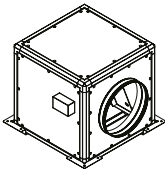
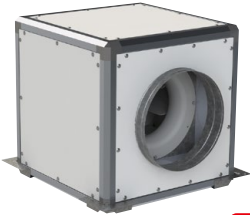


CVAB-N, CVAT-N Ekonovent®

13



EC motor



ErP conform

Technical parameters

Box

Frame construction with 45 mm thick sandwich side panels that are attached to the cabinet frame with self-tapping screws. The sandwich panels consist of an outer painted and inner galvanised sheet, with a sound-insulating mineral wool glass filling inside. The individual panels can be removed for service and maintenance. On the inlet and outlet, the enclosure is fitted with a circular neck for the connection of pipes with a lip seal. The cabinet can be suspended from the ceiling via steel hinges in the bottom of the cabinet (up to unit size CVAT/10-9000). From unit size CVAT/10-12000 to CVAT/10-16000, the cabinet is fitted with a frame on the bottom for suspension from the ceiling. The motor and fan are mounted on a common rigid frame and isolated from the cabinet by rubber vibration isolators. The cabinet is pressurised when the fan is in operation.

Impeller

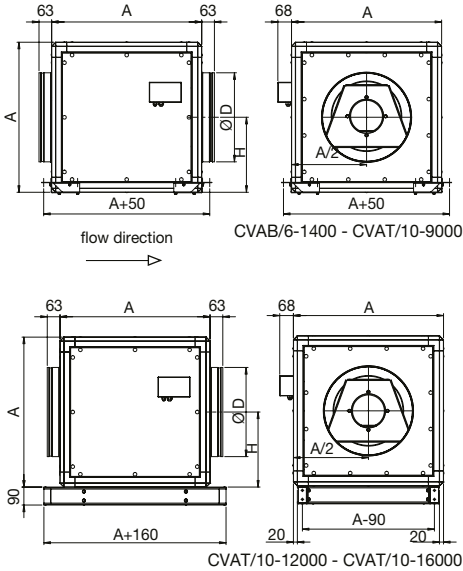
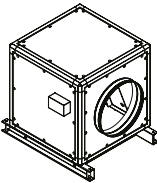
radial with backward curved blades made of special composite material. The wheel is statically and dynamically balanced.

Motor

EC motor with infinitely variable speed control using a 0...10 V signal. Motor protection IP54, operating temperature range -20 to +60 °C. Motor efficiency class IE4.

Speed control

The fans can be controlled in the full 0...10 V motor control range. The minimum fan speed value corresponds to 0.5 V (start value).



Type	A [mm]	D [mm]	H [mm]
CVAB/6-1400	500	250	250
CVAB/6-2000	500	315	250
CVAB/10-3000	650	355	325
CVAB/10-4000	650	400	325

Staples

for power and control voltage connection is accessible on the side panel of the enclosure.

Installation

only in the position shown in the diagram with the motor axis horizontal. The location of the discharge spout can be changed during installation by interchanging the spout panel with either side or top solid panel.

Instructions

The fans are suitable for air handling applications where low fan noise is advantageous – for ventilation of restaurants, kitchens, sports halls, hospitals, warehouses.

Type	A [mm]	D [mm]	H [mm]
CVAT/10-6000	750	450	375
CVAT/10-9000	800	500	400
CVAT/10-12000	900	560	450
CVAT/10-15000	1000	630	500
CVAT/10-16000	1100	710	550

HVAC accessories

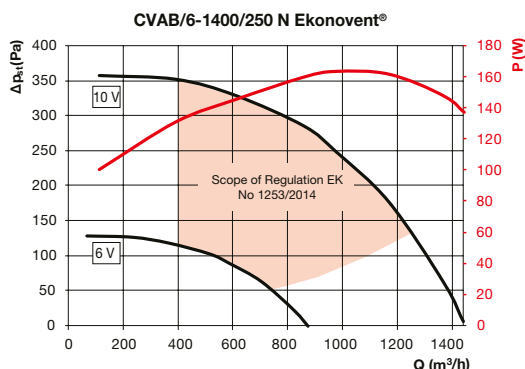
- VBM, KAA – connecting sleeves (K 7.1)
- MSK, MSKT – throttle valves (K 7.1)
- MAA, MTS – dampers (K 7.1)
- MBE – electric heaters (K 7.1)
- MBW – water heaters (K 7.1)
- MFL – filters (K 7.1)
- CSC-N – outdoor canopy (K 7.1)

