MPC...T

The cubical fan box for kitchen exhaust air

- Cubical, highly flexible fan box for different applications
- Suitable for medium temperatures up to 80 ºC
- Motors outside the air stream according to VDI 2052
- Variable outlet configuration (right/left/on top)

ErP 2013 ✓

Impeller: Backward curved radial impeller, sizes up to 500 made of steel sheet, welded, powder painted, sizes 560 and 630 made of aluminium sheet. The impellers are balanced in two planes according to quality standard G 6.3 (DIN ISO 1940).

Motor: All motors of the series correspond protection class IP 54. They are designed for voltage and frequency control according to the accessory allocation and they are separated from the medium air flow by a partition wall. If required, a motor protection shield can be ordered as accessory. The motors are protected against overload by a built-in thermostatic switch.

Casing: The double-skinned housing is made of galvanised steel sheet and equipped with a 35 mm insulation. The insulation is non-combustible according to DIN EN 13 501-1, building material class A1. The interior housing surfaces are smooth and the housing is provided with an integrated grease drain pan.

Assembly: In combination with a rain and a motor cover (available as accessories), the unit is also suitable for outdoor installation. Optional connection sleeves with double-lipped seals for direct tube connection are available.

Reliable for kitchen exhaust air:
The extract air box MPC…T is designed for greasy kitchen exhaust air with medium temperatures up to 80 ºC. The box enables three different outlet directions.

Low energy consumption through high efficiency rates: The used backward curved impeller provides two decisive advantages: It is resistant to soiling and achieves optimum efficiency rates. Thus, the exhaust air box MPC is suitable for heavy-duty operating conditions.

Easy installation and maintenance:
The MPC…T series is suitable for indoor and outdoor installation. A rain and a weather protection cover are available as accessories. The motor temperature is monitored by a built-in thermostatic switch. The permanently lubricated ball bearings are maintenance free.

Technical data

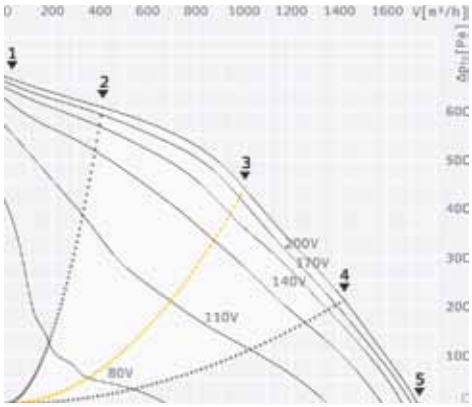
	U_N V	f_N Hz	I_{Max} A	P_N W	η_{st} %	η_t %	t_A ºC	IP motor	Motor protection	Insulation class	Motor control	Weight (kg)	Wiring diagram
A	230V ~	50	1,9	266	45	45	80	IP54	TAO	F	V	41,0	127819
B	230V ~	50	3,4	454	50	51	80	IP54	TAO	F	V	44,0	127819
C	230V ~	50	4,1	703	47	47	75	IP54	TAO	F	V	46,0	127819

Accessories

	TEM	TES	TEM...G	GS	MB MPC	WSH
A	103502	103954	111580	102787	116411	123431
B	103502	103954	111580	102787	116411	123431
C	103519	103955	109966	102787	116411	123431

