- Insulated fan boxes
- Kitchen exhaust, air temperature up to 80degC

Insulated fan box type KBF-N

Acoustically 30mm insulated centrifugal fan box with motor separated from the air stream allowing use as a kitchen exhaust fan.

Application

- The **KBF-N** series of fans are suitable for many ducted ventilation system applications, including the ventilation of factories, offices, restaurants, etc.
- Exhaust fan for kitchens, max air temperature up to 80°C

Fan

- Backward curved centrifugal fan

Motor

- Separated from air stream
- Supply: 400Vac 3ph
- Insulation class F – Protection class IP54
- Integrated thermal contact

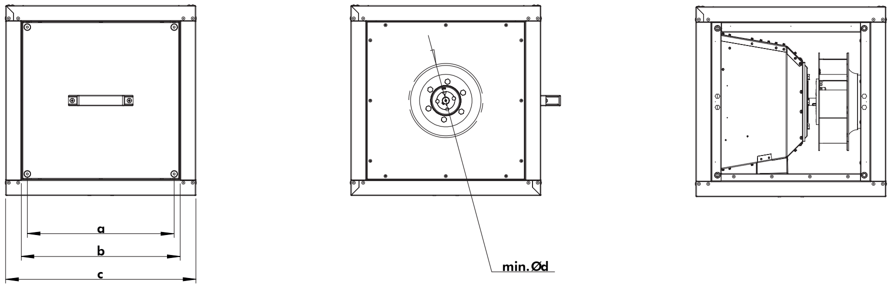
Order example

- **KBF-N 560 D4**

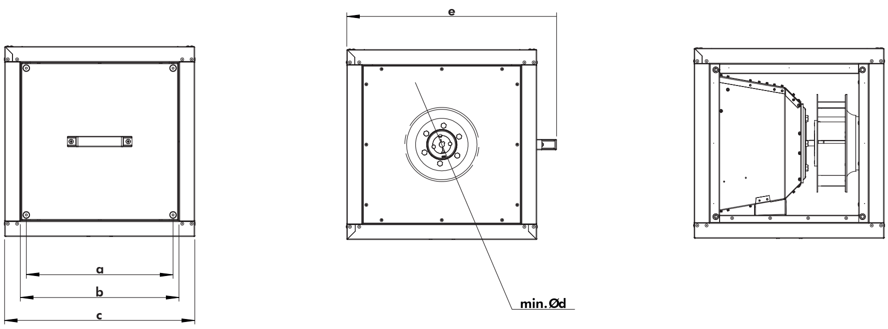
Explanation :
KBF-N = Fan type
560 = Flange size [mm]
D = Three phase - 400Vac
4 = 4 pole

Technical data

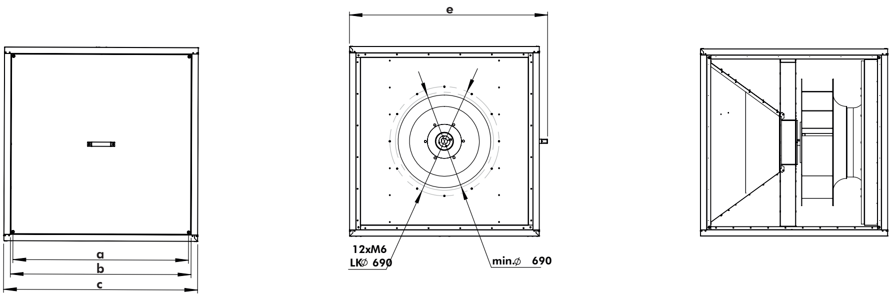
Model KBF-N		225 E2 T21	225 D2 T40	250 D2 T40	280 D2 T40	315 D2 T40	315 D4 T40	355 D4 T40	400 D4 T40	450 D4 T40	500 D4 T40	560 D4 T40	630 D4 T40	710 D6 T40	800 D6 T40
Rated current	A	1.3	0.8	1.1	1.2	2.3	1.1	1.3	1	2.3	2.7	4.7	8.3	6.7	9.4
Max. static efficiency	%	41	44.5	44.3	44.4	48.6	43.6	52.9	50.5	53.1	51.5	55.9	55.8	60.7	57.6
Max. total efficiency	%	41.3	44.7	44.6	44.8	49.5	44.1	53.2	50.9	53.7	52.2	56.6	56.6	66	58.1
Max. allowed frequency (3-phase motors)	Hz	-	60	60	50	50	80	70	50	55	50	50	50	50	50
Max. allowed RPM (with EC motors)	RPM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. power consumption	W	285	440	692	686	1280	658	793	564	1226	1440	2661	4325	2761	4772
Max. current consumption	A	2.1	0.9	1.2	1.3	2.5	1.1	1.4	1.1	2.5	2.9	5	8.8	7	9.9
Max. speed	RPM	2920	3520	3490	2920	2950	2360	2060	1470	1630	1485	1470	1480	990	990
Max. air volume	m^3/h	1740	2010	2630	2830	4115	3300	4590	4840	7125	8090	13060	17540	19550	22610
Min. pressure	Pa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. pressure	Pa	660	940	1130	980	1270	810	810	505	810	840	1040	1330	735	920
Max. allowed medium temperature	°C	80	120	120	120	120	120	120	120	120	120	120	120	120	120
Blocked current	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Min. allowed voltage	V	110	-	-	-	-	-	-	-	-	-	-	-	-	-
Weight	kg	35.9	35	35	36	41	40	63	65	73	75	127	140	235	241
SPL casing break out L_{WA2} (at point 3 on graph)	dB(A)	67	73	73	73	75	68	76	69	73	77	76	79	70	77