EL accessories

- DTS PSA – pressure switches (K 8.2)
- REB Ecowatt – speed controller (K 8.1)
- Digireg® – digital control system (K 9)
- AIRSENS intel. sensors RH, VOC, CO2 (K 8.2)
- CONTROL Ecowatt Basic speed controller (K 8.1)
- CVF Ecowatt speed controller (K 8.1)

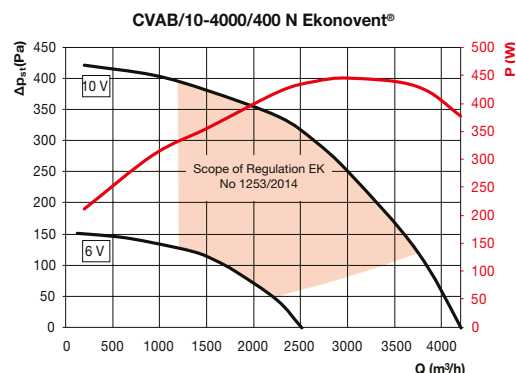
Type	max. speed [min ⁻¹]	power [W]	supply voltage [V]	current [A]	flow (0 Pa) [m³/h]	weight [kg]
CVAB/6-1400/250 N Ekonovent®	1993	164	1 × 230 V / 50 Hz	0,7	1420	38,5
CVAB/6-2000/315 N Ekonovent®	1472	174		0,75	2020	38,8
CVAB/10-3000/355 N Ekonovent®	1380	276		1,3	3020	62,3
CVAB/10-4000/400 N Ekonovent®	1372	445		2,1	4200	63,6
CVAT/10-6000/450 N Ekonovent®	1354	728	3 × 400 V / 50 Hz	1,2	5950	87,8
CVAT/10-9000/500 N Ekonovent®	1411	1543		2,4	9100	107,1
CVAT/10-12000/560 N Ekonovent®	1346	2230		3,45	12400	140,0
CVAT/10-15000/630 N Ekonovent®	1129	2306		3,6	14990	170,6
CVAT/10-16000/710 N Ekonovent®	1244	3078		4,8	15900	190,4

Characteristics



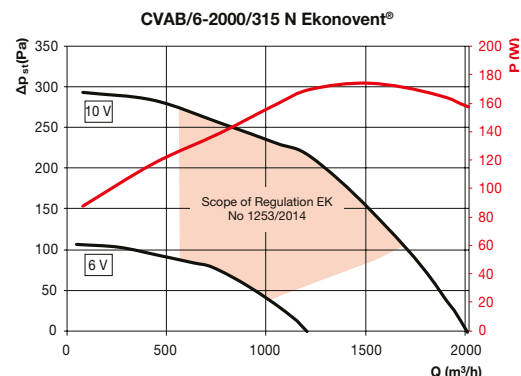
Total sound power levels L_{WAot} [dB(A)]

Q (m³/h)	113	393	611	860	976	1170	1374	1480	1570
suction	63	64	61	60	60	62	63	64	65
displacement	70	70	68	66	66	68	70	71	72



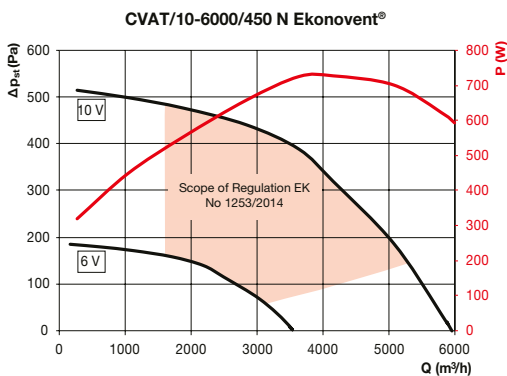
Total sound power levels L_{WAot} [dB(A)]

