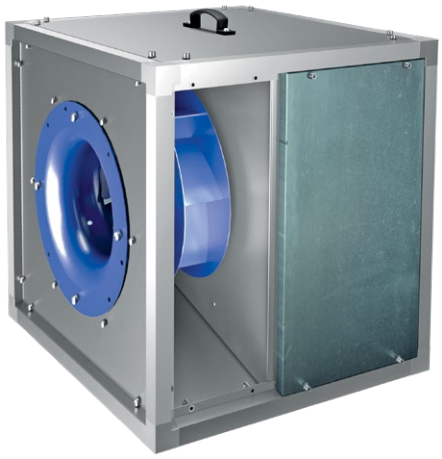
Iso-VK 60 Hz

Sound-insulated inline centrifugal fans



Use

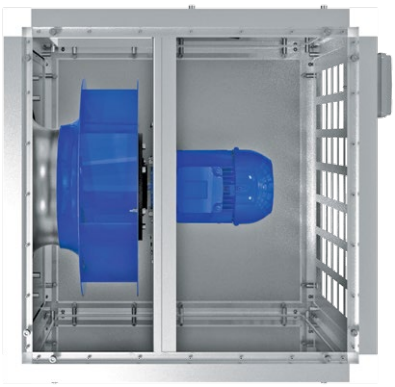
- Designed to extract contaminated hot air up to 120 °C, containing grease (when using grease filters), in high resistance conditions.
- Ideally function in various ventilation systems for restaurant or café kitchens, industrial bakeries, removal of gases generated during welding operations.
- Various application possibilities due to a special transformable casing design.
- Compatible with ∅ 315 up to 800 mm round or 500x500 up to 1175x1175 mm rectangular air ducts.

Air flow:
up to 32 000 m³/h
8889 l/s

120 °C

Design

- Casing made of aluminium frame and removable aluzinc thermal- and sound-insulated double-skinned sandwich panels.
- Casing internally filled with 20 mm non-flammable mineral wool.
- Position of the removable panels can be adjusted to inline air flow or 90° angle air flow.
- Due to corrosion-resistant casing and thermal insulation the fan is suitable for external mounting.
- Motor located outside the airflow and separated from the impeller by a metal panel.



Motor

- Highly reliable single-phase or three-phase motor with steel high-performance centrifugal impeller with backward curved blades.
- The motor is maintenance free.
- Motor insulation winding class – **F**.
- Degree of protection – **IP55**.

Speed control

- Step speed control with transformer speed controller is available.

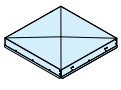
Mounting

- The fan is mounted with rectangular or round air ducts.
- Connected to air ducts with flexible vibration-absorbing connectors or connecting reducers of respective diameters.
- Power is supplied to the fan through an external terminal box.
- The fans can be installed in any mounting position with respect to air flow direction in the system. While mounting provide enough servicing space.

