2-315 1,5	2080 2210 2340	1,5	5,48	3,15	6.660 7.080 7.500	128
KCTR-H/4-355 1,5 KCTR-V/4-355 1,5	1485 1610 1735 1860	1,5	5,48	3,15	6.700 7.260 7.820 8.370	167
KCTR-H/4-355 2,2 KCTR-V/4-355 2,2	1950 2040 2130	2,2	7,93	4,56	8.780 9.190 9.600	179
KCTR-H/4-400 2,2 KCTR-V/4-400 2,2	1230 1320 1410 1500 1590	2,2	7,93	4,56	7.960 8.560 9.150 9.740 10.340	244
KCTR-H/4-400 3 KCTR-V/4-400 3	1675 1760 1845 1930	3	10,7	6,15	10.880 11.420 11.960 12.500	244
KCTR-H/4-450 3 KCTR-V/4-450 3	1180 1255 1330 1405 1480	3	10,7	6,15	10.620 11.270 11.930 12.590 13.243	264
KCTR-H/4-450 4 KCTR-V/4-450 4	1555 1630 1705 1780	4	14,5	8,32	13.930 14.620 15.310 16.000	273
KCTR-H/4-500 4 KCTR-V/4-500 4	1220 1345 1470	4	14,5	8,32	14.900 16.420 17.950	338
KCTR-H/4-500 5,5 KCTR-V/4-500 5,5	1595 1720	5,5	17,9	10,3	19.470 21.000	362

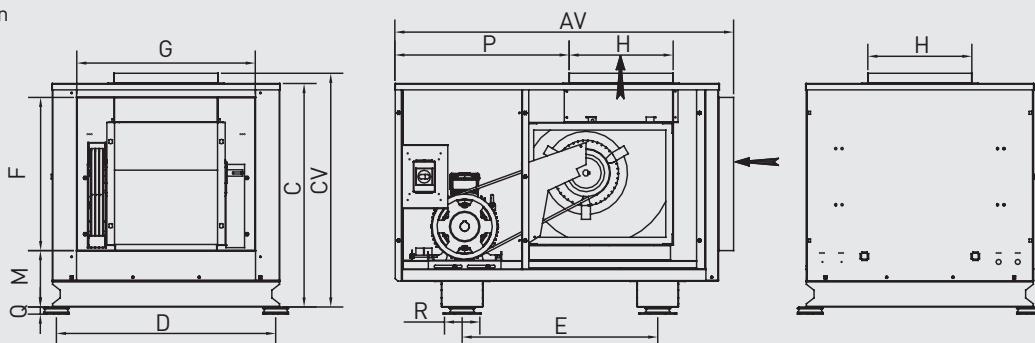
Modelo	Speed (r.p.m.)	Motor power (kW)	Nominal current (A) 400		Maximum air volume (m³/h)	Weight (kg)
			VR	VL		
			KCTR-H/2/4-250 0,8/0,2 KCTR-V/2/4-250 0,8/0,2	2255 2390 2525 2660		
KCTR-H/2/4-250 1,5/0,25 KCTR-V/2/4-250 1,5/0,25	2840 3020 3200	1,1/0,25	2,49	0,8	4.440 4.720 5.000	85
KCTR-H/2/4-315 1,5/0,25 KCTR-V/2/4-315 1,5/0,25	1620 1730 1840 1950	1,1/0,25	2,49	0,8	5.180 5.540 5.890 6.240	125
KCTR-H/2/4-315 1,5/0,37 KCTR-V/2/4-315 1,5/0,37	2080 2210 2340	1,5/0,37	3,54	1,25	6.660 7.080 7.500	129
KCTR-H/4/6-355 1,5/0,37 KCTR-V/4/6-355 1,5/0,37	1485 1610 1735 1860	1,5/0,37	3,65	1,62	6.700 7.260 7.820 8.370	165
KCTR-H/4/6-355 2,2/0,7 KCTR-V/4/6-355 2,2/0,7	1950 2040 2130	2,2/0,7	4,91	2,48	8.780 9.190 9.600	172
KCTR-H/4/6-400 2,2/0,7 KCTR-V/4/6-400 2,2/0,7	1230 1320 1410 1500 1590	2,2/0,7	4,91	2,48	7.960 8.560 9.150 9.740 10.340	237
KCTR-H/4/6-400 3/1 KCTR-V/4/6-400 3/1	1675 1760 1845 1930	3/1	6,85	3,86	10.880 11.420 11.960 12.500	250
KCTR-H/4/6-450 3/1 KCTR-V/4/6-450 3/1	1180 1255 1330 1405 1480	3/1	6,85	3,86	10.620 11.270 11.930 12.590 13.243	270
KCTR-H/4/6-450 4,5/1,5 KCTR-V/4/6-450 4,5/1,5	1555 1630 1705 1780	4,5/1,5	10,2	5,38	13.930 14.620 15.310 16.000	288
KCTR-H/4/6-500 4,5/1,5 KCTR-V/4/6-500 4,5/1,5	1220 1345 1470	4,5/1,5	10,2	5,38	14.900 16.420 17.950	253
KCTR-H/4/6-500 6/2,2 KCTR-V/4/6-500 6/2,2	1595 1720	6/2,2	13,7	6,96	19.470 21.000	361