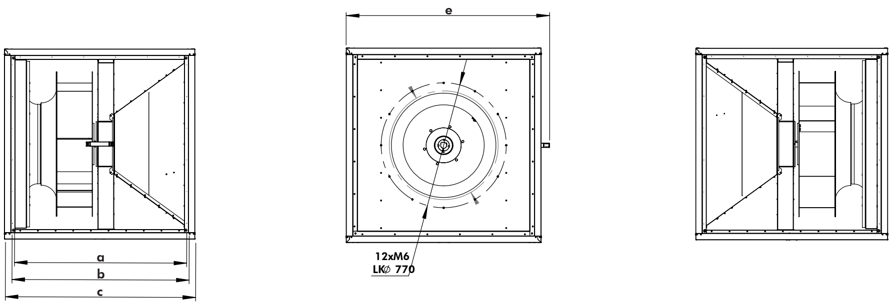
■ KBF -N 225 E2 T21



■ KBF -N 225 D2 T40 - KBF -N 630 D4 T40



■ KBF -N 710 D6 T40

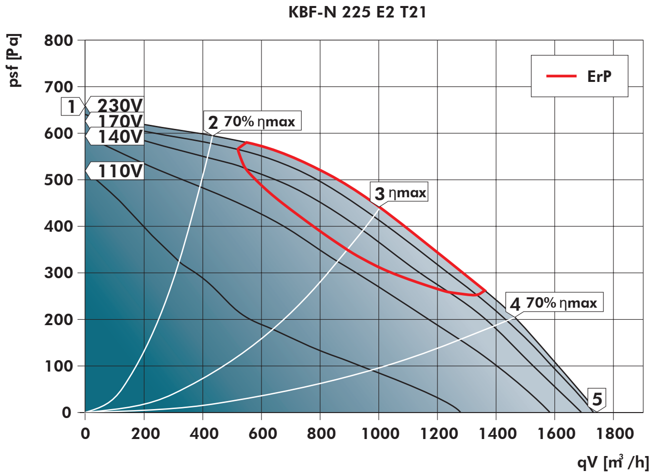


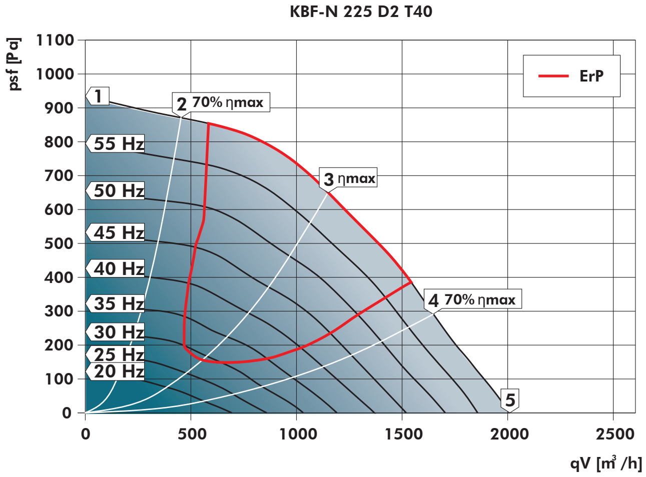
■ KBF -N 800 D6 T40

Dimensions					
	a	b	c	Ød	e
KBF-N 225 E2 T21	386	417	500	195	-
KBF-N 225 D2 T40	386	417	500	195	552
KBF-N 250 D2 T40	386	417	500	220	552
KBF-N 280 D2 T40	386	417	500	240	552
KBF-N 315 D2 T40	386	417	500	270	552
KBF-N 315 D4 T40	386	417	500	270	552
KBF-N 355 D4 T40	586	617	700	300	752
KBF-N 400 D4 T40	586	617	700	340	752
KBF-N 450 D4 T40	586	617	700	385	752
KBF-N 500 D4 T40	586	617	700	430	752
KBF-N 560 D4 T40	786	817	900	465	952
KBF-N 630 D4 T40	786	817	900	520	952
KBF-N 710 D6 T40	1086	1117	1200	620	1252
KBF-N 800 D6 T40	1086	1117	1200	670	1252

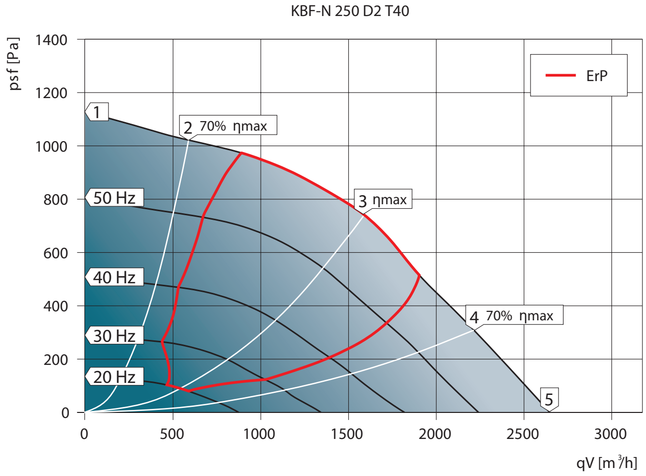
U$_N$/f$_N$ = Nominal voltage / frequency in [V/Hz]
I$_{Max}$ = Maximum current in [A]
P$_N$ = Nominal motor power in [W]
t$_A$ = Ambient temperature in [^{o}C]
IP/Class = Degree of motor protection / insulation class
Controller = Type of controller to be used : Voltage or Frequency
W = Weight in [kg]
L$_{WA2}$ = Casing sound power level in [db(A)]
L$_{WA5}$ = Inlet sound power level in [db(A)]
L$_{WA6}$ = Outlet sound power level in [db(A)]

