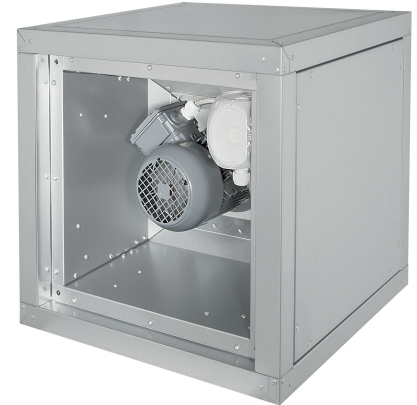
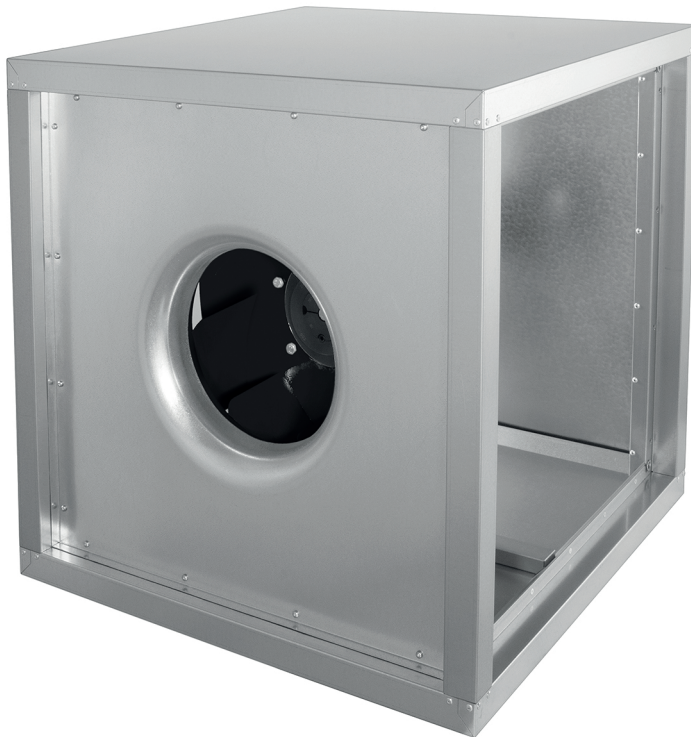


- Isolated fan casing
- Extractionfan for hood



## Frequention regulation simple suction centrifugal boxfans for hoods type KBF-N D T

Frequention regulation simple suction centrifugal boxfans with motor outside of the airflow

### Application

- Used for extraction of industrial hoods and industrial exhaust systems up untail 17540 m<sup>3</sup>/h

### Composition

- Double walled galvanized casing with removable panels and lever included for:
  - Simple inspection of the engine
  - Change of discharge direction (left or up), standard version : right
- 30mm isolation with fireclass A1 according to DIN 4102-1
- Round and square intake, square outlet
- Condensation and grease draining
- Voltage : 3ph 400Vac (**Type D** - frequention regulation engine)
- Engine outside airflow (**type T**) – Engineside standard opened (to be equipped with engine protectionplate **MB KBF** or variant)
- Turbine with backwards curved blades
- Isolation class F
- Protecting class engine: IP54

### Accessories

- Panel with round connection for KBF, type **USM**
- Roof tile for KBF-N, type **RD KBF**
- Rain hood with grill for KBF-N, type **WSH KBF**
- Engine protection plate for KBF-N, type **MB KBF**
- Base frame for KBF-N, type **GR KBF**
- Round/square transition pieces, type **RV**
- Fitting clamp, type **BMK**
- Frequention regulator 3x400V, type **FIS(-C)-44-B**

