

BACKWARD CURVED CENTRIFUGAL FANS

CHVB / CHVT Range

NEW



120°C
CONTINUOUS
Operation



F400-120
Approved to
EN12101-3
standard

The CHVB-CHVT range is suitable for many general ventilation applications where high system resistances are present; i.e. systems with filters, dampers etc.

Range of cabinet fans, manufactured from galvanised steel sheet with double thickness panel (sandwich type) internally lined with 25 mm thickness fireproof fibre-glass acoustic insulation (M0). All models incorporate direct drive backward curved centrifugal impeller with motor fitted outside of the air stream which allows the cabinet fans are suitable for air stream temperature up to 120°C. All models are supplied with remote terminal box. Available with single phase or three phase motors in 4 poles.

Motors

All the motors are IP55 Class F insulation, with thermal protection.

Electrical supply:

Single phase 230V-50Hz. (CHVB)

Three phase 230/400V-50Hz. (CHVT)

Speed controllable by Voltage.

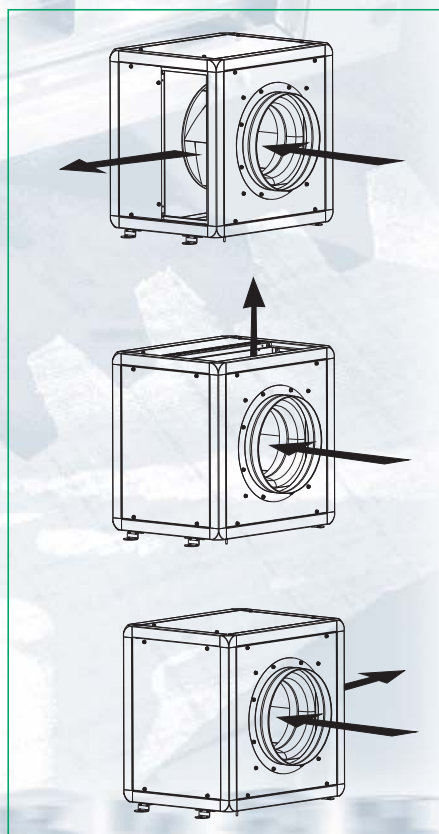
Additional information

Working air temperature up to 120°C.

On request

Version with E22 motor suitable for inverter control.

VERSATILE ASSEMBLY



Cabinet fans designed for smoke extraction in fire condition F400 120

APPLICATIONS

Warehouses	Workshops	Commercial premises	Offices	Restaurants and cafes
Parkings	Commercial and industrial kitchens	Iron and steel industries Foundries	120°C	F400-120

Backward curved centrifugal impellers



To prevent accumulation of dirtiness. Dynamically balanced

Robustness



Quality finishing, with aluminium corners providing a high robustness

Easy to mount



All models are supplied with four mounting feet to facilitate 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	Speed (r.p.m.)	Maximum power absorbed (W)	Maximum current absorbed (A)	Maximum air volume (m ³ /h)	Maximum temperature (°C)	Sound pressure level at 1,5 m (dB(A))	Weight (kg)	Speed controller*
CHVB/4-3000/315	1390	305	1,45	2670	120	58	46	REB-1 N
CHVB/4-4000/355	1315	530	2,3	4300	120	64	75	REB-2,5 N
CHVB/4-6000/400	1370	1060	5,05	6480	120	70	90	REB-10
CHVT/4-3000/315	1410	320	0,86	2770	120	58	46	RMT-1,5
CHVT/4-4000/355	1420	520	1,3	4310	120	64	75	RMT-1,5
CHVT/4-6000/400	1295	912	1,95	6560	120	70	90	RMT-2,5

* Three phase speed controllers (RMT) are suitable for 400 V

■ Acoustic characteristics

Sound power level spectrum in dB(A) at the corresponding frequency band (Hz):

Working point positions: LP: Low pressure;
MP: Medium pressure;
HP: High pressure

4-3000/315		63	125	250	500	1000	2000	4000	8000	LwA
Inlet	LP	44	70	67	67	69	68	63	60	76
	MP	44	64	69	60	61	60	57	52	72
	HP	44	62	64	71	71	67	63	55	76
Outlet	LP	42	72	67	68	69	69	63	60	77
	MP	40	66	64	66	68	66	61	54	73
	HP	39	62	63	64	67	66	61	53	72
Radiated	LP	37	63	60	55	55	55	54	48	66
	MP	37	57	62	48	47	47	48	40	64
	HP	37	55	57	59	57	54	54	43	64