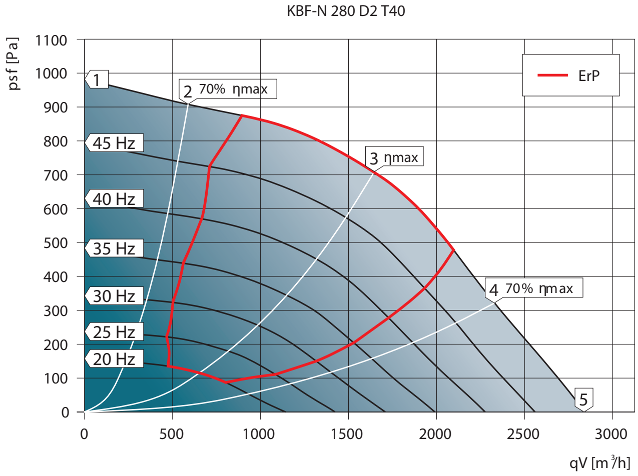
Air performance data

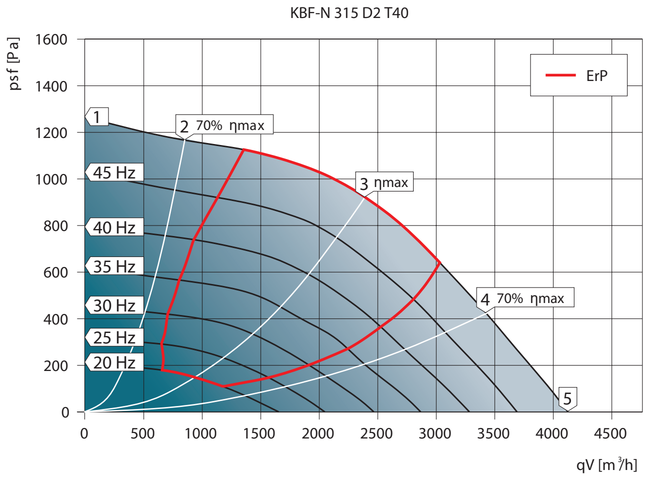


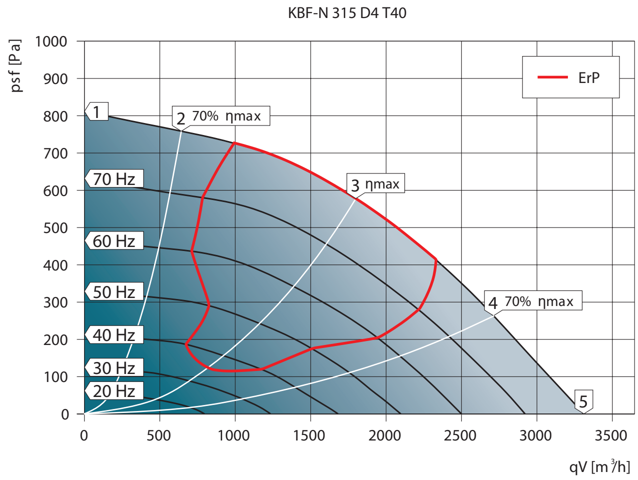


Air performance data



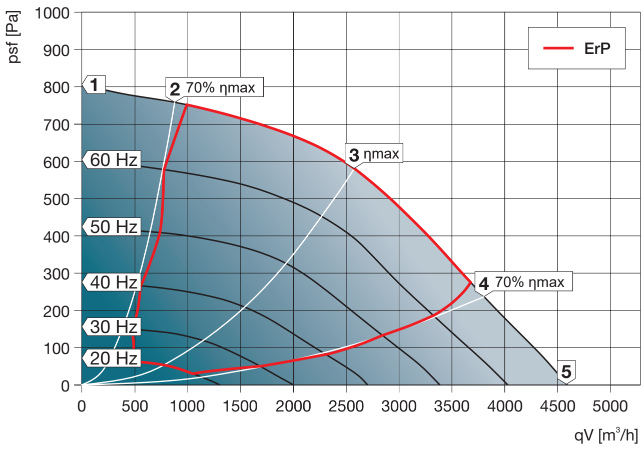




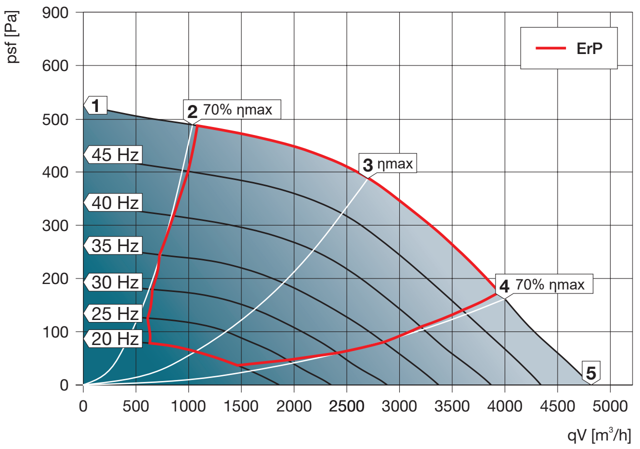