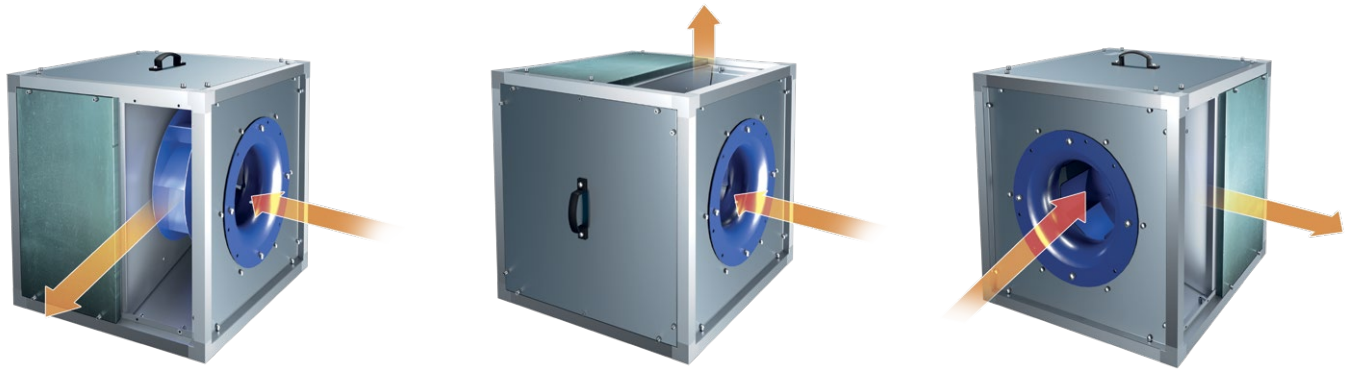
Designation key

Series	Spigot diameter [mm]	Motor		
		Number of poles	Phase	Voltage / Frequency
Iso-VK	**315; 355; 400; 450; 500; 560; 630; 710; 800**	**2; 4; 6**	**E:** single-phase **D:** three-phase	**(400/60):** 400 V / 60 Hz **(230/60):** 230 V / 60 Hz

Accessories

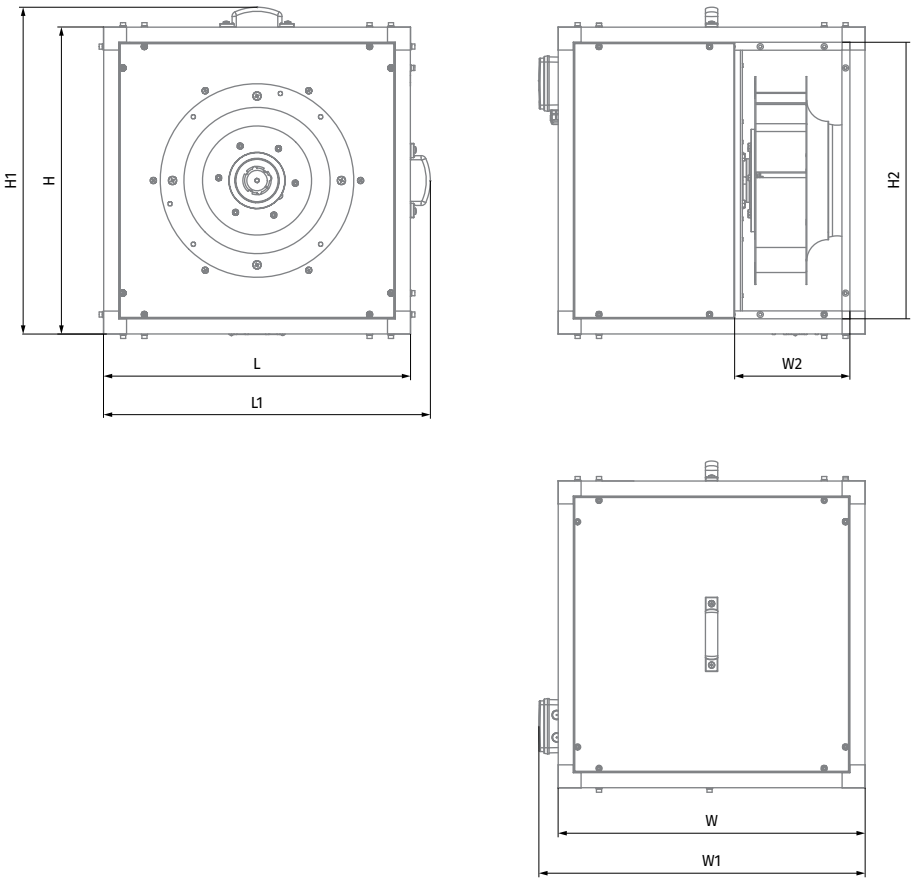
Flexible connector	Mounting bracket	Hood	Round flange	Speed controllers		
						
EVA Iso-VK	**MH Iso-VK**	**RSD Iso-VK**	**FR Iso-VK**	**CDR5E E... TP**	**CDR5E D... TP**	**CDR5E D... M**

- The direction of air flow can be easily changed by rearranging the panel.



