

MUB-CAV/VAV

Square duct fans



- Inclusive integrated sensor-control module for constant flow applications
- High efficiency across the entire system characteristic field
- Low noise operation

Casing

Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation.

Motor

Energy-saving, highly efficient EC external rotor motors.

Impeller geometry

Radial impeller with backwards curved blades.

Output control

The MUB-VAV/CAV fans are complete equipped with a sensor-control module for constant airflow. A conversation kit for constant pressure is inclusive.

Motor protection

The motor protection is integrated in the motor electronics.

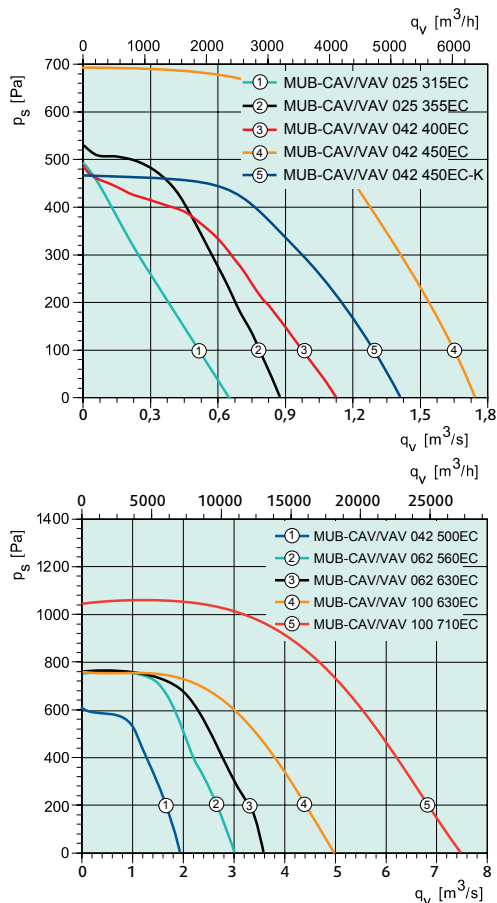
Accessories

 CCM Connection Page 540	 CCMI Connection, iso. Page 540	 FGV Flex. connection Page 539	 SD-MUB Vibration pad Page 541
 SRKG Shutter Page 540	 UGS Flexible adapter Page 539	 WSD Weather protection Page 539	 WSG Weather protection Page 539

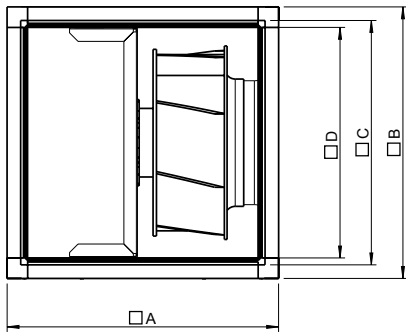
Electrical accessories

 CO2RT Transmitter Page 501	 HR1 Room Humidstat Page 484	 REV Switching device Page 510	 RT Room Thermostat Page 490
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Quick selection



Dimensions



MUB-CAV/VAV	A	B	C	D
025 315/355	500	500	420	378
042 400/450/500	670	670	590	548
062 560/630	800	800	720	678
100 630/710	1000	1000	920	878

