



Application

The fan is designed for all types of general ventilation installations.

Typical applications include:

- ventilation of apartments and offices,
- ventilation of shops, bars, cafés, restaurants,
- ventilation of classrooms, sound studios, libraries,
- ventilation of industrial kitchens.

Construction

- centrifugal fan with direct drive,
- housing made of aluminum sheet metal,
- fire-resistant acoustic insulation layer (MO fiberglass) with a thickness of 25 mm,
- impeller made of aluminum sheet with backward-curved blades (CVAB),
- impeller made of steel sheet with backward-curved blades (CVAT),
- motor located in the air stream,
- round-profile connection spigots,
- horizontal installation,
- terminal box mounted on the housing (CVAB),
- possibility of outdoor installation with the use of a suitable protective cover (on request).

Electric motor

- single-phase motors 230V, 50Hz (CVAB),
- three-phase motors 230/400V, 50Hz (CVAT),
- three-phase motors 400/690V, 50Hz (CVAT/4-710),
- degree of protection IP44, IP54 or IP55 depending on the model,
- insulation class F,
- suitable for voltage control (single-phase motors),
- suitable for frequency control (three-phase motors),
- thermal winding protection against overload.



RELATED PRODUCTS



**CVAB/T-N
ECOWATT**
In-line duct fans
with EC motor



CVAT EX
Duct fan
for explosion-hazard
zones





NOMINAL DATA

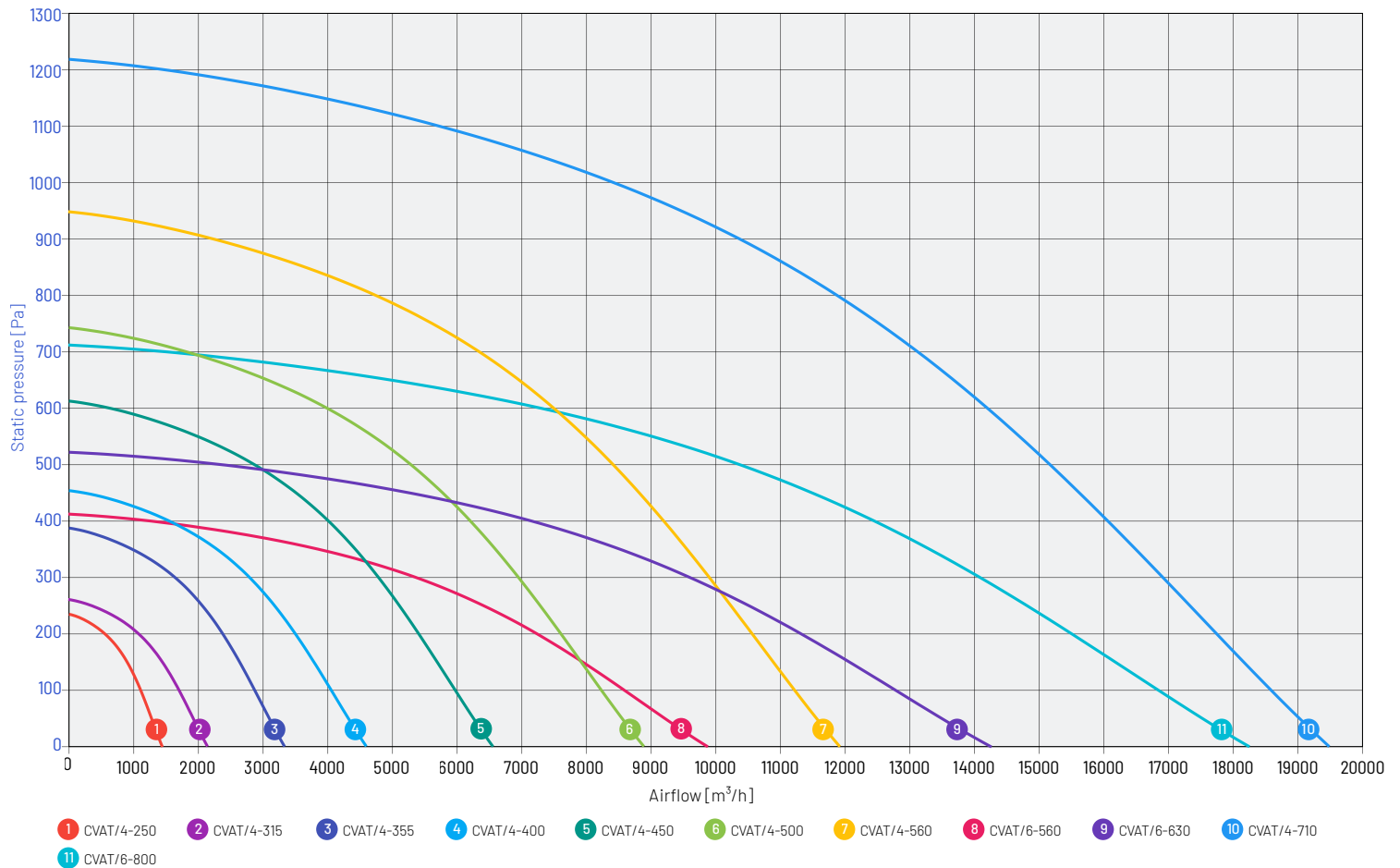
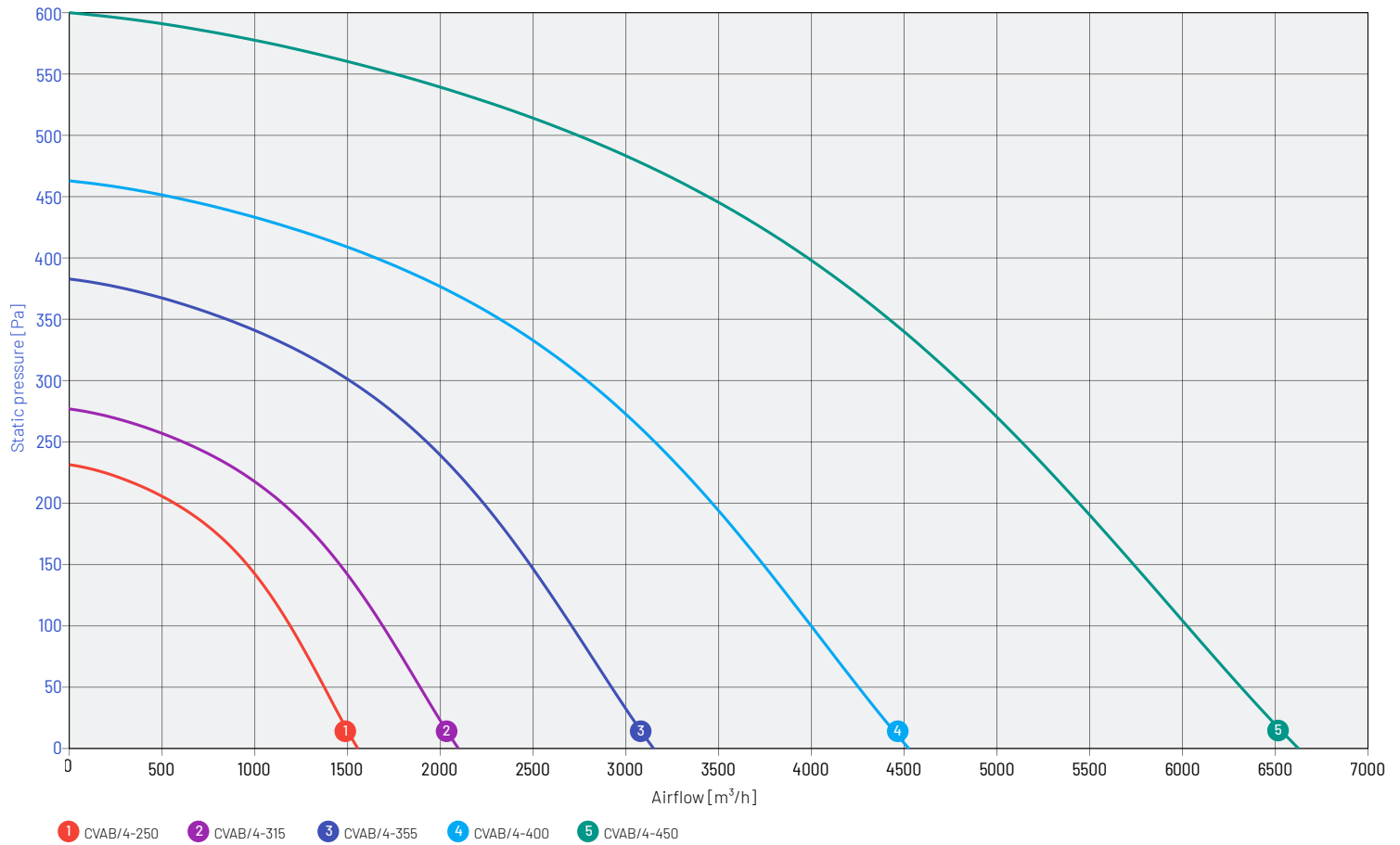
type	airflow max	pressure max	speed	voltage rated	current max abs.** 230 / 400V	power max abs.	sound pressure level*	operating temperature min / max	weight	article number
SINGLE-PHASE MOTORS										
