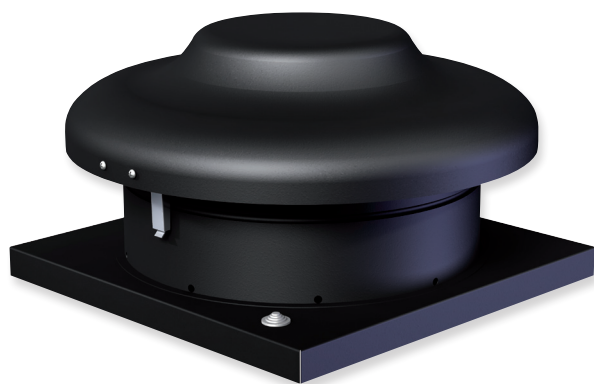




Roof fans

Tourelles

Dachventilatoren

Ventiladores de Tejado



Roof fans with horizontal discharge are used to extract air from different premises. Easy access to clean an impeller. Not suitable for polluted air, aggressive and explosive gases.

Impeller with backward curved blades.

Motor: external rotor, motor protection built-in thermal contact, maintenance free ball bearings.

Housing: powder coated painting RAL 9005.



Dachventilatoren, für Abluft bestimmt. Nicht geeignet für die Beförderung von verschmutzter Luft, aggressiven, explosiven Gasen. Laufrad ist rückwärts gekrümmt.

Der Motor: Außenrotor, integrierter Thermokontakt-Motorschutz, dauerhafte, keine Pflege erfordernde Lager.

Das Gehäuse: RAL 9005, gestrichen.



Tourelles destinées à l'extraction d'air vicié. Elles ne sont pas adaptées à l'extraction d'air fortement pollué, de gaz agressifs ou explosifs. Turbine à réaction (pales incurvées vers l'arrière).

Moteur à rotor externe, entraînement direct avec protection thermique intégrée (PTO), roulements graissés à vie ne nécessitant pas d'entretien.

Enveloppe : Finition RAL 9005.



Los ventiladores de tejado VSA incorporan un motor de rotor externo EC, de alta eficiencia y ahorro energético. Estos ventiladores se utilizan para la extracción de aire. No es adecuado para su uso con aire contaminado, gases agresivos o explosivos.

Turbina de reacción (palas curvadas hacia atrás).

Motor de rotor externo, de accionamiento directo, con protección térmica integrada (PTO), cojinetes engrasados de por vida, no requiere mantenimiento.

Carcasa con acabado en pintura RAL 9005.

