



FOOD SERVICE

INHALE EXHALE RELAX

CATERING
EXTRACTION
& VENTILATION



EDITION 2



FANS AND VENTILATION SYSTEMS TO SUIT
EVERY CATERING APPLICATION
ALL FROM S&P UK.

We provide quality ventilation solutions
and support, designed to meet the
rigorous requirements of the catering
sector and our business partners.



06

ACOUSTIC
BOX FAN

CVAB/T ND series

Double skinned backward curved impeller acoustic box fan.



AIRFLOW RANGE



60°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

10

HIGH
TEMPERATURE
BOX FAN

KABB/T series

High temperature motor out of airstream, double skinned, backward curved impeller acoustic box fan.



AIRFLOW RANGE



100°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

16

INLINE
RECTANGULAR
DUCT FANS

IRB / IRT series

Rectangular swing out backward curved impeller inline fan.



AIRFLOW RANGE



70°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

20

INLINE
CENTRIFUGAL
DUCT FANS

ILHT series

High temperature motor out of airstream 400°C backward curved impeller inline fan.



AIRFLOW RANGE



120°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

30

BELT
DRIVEN
FANS

CVHT series

High temperature motor out of airstream, double skinned 400°C forward curved impeller acoustic cabinet fan.



AIRFLOW RANGE



120°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

36

CENTRIFUGAL
ROOF MOUNTED
FANS

CRVB/T series

Roof mounted vertical discharge backward curved impeller fan.



AIRFLOW RANGE

AIR EXTRACT
VENTILATION

70°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

40

CENTRIFUGAL
ROOF MOUNTED
FANS

CRHB/T series

Roof mounted horizontal discharge backward curved impeller fan.



AIRFLOW RANGE

AIR EXTRACT
VENTILATION

70°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

44

HIGH
TEMPERATURE
CENTRIFUGAL
ROOF MOUNTED
FANS

CTVB/T series

Roof mounted high temperature motor out of airstream 400°C backward curved impeller. Vertical discharge fan.



AIRFLOW RANGE

AIR EXTRACT
VENTILATION

120°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR OUT OF AIRSTREAM

48

HIGH
TEMPERATURE
CENTRIFUGAL
ROOF MOUNTED
FANS

CTHB/T series

Roof mounted high temperature motor out of airstream 400°C backward curved impeller. Horizontal discharge fan.



AIRFLOW RANGE

AIR EXTRACT
VENTILATION

120°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR OUT OF AIRSTREAM

54

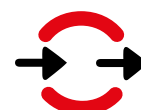
COMPACT LOW
PRESSURE PLATE
AXIAL FANS

HCBB/T series

Compact plate mounted axial fan.



AIRFLOW RANGE

AIR SUPPLY &
EXTRACT VENTILATION

70°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

60

LOW PRESSURE
CASED AXIAL FANS

TCBB/T series

Compact short cased
inline axial fan.

AIRFLOW RANGE



70°C

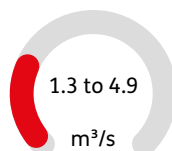
MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

66

CONTRAFOIL
HIGH PRESSURE
AXIAL FANS

TCBB/Tx2 series

Contra rotating inline
axial fan.

AIRFLOW RANGE



70°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

70

SUPPLY AIR
HANDLING UNIT

CAIB/T series

Supply air handling unit
complete with plug and
play control.

AIRFLOW RANGE



40°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

74

LOW PROFILE
SUPPLY AIR
HANDLING UNIT

UTBS series

Extremely low profile
double skinned integrated
control supply air
handling unit.

