

Range of forward curved belt drive cabinet fans manufactured from galvanised steel sheet, internally lined with melamine acoustic insulation (M1). All models incorporate a double inlet low pressure centrifugal fan mounted on anti-vibration mounts and flexible coupling at the discharge. Supplied as standard in horizontal discharge (code H) configuration with motor, pulley and belt assembly on the right hand side of the unit when viewed from the discharge end.

Motors

All motors are IP55, class F insulation.

Electrical supply:

Three phase 220-240/380-415-50/60* Hz up to 3 kW.

(*Check Easyvent for 60Hz available models)

Three phase 380-415V-50Hz, for higher power motors and two speed motors.

(See characteristics chart)

Single phase 230V-50Hz, with a maximum of 1,5 kW (CVTB version).

All motor up to 2,2 kW are mounted onto the fan casing scroll.

All motor above 3 kW are mounted onto an adjoining support frame.

All three phase motors are speed controllable by frequency inverter.

Specific applications



Versions

On request

The belt-driven assembly can be supplied at the left hand side of the unit (TI version), Vertical discharge (code V) configuration.

Models fitted with circular inlet flanges. Double thickness (double skin) panels with acoustic fireproof insulation (M0) of 17mm thickness fiberglass.

Two speed motors (4/8 and 4/6 poles).

ATEX versions

On request, explosion proof versions in accordance to ATEX Directive, for three phase models up to 11 kW:

- ATEX Flameproof -Gas:

In standard ATEX version flameproof motors are without thermal protection.

If used with frequency inverter, flameproof motors with a PTC-type thermal protection must be specified at order

⊕ II 2G Ex d IIB T4

⊕ II 2G Ex d IIB+H2 T4 (with Ex d IIC T4 motor)

- ATEX Increased safety-Gas:

⊕ II 2G Ex e II T3

CVTT ATEX versions are supplied without melamine insulation.

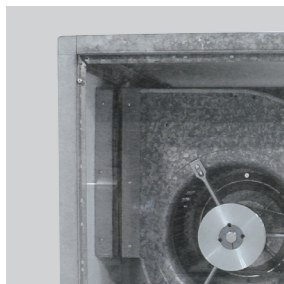
To select CVTT refer to performance curves, or Easyvent.

The consumption data (A, W) of ATEX products may vary from the data shown in technical characteristic charts.



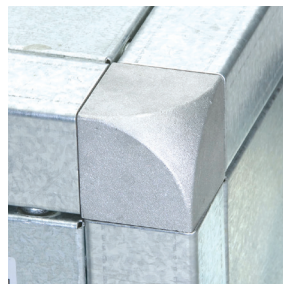
Low noise level

Acoustic insulation of 7 mm thickness flame retardant (M1) melamine foam reducing the noise level significantly.



Flexible coupling at the discharge

To reduce vibration and noise transmissions to the installation.



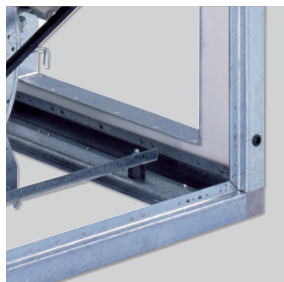
Robustness

Quality finishing, with aluminium corners providing a high robustness.



Versatile outlet discharge

Vertical discharge models available under request.



Anti-vibration mounts

The fan is mounted on base frame with silent-blocks to reduce vibration and noise transmissions to the installation.

TECHNICAL CHARACTERISTICS

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Motor power		Fan speed		Airflow		Ambient temperature (°C)	The biggest possible motor (kg)
	Minimum (kW)	Maximum (kW)	Minimum (rpm)	Maximum (rpm)	Minimum (m³/h)	Maximum (m³/h)		
CVTT-7/7	0,18	0,75	800	1800	390	2.860	-20°C/+40	43
CVTT-9/9	0,18	1,1	700	1500	950	4.800	-20°C/+40	52
CVTT-10/10	0,37	1,5	600	1300	980	5.100	-20°C/+40	66
CVTT-12/12	0,37	3	600	1200	1.500	11.350	-20°C/+40	88
CVTT-15/15	0,75	4	500	1100	1.500	12.800	-20°C/+40	108
CVTT-18/18	1,1	7,5	400	900	3.050	20.270	-20°C/+40	147
CVTT-20/20	1,5	7,5	400	800	3.240	22.700	-20°C/+40	270
CVTT-22/22	2,2	11	400	800	4.750	30.700	-20°C/+40	309
CVTT-25/25	2,2	11	300	650	5.650	40.000	-20°C/+40	350
CVTT-30/28	3	15	300	550	8.800	52.000	-20°C/+40	472

ACOUSTIC CHARACTERISTICS

Sound power spectrum: To obtain the sound power level spectrum subtract the correction values (dB(A)) shown in the table below at the corresponding octave average frequencies from the value provided in the product performance.