Air performance data

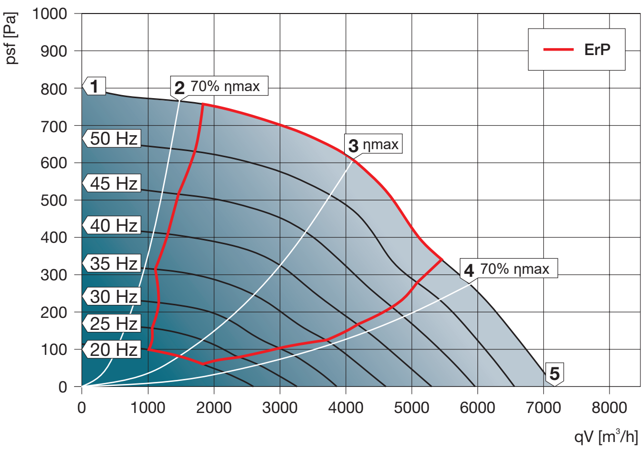
KBF-N 355 D4 T40



KBF-N 400 D4 T40



KBF-N 450 D4 T40



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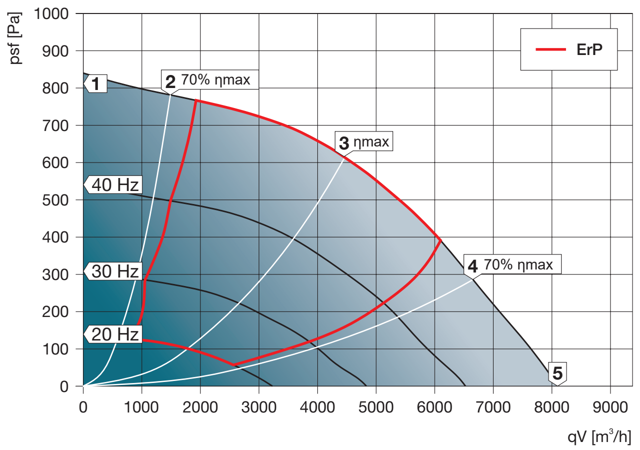