DIMENSIONS (mm)

Horizontal configuration

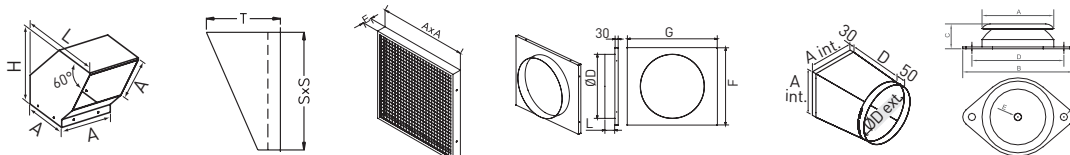


Vertical configuration



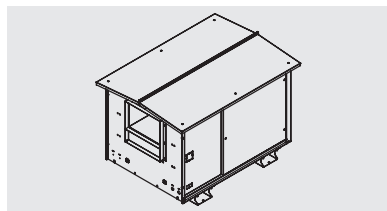
Model	AH	AV	B	C	CV	D	E	F	G	H	J	M	N	P	Q	R
250	1130	1118	727	784	824	679	766	500	600	324	209	221	411	569	28	125
315	1360	1329	896	876	916	860	767	600	700	408	281	221	416	683,5	28	125
355	1490	1457	1006	990	1030	966	897	700	800	457	321	221	476	744	28	125
400	1594	1565	1120	1036	1078	1071	926	800	900	509	353	184	471	753	28	125
450	1761	1734	1191	1119	1162	1143	1130	900	1000	570	381	184	486	825	39	182
500	1919	1891	1387	1222	1264	1340	1180	900	1000	640	467	249	521	964	39	182

ACCESSORIES

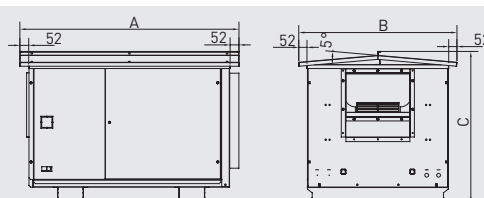


Model	MSCZ M0		Rain cap PPVZ			Rain protection guard PPHZ		Outlet cowl against birds AVRZ		Circular connection						Rubber anti-vibration mounts PAVZ
	Inlet	Outlet	A	H	L	S	T	A	E	At inlet RCAZ				At outlet RCRZ		
										ØD	F	G	L	A	D	
250	600x500	325x325	326	473	615	324	242	326	50	400	502	602	80	326	400	PAVZ-100 SH 75
315	700x600	407x407	410	587	778	408	281	410	50	500	602	702	80	410	500	PAVZ-100 SH 75
355	800x700	457x457	459	653	873	457	304	459	50	560	702	802	80	459	560	PAVZ-100 SH 75
400	900x800	510x510	511	720	969	509	328	511	50	630	802	902	65	511	630	PAVZ-100 SH 75
450	1000x900	572x572	572	800	1083	570	356	572	50	710	902	1002	100	572	710	PAVZ-150 SH 75
500	1000x900	640x640	642	893	1217	640	388	642	50	800	902	1002	100	642	800	PAVZ-150 SH 75