Accessories

Single phase speed controller



TGRV

p. 102

Single phase speed controller



ETY

p. 105

Curb skirt



SSA

p. 112

Curb skirt



SSA 45

p. 112

Roof curb



KSV

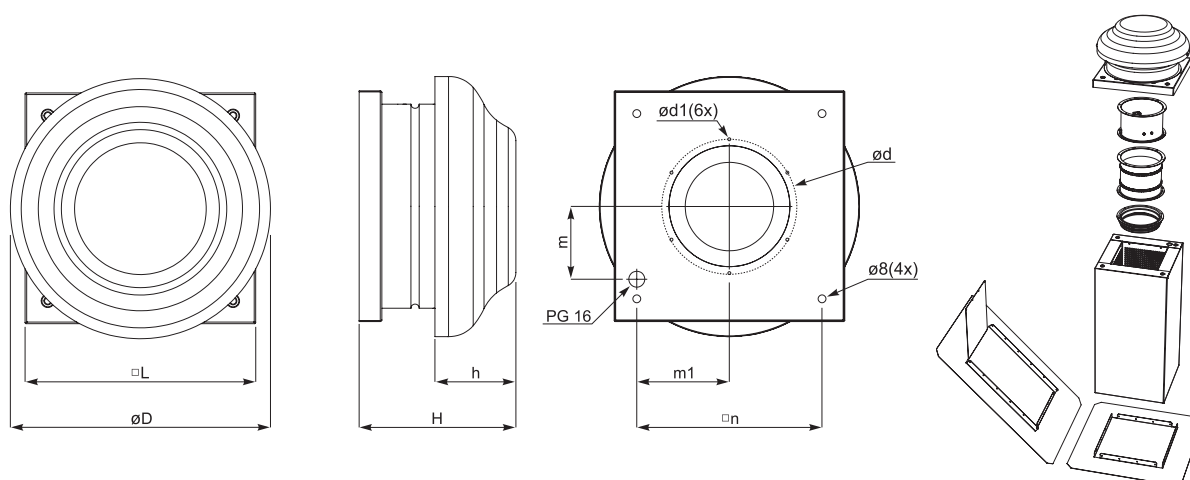
p. 109

Flange-adaptor



FSV

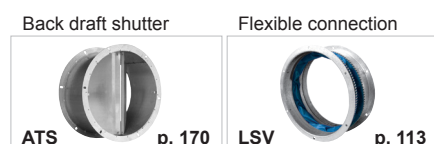
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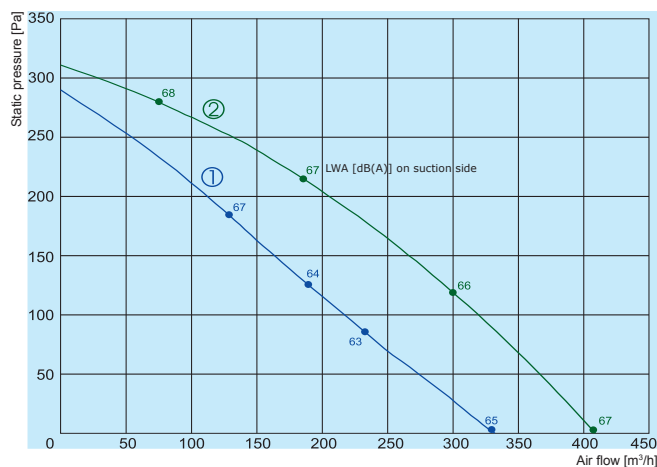


Type	Dimensions [mm]								
	$\varnothing D$	H	h	$\square L$	$\varnothing d$	$\varnothing d1$	m	m1	$\square n$
VSA 190S	344	207,3	107	305	177	6,1	96,5	123,5	245
VSA 190L	344	207,3	107	305	177	6,1	96,5	123,5	245
VSA 220S	450	214,35	109	405	230	7,1	138	168	330
VSA 220M	450	214,35	109	405	230	7,1	138	168	330
VSA 225L	450	245,55	109	405	230	7,1	138	168	330
VSA 250L	450	245,55	109	405	230	7,1	138	168	330

Type	Accessories							
	TGRV	ETY	SSA	SSA 45	KSV	FSV	ATS	LSV
VSA 190S	1,5	1,5	300	300	300/600	160	190	160
VSA 190L	1,5	1,5	300	300	300/800 300/900	160	190	160
VSA 220S	1,5	1,5	400	400	400/600	250	250	250
VSA 220M	1,5	1,5	400	400	400/800	250	250	250
VSA 225L	1,5	1,5	400	400	400/900	250	250	250
VSA 250L	1,5	1,5	400	400	400/1000	250	250	250

Accessories





		VSA 190 S	VSA 190 L
Voltage/Frequency	[V/Hz]	230/50	230/50
Power consumption	[kW]	0,044	0,065
Current	[A]	0,19	0,28
Speed	[min ⁻¹]	1962	2442
Max. airflow	[m³/h]	332	409
Min./Max. air temperature	[°C]	-25/50	-25/50
Weight	[kg]	4,4	4,4
Wiring diagram		No. 3	No. 2
Protection class:	motor	IP-44	IP-44
	terminal box	IP-54	IP-54
Comply with ERP 2013		+	+

VSA 190 S

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	61	43	51	53	57	54	48	41
Outlet	62	42	57	52	56	56	51	43
Surrounding	59	44	53	51	53	52	48	38

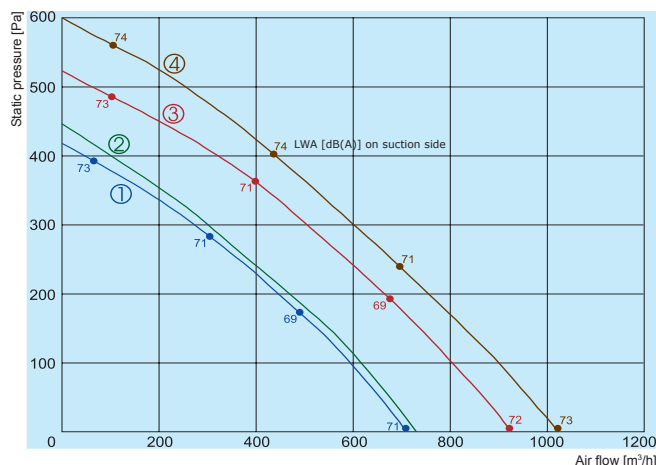
Measured at 233 m³/h, 85 Pa

VSA 190 L

	LWA total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	66	44	54	59	60	61	57	41
Outlet	68	44	59	62	65	60	55	39
Surrounding	61	37	51	54	58	53	47	32

Measured at 278 m³/h, 140 Pa

The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.



