

Smoke extract centrifugal fans



KBR/F

- 400°/120 min (F400)
- Insulated casing
- Speed-controllable
- Integral thermal contacts
- Low sound level
- Tested acc. to EN 12101-3 at LGAI Barcelona
- CE-certified acc. to EN 12101-3, 2002-06 at TÜV Süd

The KBR/F fans smoke extract unit are used in case of fire to extract smoke gases from rooms, and also during normal working conditions for standard temperature up to 200°C.

The KBR/F units have backward curved impellers made of galvanized steel except size 355 which is a steel impeller painted RAL 9005. The units have a swing out door for easy inspection and service. The direction of the door opening can easily be changed from left to right at site. The fans have a double isolated casing with 50 mm rockwool inside.

To protect the motors from overheating the KBR fans have integral thermal contacts with external leads for connection to a motor protection device. (Except size KBR 280 D2 and D2-4 which have integral cold conductors). In case of fire all protective devices must be bridged to guarantee functional capability. Single speed three phase units can also be delivered with motors according to IE2 standard on request.



ELECTRICAL ACCESSORIES



REV p. 340



RTRD p. 321



RTRDU p. 321

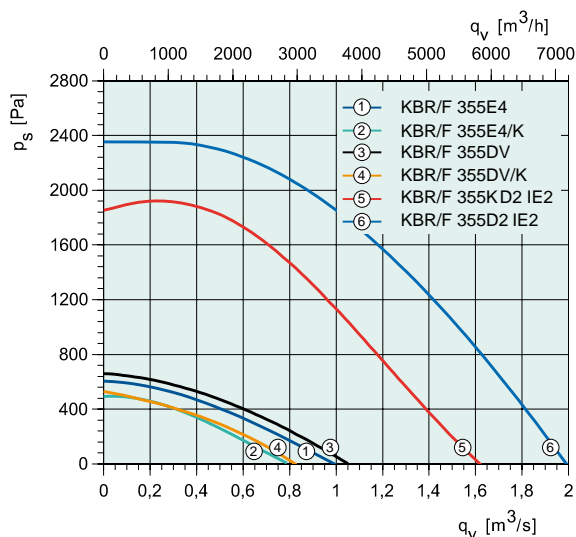
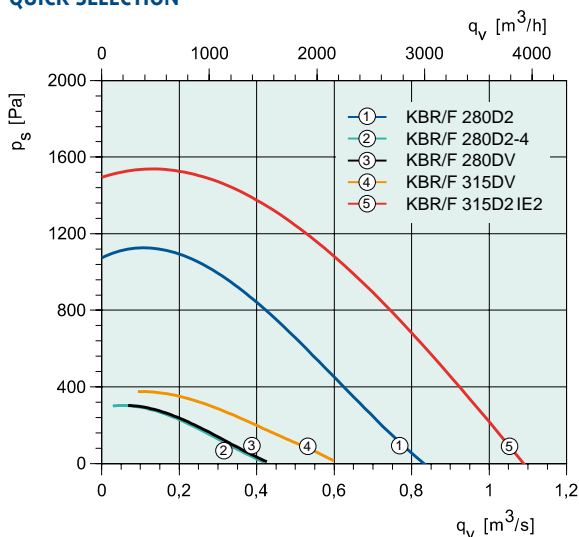