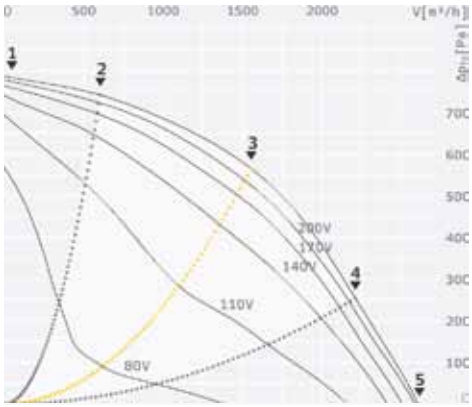
A MPC 225 E2 T20

ID 126609



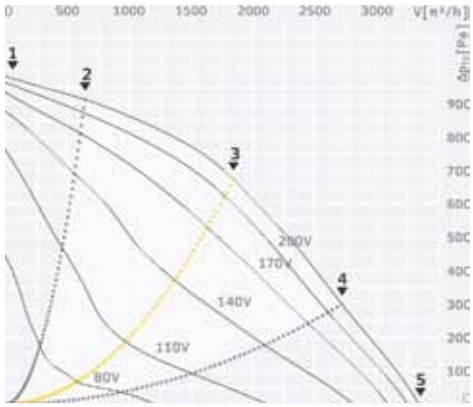
B MPC 250 E2 T20

ID 126679



C MPC 280 E2 T20

ID 126681



Operating data

		1	2	3	4	5
I	A	0.7	1	1.2	1.1	1
P_1	W	146	213	261	252	223
n	1/min	2932	2877	2848	2856	2880
L_{WA5}	dB(A)	74	73	71	74	78
L_{WA6}	dB(A)	77	75	75	78	80
L_{WA2}	dB(A)	71	69	67	69	71

		1	2	3	4	5
I	A	1	1.5	2	1.8	1.5
P_1	W	212	332	450	408	343
n	1/min	2943	2896	2850	2871	2895
L_{WA5}	dB(A)	76	77	77	80	83
L_{WA6}	dB(A)	82	80	79	83	85
L_{WA2}	dB(A)	73	73	73	73	75

		1	2	3	4	5
I	A	1.6	2.2	3.1	2.9	2.5
P_1	W	314	479	697	649	551
n	1/min	2904	2836	2738	2765	2815
L_{WA5}	dB(A)	83	81	80	82	85
L_{WA6}	dB(A)	84	82	82	86	88
L_{WA2}	dB(A)	79	78	75	76	77

Sound power [Operating point 3]

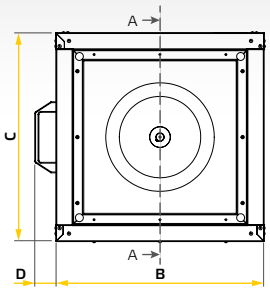
dB(A)	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	71	54	61	64	66	64	61	57
L_{WA6}	75	65	65	66	69	69	62	56
L_{WA2}	67	53	58	58	60	60	58	57

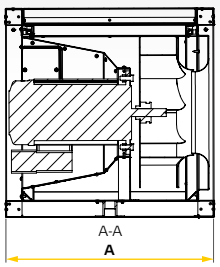
	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	77	57	67	71	70	70	68	63
L_{WA6}	79	56	70	71	74	74	70	65
L_{WA2}	73	57	60	66	68	67	65	60

	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	80	62	70	73	72	73	71	66
L_{WA6}	82	63	74	74	76	76	72	64
L_{WA2}	75	59	64	66	69	70	68	64