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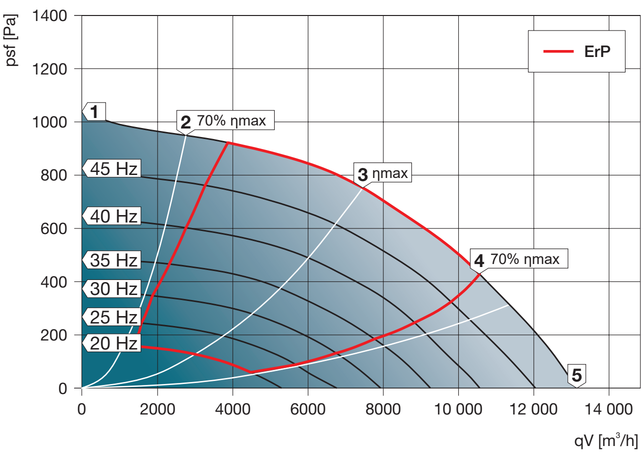
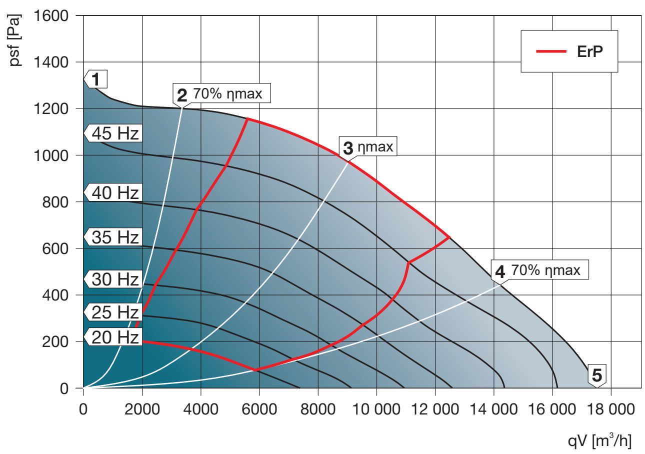
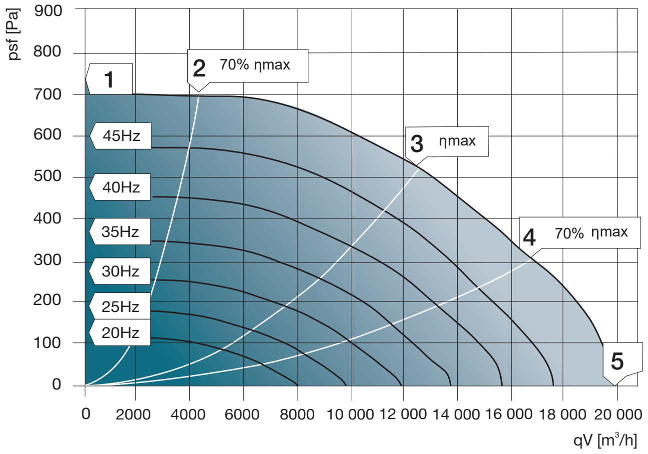


KBF-N 630 D4 T40



Air performance data

KBF-N 710 D6 T40



KBF-N 800 D6 T40