Q (m³/h)	200	936	1515	2272	2650	3030	3743	4277	4856
suction	69	70	68	65	64	64	66	69	74
displacement	77	76	74	72	71	71	73	75	79



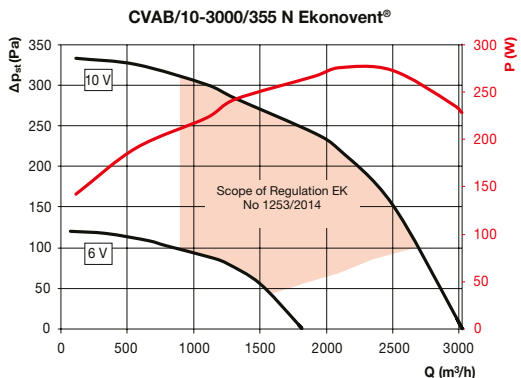
Total sound power levels L_{WAot} [dB(A)]

Q (m³/h)	81	435	767	1051	1224	1525	1869	2172	2535
suction	64	64	62	60	59	59	59	61	64
displacement	70	69	68	66.5	66	65	65	67	70



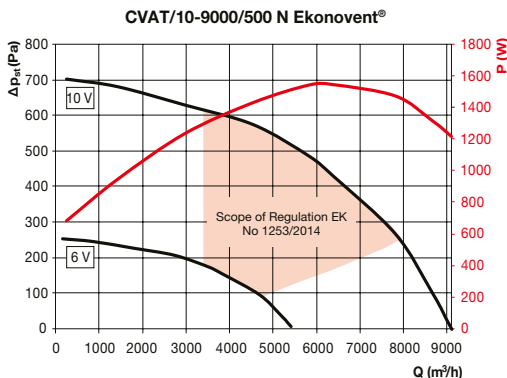
Total sound power levels L_{WAot} [dB(A)]

Q (m³/h)	272	1040	1881	2847	4158	5074	5792	6436	6807
suction	72	72	71	68	67	69	72	75	78
displacement	79	79	78	74	73	75	77	80	82



Total sound power levels L_{WAot} [dB(A)]

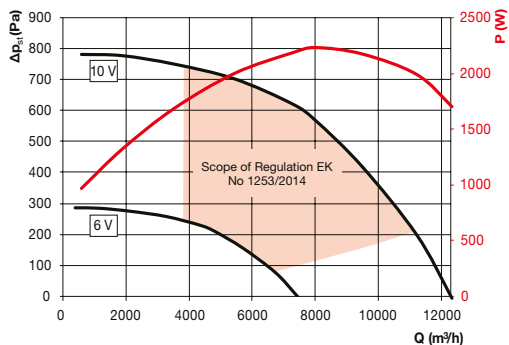
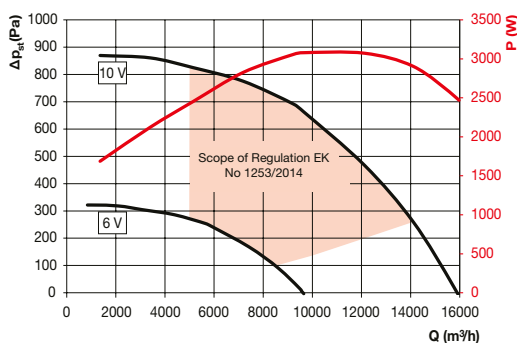
Q (m³/h)	113	567	1101	1311	1910	2093	2493	2963	3334
suction	65	65	63	62	60	60	61	65	68
displacement	72	72	69	68	67	67	69	71	73



Total sound power levels L_{WAot} [dB(A)]

Q (m³/h)	258	1432	2975	4555	6392	7824	8669	9477	10138
suction	79	79	77	73	72	73	76	78	80
displacement	86	86	84	80	79	81	83	84	86