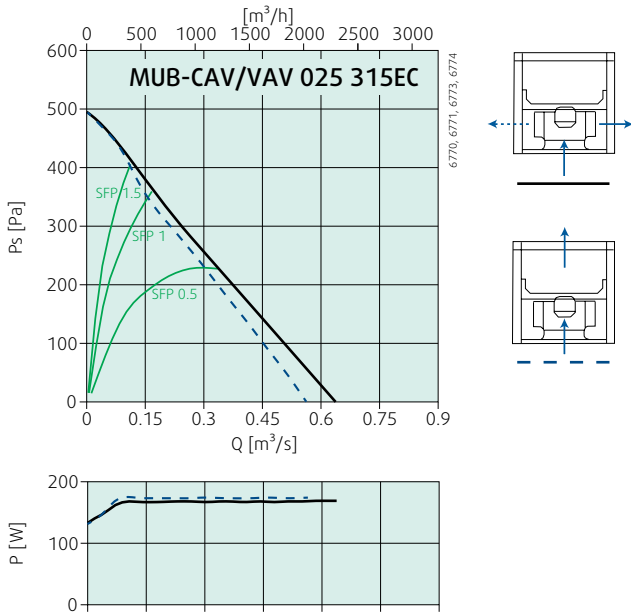
Technical data

MUB-CAV/VAV		MUB-CAV/VAV 025 315EC	MUB-CAV/VAV 025 355EC	MUB-CAV/VAV 042 400EC	MUB-CAV/VAV 042 450EC	MUB-CAV/VAV 042 450EC-K
Art. no.		37168	37169	37170	37171	37485
Voltage	V	230	230	230	400	230
Frequency	Hz	50/60	50/60	50/60	50/60	50
Phase	~	1	1	1	3	1
Input power (P1)	W	168	389	380	1061	599
Current	A	1.19	2.37	2.26	1.79	2.71
Max. airflow	m ³ /h	2293	3182	3881	6336	5080
Fan impeller speed	r.p.m.	1701	1638	1336	1562	1298
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	60	60	60	60	60
Sound pressure level at 3 m (20m ² Sabine)	dB(A)	47.3	53.2	51.8	63.1	56.6
Weight	kg	29	29.5	45.5	56	52.5
Insulation class		B	B	B	F	B
Enclosure class, motor	IP	44	44	44	54	54
Motor protection		Integral	Integral	Integral	Integral	Integral

MUB-CAV/VAV		MUB-CAV/VAV 042 500EC	MUB-CAV/VAV 062 560EC	MUB-CAV/VAV 062 630EC	MUB-CAV/VAV 100 630EC	MUB-CAV/VAV 100 710EC
Art. no.		37172	37173	37174	37486	37175
Voltage	V	400	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	3	3	3	3	3
Input power (P1)	W	1054	1987	2479	2924	6434
Current	A	1.69	3.05	3.8	4.3	8.96
Max. airflow	m ³ /h	6959	10789	12859	17856	26806
Fan impeller speed	r.p.m.	1339	1358	1208	1139	1205
Max. temperature of transported air	°C	60	60	60	60	40
*when voltage-controlled	°C	60	60	60	60	40
Sound pressure level at 3 m (20m ² Sabine)	dB(A)	58.5	64	68.6	68	
Weight	kg	56	101	96.5	167	199
Insulation class		B	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Motor protection		Integral	Integral	Integral	Integral	Integral