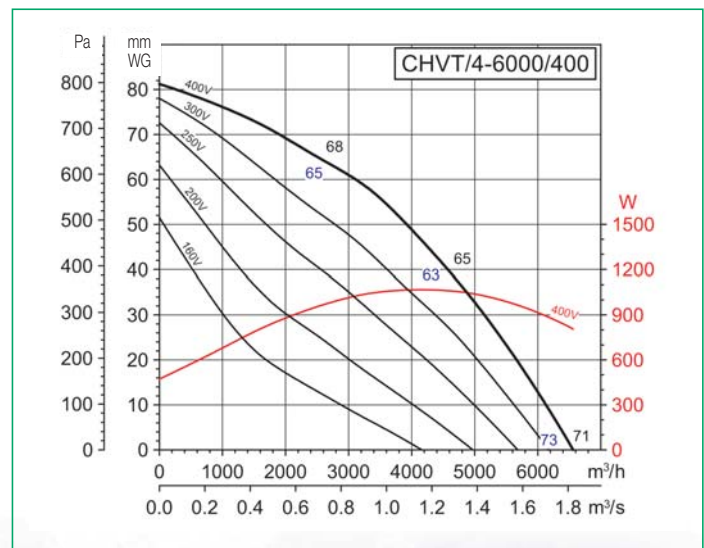
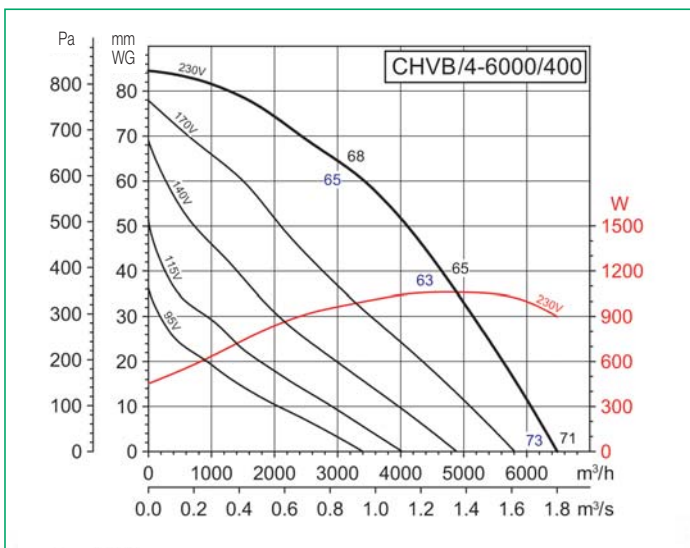
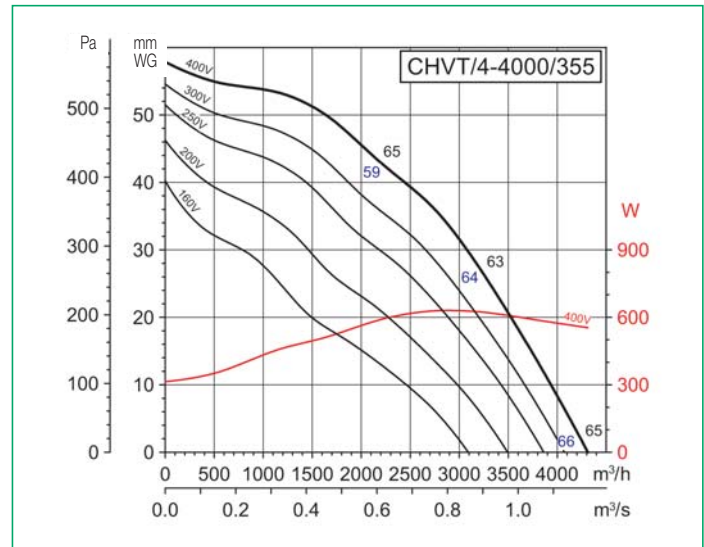
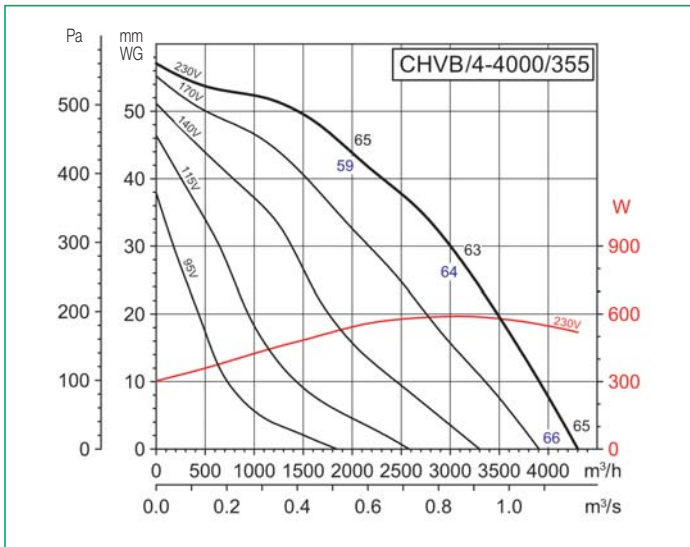
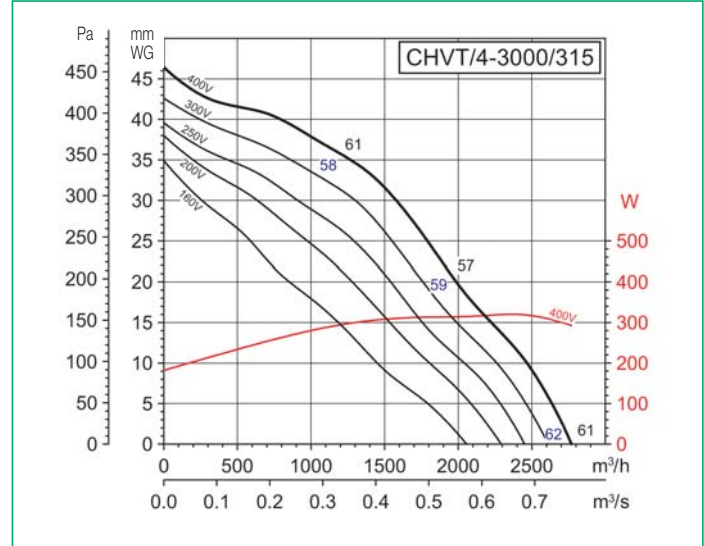
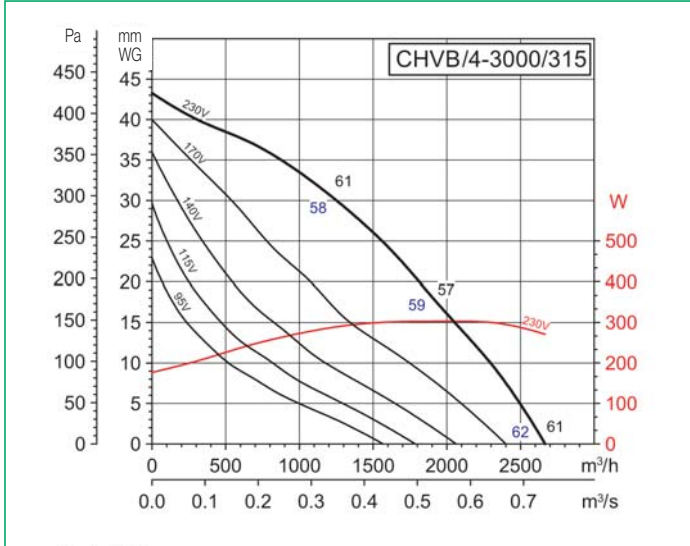
4-6000/400		63	125	250	500	1000	2000	4000	8000	LwA
Inlet	LP	51	70	70	73	83	78	71	74	85
	MP	50	64	68	73	75	71	69	65	79
	HP	55	68	71	75	79	75	71	64	82
Outlet	LP	53	73	73	75	84	82	73	75	87
	MP	49	68	68	70	72	69	70	66	78
	HP	58	70	72	72	72	70	70	63	79
Radiated	LP	47	59	58	60	64	58	53	55	68
	MP	46	53	56	60	56	51	51	46	64
	HP	51	57	59	62	60	55	53	45	67