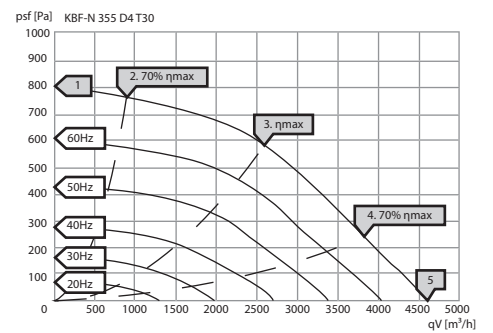
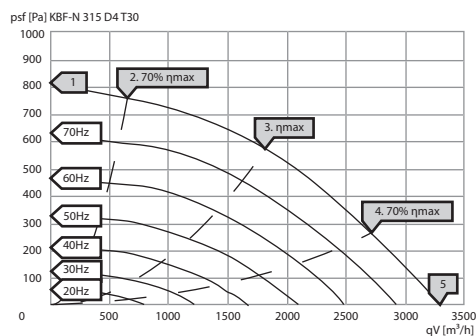
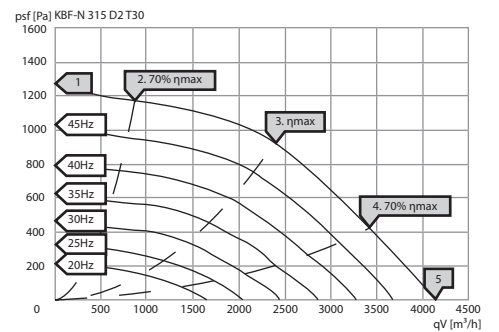
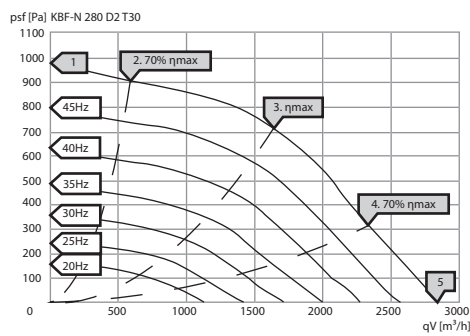
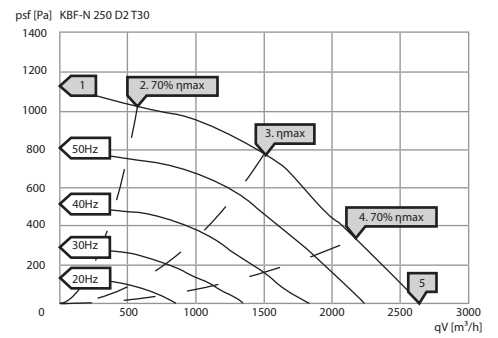
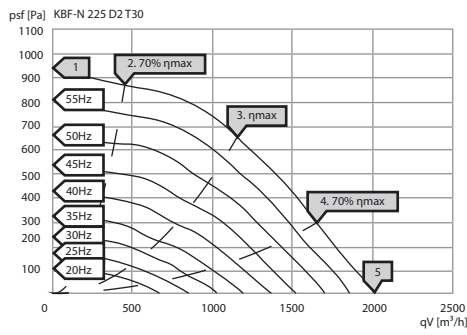
### Alternative products

- Simple suction centrifugal boxfans for hoods, type **KBF-N EC T**
- Plug&play compensation- and pulsionsgroups for kitchen application, type **EVENTYS 5**