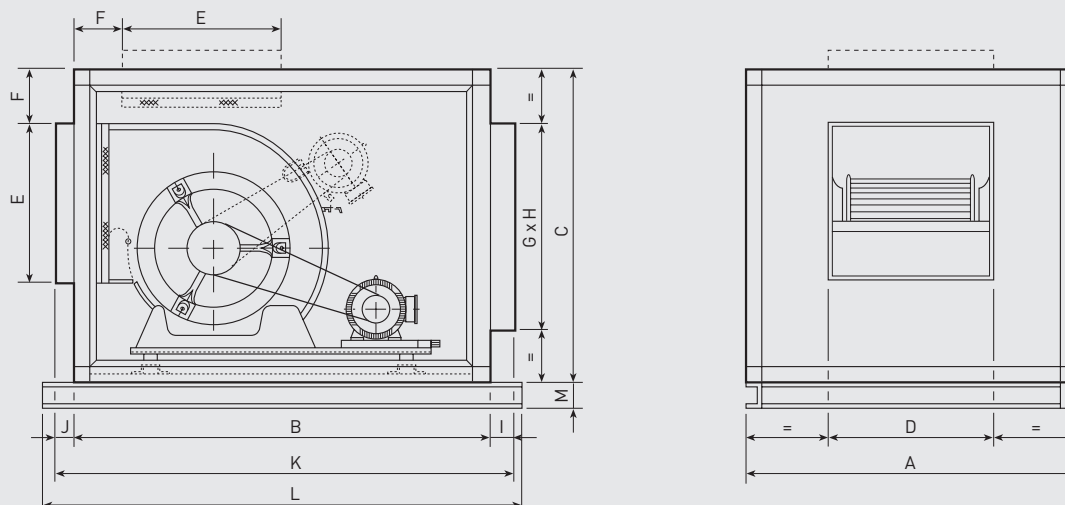
Model	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	16000 Hz
CVTT-7/7	17	15	11	12	4	5	14	19	27
CVTT-9/9	17	15	11	12	4	5	14	19	27
CVTT-10/10	17	15	11	11	4	5	14	20	27
CVTT-12/12	16	14	11	10	4	5	15	21	27
CVTT-15/15	13	13	10	10	5	5	15	22	27
CVTT-18/18	11	12	9	9	5	6	15	22	27
CVTT-20/20	10	11	8	8	6	7	16	23	27
CVTT-22/22	9	11	7	8	6	8	17	24	27
CVTT-25/25	9	11	7	8	6	8	17	25	27
CVTT-30/28	9	11	7	8	6	8	18	25	27

MOTOR POWERS (KW) FOR CVTT PRODUCT RANGE

1 SPEED	4 POLES	0,18	0,25	0,37	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15
2 SPEED	4/6 POLES		0,25/0,09	-	-	0,7/0,2	0,85/0,25	1,4/0,5	2,4/0,75	3,4/1,1	4/1,2	6,3/1,9	9/3	11/3,7	15/5
	4/8 POLES		0,25/0,06	0,37/0,07	0,55/0,09	0,75/0,12	1,1/0,18	1,5/0,25	2,2/0,37	3/0,55	4/0,75	5,5/1,1	7,5/1,5	11/2,8	15/3,8

NOTE: The powers may have small variations depending on the motor manufacturer.