CVAB/4-250	1 550 m³/h	230 Pa	1 430 rpm	1~230 V	0,6 A	130 W	42 dB(A)	-40 / 50 °C	22,5 kg	41020325-01
CVAB/4-315	2 080 m³/h	280 Pa	1 440 rpm	1~230 V	0,8 A	180 W	41 dB(A)	-40 / 50 °C	24,3 kg	41020335-01
CVAB/4-355	3 170 m³/h	385 Pa	1 430 rpm	1~230 V	1,5 A	350 W	51 dB(A)	-40 / 50 °C	27,0 kg	41020345-01
CVAB/4-400	4 520 m³/h	465 Pa	1 420 rpm	1~230 V	2,8 A	650 W	54 dB(A)	-40 / 60 °C	28,8 kg	41020355-01
CVAB/4-450	6 620 m³/h	600 Pa	1 420 rpm	1~230 V	4,3 A	990 W	58 dB(A)	-40 / 50 °C	28,8 kg	41020365-01
THREE-PHASE MOTORS										
CVAT/4-250	1 560 m³/h	230 Pa	1 420 rpm	3~230/400 V	0,3 A	140 W	40 dB(A)	-40 / 50 °C	22,5 kg	41020525-01
CVAT/4-315	2 110 m³/h	265 Pa	1 370 rpm	3~230/400 V	0,6 / 0,4 A	150 W	43 dB(A)	-40 / 70 °C	24,3 kg	41020535-01
CVAT/4-355	3 280 m³/h	390 Pa	1 450 rpm	3~230/400 V	1,8 / 1,1 A	420 W	46 dB(A)	-40 / 70 °C	27,0 kg	41020545-01
CVAT/4-400	4 540 m³/h	460 Pa	1 410 rpm	3~230/400 V	2,1 / 1,2 A	490 W	49 dB(A)	-40 / 60 °C	28,8 kg	41020555-01
CVAT/4-450	6 600 m³/h	610 Pa	1 430 rpm	3~230/400 V	1,9 A	760 W	53 dB(A)	-40 / 70 °C	31,5 kg	41020565-01
CVAT/4-500	8 920 m³/h	750 Pa	1 430 rpm	3~230/400 V	5,8 / 3,3 A	1330 W	61 dB(A)	-40 / 70 °C	60,3 kg	41020575-01
CVAT/4-560	11 920 m³/h	950 Pa	1 430 rpm	3~230/400 V	7,4 / 4,2 A	1700 W	67 dB(A)	-40 / 50 °C	81,0 kg	41020695
CVAT/6-560	9 920 m³/h	410 Pa	930 rpm	3~230/400 V	3,7 / 2,1 A	840 W	59 dB(A)	-40 / 70 °C	81,0 kg	
CVAT/6-630	14 210 m³/h	530 Pa	940 rpm	3~230/400 V	6,2 / 3,6 A	1420 W		-40 / 50 °C	81,0 kg	41020607-01
CVAT/4-710	19 505 m³/h	1 220 Pa	1 480 rpm	3~400/690 V	16,5 / 9,5 A	6580 W		-40 / 50 °C	81,0 kg	
CVAT/6-800	18 210 m³/h	710 Pa	985 rpm	3~230/400 V	10,3 / 5,9 A	2360 W		-40 / 50 °C	81,0 kg	