S-DT2 p. 340



STDT p. 342

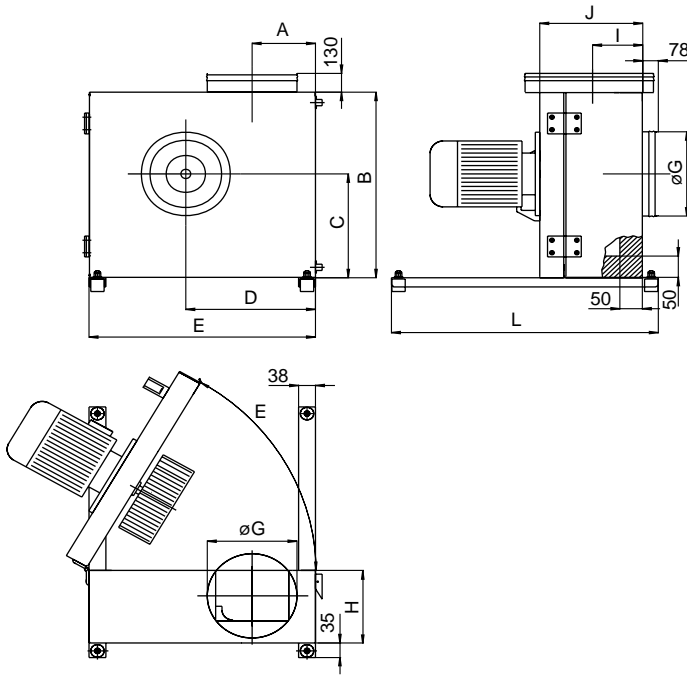
QUICK SELECTION



TECHNICAL DATA

KBR/F		280D2	280D2-4	280DV	315DV	315D2 IE2	355E4
Art no.		31586	31588	31587	31590	34509	31554
Voltage/Frequency	V/50 Hz	400 3~	400 3~	400 3~	400 3~	400 3~	230
Power at shaft	W	550	480/120	370	370	1500	370
Power	W	730	-	-	-	1218	-
Current	A	1.24	1.2/0.33	1.39	1.39	2.33	2.1
Max air flow	m³/s	0.824	0.806/0.422	0.422	0.611	1.09	0.972
R.p.m.	min ⁻¹	2820	2800/1410	1360	1360	2928	1330
Max temp. of transported air	°C	200	200	200	200	200	200
Max temp. of transported air for 120 min	°C	400	400	400	400	400	400
Sound pressure level at 4 m	dB(A)	44	44/33	33	36	50	44
Sound pressure level at 10 m	dB(A)	36	36/25	25	28	42	33
Weight	kg	48	49	49	77	57	81
Insulation class, motor		F	F	F	F	F	F
Enclosure class, motor		IP 55	IP 55	IP 54	IP 54	IP 54	IP 54
Wiring diagram p. 391-400		13b Y	14b	17	17	17	21

DIMENSIONS



VENTILATION ACCESSORIES



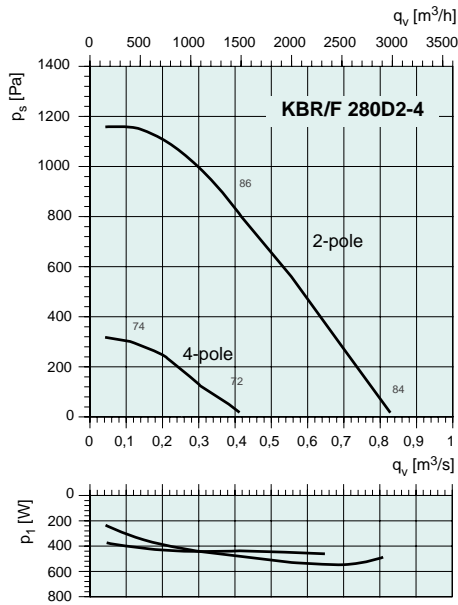
KBR/F	A	B	C	D	E	ØG	H	I	J	L
280	171,5	537	295	360	625	280	234	142,5	291	600
315	187,5	600	339	398	690	315	249	153,5	307	800
355	206,7	655	372	451	770	355	273	-	331	770

KBR/F		355E4/K	355DV	355DV/K	355K D2 IE2	355D2 IE2	
Art no.		32891	31594	31592	34511	34510	
Voltage/Frequency	V/50 Hz	230 1~	400 3~	400 3~	400 3~	400 3~	
Power at shaft	W	370	550	550	2200	4000	
Current	A	2.1	1.88	1.88	3.85	5.95	
Max air flow	m³/s	0.778	1.06	0.806	1.63	2	
R.p.m.	min ⁻¹	1330	1360	1360	2909	2889	
Max temp. of transported air	°C	200	200	200	200	200	
Max temp. of transported air for 120 min	°C	400	400	400	400	400	
Sound pressure level at 4 m	dB(A)	42	41	41	53	53	
Sound pressure level at 10 m	dB(A)	31	33	33	45	45	
Weight	kg	80	81	81	75	84	
Insulation class, motor		F	F	F	F	F	
Enclosure class, motor		IP 54	IP 54	IP 54	IP 55	IP 54	
Wiring diagram p. 391-400		21	17	17	17	17	

