

- Roof fans AC motor
- Vertical discharge
- Motor out of air stream
- 120°C



Roof exhaust units type KRFI-SN

Roof fan with vertical discharge and acoustic insulation (40 mm)

Application

- These fans are used for ventilation of industrial kitchens and for air extraction up to 120°C

Composition

- Casing made out of AlMg3 aluminium that is resistant to seawater with protection grille.
- 40 mm insulation with fire class A1 according to DIN 4102-1
- Turbine with backward curved impeller with blades that are made of galvanised steel plate up to type 280 and of aluminium for all other types, balanced G6.3 according to DIN ISO 1940.
- External rotor motor with speed control and overheat protection to be cabled by third parties (up to and including KRFI-SN 250 E2 30)
- Voltage: 230 Vac, 1 ph and 400 Vac 3 ph. (type D)
- Swivel motor compartment.
- Insulation class F
- Motor protection class:
 - KRFI-SN 225 E2 30 - KRFI-SN 280 E2 30: IP54
 - KRFI-SN 280 D2 30 - KRFI-SN 710 D6 30: IP55
- Security switch
- Equipped with integrated drain pan and evacuation.

Accessories

- Acoustically insulated roof socket, type **RAC-I**
- Roof socket, type **RC-I**
- Adapter plate, type **RAP**
- Backdraught shutter, type **RAS**
- Matching flange, type **RIF**
- Flexible connector, type **RFC**
- Transformer controller with 5 steps, type **TSCTK-1**
- Frequency converter 3x400V in / 3x400V out, type **FIS(-C)-13-B**
- Frequency converter 3x400V in / 3x400V out, type **FIS(-C)-44-B**