4-4000/355		63	125	250	500	1000	2000	4000	8000	LwA
Inlet	LP	51	69	71	70	72	71	69	75	80
	MP	50	67	69	70	72	67	67	69	78
	HP	51	67	67	72	76	71	68	63	79
Outlet	LP	50	74	73	73	72	72	69	66	80
	MP	47	74	70	70	70	68	64	60	78
	HP	48	65	66	66	67	65	63	56	73
Radiated	LP	46	65	63	58	56	54	56	58	69
	MP	45	63	61	58	56	50	54	52	67
	HP	46	63	59	60	60	54	55	46	67

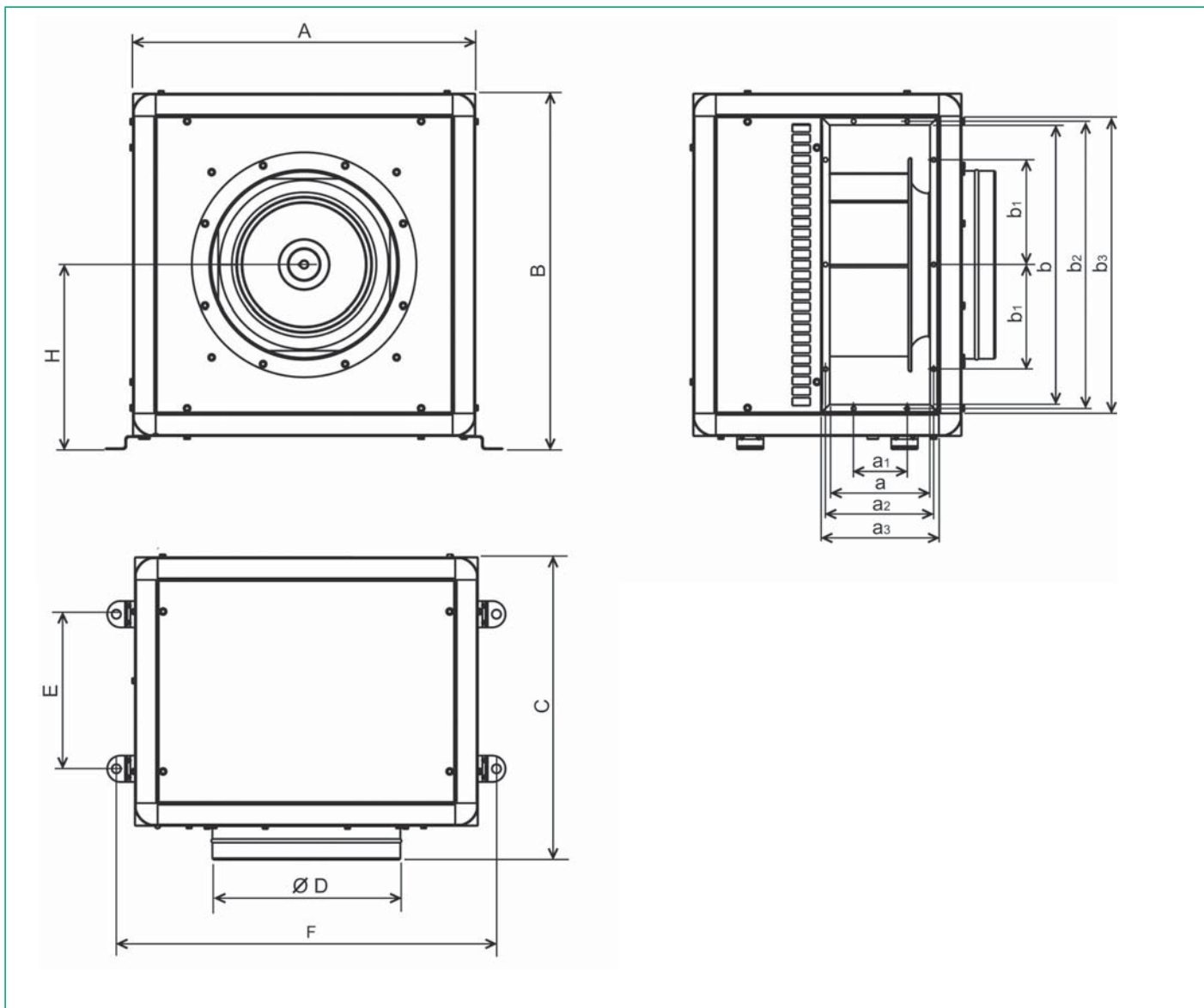


Performance curves

- Q = Air volume in, m³/hr and m³/s.
- Pe = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Air flow data in accordance with the following standards: UNE 100-212-89, BS 848, Part 1; AMCA 210-85 and ASHRAE 51-1985.