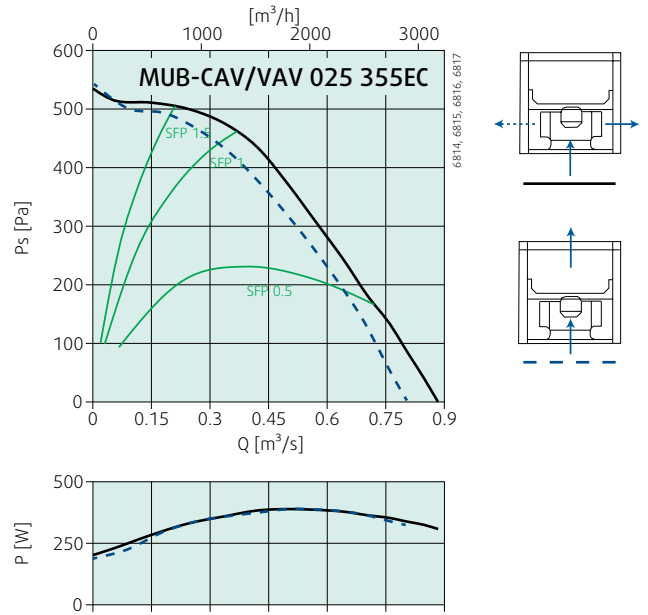


Performance



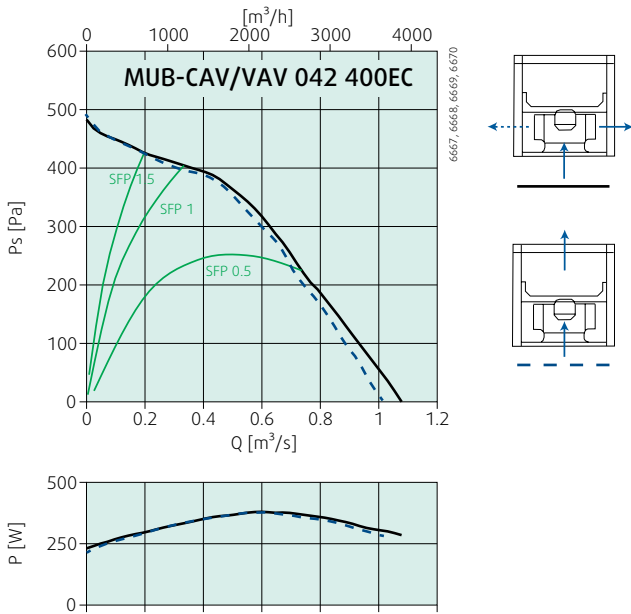
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	68	35	62	57	63	61	56	55	47
L _{WA} Outlet dB(A)	72	48	70	61	65	64	59	55	46
L _{WA} Surrounding dB(A)	54	22	51	45	48	45	44	33	23

Measurement point: 1103 m³/h; 252 Pa



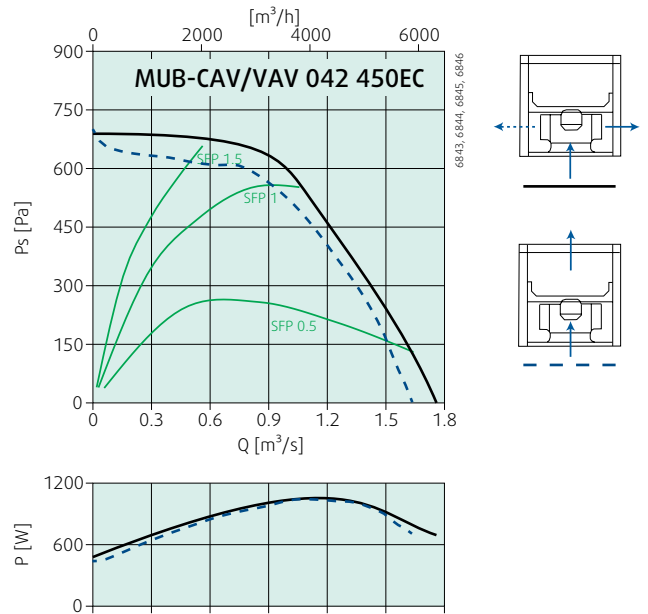
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	75	43	64	65	70	66	68	66	57
L _{WA} Outlet dB(A)	77	43	69	66	70	70	69	66	58
L _{WA} Surrounding dB(A)	60	35	53	53	54	51	53	50	35

Measurement point: 1777 m³/h; 377 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	70	41	60	61	64	65	62	59	51
L _{WA} Outlet dB(A)	74	49	67	64	67	68	65	60	53
L _{WA} Surrounding dB(A)	59	31	51	52	49	54	51	43	29