* Measurement made at a distance of 1.5m from the outlet,

** Value of the rated current may vary depending on the manufacturer of the electric motor used.

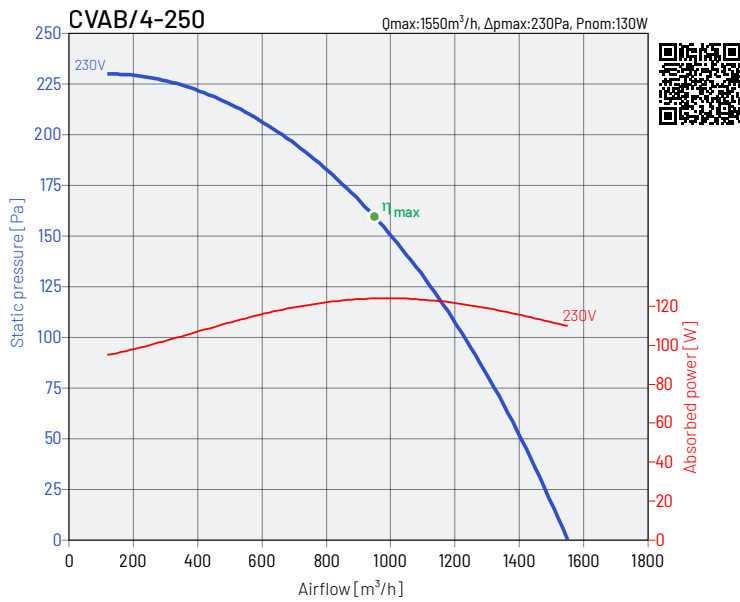


PERFORMANCE CURVES OF THE FANS

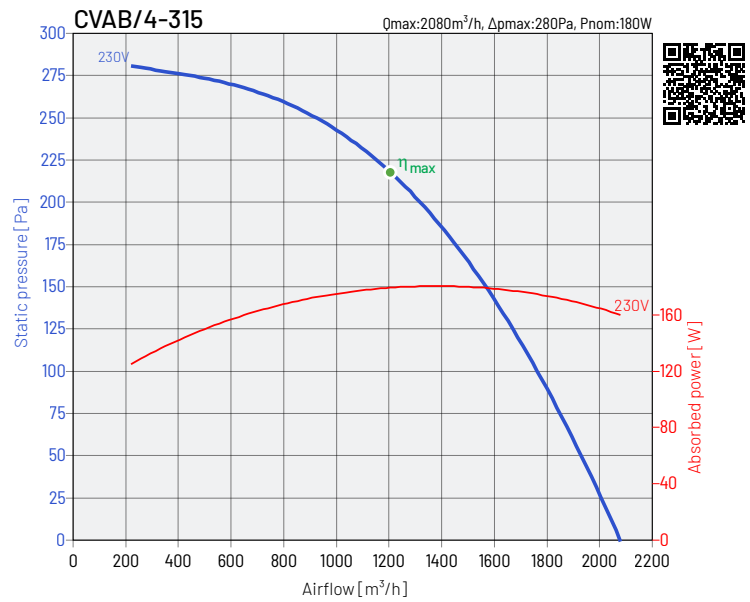




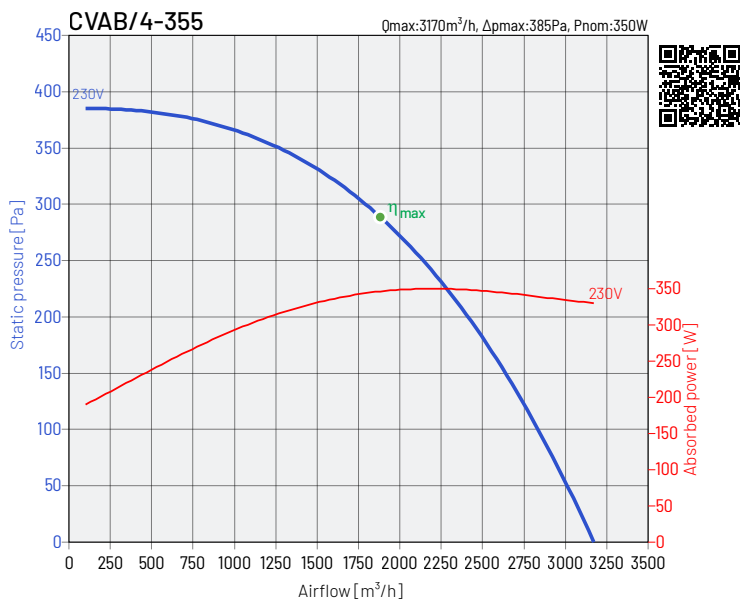
PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



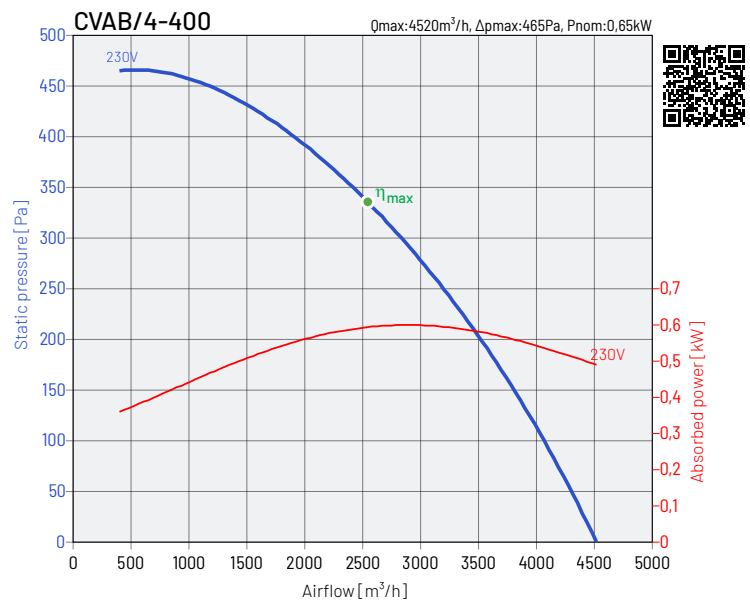
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	23	51	48	49	49	46	49	35	57
outlet	18	39	43	46	49	51	50	35	56
emitted	17	33	34	33	32	30	38	23	42



Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	24	54	47	49	48	47	43	35	57
outlet	22	41	42	58	51	52	46	35	60
emitted	18	36	32	32	32	32	31	23	41