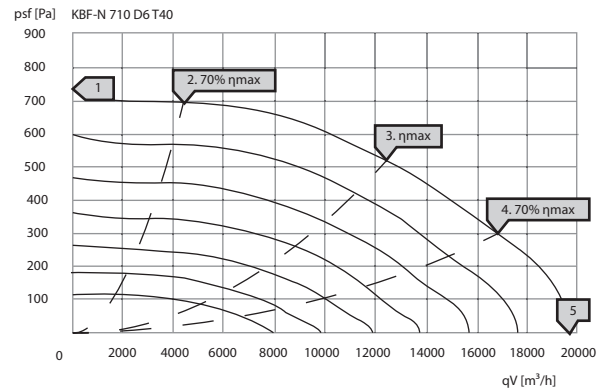
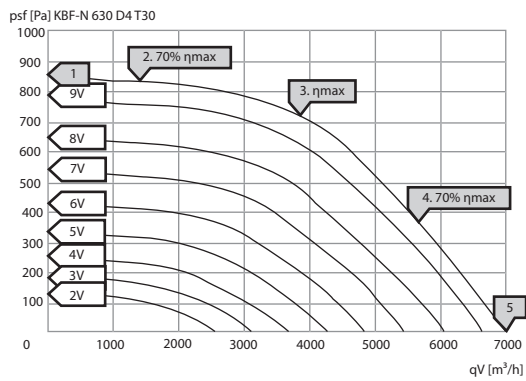
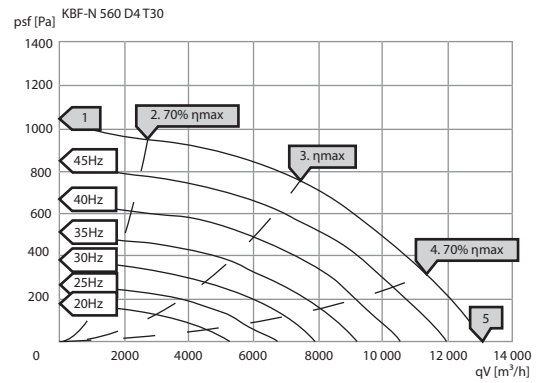
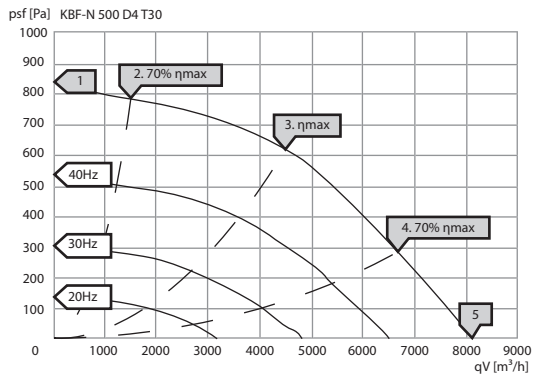
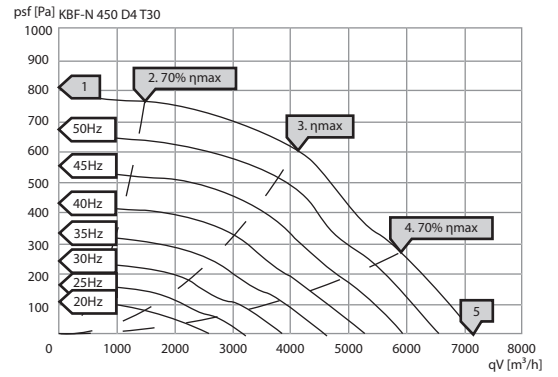
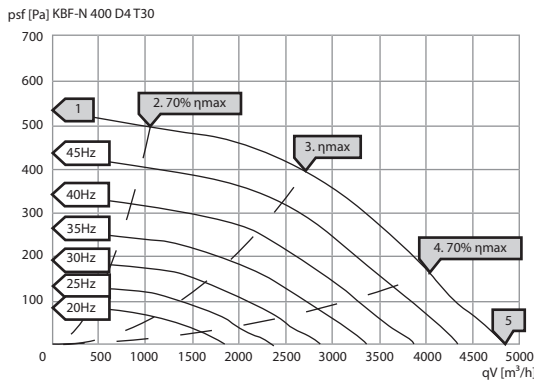
**Order example**■ **KBF-N 225 D2 T30 + FIS-44***Explanation:***KBF-N** = Type of fan**D** = Type motor (frequency controlled)**2** = number of poles**T** = motor outside of airflow**30** = version**FIS-44** = frequency controller

	Air performance data											
	Q (m <sup>3</sup> /h)											
	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa	1000 Pa	1100 Pa	1200 Pa
KBF-N 225 D2 T40	1889	1755	1639	1529	1394	1234	1077	858	-	-	-	-
KBF-N 250 D2 T40	2502	2362	2223	2073	1918	1792	1663	1459	1179	730	-	-
KBF-N 280 D2 T40	2688	2525	2359	2207	2061	1895	1669	1341	664	-	-	-
KBF-N 315 D2 T40	3970	3801	3631	3464	3289	3108	2916	2707	2466	2148	1615	553
KBF-N 315 D4 T40	3081	2854	2627	2369	2070	1712	1223	-	-	-	-	-
KBF-N 355 D4 T40	4291	3938	3611	3292	2940	2513	1748	-	-	-	-	-
KBF-N 400 D4 T40	4304	3871	3342	2684	941	-	-	-	-	-	-	-
KBF-N 450 D4 T40	6713	6260	5711	5083	4706	4158	3008	-	-	-	-	-
KBF-N 500 D4 T40	7651	7115	6591	6066	5424	4663	3512	1053	-	-	-	-
KBF-N 560 D4 T40	12642	12085	11416	10737	10022	9114	8071	6891	4648	775	-	-
KBF-N 630 D4 T40	17109	16460	15605	14635	13740	12953	12045	10971	9961	8788	7220	933
KBF-N 710 D6 T40	19366	18438	16843	14931	13002	10246	2450	-	-	-	-	-
KBF-N 800 D6 T40	21884	20372	19340	18375	17329	16154	14446	11709	-	-	-	-