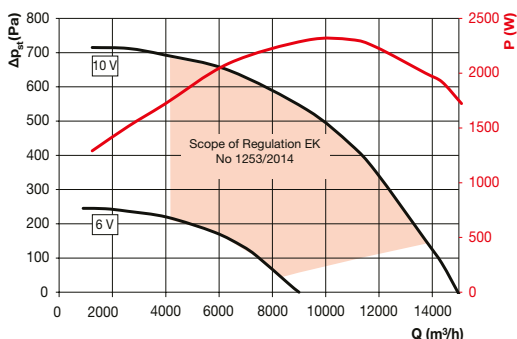
Characteristics

CVAT/10-12000/560 N Ekonovent®**CVAT/10-16000/710 N Ekonovent®****Total sound power levels L_{WATot} [dB(A)]**

Q (m^3/h)	579	1871	3520	5436	7262	9490	11228	12342	13455
suction	80	79	79	76	74	75	78	80	83
displacement	86	86	85	82	80	82	84	86	88

Total sound power levels L_{WATot} [dB(A)]

Q (m^3/h)	1361	3403	5136	7178	9653	12129	14109	15780	17574
suction	82	82	80	78	75	76	78	81	87
displacement	89	88	87	84	82	82	84	87	91

CVAT/10-15000/630 N Ekonovent®**Total sound power levels L_{WATot} [dB(A)]**

Q (m^3/h)	1238	3960	6374	9282	11881	13738	14356	15099	15903
suction	79	78	75	72	74	77	78	80	82
displacement	86	85	81	79	80	83	84	85	87

Accessories



PER, TRKS self-weighted outdoor blinds



PRG, TWG rain shutter



SG protective grille



Aluflex®, Semiflex®, Greyflex®, Sonoflex® flex guides



VBM connecting sleeve



PRO transition



PT, DME door grille for air inlet



SQA electronic spatial air quality sensor



RTR 6721 room thermostat



DT 3 timer switch



HYG 7001 mechanical room hygrostat with thermostat



MFL filter cartridge EU 3 with plate or pocket filter



DTS PSA differential pressure sensor



MAA dampers for circular pipe



MBW pipe water heater



MBE pipe electric heaters



REG 230/400 temperature control for MBE, UNIREG® control for MBW

Additional illustrations



MRW-HE (high efficiency)
– heat recovery heat exchangers made of Al,
suitable for circular pipes, see K 3



RRW – regenerative heat ex-
changers with high efficiency
for square pipe

MR measuring rings and IRIS apertures with measuring taps for differential pressure sensor are in K 7.2

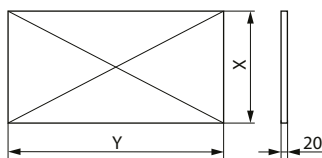
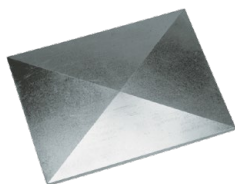


IRIS aperture K 7.2



MR measuring circle (K. 7.2)
with TDP-D for flow measurement (K 8.2)

CSC-N – outdoor canopy for CVAB-N/CVAT-N, CVAB-N / CVAT-N Ekonovent, CVAB-N/CVAT-N Ecowatt



Technical parameters

Version

The splashbacks are made of galvanized steel sheet.

Installation

outdoors according to the location of the fans.

Notice

The fan type must be specified in the order!

CVAB-N/CVAT-N, CVAB-N / CVAT-N Ekonovent, CVAB-N/CVAT-N Ecowatt

Type	for fan sizes	X [mm]	Y [mm]
CSC 250/315 N	1400/250, 2000/315	530	600
CSC 355/400 N	3000/355, 4000/400	680	750
CSC 450 N	6000/450	780	850
CSC 500 N	9000/500	830	900
CSC 560 N	12000/560	930	1000
CSC 630 N	16000/630, 15000/630	1030	1100
CSC 710 N	15000/710, 16000/710	1130	1200