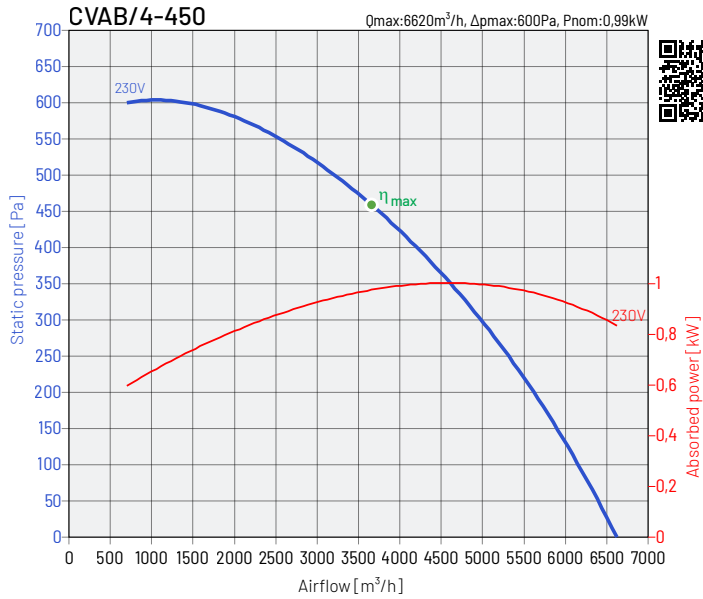
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	30	52	57	60	57	55	54	48	64
outlet	26	42	49	52	62	60	55	47	65
emitted	21	42	46	40	47	32	33	27	51



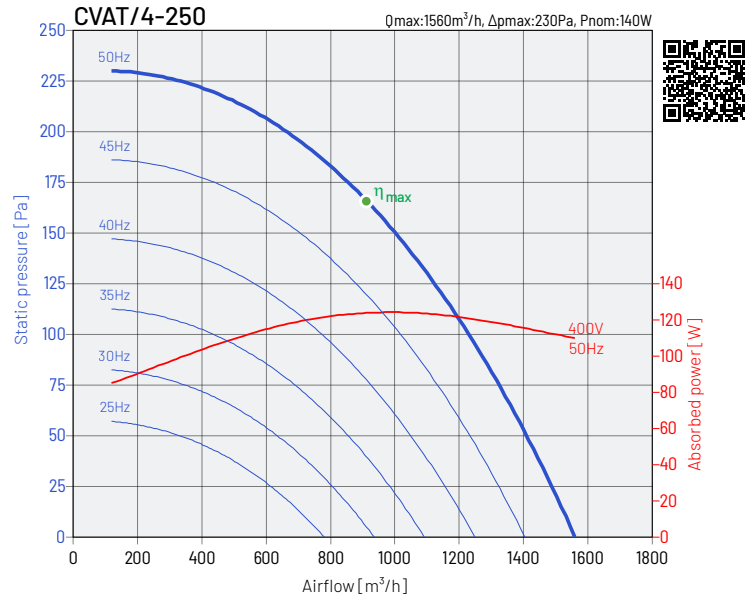
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	33	55	60	63	61	58	58	52	68
outlet	29	45	52	56	66	63	59	50	69
emitted	24	45	49	43	50	36	36	31	54



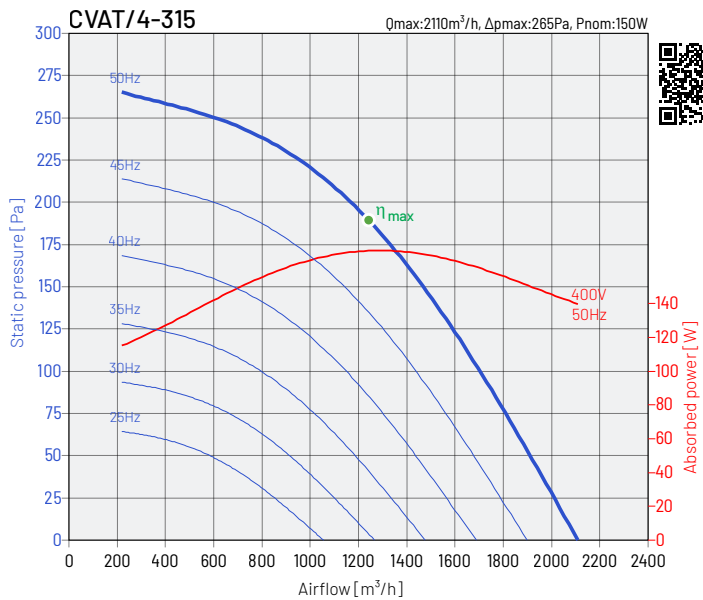
PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



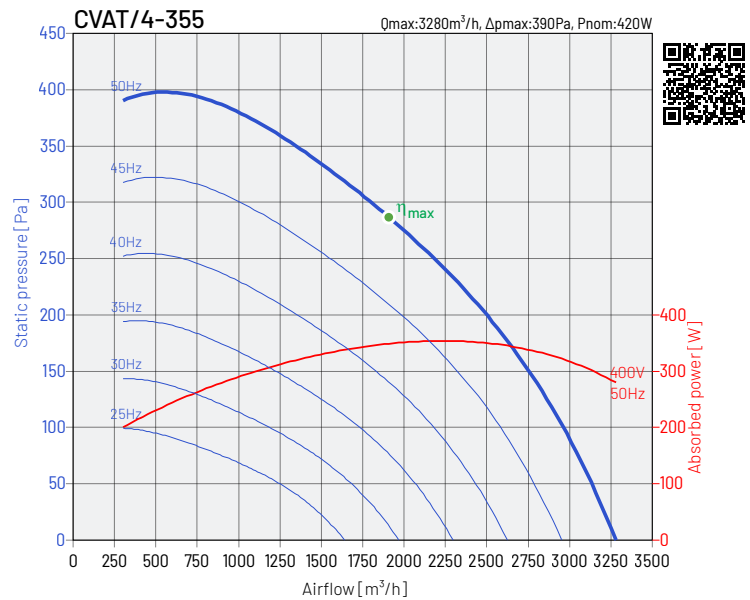
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	37	59	64	67	64	62	61	55	71
outlet	33	49	56	59	69	67	62	54	72
emitted	28	49	53	47	54	39	40	34	58



Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	21	42	49	50	50	46	47	40	56
outlet	29	38	42	46	48	51	44	35	54
emitted	14	31	34	33	30	30	32	27	40