DIMENSIONS (mm)



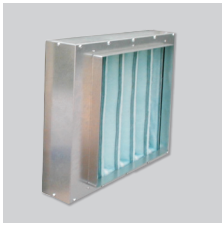
Model	A	B	C	D	E	F	G	H	I	J	K	L	M
Horizontal discharge													
CVTT-7/7 - H	554	710	483	232	222	92	325	325	30	30	780	-	-
CVTT-9/9 - H	605	800	554	300	260	96	400	400	30	30	870	-	-
CVTT-10/10 - H	710	850	605	333	289	94	450	450	30	30	920	-	-
CVTT-12/12 - H	775	950	675	396	341	82	500	500	30	30	1020	-	-
CVTT-15/15 - H	950	1018	775	473	403	88	600	600	30	30	1088	-	-
CVTT-18/18 - H	1018	1250	900	556	479	82	700	700	30	30	1320	-	-
CVTT-20/20 - H	1250	1350	1140	630	630	137	800	800	30	30	1420	1510	80
CVTT-22/22 - H	1350	1500	1250	695	700	161	900	900	30	30	1570	1660	80
CVTT-25/25 - H	1500	1600	1350	796	800	122	1000	1000	30	30	1670	1760	80
CVTT-30/28 - H	1700	1900	1600	870	945	150	1200	1200	30	30	1970	2060	80
Vertical discharge													
CVTT-7/7 - V	554	710	483	232	222	92	325	325	30	30	780	-	-
CVTT-9/9 - V	605	800	554	300	260	96	400	400	30	30	870	-	-
CVTT-10/10 - V	710	850	605	333	289	94	450	450	30	30	920	-	-
CVTT-12/12 - V	775	950	675	396	341	82	500	500	30	30	1020	-	-
CVTT-15/15 - V	950	1018	775	473	403	88	600	600	30	30	1088	-	-
CVTT-18/18 - V	1018	1250	900	556	479	82	700	700	30	30	1320	-	-
CVTT-20/20 - V	1250	1500	1018	630	630	137	800	800	30	30	1540	1660	80
CVTT-22/22 - V	1350	1600	1086	695	700	161	900	900	30	30	1640	1760	80
CVTT-25/25 - V	1500	1800	1190	796	800	128	1000	1000	30	30	1840	1960	80
CVTT-30/28 - V	1700	2000	1390	870	945	128	1200	1200	30	30	2040	2160	80

SPECIAL DESIGN WITH CIRCULAR INLET

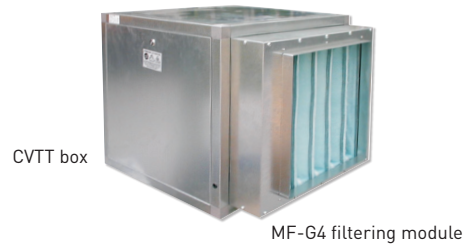
Options: Circular inlet flanges.
On request CVTT cabinet fans supplied with circular inlet flanges.

Model cabinet	Inlet diameter flange (mm)
CVTT-7/7	315
CVTT-9/9	355
CVTT-10/10	400
CVTT-12/12	450
CVTT-15/15	560
CVTT-18/18	630
CVTT-20/20	800
CVTT-22/22	900
CVTT-25/25	1000
CVTT-30/28	1250

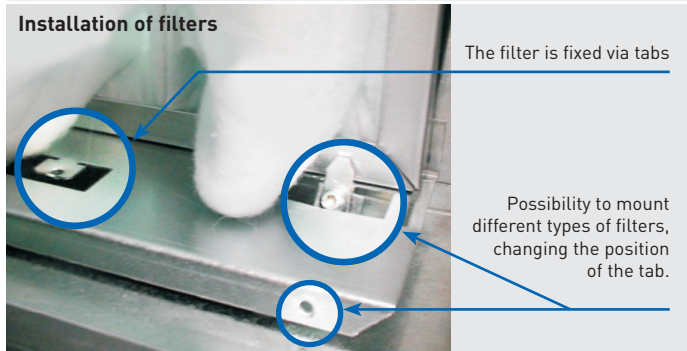
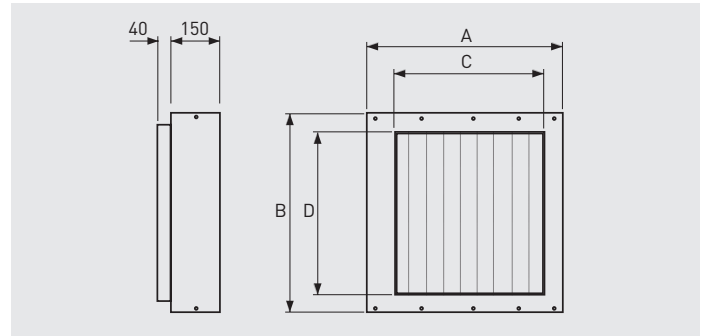
MOUNTING ACCESSORIES



MF-G4
Filtering boxes provided with G4 filter included, made from galvanized steel.
 Specially designed to mount directly in the inlet side of the CVTT cabinet fan, without needing specific accessories.
 Access to the filters from inside of CVTT box, by dismantling register panel.