Dimensions [mm]

Type	H	H1	H2	L	L1	W	W1	W2	Weight [kg]
Iso-VK 315 2D (400/60)	500	538	440	500	538	500	538	200	41
Iso-VK 315 2E (230/60)	500	538	440	500	538	500	538	200	40.2
Iso-VK 315 4D (400/60)	500	538	440	500	538	500	538	200	37.2
Iso-VK 315 4E (230/60)	500	538	440	500	538	500	538	200	37.2
Iso-VK 355 4D (400/60)	600	638	540	600	638	600	638	225	48.1
Iso-VK 355 4E (230/60)	600	638	540	600	638	600	638	225	47.4
Iso-VK 400 4D (400/60)	670	708	610	670	708	670	708	252	58.1
Iso-VK 400 4E (230/60)	670	708	610	670	708	670	708	252	60.3
Iso-VK 450 4D (400/60)	700	738	640	700	738	700	738	282	73.3
Iso-VK 450 4E (230/60)	700	738	640	700	738	700	738	282	71.8
Iso-VK 500 4D (400/60)	820	858	760	820	858	820	858	321	101.8
Iso-VK 560 4D (400/60)	900	938	840	900	938	900	938	365	130.3
Iso-VK 630 4D (400/60)	1000	1038	940	1000	1038	1000	1038	409	173.8
Iso-VK 630 6D (400/60)	1075	1114	1015	1075	1152	1075	1112	455	210
Iso-VK 710 6D (400/60)	1075	1114	1015	1075	1152	1075	1112	455	240
Iso-VK 800 6D (400/60)	1175	1214	1115	1175	1252	1175	1212	505	275

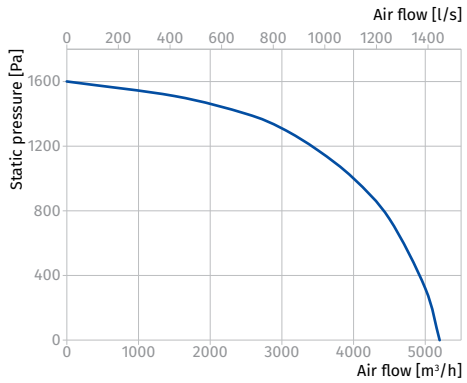


Technical data

Parameters	ISO-VK 315 2D (400/60)	ISO-VK 315 2E (230/60)	ISO-VK 315 4D (400/60)	ISO-VK 315 4E (230/60)	ISO-VK 355 4D (400/60)	ISO-VK 355 4E (230/60)	ISO-VK 400 4D (400/60)	ISO-VK 400 4E (230/60)
Voltage [V]	3~400	1~230	3~400	1~230	3~400	1~230	3~400	1~230
Frequency [Hz]	60	60	60	60	60	60	60	60
Power [W]	2200	2200	370	370	750	750	750	750
Current [A]	4.32	13.08	1	2.82	1.71	5.05	1.71	5.05
Maximum air flow [m³/h (l/s)]	5200 (1444)	5200 (1444)	2750 (764)	2750 (764)	3950 (1097)	3950 (1097)	5900 (1639)	5900 (1639)
RPM [min⁻¹]	3440	3340	1700	1670	1700	1690	1700	1690
Sound pressure level at 3 m [dBA]	58	58	53	53	54	54	54	54
Transported air temperature [°C]	-25...+120	-25...+120	-25...+120	-25...+120	-25...+120	-25...+120	-25...+120	-25...+120
IP rating	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP55	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Ins Class Motor	F	F	F	F	F	F	F	F
Eff Class Motor	IE3	IE1	IE2	IE1	IE3	IE1	IE3	IE1