Measurement point: 2027 m³/h; 337 Pa

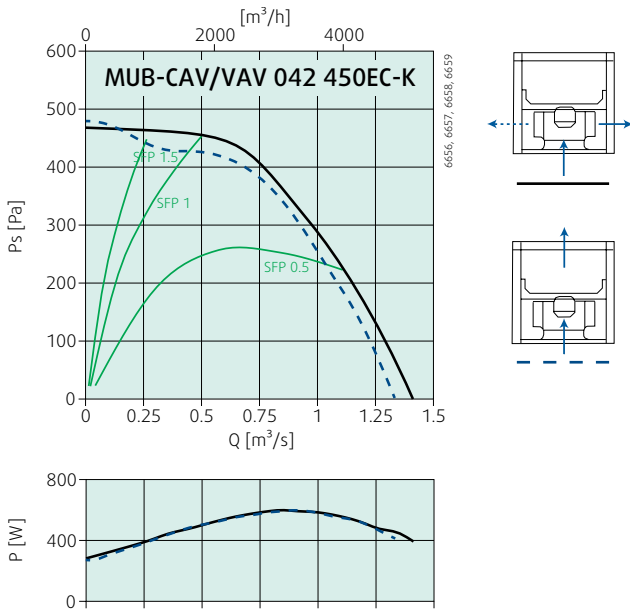


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	78	46	68	70	73	71	70	65	61
L _{WA} Outlet dB(A)	83	68	76	71	76	78	75	68	63
L _{WA} Surrounding dB(A)	70	29	67	62	61	61	59	52	44

Measurement point: 3558 m³/h; 599 Pa

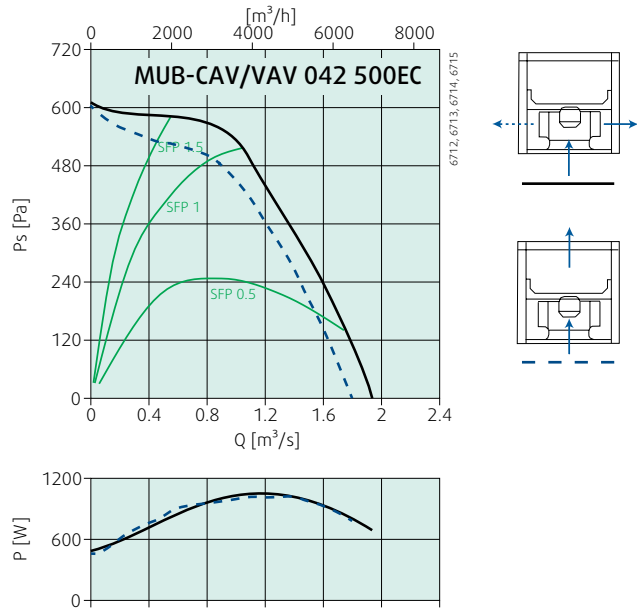


Performance



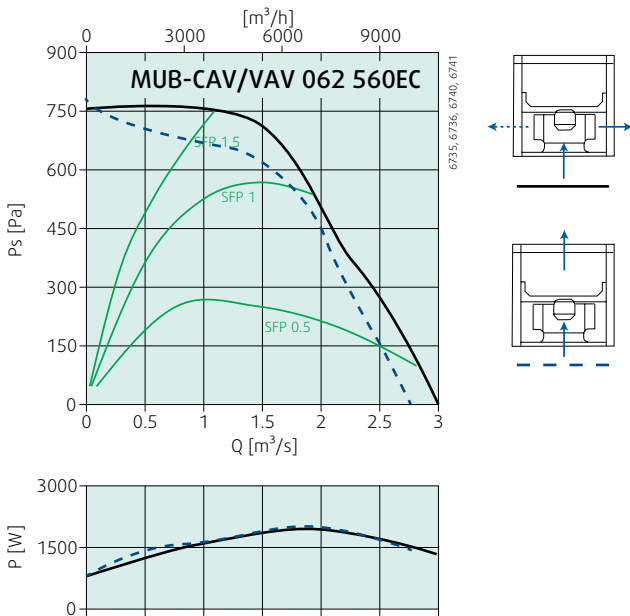
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	78	42	60	63	68	70	75	71	60
L _{WA} Outlet dB(A)	77	47	63	62	68	71	73	68	58
L _{WA} Surrounding dB(A)	64	33	51	52	52	54	61	55	38