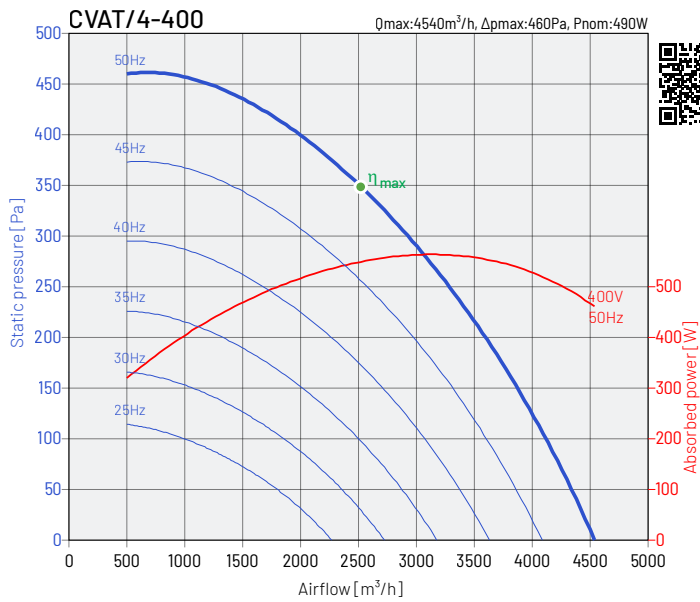
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	24	45	52	53	53	49	50	43	59
outlet	32	41	45	49	50	54	47	38	57
emitted	16	34	37	35	33	33	35	30	43



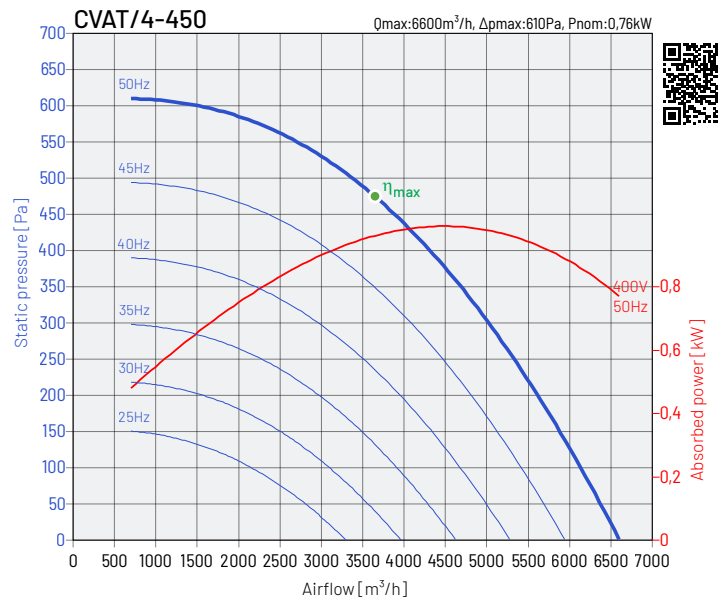
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	27	55	57	59	57	55	53	49	65
outlet	26	40	49	52	63	60	55	48	65
emitted	19	39	41	34	35	35	34	34	46



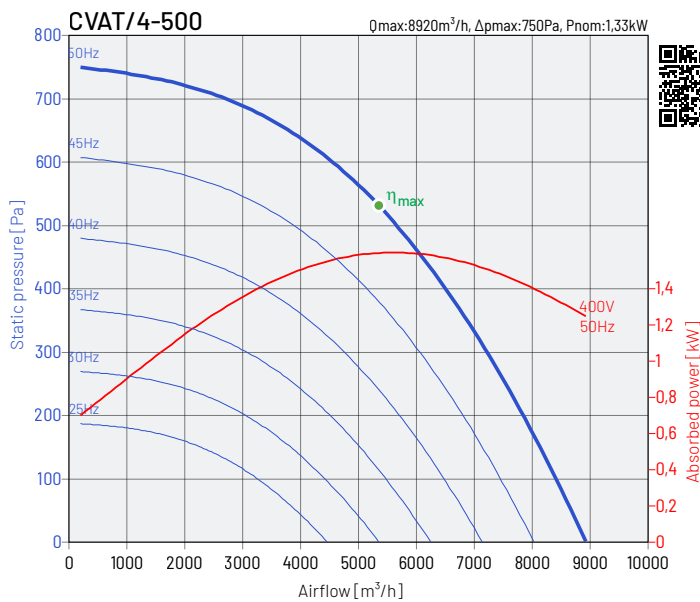
PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



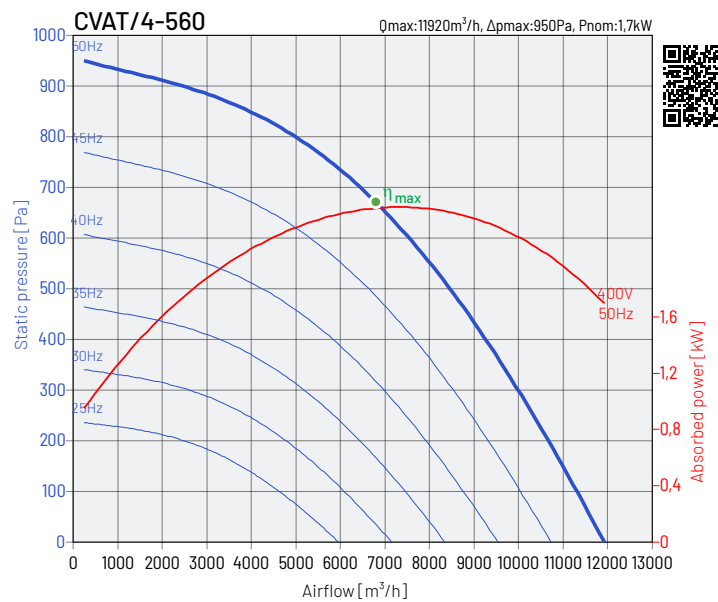
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	30	59	60	62	61	58	56	52	68
outlet	29	43	52	55	66	63	58	51	69
emitted	23	42	44	37	38	38	37	37	49



Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	34	62	64	66	64	62	60	56	72
outlet	33	47	56	59	70	67	62	55	72
emitted	26	46	48	41	42	42	41	41	53



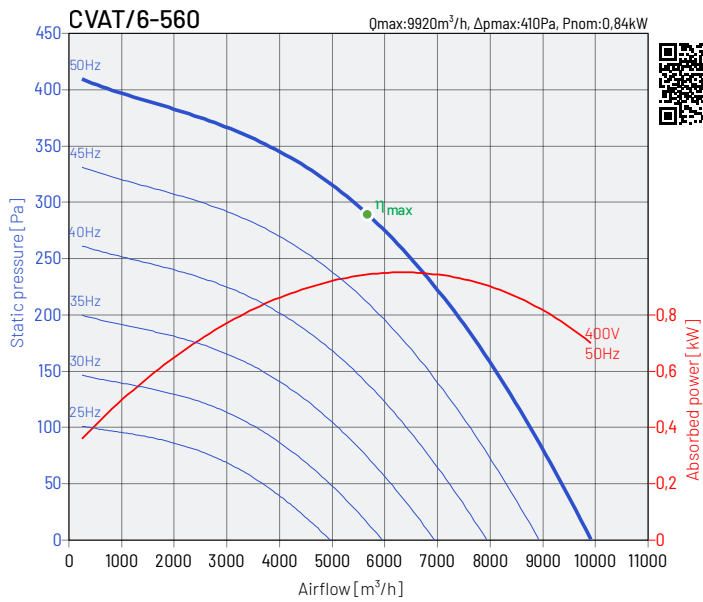
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	40	63	64	69	65	65	64	59	74
outlet	42	55	63	69	76	70	68	60	78
emitted	34	50	55	49	53	47	55	50	61