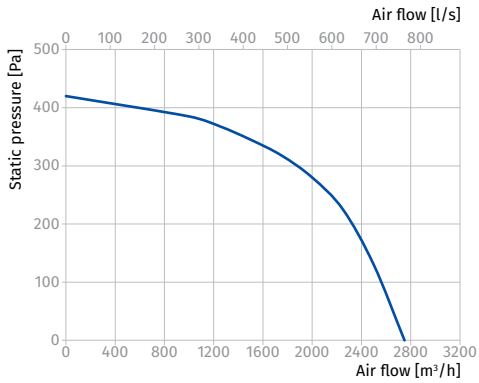
ISO-VK 315 2D (400/60), ISO-VK 315 2E (230/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**90**	63	86	87	70	58	54	58	48	**69**	**79**
LwA to outlet [dBA]	**93**	62	86	92	72	55	53	62	54	**72**	**82**
LwA to environment [dBA]	**79**	57	77	73	58	49	42	42	35	**58**	**68**



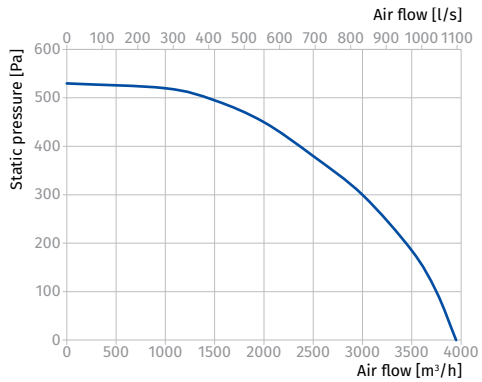
ISO-VK 315 4D (400/60), ISO-VK 315 4E (230/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**82**	56	78	79	63	53	49	53	44	**61**	**71**
LwA to outlet [dBA]	**84**	54	77	83	65	50	48	56	49	**64**	**74**
LwA to environment [dBA]	**74**	52	72	68	54	46	40	39	33	**53**	**63**



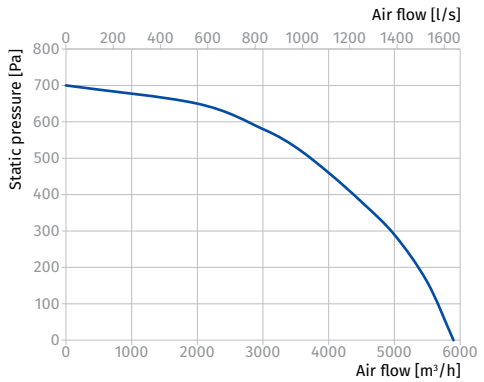
ISO-VK 355 4D (400/60), ISO-VK 355 4E (230/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**83**	58	79	81	65	54	50	55	45	**63**	**73**
LwA to outlet [dBA]	**86**	56	79	85	67	51	49	58	50	**66**	**76**
LwA to environment [dBA]	**74**	53	72	69	55	47	40	40	33	**54**	**64**



ISO-VK 400 4D (400/60), ISO-VK 400 4E (230/60)

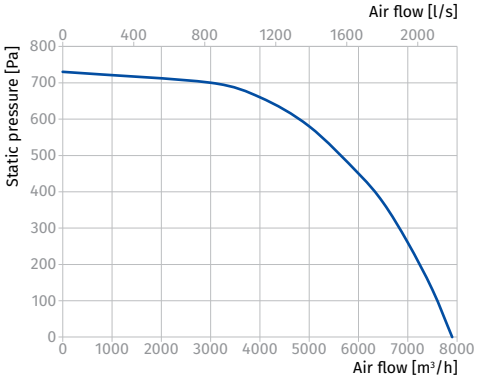
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**85**	66	81	83	75	69	63	53	43	**65**	**74**
LwA to outlet [dBA]	**88**	62	77	87	79	64	62	54	43	**68**	**77**
LwA to environment [dBA]	**75**	60	72	70	63	61	52	39	33	**54**	**64**