Measurement point: 2616 m³/h; 420.6 Pa



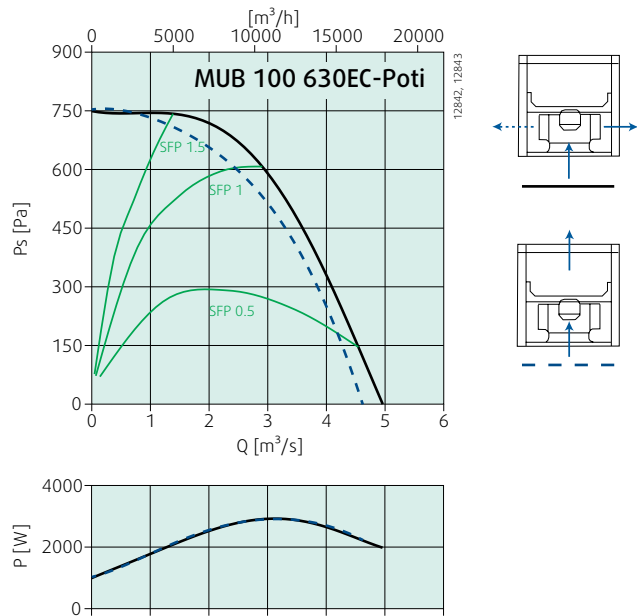
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	77	46	71	69	71	70	69	65	60
L _{WA} Outlet dB(A)	80	49	70	71	75	74	72	67	64
L _{WA} Surrounding dB(A)	65	35	55	61	59	57	56	51	39

Measurement point: 3898 m³/h; 499 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	80	51	71	75	73	74	72	67	63
L _{WA} Outlet dB(A)	77	57	70	70	71	70	67	64	58
L _{WA} Surrounding dB(A)	71	40	66	67	61	60	58	48	36

Measurement point: 5913 m³/h; 678 Pa

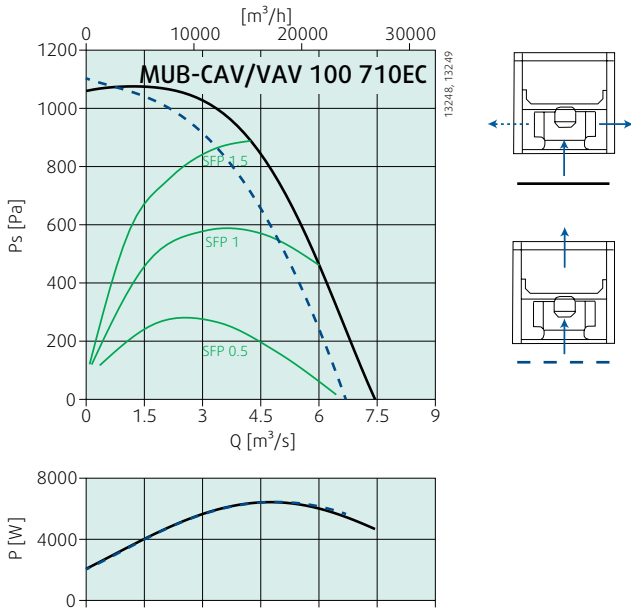


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet dB(A)	82	55	76	77	74	75	74	70	66
L _{WA} Outlet dB(A)	84	59	76	78	77	75	73	69	65
L _{WA} Surrounding dB(A)	77	48	75	68	63	61	60	50	40

Measurement point: 6878 m³/h; 703 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	86	58	80	81	78	79	78	74	70
L_{WA} Outlet dB(A)	88	63	80	82	81	79	77	73	69
L_{WA} Surrounding dB(A)	81	52	79	72	67	65	64	54	44

Measurement point: 16092 m^3/h ; 850 Pa