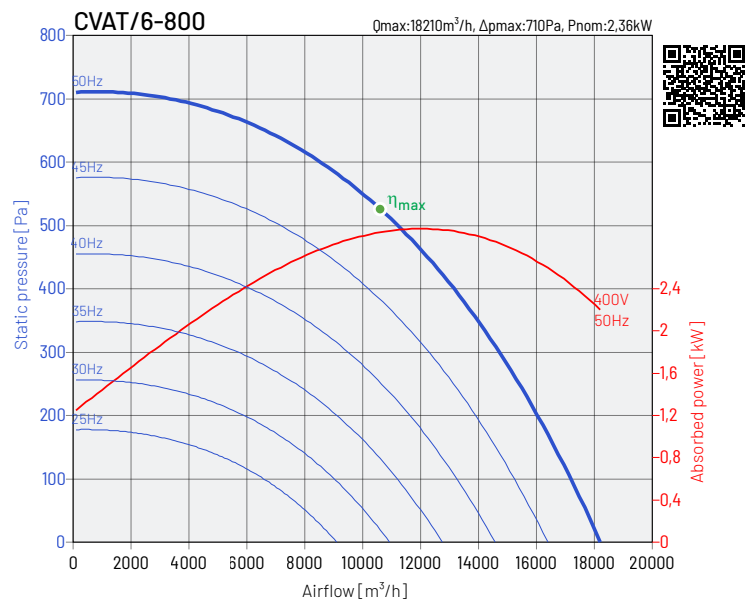
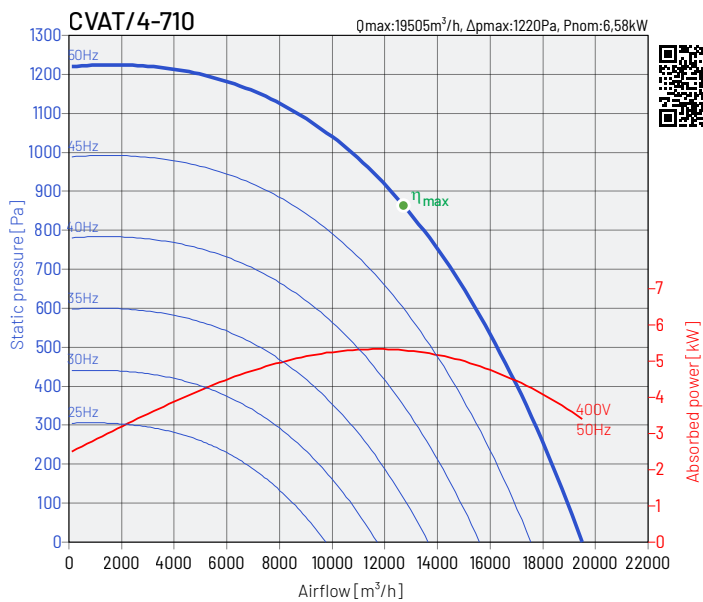
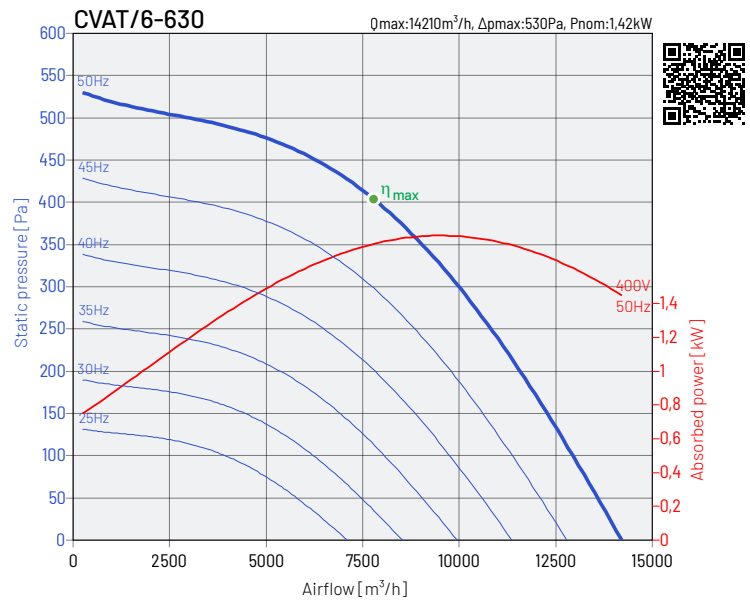
Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	40	64	68	73	69	69	70	62	78
outlet	42	56	65	75	81	74	73	62	83
emitted	31	59	58	59	56	59	61	50	67



PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



Hz / dB(A)	63	125	250	500	1000	2000	4000	8000	L_{PA}
inlet	36	64	60	62	59	61	57	51	69
outlet	37	52	58	65	71	65	59	52	73
emitted	28	55	50	55	43	42	37	35	59





ECO PROJECT

Type	CVAB/4-250	CVAB/4-315	CVAB/4-355	CVAB/4-400	CVAB/4-450
a Supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b Article number	41020325-01	41020335-01	41020345-01	41020355-01	41020365-01
c Device category	NRVU	NRVU	NRVU	NRVU	NRVU
c Device type	UVU	UVU	UVU	UVU	UVU
d Type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e Type of heat recovery system	not applicable	not applicable	not applicable	not applicable	not applicable
f Thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable	not applicable
g Reference flow rate in NRVU [m³/s]	0,25	0,34	0,49	0,68	1,02
h Electric power input [kW]	0,12	0,19	0,34	0,58	0,99
i SFPint [W/(m³/s)]	0,5034	0,55	0,6907	0,8528	0,974
j Face velocity [m/s]	5,02	4,34	4,98	5,44	6,4
k Δps, ext [Pa]	168,24	215,69	295	347,15	455,36
l Δps, int [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
m Δps, add [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
n Static efficiency of fans [%]	33,4	39,2	43	41	47
o Maximum external leakage rate [%]	1	1	1	1	1
p Energy performance	not applicable	not applicable	not applicable	not applicable	not applicable
q Visual filter warning	not applicable	not applicable	not applicable	not applicable	not applicable
r L _{WA} [dB(A)]	65	68	74	77	81
s Internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