Parameters	ISO-VK 450 4D (400/60)	ISO-VK 450 4E (230/60)	ISO-VK 500 4D (400/60)	ISO-VK 560 4D (400/60)	ISO-VK 630 4D (400/60)
Voltage [V]	3~400	1~230	3~400	3~400	3~400
Frequency [Hz]	60	60	60	60	60
Power [W]	1500	1500	3000	4000	7500
Current [A]	5.9	9.4	7.4	8.8	14.1
Maximum air flow [m³/h (l/s)]	7900 (2194)	7900 (2194)	11700 (3250)	16000 (4444)	22500 (6250)
RPM [min⁻¹]	1720	1700	1730	1730	1740
Sound pressure level at 3 m [dBA]	56	56	58	60	61
Transported air temperature [°C]	-25...+120	-25...+120	-25...+120	-25...+120	-25...+120
IP rating	IPX4	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP55	IP55	IP55	IP55	IP55
Ins Class Motor	F	F	F	F	F
Eff Class Motor	IE3	IE1	IE3	IE3	IE3

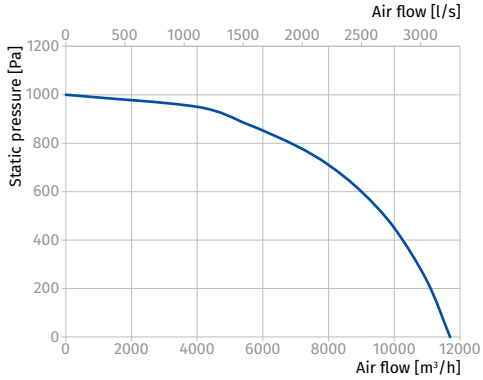
ISO-VK 450 4D (400/60), ISO-VK 450 4E (230/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**87**	61	83	85	67	57	52	57	47	**66**	**76**
L_{WA} to outlet [dBA]	**90**	60	83	89	70	54	52	60	52	**70**	**80**
L_{WA} to environment [dBA]	**77**	55	75	71	57	48	41	41	34	**56**	**66**



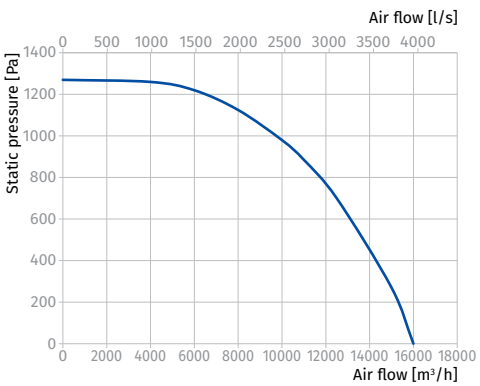
ISO-VK 500 4D (400/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**86**	60	83	84	67	56	52	56	47	**66**	**76**
L_{WA} to outlet [dBA]	**89**	58	82	88	69	53	51	59	51	**68**	**78**
L_{WA} to environment [dBA]	**79**	57	77	73	58	49	42	42	35	**58**	**68**



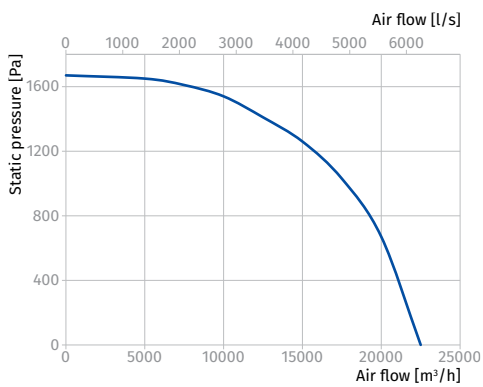
ISO-VK 560 4D (400/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	63	86	87	70	58	54	58	48	**69**	**79**
L_{WA} to outlet [dBA]	**91**	60	84	90	70	54	52	60	53	**70**	**80**
L_{WA} to environment [dBA]	**81**	59	80	75	59	50	43	43	35	**60**	**70**



ISO-VK 630 4D (400/60)