		VSA 220 S	VSA 220 M	VSA 225 L	VSA 250 L
Voltage/Frequency	[V/Hz]	230/50	230/50	230/50	230/50
Power consumption	[kW]	0,097	0,106	0,155	0,208
Current	[A]	0,42	0,46	0,68	0,90
Speed	[min ⁻¹]	2534	2700	2542	2442
Max. airflow	[m³/h]	711	730	926	1024
Min./Max. air temperature	[°C]	-25/40	-25/55	-25/60	-25/40
Weight	[kg]	6,8	7,0	7,6	8,0
Wiring diagram		No. 2	No. 1	No. 2	No. 2
Protection class:	motor	IP-44	IP-44	IP-44	IP-44
	terminal box	IP-54	IP-54	IP-54	IP-54
Comply with ERP 2013		+	+	+	-

VSA 220 S

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	69	50	57	63	64	62	58	54
Outlet	70	51	60	65	66	61	58	48
Surrounding	62	44	53	57	58	54	50	40

Measured at 489 m³/h, 173 Pa

VSA 220 M

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	70	55	58	65	65	63	60	55
Outlet	70	50	61	65	66	62	59	50
Surrounding	65	46	54	58	62	56	52	44

Measured at 508 m³/h, 177 Pa

VSA 225 L

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	69	52	56	63	64	62	56	51
Outlet	72	51	60	65	68	66	60	51
Surrounding	65	44	53	58	61	59	52	43

Measured at 585 m³/h, 251 Pa

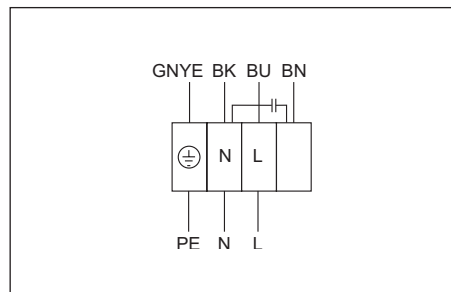
VSA 250 L

	Lwa total, dB(A)	Lwa, dB(A)						
		125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	70	57	59	64	65	63	62	57
Outlet	73	58	63	66	69	67	60	53
Surrounding	65	50	55	58	61	59	52	45

Measured at 696 m³/h, 240 Pa

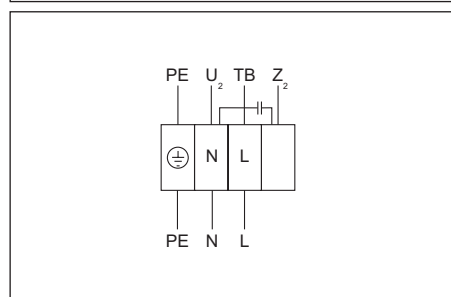
The fan characteristic curves were determined in accordance with EN ISO 5801. The sound levels were determined in accordance with DIN 45635 resp. ISO 3744 at a distance of 1 m from the fan.

The company reserves the right to make changes of technical data without prior notice



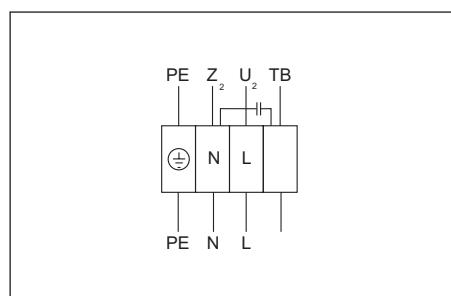
Wiring diagram No. 1 (1~230V)

GNYE - green-yellow
BK - black
BU - blue
BN - brown



Wiring diagram No. 2 (1~230V)

U₂ - blue or grey
Z₂ - black
TB - brown
PE - yellow-green



Wiring diagram No. 3 (1~230V)

U₂ - blue or grey
Z₂ - black
TB - brown
PE - yellow-green