

**KRFI-SN F4**

- Roof fans AC motor
- Vertical discharge
- Motor out of air stream
- 400°C/2h / 200°C



## Insulated roof fans 400°C/2h with vertical discharge type KRFI-SN F4

Roof fan with vertical discharge and acoustic insulation (40 mm) for smoke exhaust 400°C/2h

### Application

- Smoke extraction 400°C/2h up to 18.500 m<sup>3</sup>/h
- Extraction of air up to 200°C
- Extraction in industrial kitchens

### 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.
- Outer pole motor with maintenance-free ball bearings
- Voltage: 400 Vac 3 ph
- Swivel motor compartment
- Insulation class F
- Motor protection class: IP55
- Integrated 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 F400, type **RAS F4**
- Flexible connector F400, type **RFC F4**
- Matching flange, type **RIF**
- Frequency converter 3x400V, type **FIS(C-)-44-B**

**Order example**■ **KRFI-SN 400 D4 F4 30**

KRFI-SN = Type of fan

400 = Size

D = Controllable with frequency converter

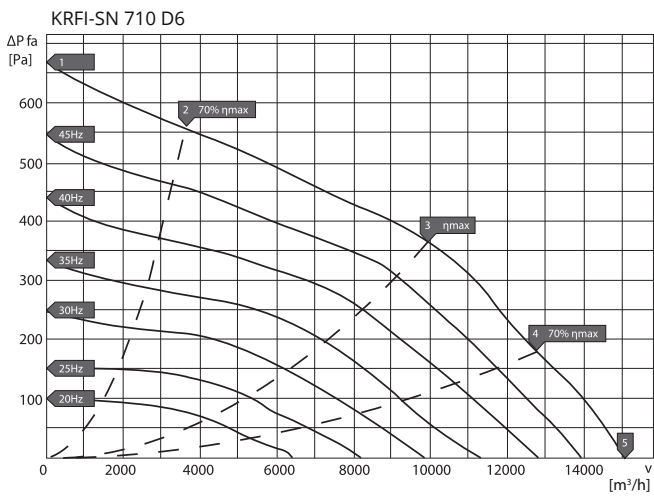
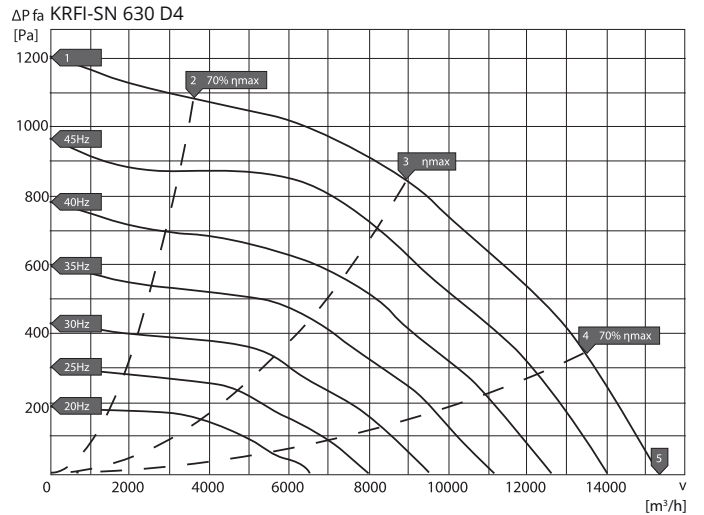
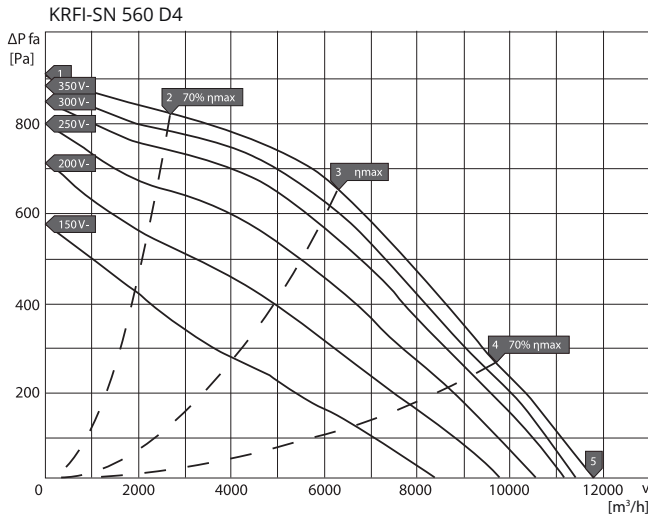
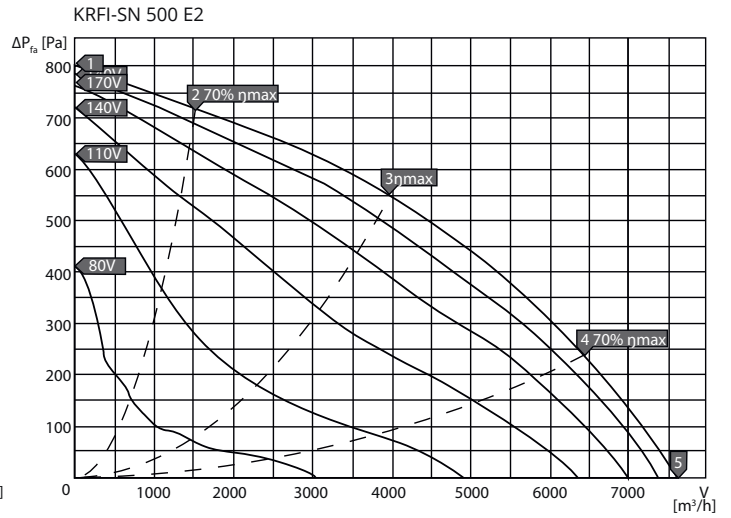
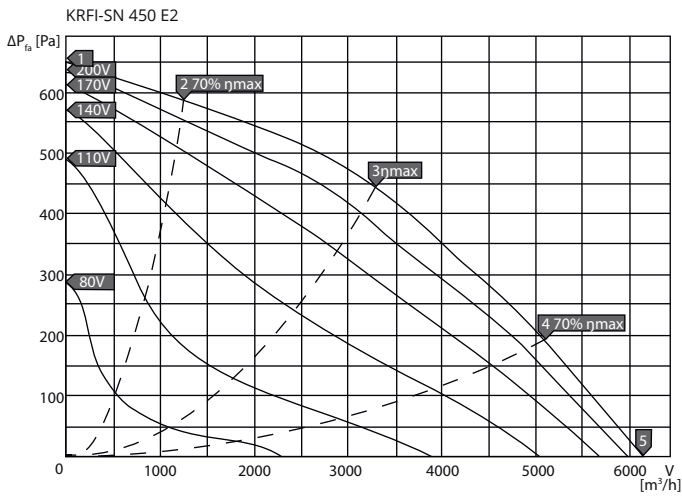
4 = Number of poles