Dimensions

	A	B	C	D
	mm	mm	mm	mm
A	500	500	500	50
B	500	500	500	50
C	500	500	500	50



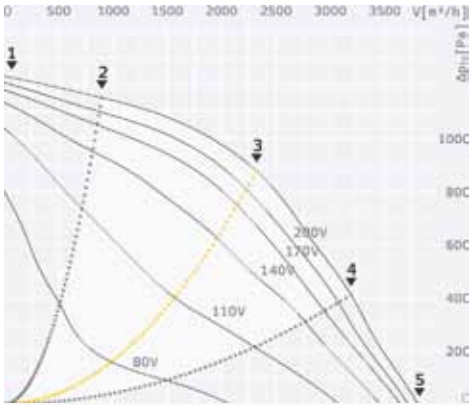


MPC...T

The cubical fan box for kitchen exhaust air

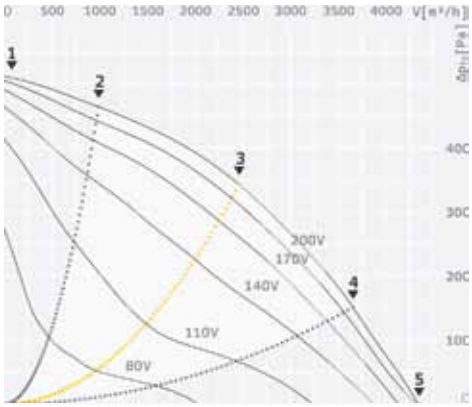
A MPC 315 E2 T20

ID 126621



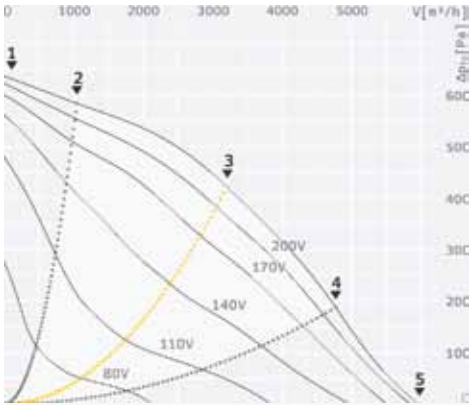
B MPC 400 E4 T20

ID 126623



C MPC 450 E4 T20

ID 126624



Operating data

		A 1	A 2	A 3	A 4	A 5	B 1	B 2	B 3	B 4	B 5	C 1	C 2	C 3	C 4	C 5
I	A	3.6	4.6	5.7	5.3	4.6	1.3	1.8	2.2	2	1.8	1.7	2.3	3.5	3.2	2.8
P_1	W	543	870	1171	1070	879	274	393	499	457	393	375	516	794	729	630
n	1/min	2930	2884	2833	2858	2889	1451	1411	1377	1394	1418	1445	1412	1348	1368	1395
L_{WA5}	dB(A)	85	85	84	86	89	72	72	73	75	79	76	76	76	80	83
L_{WA6}	dB(A)	87	87	87	90	91	76	76	75	80	83	80	79	79	82	86
L_{WA2}	dB(A)	80	80	78	78	80	66	65	64	66	68	70	70	70	72	74

Sound power [Operating point 3]

dB(A)	A Σ	A 125	A 250	A 500	A 1k	A 2k	A 4k	A 8k	B Σ	B 125	B 250	B 500	B 1k	B 2k	B 4k	B 8k	C Σ	C 125	C 250	C 500	C 1k	C 2k	C 4k	C 8k
L_{WA5}	84	66	77	78	77	77	75	70	73	65	64	68	66	64	60	56	76	69	67	71	70	67	62	61
L_{WA6}	87	65	82	78	81	80	76	69	75	62	63	70	71	67	63	61	79	68	68	74	75	71	66	57
L_{WA2}	78	63	68	70	73	70	68	65	64	55	54	55	58	57	56	51	70	63	60	64	64	60	56	58

Technical data

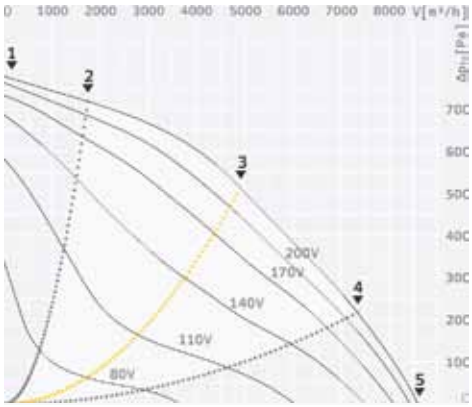
	U_N V	f_N Hz	I_{Max} A	P_N W	η_{st} %	η_t %	t_A °C	IP motor	Motor protection	Insulation class	Motor control	Weight (kg)	Wiring diagram
A	230V ~	50	7,5	1170	45	46	60	IP54	TAO	F	V	46,5	127819
B	230V ~	50	2,8	501	44	44	80	IP54	TAO	F	V	65,0	127819
C	230V ~	50	4,5	793	45	48	65	IP54	TAO	F	V	73,0	127819
D	230V ~	50	7,5	1312	50	50	45	IP54	TAO	F	V	120,9	127819
E	400V 3~	50	5,0	2390	57	58	80	IP54	TAO	F	Hz	115,0	122307
F	400V 3~	50	7,7	4077	54	54	60	IP54	TAO	F	Hz	114,0	122307