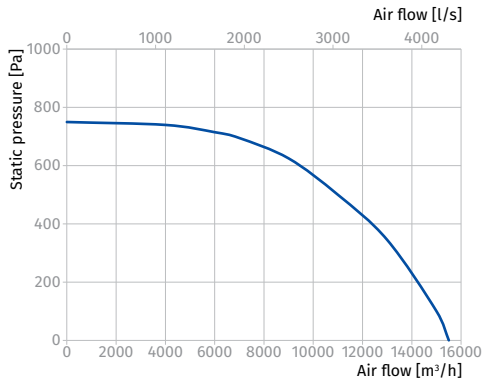
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	64	79	89	81	66	63	56	44	**70**	**80**
L_{WA} to outlet [dBA]	**91**	65	80	90	81	66	63	56	45	**71**	**81**
L_{WA} to environment [dBA]	**82**	67	79	76	69	66	57	42	35	**61**	**71**



Parameters	ISO-VK 630 6D (400/60)	ISO-VK 710 6D (400/60)	ISO-VK 800 6D (400/60)
Voltage [V]	3~400	3~400	3~400
Frequency [Hz]	60	60	60
Power [W]	3000	4000	7500
Current [A]	6.37	8.49	16.4
Maximum air flow [m³/h (l/s)]	15500 (4306)	21500 (5972)	32000 (8889)
RPM [min⁻¹]	1140	1150	1160
Sound pressure level at 3 m [dBA]	60	61	62
Transported air temperature [°C]	-25...+120	-25...+120	-25...+120
IP rating	IPX4	IPX4	IPX4
Motor IP rating	IP55	IP55	IP55
Ins Class Motor	F	F	F
Eff Class Motor	IE3	IE3	IE3

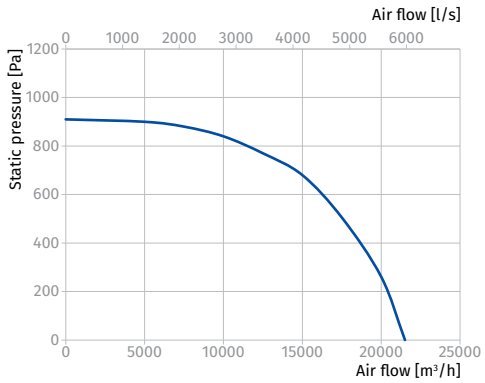
ISO-VK 630 6D (400/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	63	86	87	70	58	54	58	48	**69**	**79**
L_{WA} to outlet [dBA]	**91**	60	84	90	70	54	52	60	53	**70**	**80**
L_{WA} to environment [dBA]	**81**	59	80	75	59	50	43	43	35	**60**	**70**



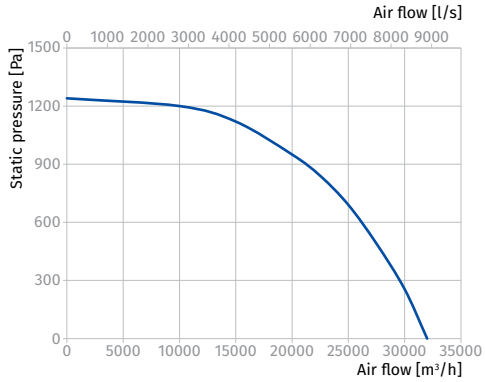
ISO-VK 710 6D (400/60)

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	64	79	89	81	66	63	56	44	**70**	**80**
L_{WA} to outlet [dBA]	**91**	65	80	90	81	66	63	56	45	**71**	**81**
L_{WA} to environment [dBA]	**82**	67	79	76	69	66	57	42	35	**61**	**71**



ISO-VK 800 6D (400/60)

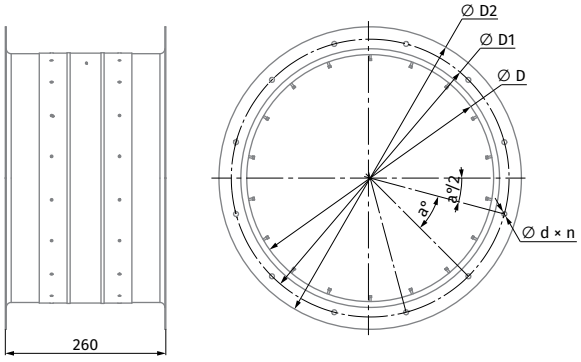
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	63	86	87	70	58	54	58	48	**69**	**79**
L_{WA} to outlet [dBA]	**94**	63	87	93	73	56	53	62	54	**74**	**84**
L_{WA} to environment [dBA]	**83**	61	81	76	61	51	44	43	36	**62**	**72**



