Mixed flow fans

KD 355 XL-400M

- High efficiency – low noise
- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Maintenance-free and reliable

The KD fans have an external rotor motor with a mixed flow type impeller. The KD series is notable for its relatively high static pressure and high level of efficiency.

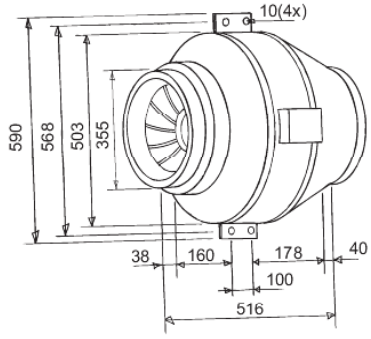
Brackets are supplied with the fans to make installation easier. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct.

To protect the motor from overheating the KD fans have integral thermal contacts with leads for connection to a motor protection device. The casing is manufactured from powder-coated galvanised sheet steel.

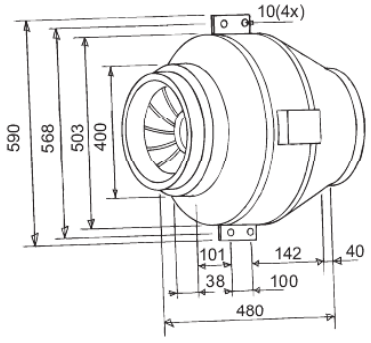
KD		355 XL1	355 XL3	400 M1	400 M3
Voltage/Frequency	V/50 Hz	230	400	230	400
Phase	~	1	3	1	3
Power	W	431	451	432	456
Current	A	1,90	0,96	1,90	0,95
Maximum air flow	m^3/s (m^3/h)	1,09 (3920)	1,16 (4158)	1,16 (4169)	1,22 (4392)
R.p.m.	min^{-1}	1309	1399	1307	1397
Max. temp. of transported air	°C	70	70	70	70
" air when speed-controlled	°C	70	70	70	70
Sound pressure level at 3 m *	dB(A)	56	58	53	57
Weight	kg	21	19	21	19
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54
Capacitor	µF	10	-	10	-
Motor protection		S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step	Transformer	RTRE 3	RTRD 2	RTRE 3	RTRD 2
Speed control, five-step high/low	Transformer	REU 3 + S-ET 10	RTRDU 2	REU 3 + S-ET 10	RTRDU 2
Speed control, stepless	Thyristor	REE 4 + S-ET 10	-	REE 4 +S-ET 10	-
Wiring diagram p. 11-17		6	8	6	8