Accessories

	TEM	TDM	FU	GS	RD MPC	GR MPC
A	103511	-	-	102787	122544	123432
B	103502	-	-	102787	122544	123432
C	103519	-	-	102787	122544	123432
D	103507	-	-	102787	122551	123434
E	-	111557	124682	107633	122551	123434
F	-	-	121607	107633	122551	123434

D MPC 500 E4 T20

ID 126625



Operating data

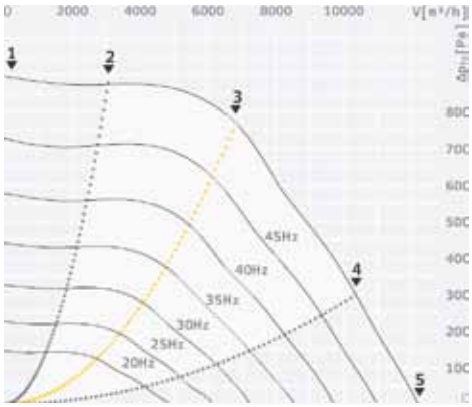
		1	2	3	4	5
I	A	2.9	4.2	5.8	5.2	4.3
P_1	W	592	938	1304	1159	950
n	1/min	1438	1407	1362	1387	1413
L_{WA5}	dB(A)	82	81	81	84	86
L_{WA6}	dB(A)	85	85	85	88	89
L_{WA2}	dB(A)	80	78	78	79	80

Sound power [Operating point 3]

dB(A)	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	81	70	72	73	79	71	65	61
L_{WA6}	85	69	74	78	83	73	67	59
L_{WA2}	78	68	65	70	76	60	56	57

E MPC 560 D4 TW3

ID 125312

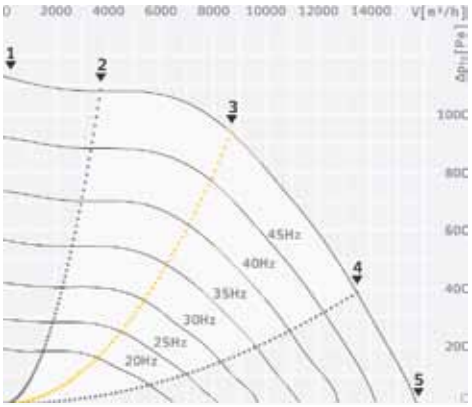


		1	2	3	4	5
I	A	3.5	4	4.7	4.3	3.9
P_1	W	1105	1761	2382	1996	1530
n	1/min	1471	1463	1451	1463	1470
L_{WA5}	dB(A)	85	84	83	87	89
L_{WA6}	dB(A)	88	87	85	90	91
L_{WA2}	dB(A)	77	77	78	80	81

dB(A)	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	83	73	80	75	74	72	68	64
L_{WA6}	85	73	79	80	79	75	71	66
L_{WA2}	78	72	70	69	68	62	67	70

F MPC 630 D4 TW3

ID 125314



		1	2	3	4	5
I	A	4.2	5.5	7.2	6.6	5.3
P_1	W	1806	2834	3975	3601	2752
n	1/min	1461	1438	1410	1430	1445
L_{WA5}	dB(A)	89	88	87	90	91
L_{WA6}	dB(A)	92	90	89	92	93
L_{WA2}	dB(A)	80	80	80	83	85

dB(A)	Σ	125	250	500	1k	2k	4k	8k
L_{WA5}	87	80	83	78	79	77	73	68
L_{WA6}	89	78	82	83	82	78	73	68
L_{WA2}	80	75	72	69	69	67	71	70

Dimensions

	A	B	C	D
	mm	mm	mm	mm
A	500	500	500	50
B	700	700	700	50
C	700	700	700	50
D	900	900	900	50
E	900	900	900	52
F	900	900	900	52