CVTT box	Filtering module MF-G4	Replacement filter MF-G4
7/7	MF-7/7 G4	AFR MF-7/7 G4
9/9	MF-9/9 G4	AFR MF-9/9 G4
10/10	MF-10/10 G4	AFR MF-10/10 G4
12/12	MF-12/12 G4	AFR MF-12/12 G4
15/15	MF-15/15 G4	AFR MF-15/15 G4
18/18	MF-18/18 G4	AFR MF-18/18 G4
20/20	MF-20/20 G4	AFR MF-20/20 G4
22/22	MF-22/22 G4	AFR MF-22/22 G4
25/25	MF-25/25 G4	AFR MF-25/25 G4
30/28	MF-30/28 G4	AFR MF-30/28 G4

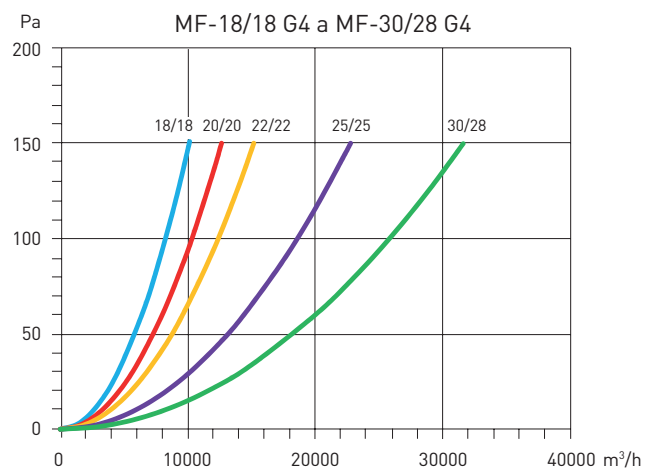
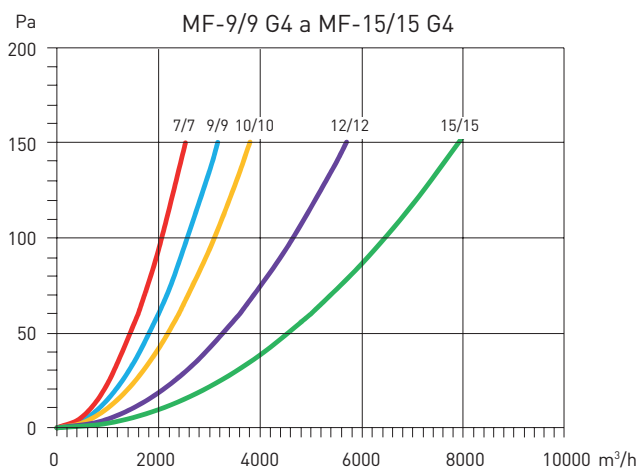


Model	A	B	C	D
7/7	468	397	325	325
9/9	519	468	400	400
10/10	624	519	450	450
12/12	689	589	500	500
15/15	864	689	600	600
18/18	932	814	700	700
20/20	1.164	1.054	800	800
22/22	1.264	1.164	900	900
25/25	1.414	1.264	1.000	1.000
30/28	1.614	1.514	1.200	1.200

Dimensions (mm)