AIRFLOW RANGE



40°C

MAXIMUM CONTINUOUS
AIRSTREAM TEMPERATURE

MOTOR IN AIRSTREAM

78

ACCESSORIES



ATTENUATORS



FILTERS

LPHW COILS
& HEATER BATTERIES

INVERTERS



SWITCH



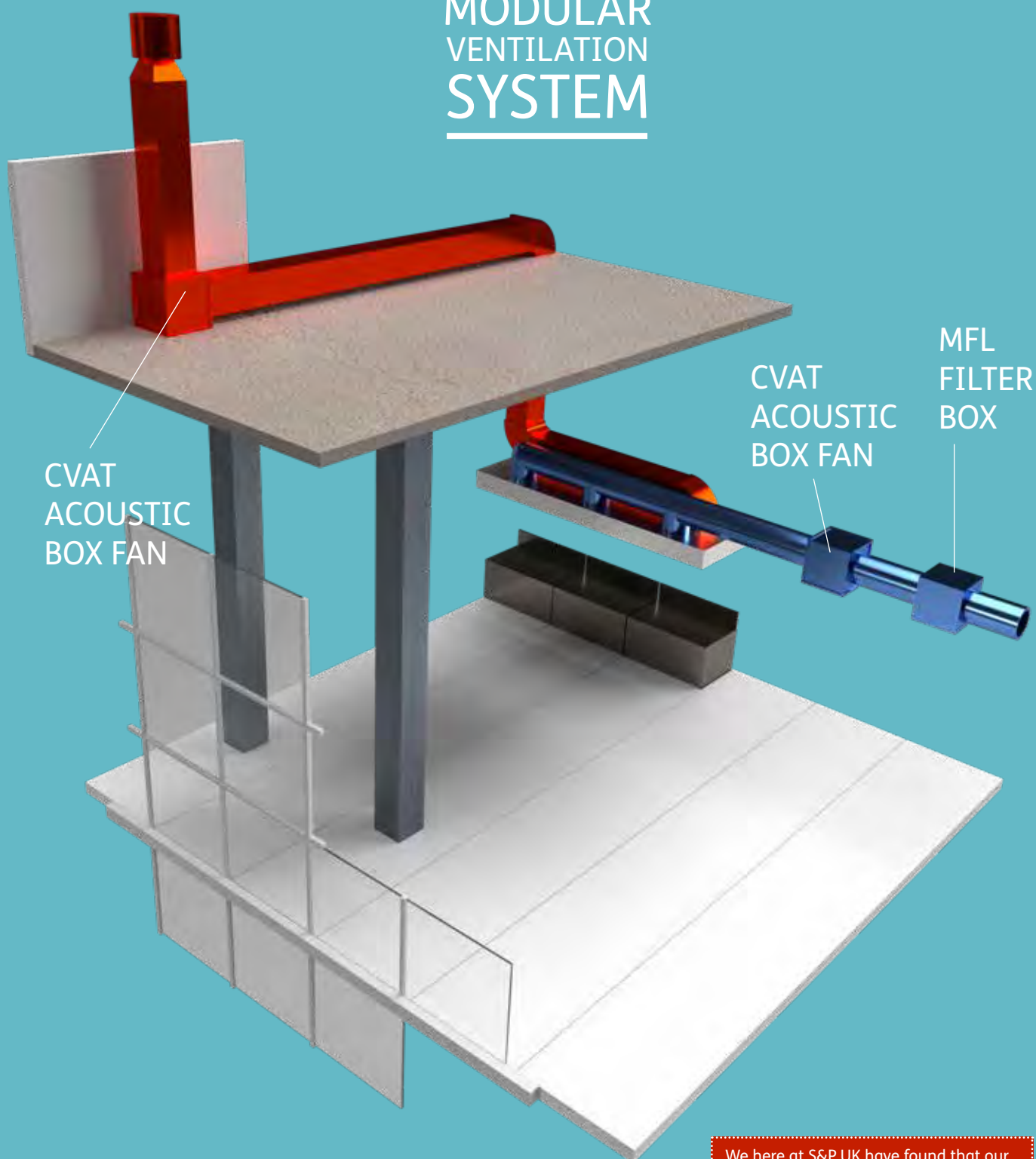
SPEED CONTROLLERS



POTENTIOMETERS

SMALL KITCHEN MODULAR VENTILATION SYSTEM

● EXTRACT
● SUPPLY



We here at S&P UK have found that our in house **DW/172 2018 Canopy Airflow Calculator** has proved invaluable with our technical team and also with contractors for the design of Kitchen Vent systems. If you require a copy then please do not hesitate to get in contact.

technical.uk@solerpalau.com



ACOUSTIC BOX FAN

CVAB / CVAT ND series



DOUBLE SKINNED

backward curved impeller
acoustic box fan.