F4 = Suitable for smoke exhaust 400°C/2h

30 = Version

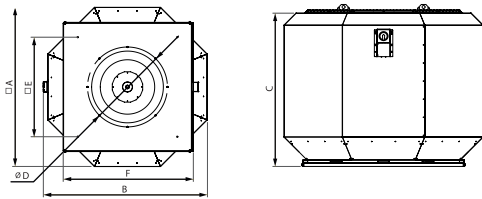
	Air performance data												
	Q [m <sup>3</sup> /h]												
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	700Pa	800Pa	900Pa	1000Pa
KRFI-SN 225 D2 F4 30	1820	1770	1715	1660	1610	1555	1445	1315	1165	1020	845	480	480
KRFI-SN 250 D2 F4 30	2290	2240	2195	2140	2080	2020	1910	1790	1640	1470	1300	1100	812
KRFI-SN 280 D2 F4 30	2650	2595	2525	2450	2380	2300	2160	1980	1775	1520	1185	710	-
KRFI-SN 315 D2 F4 30	3725	3650	3575	3500	3435	3370	3250	3120	2950	2760	2530	2300	2030
KRFI-SN 315 D4 F4 30	1780	1670	1535	1340	1075	775	-	-	-	-	-	-	-
KRFI-SN 355 D4 F4 30	4100	3915	3725	3580	3460	3340	3060	2700	2280	1673	-	-	-
KRFI-SN 400 D4 F4 30	3840	3660	3480	3290	3070	2800	2225	720	-	-	-	-	-
KRFI-SN 450 D4 F4 30	6700	6430	6170	5990	5840	5680	5260	4730	4190	3380	1660	-	-
KRFI-SN 500 D4 F4 30	7690	7420	7160	6930	6700	6470	5890	5340	4630	3600	850	-	-
KRFI-SN 560 D4 F4 30	11725	11475	11180	10880	10570	10250	9675	9100	8375	7520	6520	5140	3150
KRFI-SN 630 D4 F4 30	14215	14030	13815	13570	13300	13030	12440	11850	11275	10630	9925	9100	8050
KRFI-SN 710 D6 F4 30	18540	18275	17850	17250	16520	15700	14000	12250	9675	5500	-	-	-