Pressure drop of the filters in the filtering boxes

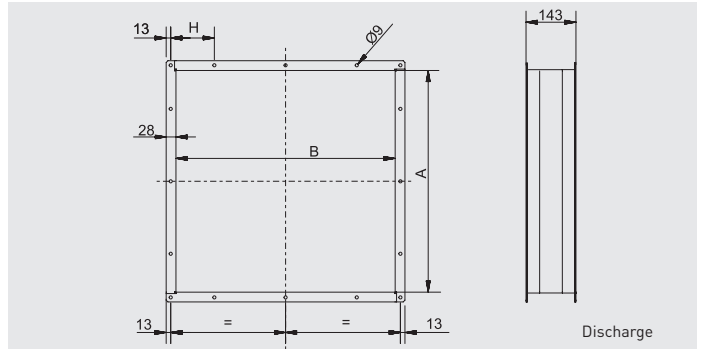
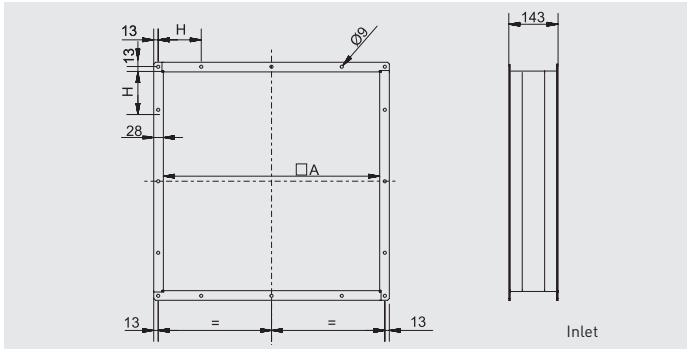
Data considering clean filters. When selecting CVTT cabinet fan it will be necessary to consider the additional pressure drop due to the pollution of the filter (minimum recommended 150 Pa). In case of considering narrower polluting margins, it will be necessary the replacement of filters more frequently.



MOUNTING ACCESSORIES



ACOP RECT
Inlet flexible connector.

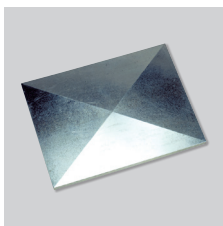


Model Cabinet	Inlet			
	Model	A	H	Nº holes
CVTT-7/7	ACOP RECT 7/7 ASP	327		8
CVTT-9/9	ACOP RECT 9/9 ASP	402		8
CVTT-10/10	ACOP RECT 10/10 ASP	452		8
CVTT-12/12	ACOP RECT 12/12 ASP	502		8
CVTT-15/15	ACOP RECT 15/15 ASP	602		8
CVTT-18/18	ACOP RECT 18/18 ASP	702		8
CVTT-20/20	ACOP RECT 20/20 ASP	802	168	16
CVTT-22/22	ACOP RECT 22/22 ASP	902	199	16
CVTT-25/25	ACOP RECT 25/25 ASP	1002	208	16
CVTT-30/28	ACOP RECT 30/28 ASP	1202	247	16

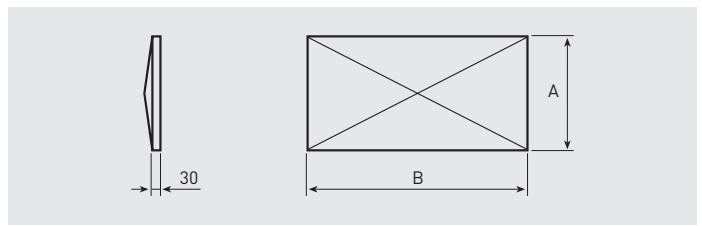
Dimensions mm.

Model Cabinet	Discharge				
	Model	A	B	H	Nº holes
CVTT-7/7	ACOP RECT 7/7 IMP	224	234		8
CVTT-9/9	ACOP RECT 9/9 IMP	262	302		8
CVTT-10/10	ACOP RECT 10/10 IMP	291	335		8
CVTT-12/12	ACOP RECT 12/12 IMP	343	398		8
CVTT-15/15	ACOP RECT 15/15 IMP	405	475		8
CVTT-18/18	ACOP RECT 18/18 IMP	481	558		8
CVTT-20/20	ACOP RECT 20/20 IMP	635	628	125	16
CVTT-22/22	ACOP RECT 22/22 IMP	702	697	150	16
CVTT-25/25	ACOP RECT 25/25 IMP	802	798	175	16
CVTT-30/28	ACOP RECT 30/28 IMP	947	872	210	16

Dimensions mm.



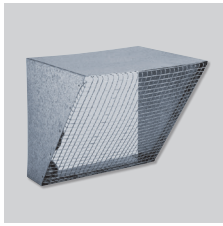
CTI
Pitched roof cover
For outdoor mounted installations.