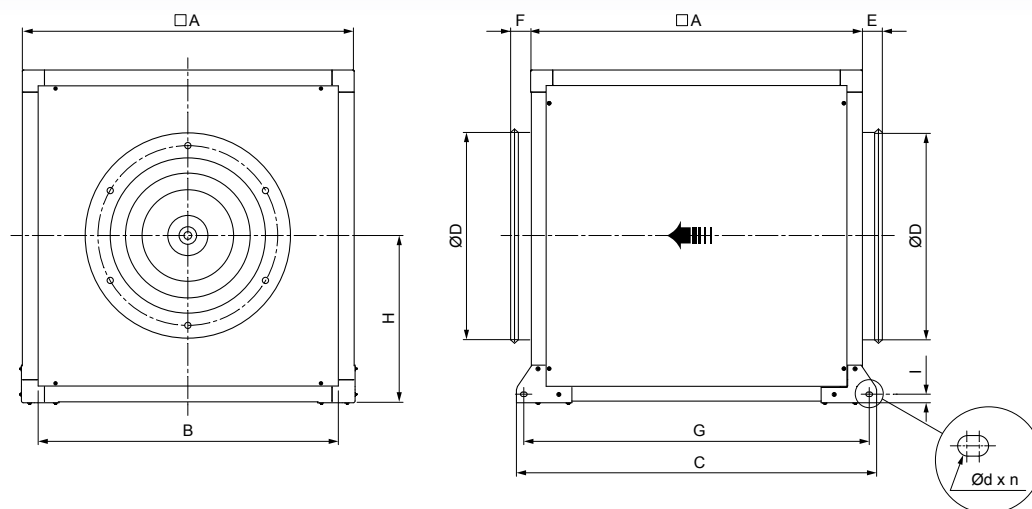
Type	CVAT/4-250	CVAT/4-315	CVAT/4-355	CVAT/4-400	CVAT/4-450	CVAT/4-500
a Supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b Article number	41020525-01	41020535-01	41020545-01	41020555-01	41020565-01	41020575-01
c Device category	NRVU	NRVU	NRVU	NRVU	NRVU	NRVU
c Device type	UVU	UVU	UVU	UVU	UVU	UVU
d Type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e Type of heat recovery system	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
f Thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
g Reference flow rate in NRVU [m³/s]	0,25	0,34	0,53	0,7	1,01	1,37
h Electric power input [kW]	0,12	0,17	0,35	0,55	0,96	1,58
i SFPint [W/(m³/s)]	0,5013	0,4943	0,654	0,7858	0,95	1,1529
j Face velocity [m/s]	5,03	4,39	5,38	5,57	6,37	6,99
k Δps, ext [Pa]	168,22	187,18	289,21	351,13	471,99	563,12
l Δps, int [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
m Δps, add [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
n Static efficiency of fans [%]	34	38	44	45	50	49
o Maximum external leakage rate [%]	1	1	1	1	1	1
p Energy performance	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
q Visual filter warning	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable
r L _{WA} [dB(A)]	63	66	73	76	80	85
s Internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

Type	CVAT/4-560	CVAT/6-560	CVAT/6-630	CVAT/4-710	CVAT/6-800
a Supplier name	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES	VENTURE INDUSTRIES
b Article number	41020695		41020607-01		
c Device category	NRVU	NRVU	NRVU	NRVU	NRVU
c Device type	UVU	UVU	UVU	UVU	UVU
d Type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e Type of heat recovery system	not applicable	not applicable	not applicable	not applicable	not applicable
f Thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable	not applicable
g Reference flow rate in NRVU [m³/s]	1,96	1,64	2,17	3,39	2,95
h Electric power input [kW]	2,42	0,95	1,77	5,32	2,94
i SFPint [W/(m³/s)]	1,2359	0,5787	0,8161	1,5699	0,9971
j Face velocity [m/s]	7,96	6,65	6,96	8,55	5,87
k Δps, ext [Pa]	643,27	276,07	394,95	890,37	521,06
l Δps, int [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
m Δps, add [Pa]	not applicable	not applicable	not applicable	not applicable	not applicable
n Static efficiency of fans [%]	52	48	49	57	52,3
o Maximum external leakage rate [%]	1	1	1	1	1
p Energy performance	not applicable	not applicable	not applicable	not applicable	not applicable
q Visual filter warning	not applicable	not applicable	not applicable	not applicable	not applicable
r L _{WA} [dB(A)]	85	79	88	89	87
s Internet address	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu	www.ventur.eu

*NRVU - „non-residential ventilation unit“ - according to COMMISSION REGULATION (EU) No 1254/2014.

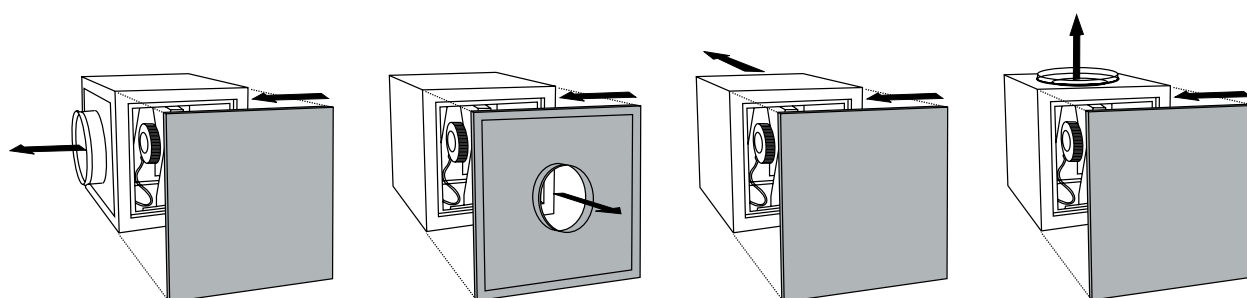


DIMENSIONS



type	A mm	B mm	C mm	ØD mm	E mm	F mm	G mm	H mm	Ød mm	n mm
CVAB/T 250	500	440	578	250	45	55	534	250	12	18
CVAB/T 315	500	440	578	315	45	55	534	250	12	18
CVAB/T 355	600	540	678	355	45	55	634	300	12	18
CVAB/T 400	600	540	678	400	45	55	634	300	12	18
CVAB/T 450	700	620	779	450	45	55	734	350	12	18
CVAB/T 500	800	720	879	500	45	55	834	400	12	18
CVAB/T 560	1000	920	1079	560	45	55	1039	500	12	18
CVAB/T 630	1000	920	1079	630	45	55	1039	500	12	18
CVAB/T 710	1000	920	1079	710	45	55	1039	500	12	18
CVAB/T 800	1000	920	1079	800	45	55	1039	500	12	18