Order example■ **KRFI-SN 400 E4 30**

KRFI-SN = Type of fan

400 = Size

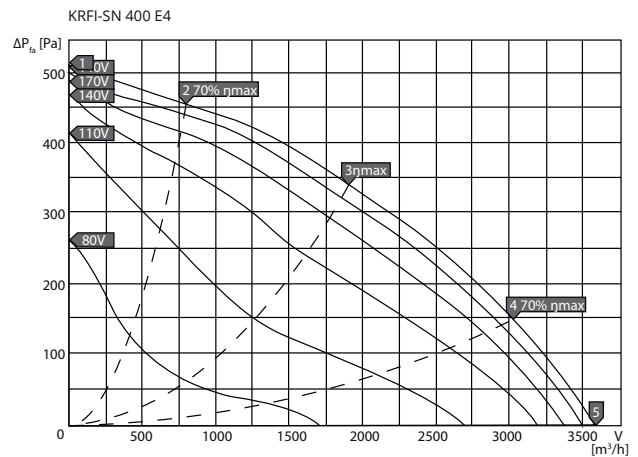
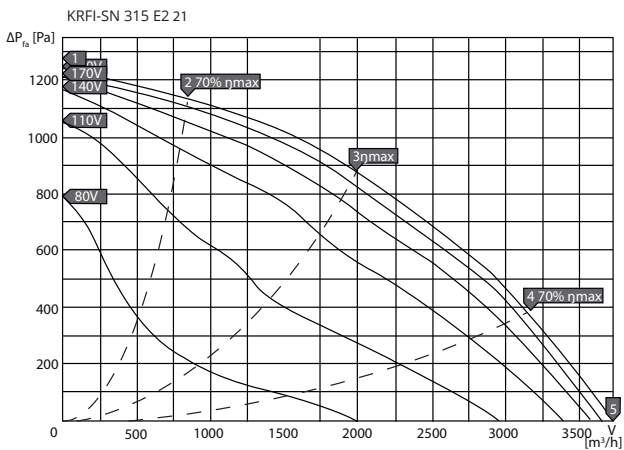
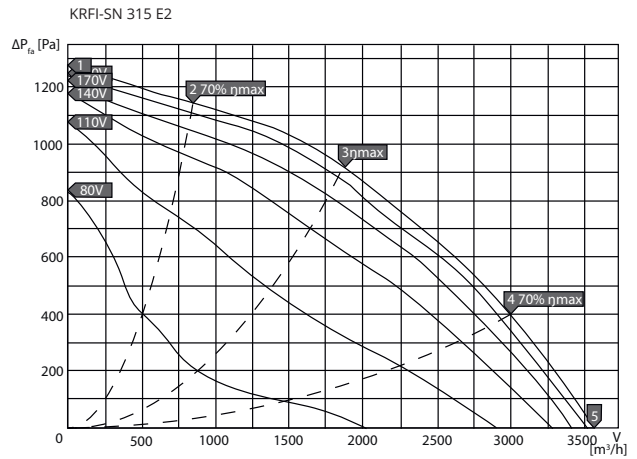
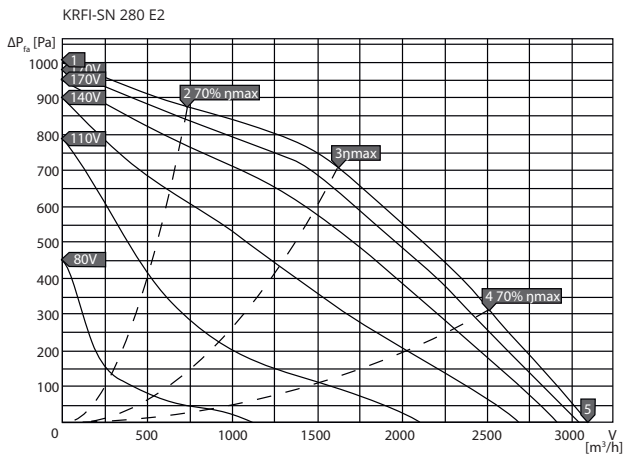
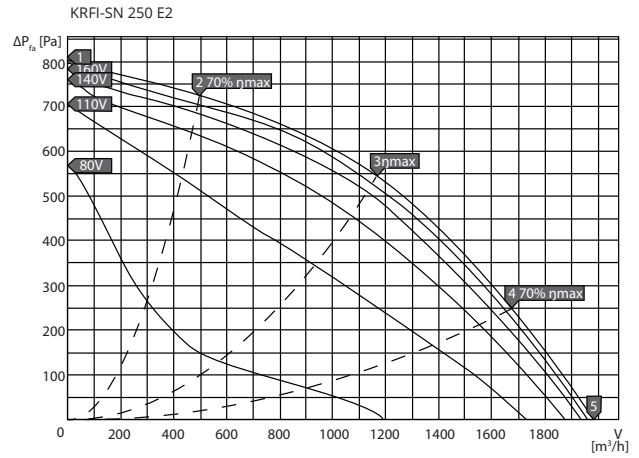
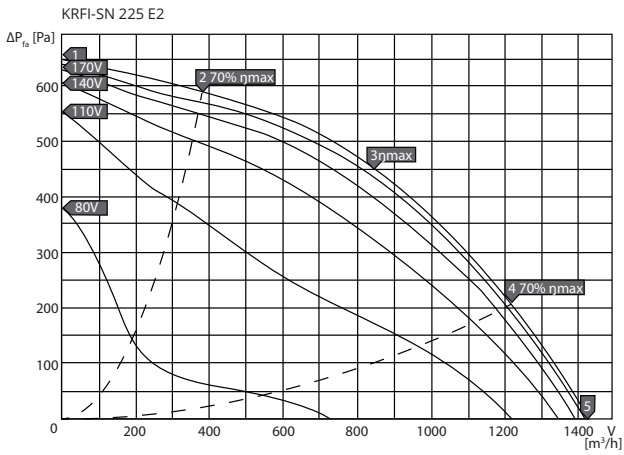
E = 1x230V