Roof cover TPKD

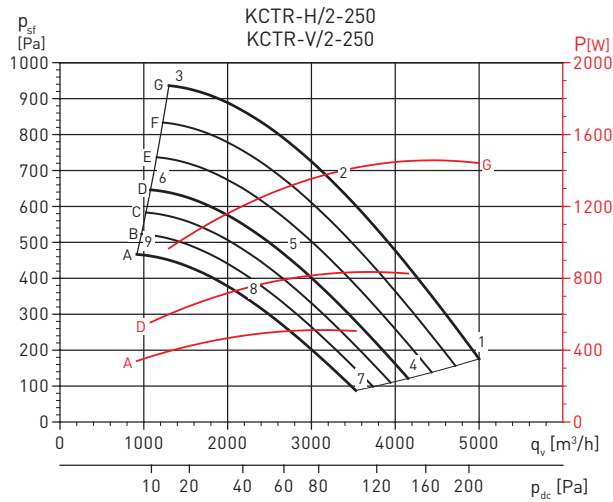


Model	A	B	C
250	1185	834	861
315	1385	1000	959
355	1514	1110	1078
400	1616	1229	1128
450	1784	1297	1215
500	1944	1494	1326

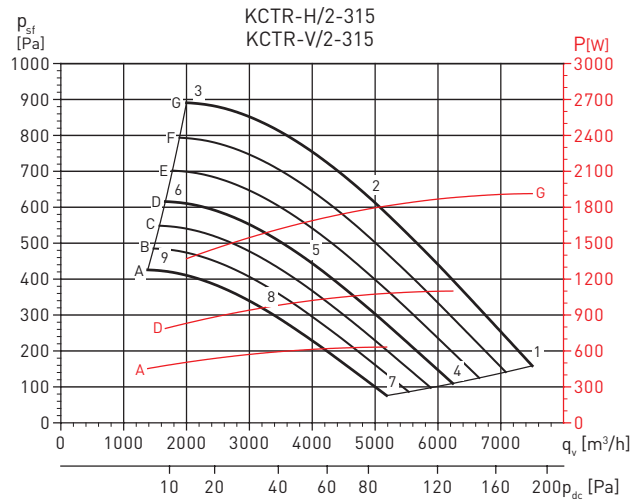


CHARACTERISTIC AND ACOUSTIC CURVES

- q_v = Flow in m^3/h and m^3/s .
- p_{sf} = Static pressure in Pa.
- The graphics are valid for an air density of $1.2 kg/m^3$.
- Established following the code of motor extraction fan groups in boxes tests (ISO 5801).
- p_{dc} = Additional load loss in Pa in case of free discharge.



250	Curve	A	B	C	D	E	F	G
	r.p.m.	2255	2390	2525	2660	2840	3020	3200



315	Curve	A	B	C	D	E	F	G
	r.p.m.	1620	1730	1840	1950	2080	2210	2340

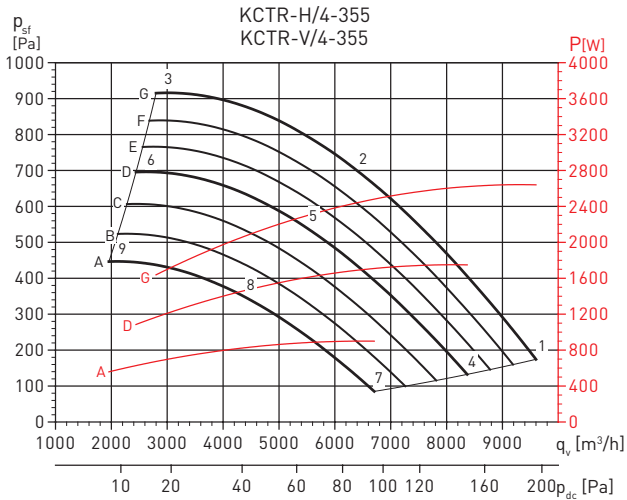
Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	61	69	73	77	78	77	70	63	83
	Outlet	72	77	76	77	77	76	69	62	84
	Radiated	59	69	68	69	72	70	68	68	78
2	Inlet	54	62	66	70	71	70	63	56	76
	Outlet	64	71	70	71	72	71	62	55	78
	Radiated	52	62	61	62	65	63	61	61	71
3	Inlet	57	65	69	73	74	73	66	59	79
	Outlet	68	74	73	72	73	72	65	58	80
	Radiated	55	65	64	65	68	66	64	64	74
4	Inlet	57	65	69	73	74	73	66	59	79
	Outlet	68	74	74	73	73	72	65	58	81
	Radiated	55	65	64	65	68	66	64	64	74
5	Inlet	50	58	62	66	67	66	59	52	72
	Outlet	60	65	66	66	66	65	58	51	73
	Radiated	48	58	57	58	61	59	57	57	67
6	Inlet	53	61	65	69	70	69	62	55	75
	Outlet	64	70	69	68	69	68	61	54	76
	Radiated	51	61	60	61	64	62	60	60	70
7	Inlet	53	61	65	69	70	69	62	55	75
	Outlet	64	70	70	69	69	68	61	54	77
	Radiated	51	61	60	61	64	62	60	60	70
8	Inlet	46	54	58	62	63	62	55	48	68
	Outlet	56	61	62	62	62	61	54	47	69
	Radiated	44	54	53	54	57	55	53	53	63
9	Inlet	49	57	61	65	66	65	58	51	71
	Outlet	60	66	65	64	65	64	57	50	73
	Radiated	47	57	56	57	60	58	56	56	66