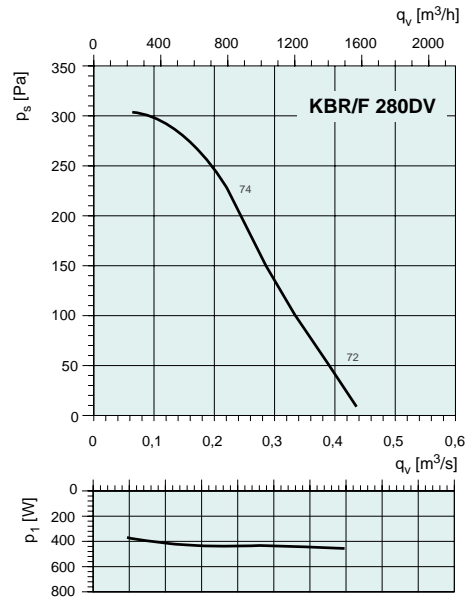
Smoke extract fans

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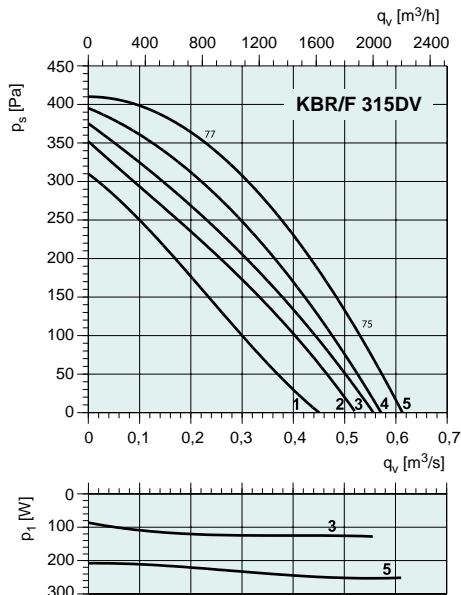
PERFORMANCE



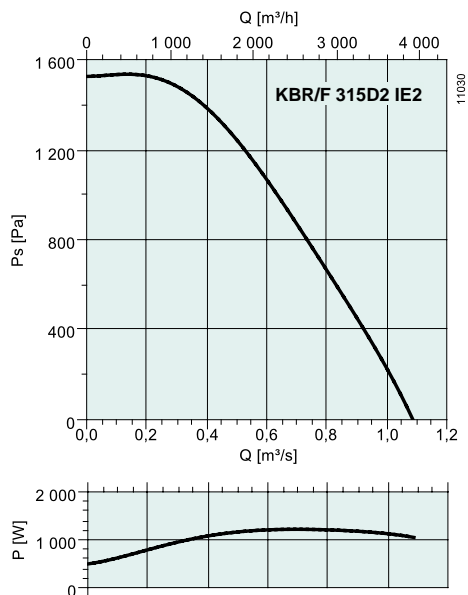
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
2-pole									
L _{WA} Inlet	86	80	78	74	71	69	65	61	
L _{WA} Outlet	88	82	80	76	73	71	67	61	
L _{WA} Surrounding	67	61	59	55	52	50	46	42	
Measurement point: 0,42 m ³ /s; 800 Pa									
4-pole									
L _{WA} Inlet	74	68	66	62	59	57	53	49	
L _{WA} Outlet	76	70	68	64	61	59	55	51	
L _{WA} Surrounding	56	50	48	44	41	39	35	31	
Measurement point: 0,22 m ³ /s; 220 Pa									