MOUNTING ALTERNATIVE





MOUNTING ACCESSORIES



type	duct filter DF	duct filter DF-K	cartridge filter EU3	cartridge filter EU5	cartridge filter EU7	antivibration connector ACOP PL	backdraft shutter CAR-PL	throttle IRIS	cover CTI CVA-N
CVAB/T-250	DF 250	DF-K 250	EU3 100-250mm	EU5 100-250mm	EU7 100-250mm	ACOP PL 250	CAR-PL 250	IRIS 250	CTI CVA-N 250/315
CVAB/T-315	DF 315	DF-K 315	EU3 315-450mm	EU5 315-450mm	EU7 315-450mm	ACOP PL 315	CAR-PL 315	IRIS 315	CTI CVA-N 250/315
CVAB/T-355	DF 355	DF-K 355	EU3 315-450mm	EU5 315-450mm	EU7 315-450mm	ACOP PL 355	CAR-PL 355	-	CTI CVA-N 355/400
CVAB/T-400	DF 400	DF-K 400	EU3 315-450mm	EU5 315-450mm	EU7 315-450mm	ACOP PL 400	CAR-PL 400	IRIS 400	CTI CVA-N 355/400
CVAB/T-450	-	DF-K 450	EU3 315-450mm	EU5 315-450mm	EU7 315-450mm	-	-	-	CTI CVA-N 450
CVAT-500	-	DF-K 500	-	-	-	-	-	IRIS 500	CTI CVA-N 500
CVAT-560	-	DF-K 560	-	-	-	-	-	-	CTI CVA-N 560
CVAT-630	-	-	-	-	-	-	-	IRIS 630	CTI CVA-N 630
CVAT-710	-	-	-	-	-	-	-	-	CTI CVA-N 710
CVAT-800	-	-	-	-	-	-	-	IRIS 800	CTI CVA-N 800

Article numbers

40520650 DF 250	40521730 DF-K 250	40520800 EU3 100-250mm	40521830 ACOP PL 250	19527250 IRIS 250	41022482-01 CTI CVA-N 250/315
40520660 DF 315	40521735 DF-K 315	40520830 EU3 315-450mm	40521835 ACOP PL 315	19527315 IRIS 315	41022482-02 CTI CVA-N 355/400
40520670 DF 355	40521740 DF-K 355	40520805 EU5 100-250mm	40521840 ACOP PL 355	19527400 IRIS 400	41022482-03 CTI CVA-N 450
40520675 DF 400	40521745 DF-K 400	40520835 EU5 315-450mm	40521845 ACOP PL 400	19527500 IRIS 500	41022482-04 CTI CVA-N 500
	40521750 DF-K 450	40520810 EU7 100-250mm	40521050-01 CAR-PL 250	19527630 IRIS 630	41022482-05 CTI CVA-N 560
	40521755 DF-K 500	40520840 EU7 315-450mm	40521060-01 CAR-PL 315	19527800 IRIS 800	41022482-06 CTI CVA-N 630
	40521760 DF-K 560		40521065-01 CAR-PL 355		41022482-07 CTI CVA-N 710
			40521070-01 CAR-PL 400		41022482-08 CTI CVA-N 800



ELECTRICAL ACCESSORIES - Single-phase motors



type	wall thermostat	duct thermostat	air quality sensor	humidistat	thyristor regulator			thyrist. reg. 2-pos 6-speed	transformer regulator		2-speed transformer regulator	
	TS	TK-1	SQA	HIG-2	REB N	REB NE	TLR	RND-1	RMB	RVS	SC2	SC2A
CVAB/4-250	TS	TK-1	SQA	HIG-2	REB-1 N	REB-1 NE	TLR 15 DS	RND-1	RMB-1,5	RVS-1,5	SC2-1-15L25	SC2A1-15L25
CVAB/4-315	TS	TK-1	SQA	HIG-2	REB-1 N	REB-1 NE	TLR 15 DS	RND-1	RMB-1,5	RVS-1,5	SC2-1-15L25	SC2A1-15L25
CVAB/4-355	TS	TK-1	SQA	HIG-2	REB-2,5 N	REB-2,5 NE	TLR 15 DS	RND-1	RMB-1,5	RVS-1,5	SC2-1-15L25	SC2A1-15L25
CVAB/4-400	TS	TK-1	SQA	HIG-2	REB-2,5 N	REB-2,5 NE	TLR 25 DS	RND-1	RMB-3,5	RVS-3	SC2-1-25L25	SC2A1-25L25
CVAB/4-450	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	REB-5	-	-	-	RMB-8	RVS-5	SC2-1-50L25	SC2A1-50L25

ELECTRICAL ACCESSORIES - Three-phase motors



type	wall thermostat	duct thermostat	air quality sensor	humidistat	inverter
	TS	TK-1	SQA	HIG-2	L
CVAT/4-250	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 0.75kW
CVAT/4-315	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 0.75kW
CVAT/4-355	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 0.75kW
CVAT/4-400	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 0.75kW
CVAT/4-450	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 0.75kW
CVAT/4-500	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 1.5kW
CVAT/4-560	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	L 2.2kW
CVAT/6-560	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	?
CVAT/6-630	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	?
CVAT/4-710	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	?
CVAT/6-800	TS + DILM7	TK-1 + DILM7	SQA + DILM7	HIG-2 + DILM7	?

Article numbers

91040997 DILM 7-10
40025345 TS
40025330 TK-1
40025140 SQA
40025150 HIG-2

40025010 REB-1 N
40025030 REB-2.5 N
40025051 REB-5
40025020 REB-1 NE
40025040 REB-2.5 NE
40025025 TLR 15 DS
40025045 TLR 25 DS
40025630 RND-1

40025060 RMB-1.5
40025070 RMB-3.5
40025080 RMB-8
40025232 RVS-1.5
40025234 RVS-3
40025235 RVS-5

40025250 SC2-1-15L25
40025252 SC2-1-25L25
40025256 SC2-1-50L25
40025251 SC2A1-15L25
40025253 SC2A1-25L25
40025257 SC2A1-50L25

40016312 L 0.75kW
40016322 L 1.5kW
40016332 L 2.2kW