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	63	71	75	79	80	79	72	65	85
	Outlet	73	77	77	79	80	79	72	65	86
	Radiated	60	70	69	70	73	71	69	69	79
2	Inlet	55	63	67	71	72	71	64	57	77
	Outlet	65	69	69	71	72	71	64	57	78
	Radiated	52	62	61	62	65	63	61	61	71
3	Inlet	60	68	72	76	77	76	69	62	82
	Outlet	70	74	74	76	77	76	69	62	83
	Radiated	57	67	66	67	70	68	66	66	76
4	Inlet	60	68	72	76	77	76	69	62	82
	Outlet	70	74	74	76	77	76	69	62	83
	Radiated	57	67	66	67	70	68	66	66	76
5	Inlet	51	59	63	67	68	67	60	53	73
	Outlet	61	65	65	67	68	67	60	53	74
	Radiated	48	58	57	58	61	59	57	57	67
6	Inlet	56	64	68	72	73	72	65	58	78
	Outlet	66	70	70	72	73	72	65	58	79
	Radiated	53	63	62	63	66	64	62	62	72
7	Inlet	56	64	68	72	73	72	65	58	78
	Outlet	66	69	70	72	73	72	65	58	79
	Radiated	53	63	62	63	66	64	62	62	72
8	Inlet	47	55	59	63	64	63	56	49	69
	Outlet	57	60	61	63	64	63	56	49	70
	Radiated	44	54	53	54	57	55	53	53	63
9	Inlet	52	60	64	68	69	68	61	54	74
	Outlet	62	65	66	68	69	68	61	54	75
	Radiated	49	59	58	59	62	60	58	58	68

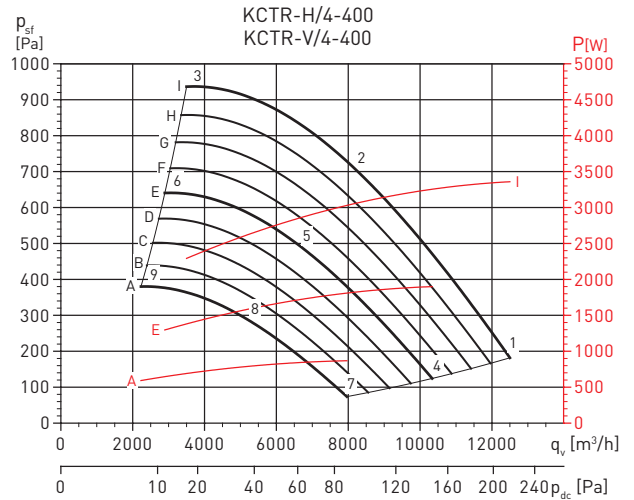


CHARACTERISTIC AND ACOUSTIC CURVES

- q_v = Flow in m^3/h and m^3/s .
- p_{sf} = Static pressure in Pa.
- The graphics are valid for an air density of 1.2 kg/m^3 .
- Established following the code of motor extraction fan groups in boxes tests (ISO 5801).
- p_{dc} = Additional load loss in Pa in case of free discharge.



355	Curve	A	B	C	D	E	F	G
	r.p.m.	1485	1610	1735	1860	1950	2040	2130



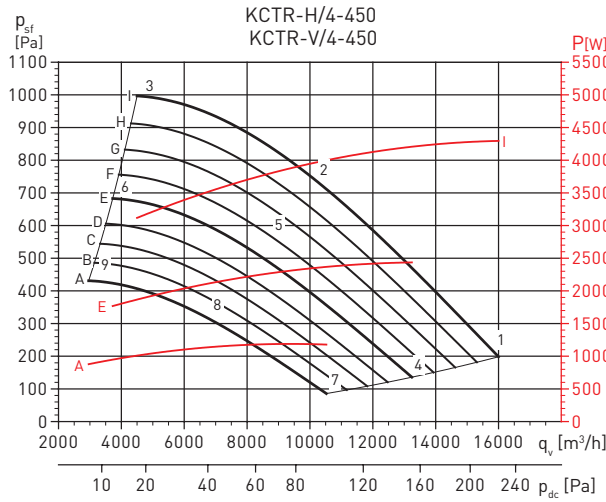
400	Curve	A	B	C	D	E	F	G	H	I
	r.p.m.	1230	1320	1410	1500	1590	1675	1760	1845	1930