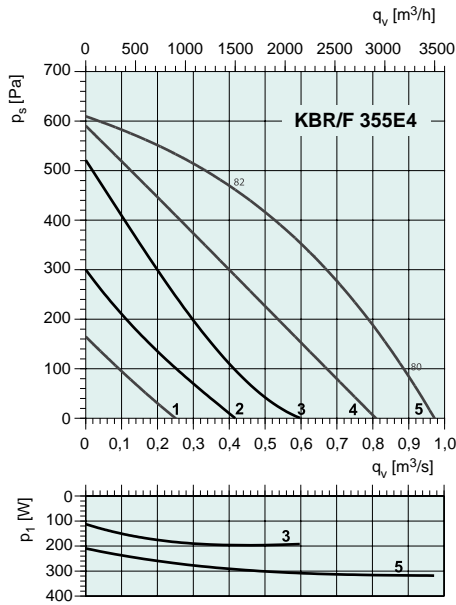
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	74	-	68	66	62	59	57	53	49
L _{WA} Outlet	76	-	70	68	64	61	59	55	51
L _{WA} Surrounding	56	-	50	48	44	41	39	35	31
Measurement point: 0,22 m ³ /s; 220 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	77	-	75	74	69	67	63	57	54
L _{WA} Outlet	79	-	77	76	71	68	65	59	56
L _{WA} Surrounding	59	-	57	56	51	49	45	39	36
Measurement point: 0,38 m ³ /s; 250 Pa									

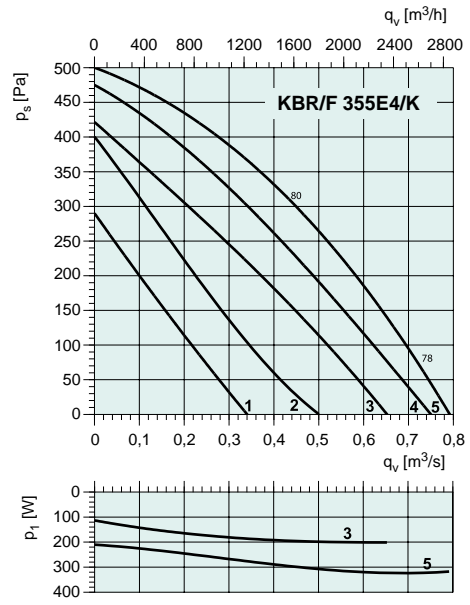


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	91	-	89	88	83	81	77	71	68
L _{WA} Outlet	93	-	91	90	85	83	80	73	70
L _{WA} Surrounding	73	-	71	70	65	63	59	53	50
Measurement point: 0,46 m ³ /s; 1276 Pa									



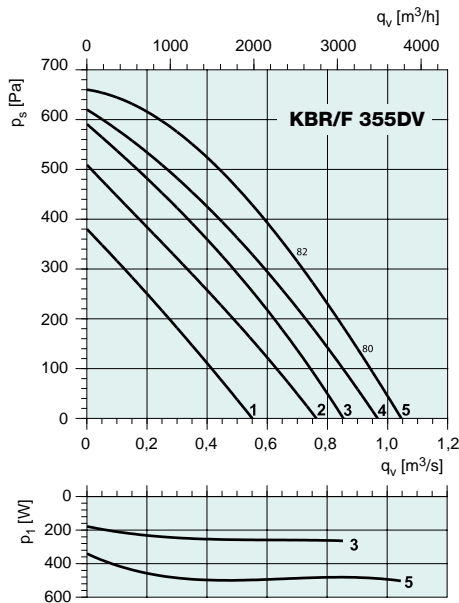
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	-	80	79	74	72	68	62	59
L _{WA} Outlet	84	-	82	81	76	74	70	64	61
L _{WA} Surrounding	64	-	62	61	56	54	50	44	41