4 = Number of poles

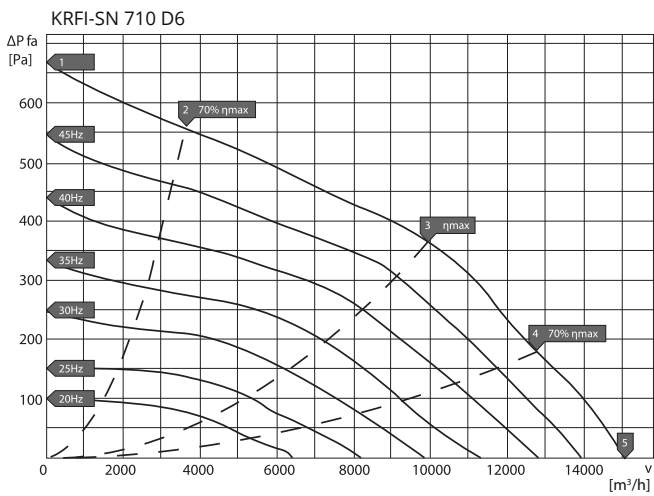
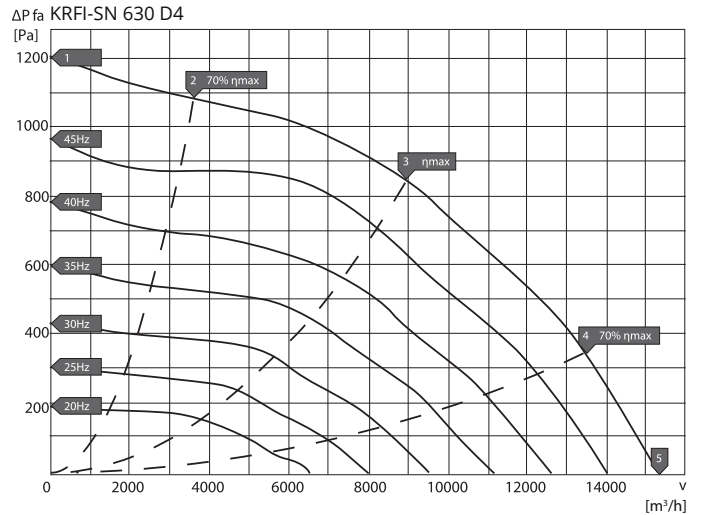
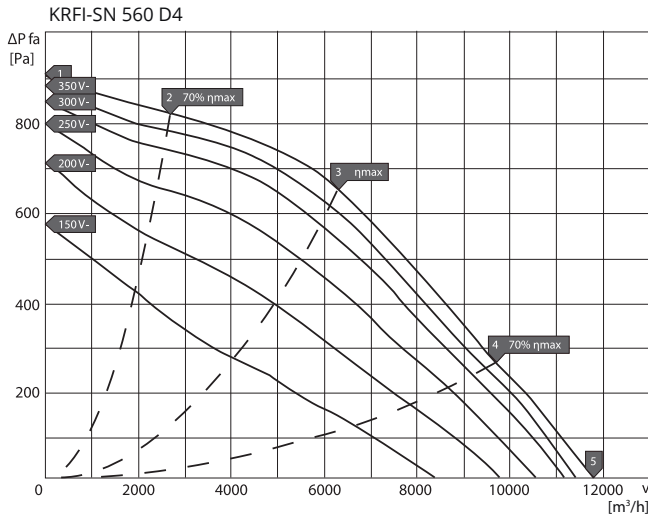
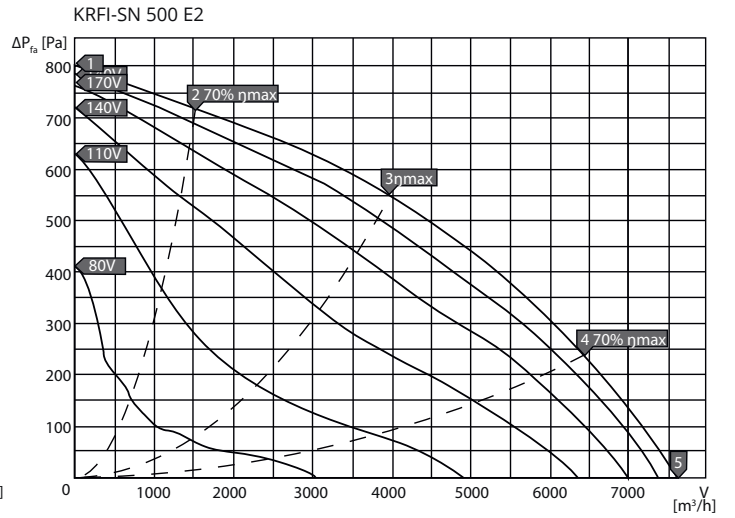
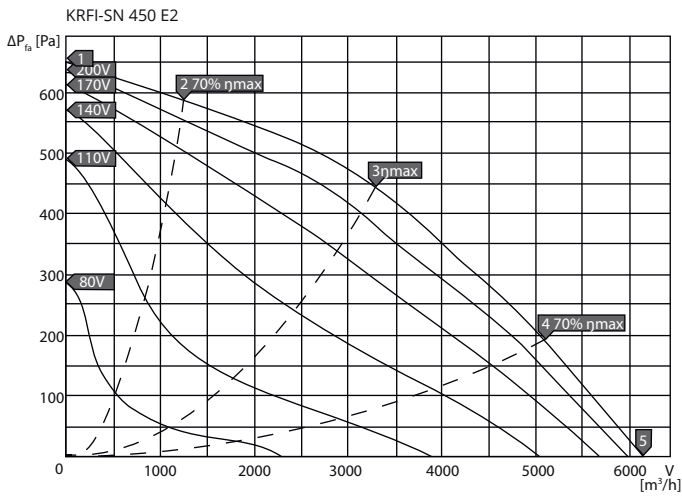
30 = Version