Working point	63	125	250	500	1000	2000	4000	8000	LwA	
1	Inlet	66	74	78	82	83	82	75	68	88
	Outlet	76	79	80	82	83	82	75	68	89
	Radiated	61	71	70	71	74	72	70	70	80
2	Inlet	58	66	70	74	75	74	67	60	80
	Outlet	68	71	72	74	75	74	67	60	81
	Radiated	53	63	62	63	66	64	62	62	72
3	Inlet	63	71	75	79	80	79	72	65	85
	Outlet	73	76	77	79	80	79	72	65	86
	Radiated	58	68	67	68	71	69	67	67	77
4	Inlet	64	72	76	80	81	80	73	66	86
	Outlet	74	77	78	80	81	80	73	66	87
	Radiated	59	69	68	69	72	70	68	68	78
5	Inlet	53	61	65	69	70	69	62	55	75
	Outlet	63	66	67	69	70	69	62	55	76
	Radiated	48	58	57	58	61	59	57	57	67
6	Inlet	61	69	73	77	78	77	70	63	83
	Outlet	71	74	75	77	78	77	70	63	84
	Radiated	56	66	65	66	69	67	65	65	75
7	Inlet	58	66	70	74	75	74	67	60	80
	Outlet	68	71	72	74	75	74	67	60	81
	Radiated	53	63	62	63	66	64	62	62	72
8	Inlet	47	55	59	63	64	63	56	49	69
	Outlet	57	60	61	63	64	63	56	49	70
	Radiated	42	52	51	52	55	53	51	51	61
9	Inlet	55	63	67	71	72	71	64	57	77
	Outlet	65	68	69	71	72	71	64	57	78
	Radiated	50	60	59	60	63	61	59	59	69

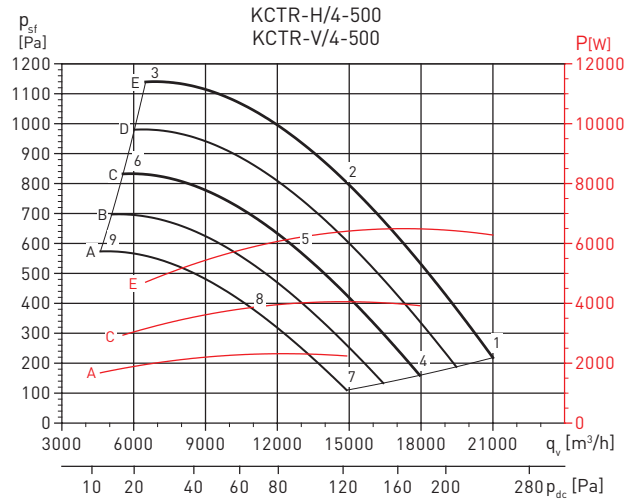
Working point	63	125	250	500	1000	2000	4000	8000	LwA	
1	Inlet	69	77	81	85	86	85	78	71	91
	Outlet	78	82	83	85	86	85	78	71	92
	Radiated	63	73	72	73	76	74	72	72	82
2	Inlet	64	72	76	80	81	80	73	66	86
	Outlet	73	77	78	80	81	80	73	66	87
	Radiated	58	68	67	68	71	69	67	67	77
3	Inlet	66	74	78	82	83	82	75	68	88
	Outlet	75	79	80	82	83	82	75	68	89
	Radiated	60	70	69	70	73	71	69	69	79
4	Inlet	66	74	78	82	83	82	75	68	88
	Outlet	75	79	80	82	83	82	75	68	89
	Radiated	60	70	69	70	73	71	69	69	79
5	Inlet	57	65	69	73	74	73	66	59	79
	Outlet	66	70	71	73	74	73	66	59	80
	Radiated	51	61	60	61	64	62	60	60	70
6	Inlet	62	70	74	78	79	78	71	64	84
	Outlet	71	75	76	78	79	78	71	64	85
	Radiated	56	66	65	66	69	67	65	65	75
7	Inlet	61	69	73	77	78	77	70	63	83
	Outlet	70	74	75	77	78	77	70	63	83
	Radiated	55	65	64	65	68	66	64	64	73
8	Inlet	52	60	64	68	69	68	61	54	74
	Outlet	61	65	66	68	69	68	61	54	74
	Radiated	46	56	55	56	59	57	55	55	64
9	Inlet	57	65	69	73	74	73	66	59	79
	Outlet	66	70	71	73	74	73	66	59	79
	Radiated	51	61	60	61	64	62	60	60	69