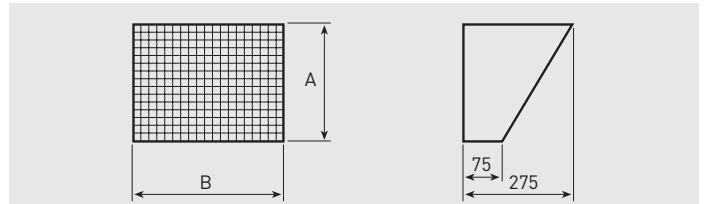
Model CTI	Model cabinet	A	B	Model CTI	Model cabinet	A	B
CTI-7	CVTT-7/7	557	713	CTI-18	CVTT-18/18	1021	1253
CTI-9	CVTT-9/9	608	803	CTI-20	CVTT-20/20	1253	1353
CTI-10	CVTT-10/10	713	853	CTI-22	CVTT-22/22	1353	1503
CTI-12	CVTT-12/12	778	953	CTI-25	CVTT-25/25	1503	1603
CTI-15	CVTT-15/15	953	1021	CTI-30	CVTT-30/28	1703	1903

Dimensions mm.

MOUNTING ACCESSORIES



CVD (Discharge) – CVA (Inlet)
Protection guards
Wire protection guards for mounting on the discharge or inlet sides of the cabinets.

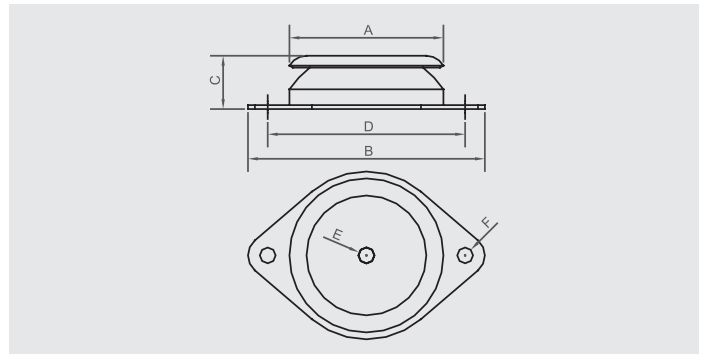


Model cabinet	Discharge			Inlet		
	Model CVD	A	B	Model CVA	A	B
CVTT-7/7	CVD-7	225	235	CVA-7	329	329
CVTT-9/9	CVD-9	263	303	CVA-9	403	403
CVTT-10/10	CVD-10	292	336	CVA-10	453	453
CVTT-12/12	CVD-12	344	399	CVA-12	503	503
CVTT-15/15	CVD-15	406	476	CVA-15	603	603
CVTT-18/18	CVD-18	482	559	CVA-18	703	703
CVTT-20/20	CVD-20	633	633	CVA-20	803	803
CVTT-22/22	CVD-22	698	703	CVA-22	903	903
CVTT-25/25	CVD-25	799	803	CVA-25	1003	1003
CVTT-30/28	CVD-30	873	948	CVA-30	1203	1203

Dimensions mm.



PAVZ
Rubber anti-vibration mounts that absorb vibration and attenuate the noise produced in the installation.
(1 PAVZ= 4 supports in a bag).
Working temperatures: -30°C/+70°C.



Model cabinet	Model PAVZ	A	B	C	D	ØE	ØF	Max. load* (kg)
CVTT-7/7	PAVZ-60 SH 45	60	90	24	76	M6	6,2	15
CVTT-9/9	PAVZ-60 SH 45	60	90	24	76	M6	6,2	15
CVTT-10/10	PAVZ-60 SH 60	60	90	24	76	M6	6,2	25
CVTT-12/12	PAVZ-60 SH 60	60	90	24	76	M6	6,2	25
CVTT-15/15	PAVZ-80 SH 45	80	120	27	100	M8	8,2	45
CVTT-18/18	PAVZ-80 SH 45	80	120	27	100	M8	8,2	45
CVTT-20/20	PAVZ-80 SH 60	80	120	27	100	M8	8,2	80
CVTT-22/22	PAVZ-100 SH 45	100	148	28	124	M10	10,2	105
CVTT-25/25	PAVZ-100 SH 45	100	148	28	124	M10	10,2	105
CVTT-30/28	PAVZ-100 SH 60	100	148	28	124	M10	10,2	180

Dimensions (mm)

* The indicated value is the maximum load for each one of the anti-vibration mounts.