	Air performance data									
	Q [m ³ /h]									
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	700Pa
KRFI-SN 225 E2 30	1666	1594	1516	1440	1370	1302	1126	877	407	-
KRFI-SN 250 E2 30	2107	2046	1983	1920	1856	1788	1628	1405	1172	846
KRFI-SN 280 D2 30	2640	2570	2500	2425	2375	2300	2150	1980	1775	1500
KRFI-SN 315 D4 30	2900	2825	2750	2675	2600	2500	2275	2000	1675	1300
KRFI-SN 355 D4 30	4000	3875	3725	3575	3450	3325	3050	2675	2250	1650
KRFI-SN 400 D4 30	3800	3625	3475	3300	3050	2800	2220	-	-	-
KRFI-SN 450 D4 30	6680	6440	6225	6050	5830	5650	5200	4750	4100	3325
KRFI-SN 500 D4 30	7650	7400	7150	6900	6640	6400	5900	5360	4630	3580
KRFI-SN 560 D4 30	11481	11082	10646	10202	9754	9341	8557	7656	6747	5610
KRFI-SN 630 D4 30	15092	14840	14573	14284	14013	13731	13122	12337	11397	10486
KRFI-SN 710 D6 30	18542	18299	17866	17268	16528	15707	14010	12254	9684	5659

Selection curves

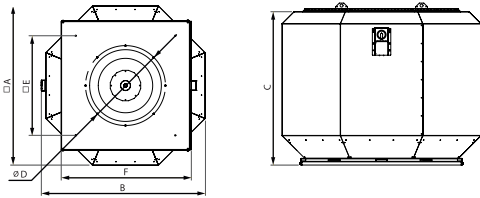


Selection curves



Technical data												
	U [V]	P [W]	I [A]	SC	η_T [%]	t_m [°C]	t_u [°C]	T_o [°C]	n [rpm]	Lwa [dB(A)]		
										Lwa 5	Lwa 6	Lwa 2
KRFI-SN 225 E2 30	1 x 230	273	2.06	TSCTK-1-30	46	120	80	-25	2850	78	76	-
KRFI-SN 250 E2 30	1 x 230	437	3.3	TSCTK-1-40	45.5	120	80	-25	2860	83	81	-
KRFI-SN 280 D2 30	3 x 400	627	1.13	FIS-4420E-0.75-B	46.2	120	50	-20	2920	86	87	-
KRFI-SN 315 D4 30	3 x 400	202	1.04	FIS-4420E-0.75-B	36.6	120	50	-20	2360	83	83	-
KRFI-SN 355 D4 30	3 x 400	312	1.25	FIS-4420E-0.75-B	46.6	120	50	-20	2060	81	82	-
KRFI-SN 400 D4 30	3 x 400	492	1	FIS-4420E-0.75-B	48.1	120	50	-20	1480	80	78	-
KRFI-SN 450 D4 30	3 x 400	901	2.3	FIS-4420E-1.5-B	57.2	120	50	-20	1640	84	84	-
KRFI-SN 500 D4 30	3 x 400	1342	2.7	FIS-4420E-1.5-B	55.2	120	50	-20	1485	84	85	-
KRFI-SN 560 D4 30	3 x 400	2420	4.7	FIS-4420E-2.2-B	58.2	120	50	-25	1440	88	89	-
KRFI-SN 630 D4 30	3 x 400	4115	8.5	FIS-4420E-4.0-B	54.9	120	40	-25	1455	95	94	-
KRFI-SN 710 D6 30	3 x 400	2768	6.9	FIS-4420E-4.0-B	59.45	120	50	-25	980	86	87	-

- SC = Speed controller
- η_T = Maximum total efficiency
- T_m = Maximum air temperature
- T_u = Maximum ambient temperature
- T_o = Minimum operating 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



Dimensions							
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	[kg]
KRFI-SN 225 E2	489	527	493	213	245	357	30.5
KRFI-SN 250 E2	489	527	493	213	245	357	33
KRFI-SN 280 D2	651	653	512	286	330	464	45.9
KRFI-SN 315 D4	651	655	512	286	330	451	48.7
KRFI-SN 355 D4	804	-	565	438	450	625	66.9
KRFI-SN 400 D4	804	-	565	438	450	625	62.8
KRFI-SN 450 D4	984	-	737	438	535	683	103.4
KRFI-SN 500 D4	984	-	737	438	535	683	92
KRFI-SN 560 D4	1075	1113	969	605	750	928	152
KRFI-SN 630 D4	1075	1113	969	605	750	928	163
KRFI-SN 710 D6	1525	-	1003	605	840	1083	270