■ Dimensions (mm)



CHVB/CHVT

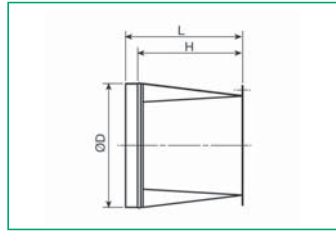
Model	A	B	C	D	E	F	H	a	a1	a2	a3	b	b1	b2	b3
CHVB/4-3000/315	548	573	527	315	247	618	299	148	110	160	182	429	154	441	462
CHVB/4-4000/355	648	673	572	355	292	718	349	187	106	199	221	529	187	541	562
CHVB/4-6000/400	798	823	572	400	292	858	499	196	115	208	230	679	237	691	712
CHVT/4-3000/315	548	573	527	315	247	618	299	148	110	160	182	429	154	441	462
CHVT/4-4000/355	648	673	572	355	292	718	349	187	106	199	221	529	187	541	562
CHVT/4-6000/400	798	823	572	400	292	858	499	196	115	208	230	679	237	691	712

Acoustic cabinet fans

Accessories



FD
Circular coupling flange
To fit to the outlet.



Model	Ø D	L	H
FD-3000	315	450	400
FD-4000	355	450	400
FD-6000	400	450	400

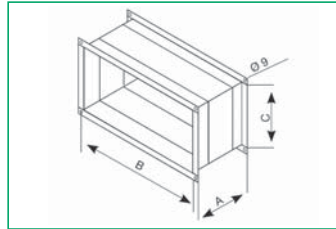


KAA
Circular flexible connectors
Designed for smoke extract fans in fire conditions and certified F400 120.

Model	Ø (mm)
KAA-315	315
KAA-355	355
KAA-400	400



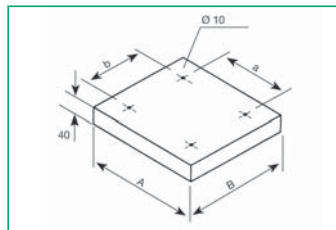
ACOP RECT F400
Rectangular elastic coupling
To fit to the outlet.
Avoids transmission of vibrations.



Model	A	B	C
ACOP RECT F400-3000	150	415	140
ACOP RECT F400-4000	150	520	180
ACOP RECT F400-6000	150	670	185



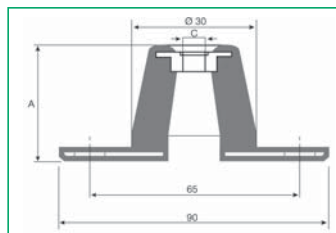
CTI
Outdoor cover
For outdoor installations.



Model	A	B	a	b
CTI CHV-3000	575	490	358	343
CTI CHV-4000	675	535	442	402
CTI CHV-6000	825	545	593	417



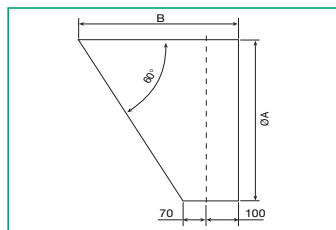
KSE
Vibration damping supports
Rubber vibration damping supports that reduce vibrations and attenuate the noise of the installation.
(1 KSE = 4 supports in a bag)



Model	Weight of fan	A	C
KSE-45	40 – 180 kg	24	M8
KSE-70	80 – 280 kg	38	M8



APC
Round outlet guards
Discharge protection guards for direct connection to the inlet-outlet flange.



Model	Ø A	B
APC-315	315	342
APC-355	355	365
APC-400	400	391

Electrical accessories



REB
Single phase electronic speed controllers.



RMB/RMT
Single and three phase auto transformer speed controllers.