Selection curves



Technical data												
	U [V]	P [W]	I [A]	SC <sub>F</sub>	$\eta_t$ [%]	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
KRFI-SN 225 D2 F4 30	3x400	284	0.82	FIS-4420E-0.75-B	44.6	200* / 400**	50	-20	3540	77	75	-
KRFI-SN 250 D2 F4 30	3x400	425	1.14	FIS-4420E-0.75-B	42.8	200* / 400**	50	-20	3510	80	78	-
KRFI-SN 280 D2 F4 30	3x400	627	0.113	FIS-4420E-0.75-B	46.2	200* / 400**	50	-20	2920	81	82	-
KRFI-SN 315 D2 F4 30	3x400	1100	2.3	FIS-4420E-1.5-B	50.8	200* / 400**	50	-20	2950	81	80	-
KRFI-SN 315 D4 F4 30	3x400	202	79	FIS-4420E-0.75-B	36.6	200* / 400**	50	-20	1490	65	66	-
KRFI-SN 355 D4 F4 30	3x400	312	1.25	FIS-4420E-0.75-B	46.6	200* / 400**	50	-20	2060	75	75	-
KRFI-SN 400 D4 F4 30	3x400	492	1.04	FIS-4420E-0.75-B	48.1	200* / 400**	50	-20	1480	76	72	-
KRFI-SN 450 D4 F4 30	3x400	901	2.29	FIS-4420E-1.5-B	57.2	200* / 400**	50	-20	1640	76	77	-
KRFI-SN 500 D4 F4 30	3x400	1342	2.71	FIS-4420E-1.5-B	55.2	200* / 400**	50	-20	1485	78	80	-
KRFI-SN 560 D4 F4 30	3x400	2420	4.67	FIS-4420E-2.2-B	58.2	200* / 400**	50	-20	1480	80	80	-
KRFI-SN 630 D4 F4 30	3x400	4115	8.5	FIS-4420E-5.5-B	54.9	200* / 400**	50	-20	1490	91	86	-
KRFI-SN 710 D6 F4 30	3x400	2768	6.9	FIS-4420E-4.0-B	58.3	200* / 400**	50	-20	990	83	79	-

- SC<sub>F</sub> = Speed controller
- $\eta_t$  = Maximum total efficiency
- T<sub>m</sub> = Maximum air temperature
  - \* Maximum air temperature in continuous operation
  - \*\* Maximum air temperature for smoke exhaust
- T<sub>u</sub> = Maximum ambient temperature
- T<sub>o</sub> = 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 F4	534	556	467	213	245	363	36.4
KRFI-SN 250 F4	534	576	467	213	245	363	36.8
KRFI-SN 280 F4	651	655.6	514.5	286	330	463.5	44.6
KRFI-SN 315 F4	651	657.6	514.5	286	330	463.5	49.1
KRFI-SN 355 F4	804	-	565	438	450	625	60.9
KRFI-SN 400 F4	804	-	565	438	450	625	62.8
KRFI-SN 450 F4	984	-	737	438	535	697	103.4
KRFI-SN 500 F4	984	-	737	438	535	697	105
KRFI-SN 560 F4	1218	-	778	605	750	944	152
KRFI-SN 630 F4	1218	-	778	605	750	944	163
KRFI-SN 710 F4	1525	-	1003	674	840	1112	270