Measurement point: 0,42 m³/s; 465 Pa



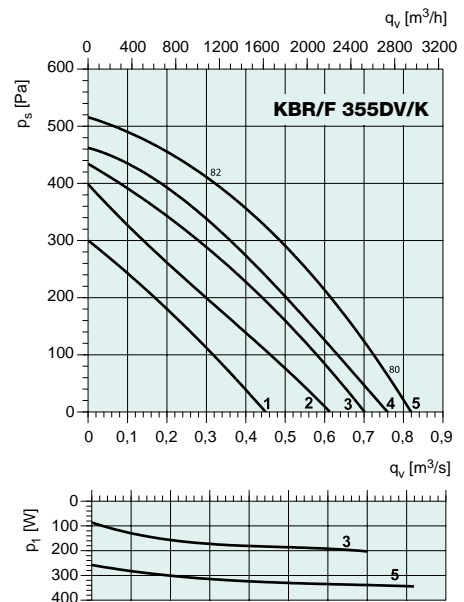
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	80	-	78	74	71	67	65	61	57
L _{WA} Outlet	82	-	80	76	73	69	67	63	59
L _{WA} Surrounding	62	-	60	56	53	49	47	43	39

Measurement point: 0,42 m³/s; 320 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	-	80	79	74	72	68	62	59
L _{WA} Outlet	84	-	82	81	76	74	70	64	61
L _{WA} Surrounding	64	-	62	61	56	54	50	44	41

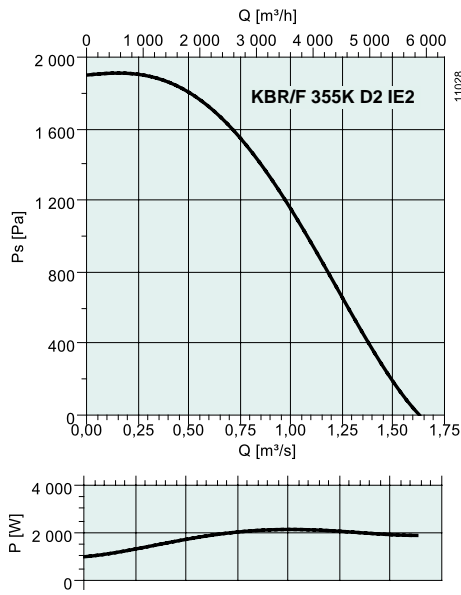
Measurement point: 0,69 m³/s; 320 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	-	80	79	74	72	68	62	59
L _{WA} Outlet	84	-	82	81	76	74	70	64	61
L _{WA} Surrounding	64	-	62	61	56	54	50	44	41

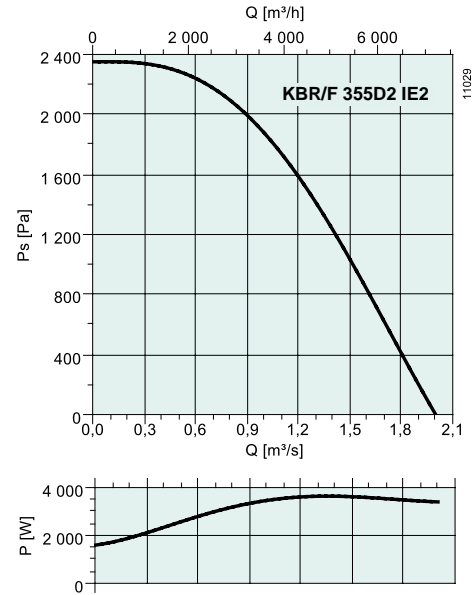
Measurement point: 0,32 m³/s; 398 Pa

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dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	94	-	92	91	86	84	80	74	71
L _{WA} Outlet	96	-	94	93	88	86	82	76	73
L _{WA} Surrounding	76	-	74	73	68	66	62	56	53

Measurement point: 0,72 m³/s; 1431 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	97	-	92	91	86	84	80	74	71
L _{WA} Outlet	96	-	94	93	88	86	82	76	73
L _{WA} Surrounding	76	-	74	73	68	66	62	56	53

Measurement point: 0,83 m³/s; 1800 Pa