**Selection curves**

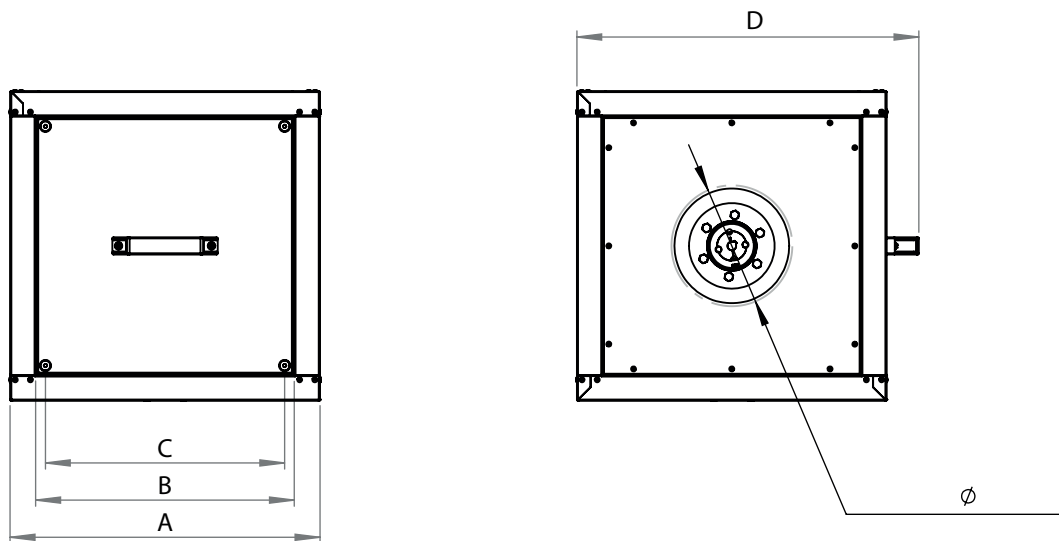


**Selection Curves**

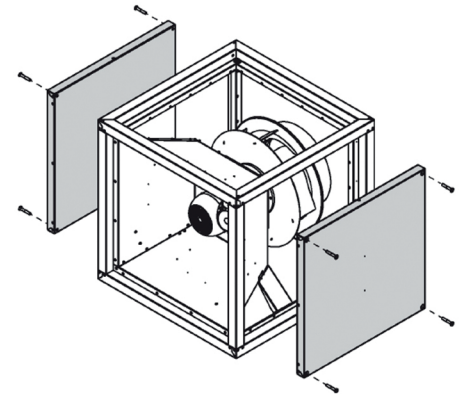
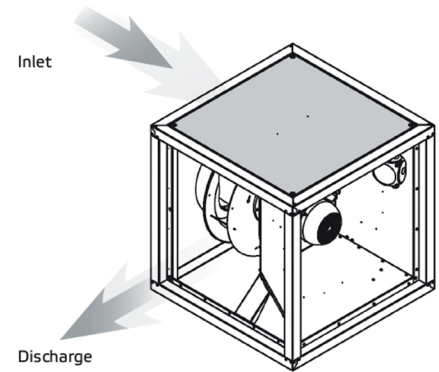