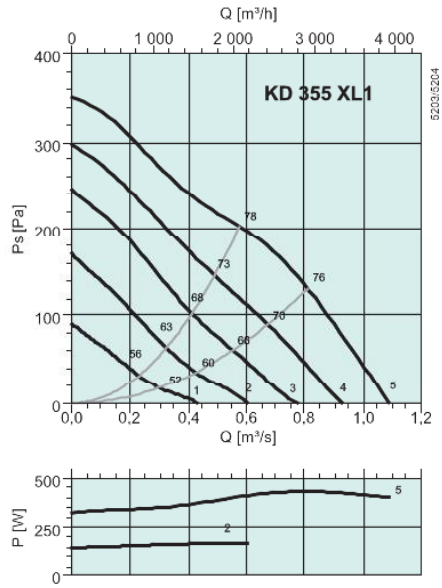
** According to 20 m^2 Sabine*

KD 355 XL



KD 400 M

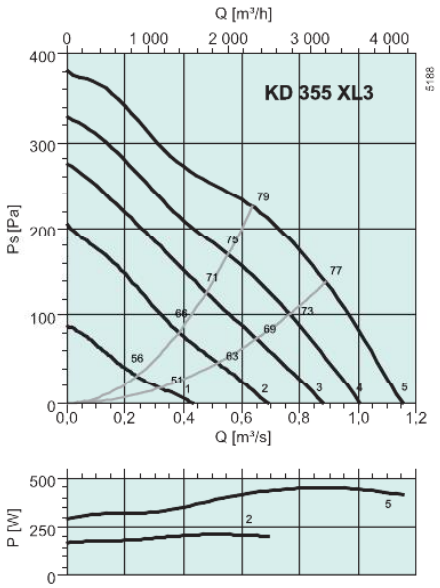




KD 355 XL1

			Mid-frequency band, Hz							
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	78	55	75	72	69	66	62	61	56
L_{wA} Outlet	dB(A)	78	50	75	70	70	68	65	64	59
L_{wA} Surrounding	dB(A)	63	26	48	60	59	53	47	47	42
With LDC 355-900										
L_{wA} Inlet	dB(A)	70	52	69	59	51	56	56	54	49
L_{wA} Outlet	dB(A)	70	47	69	57	52	58	59	57	52

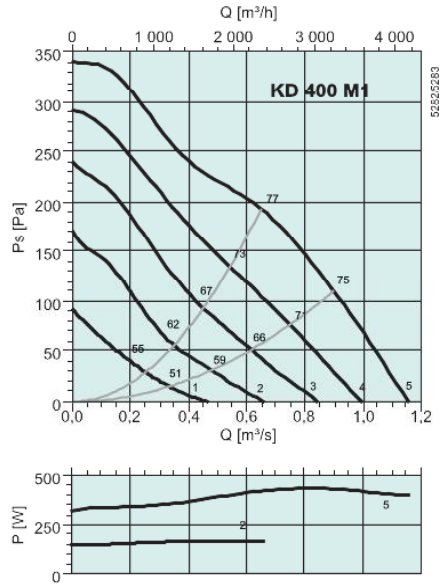
Measuring point: q_v = 0,58 m³/s, P_s = 202 Pa



KD 355 XL3

			Mid-frequency band, Hz							
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	79	55	77	73	71	67	63	63	57
L_{wA} Outlet	dB(A)	79	50	76	71	72	70	66	66	61
L_{wA} Surrounding	dB(A)	65	29	52	60	60	57	51	51	42
With LDC 355-900										
L_{wA} Inlet	dB(A)	72	52	71	60	53	57	57	56	50
L_{wA} Outlet	dB(A)	71	47	70	58	54	60	60	59	54

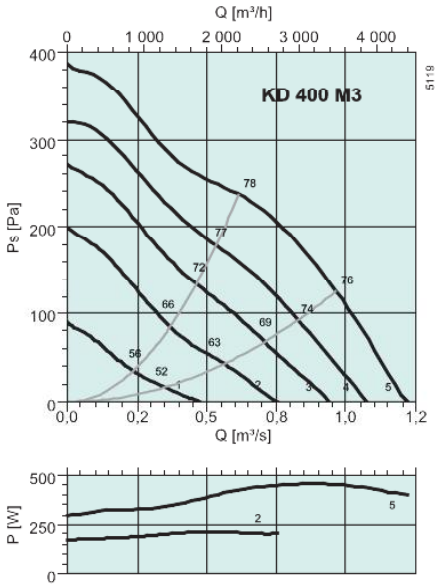
Measuring point: q_v = 0,64 m³/s, P_s = 226 Pa



KD 400 M1

			Mid-frequency band, Hz							
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	77	52	73	71	69	64	61	60	54
L_{wA} Outlet	dB(A)	77	48	73	70	71	68	65	64	59
L_{wA} Surrounding	dB(A)	60	27	45	56	57	51	46	46	39
With LDC 400-900										
L_{wA} Inlet	dB(A)	70	49	68	61	56	57	56	54	47
L_{wA} Outlet	dB(A)	70	45	68	60	58	61	60	58	52

Measuring point: q_v = 0,65 m³/s, P_s = 193 Pa



KD 400 M3

			Mid-frequency band, Hz							
	Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	dB(A)	78	54	76	72	70	67	63	62	57
L_{wA} Outlet	dB(A)	79	51	74	71	72	71	67	65	61
L_{wA} Surrounding	dB(A)	64	24	47	60	59	56	49	49	44
With LDC 400-900										
L_{wA} Inlet	dB(A)	72	51	71	62	57	60	58	56	50
L_{wA} Outlet	dB(A)	72	48	69	61	59	64	62	59	54

Measuring point: q_v = 0,62 m³/s, P_s = 237 Pa