Modifications and options

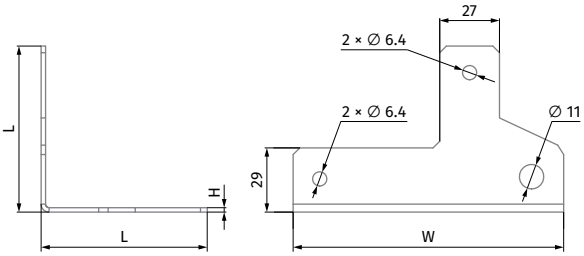
FLEXIBLE CONNECTOR EVA ISO-VK

Type	Dimensions [mm] Ø d	Ø D	Ø D1	Ø D2	n	a°	Weight [kg]
EVA ISO-VK 315	8	315	365	405	6	60	4.76
EVA ISO-VK 355	10	355	395	435	8	45	4.08
EVA ISO-VK 400	8	400	450	490	12	30	4.76
EVA ISO-VK 450	8	450	500	540	12	30	5.34
EVA ISO-VK 500	12	500	560	600	12	30	6.12
EVA ISO-VK 560	12	560	620	660	12	30	6.83
EVA ISO-VK 630	12	630	690	730	12	30	7.66
EVA ISO-VK 710	12	710	770	810	16	22.5	8.6
EVA ISO-VK 800	12	800	860	900	16	22.5	9.67



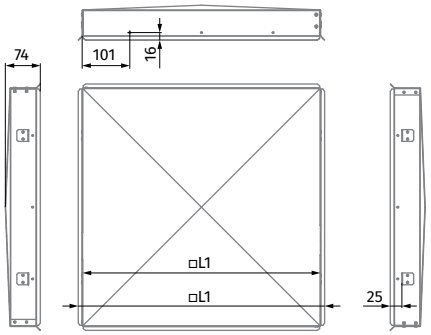
MOUNTING BRACKET MH ISO-VK

Type	Dimensions [mm] H	L	W	Weight [kg]
MH ISO-VK 315...450	2	90	125	0.12
MH ISO-VK 500...800	3	90	125	0.21



HOOD RSD ISO-VK

Type	Dimensions [mm] L	L1	Weight [kg]
RSD ISO-VK 315	503	522	2.42
RSD ISO-VK 355	603	622	3.25
RSD ISO-VK 400	673	692	3.91
RSD ISO-VK 450	703	722	4.21
RSD ISO-VK 500	823	842	6.57
RSD ISO-VK 560	903	922	7.71
RSD ISO-VK 630	1003	1022	9.27
RSD ISO-VK 710	1078	1097	10.53
RSD ISO-VK 800	1178	1197	12.3



ROUND FLANGE FR ISO-VK

Type	Dimensions [mm] Ø D	Ø D1	Ø D2	Ø d	n	a°	b°	Weight [kg]
FR ISO-VK 315	315	365	405	8	6	15	60	1.7
FR ISO-VK 355	355	405	445	8	6	15	60	1.9
FR ISO-VK 400	400	450	490	8	12	15	30	2.13
FR ISO-VK 450	450	500	540	8	12	15	30	2.39
FR ISO-VK 500	500	560	600	12	12	15	30	2.75
FR ISO-VK 560	560	620	660	12	12	15	30	3.06
FR ISO-VK 630	630	690	730	12	12	15	30	3.44
FR ISO-VK 710	710	770	810	12	16	11.25	22.5	3.86
FR ISO-VK 800	800	860	900	12	16	11.25	22.5	4.34