Technical data												
	U [V]	P [W]	I [A]	SC <sub>F</sub>	η <sub>t</sub> [%]	T <sub>m</sub> [°C]	T <sub>u</sub> [°C]	T <sub>o</sub> [°C]	n [rpm]	Lwa [dB(A)]		
										Lwa 5	Lwa 6	Lwa 2
KBF-N 225 D2 T40	3x400V	440	0,9	FIS-4420E-0.75-B	40,2	120	60	-20	3520	85	88	75
KBF-N 250 D2 T40	3x400V	692	1,2	FIS-4420E-0.75-B	44,4	120	60	-20	3490	88	89	75
KBF-N 280 D2 T40	3x400V	686	1,3	FIS-4420E-0.75-B	44,8	120	60	-20	2920	88	91	77
KBF-N 315 D2 T40	3x400V	1208	2,5	FIS-4420E-1.5-B	49,5	120	60	-20	2950	90	93	79
KBF-N 315 D4 T40	3x400V	221	1,1	FIS-4420E-0.75-B	44,1	120	60	-20	2360	83	86	70
KBF-N 355 D4 T40	3x400V	338	1,4	FIS-4420E-0.75-B	53,2	120	60	-20	2060	86	89	80
KBF-N 400 D4 T40	3x400V	564	1,1	FIS-4420E-0.75-B	50,9	120	60	-20	1470	80	82	70
KBF-N 450 D4 T40	3x400V	967	2,5	FIS-4420E-1.5-B	53,7	120	60	-20	1630	87	90	77
KBF-N 500 D4 T40	3x400V	1440	2,9	FIS-4420E-1.5-B	52,2	120	60	-20	1485	90	90	81
KBF-N 560 D4 T40	3x400V	1470	5	FIS-4420E-2.2-B	56,6	120	60	-20	1470	91	93	79
KBF-N 630 D4 T40	3x400V	4325	8,8	FIS-4420E-5.5-B	56,6	120	60	-20	1480	93	98	84
KBF-N 710 D6 T40	3x400V	2761	7	FIS-4420E-4.0-B	66	120	60	-20	990	87	90	76
KBF-N 800 D6 T40	3x400V	4772	9,9	FIS-4420E-5.5-B	58,1	120	60	-20	990	87	90	76

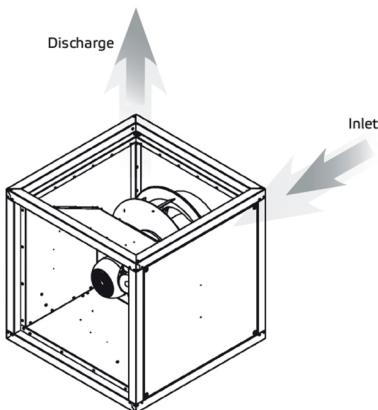
- SC<sub>F</sub> = Frequency converter
- η<sub>t</sub> = Maximum total return
- T<sub>m</sub> = Maximum airtemperature
- T<sub>u</sub> = Maximum casing temperature
- T<sub>o</sub> = Minimum working temperature
- Lwa 2 = Casing sound power level
- Lwa 5 = Sound power level @inlet
- Lwa 6 = Sound power level @outlet
- The sound power levels are measured according to DIN 45635 part 2 & 38



# A discharge right (standard)



# B discharge top





Dimensions						
	A [mm]	B [mm]	C [mm]	D [mm]	Ø [mm]	Kg
KBF-N 225 D2 T40	500	417	386	552	min. 195	35
KBF-N 250 D2 T40	500	417	386	552	min. 220	35
KBF-N 280 D2 T40	500	417	386	552	min. 240	36
KBF-N 315 D2 T40	500	417	386	552	min. 270	41
KBF-N 315 D4 T40	500	417	386	552	min. 270	40
KBF-N 355 D4 T40	700	617	586	752	min. 300	63
KBF-N 400 D4 T40	700	617	586	752	min. 340	65
KBF-N 450 D4 T40	700	617	586	752	min. 385	73
KBF-N 500 D4 T40	700	617	586	752	min. 430	75
KBF-N 560 D4 T40	900	817	786	952	min. 465	127
KBF-N 630 D4 T40	900	817	786	952	min. 520	140
KBF-N 710 D6 T40	1200	1117	1086	1252	min. 620	235
KBF-N 800 D6 T40	1200	1117	1086	1252	min. 670	235