CHARACTERISTIC AND ACOUSTIC CURVES

- q_v = Flow in m^3/h and m^3/s .
- p_{sf} = Static pressure in Pa.
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- Established following the code of motor extraction fan groups in boxes tests (ISO 5801).
- p_{dc} = Additional load loss in Pa in case of free discharge.



450	Curve	A	B	C	D	E	F	G	H	I
	r.p.m.	1180	1255	1330	1405	1480	1555	1630	1705	1780



500	Curve	A	B	C	D	E
	r.p.m.	1220	1345	1470	1595	1720

Working point	63	125	250	500	1000	2000	4000	8000	LwA	
1	Inlet	72	80	84	88	89	88	81	74	94
	Outlet	80	84	86	88	89	88	81	74	95
	Radiated	65	75	74	75	78	76	74	74	84
2	Inlet	64	72	76	80	81	80	73	66	86
	Outlet	72	76	78	80	81	80	73	66	87
	Radiated	57	67	66	67	70	68	66	66	76
3	Inlet	68	76	80	84	85	84	77	70	90
	Outlet	76	80	82	84	85	84	77	70	91
	Radiated	61	71	70	71	74	72	70	70	80
4	Inlet	67	75	79	83	84	83	76	69	89
	Outlet	75	79	81	83	84	83	76	69	90
	Radiated	60	70	69	70	73	71	69	69	79
5	Inlet	60	68	72	76	77	76	69	62	82
	Outlet	68	72	74	76	77	76	69	62	83
	Radiated	53	63	62	63	66	64	62	62	72
6	Inlet	64	72	76	80	81	80	73	66	86
	Outlet	72	76	78	80	81	80	73	66	87
	Radiated	57	67	66	67	70	68	66	66	76
7	Inlet	62	70	74	78	79	78	71	64	84
	Outlet	70	74	76	78	79	78	71	64	85
	Radiated	55	65	64	65	68	66	64	64	74
8	Inlet	55	63	67	71	72	71	64	57	77
	Outlet	63	67	69	71	72	71	64	57	78
	Radiated	48	58	57	58	61	59	57	57	67
9	Inlet	59	67	71	75	76	75	68	61	81
	Outlet	67	71	73	75	76	75	68	61	82
	Radiated	52	62	61	62	65	63	61	61	71

Working point	63	125	250	500	1000	2000	4000	8000	LwA	
1	Inlet	74	82	86	90	91	90	83	76	96
	Outlet	82	86	87	90	91	90	83	76	97
	Radiated	66	76	75	76	79	77	75	75	85
2	Inlet	68	76	80	84	85	84	77	70	90
	Outlet	76	80	81	84	85	84	77	70	91
	Radiated	60	70	69	70	73	71	69	69	79
3	Inlet	73	81	85	89	90	89	82	75	95
	Outlet	81	85	86	89	90	89	82	75	96
	Radiated	65	75	74	75	78	76	74	74	84
4	Inlet	71	79	83	87	88	87	80	73	93
	Outlet	79	83	84	87	88	87	80	73	94
	Radiated	63	73	72	73	76	74	72	72	82
5	Inlet	65	73	77	81	82	81	74	67	87
	Outlet	73	77	78	81	82	81	74	67	88
	Radiated	57	67	66	67	70	68	66	66	76
6	Inlet	71	79	83	87	88	87	80	73	93
	Outlet	79	83	84	87	88	87	80	73	94
	Radiated	62	72	71	72	75	73	71	71	81
7	Inlet	68	76	80	84	85	84	77	70	90
	Outlet	76	80	81	84	85	84	77	70	91
	Radiated	60	70	69	70	73	71	69	69	79
8	Inlet	60	68	72	76	77	76	69	62	82
	Outlet	68	72	73	76	77	76	69	62	83
	Radiated	52	62	61	62	65	63	61	61	71
9	Inlet	65	73	77	81	82	81	74	67	87
	Outlet	73	77	78	81	82	81	74	67	88
	Radiated	57	67	66	67	70	68	66	66	76