CVAB/T ND SERIES

Range of direct drive backward curved centrifugal cabinet fans designed for ventilation of commercial kitchens and industrial applications. Cabinet fan manufactured from aluminium profiles and double thickness side panels internally lined with 25 mm thickness of fireproof fibreglass acoustic insulation. All versions except 6000/500:-circular duct connection flange on the inlet and outlet. 6000/500 versions - circular duct on the inlet, square on the outlet. Units are supplied with square to circular 500mm diameter adapter. CVAB-N/ CVAT-N incorporates direct drive backward curved centrifugal impeller, manufactured from aluminium (CVAB-N) or steel (CVAT-N) sheet, with motor fitted inside the air stream.

Motor

CVAB-ND

Single-phase external rotor motors 230V 50Hz, IP55, class F, with thermal protection, speed controllable by voltage. Working temperature from -40°C to 60°C.

CVAT-ND

Three-phase 4 and 6 pole motors 230/400V 50Hz, IP55, class F, with thermal protection (PTC), speed controllable by inverter. Working temperature from -20°C to 40°C.

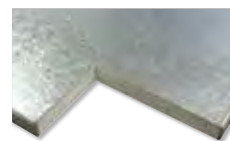
Specific applications:

Commercial kitchens



Backward curved centrifugal impellers

To prevent the build-up of dirt. Dynamically balanced.



Low noise level

Double thickness side panels lined with 25 mm thickness of fireproof fibreglass acoustic insulation.



Robustness

Quality finished aluminium profiles and plastic corners provides a robust construction.

CVAB / CVAT ND series



CVAB/T ND SERIES

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 (rpm)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)		Maximum Airflow (m³/s)	Sound Pressure Level* (dB(A))	Weight (kg)
			230V	400V			
SINGLE PHASE 4 POLE							
CVAB/4-1400/250 ND	1300	107	0.5		0.35	39	13.0
CVAB/4-2000/315 ND	1390	169	0.7		0.50	43	13.0
CVAB/4-3000/355 ND	1370	312	1.3		0.78	45	30.0
CVAB/4-4000/400 ND	1390	557	2.3		1.17	50	32.0
CVAB/4-6000/450 ND	1380	930	3.6		1.70	54	46.0
CVAB/4-6000/500 ND	1470	924	3.9		1.70	59	38.0
CVAB/4-9000/500 ND	1390	1289	5.3		2.10	57	58.0
THREE PHASE 4 POLE							
CVAT/4-1400/250 ND 0.18	1480	116	1.03	0.9	0.34	33	13.0
CVAT/4-2000/315 ND 0.18	1460	169	1.03	0.9	0.51	37	13.0
CVAT/4-3000/355 ND 0.18	1430	251	1.03	0.9	0.73	40	30.0
CVAT/4-4000/400 ND 0.37	1445	438	1.8	1.06	1.07	43	32.0
CVAT/4-6000/450 ND 0.75	1465	747	3.1	1.9	1.56	45	46.0
CVAT/4-6000/500 ND 0.92	1470	943	3.3	1.9	1.74	59	38.0
CVAT/4-9000/500 ND 1.1	1480	1347	4.3	2.5	2.19	48	58.0
CVAT/4-12000/560 ND 2.2	1470	2093	8.2	4.7	3.08	51	82.0
CVAT/4-16000/630 ND 3	1460	3234	10.8	6.3	4.07	53	113.0
THREE PHASE 6 POLE							
CVAT/6-15000/710 ND 1.5	970	1828	6.4	3.7	3.98	55	149.0

* sound pressure level measured in free field condition at 3m.

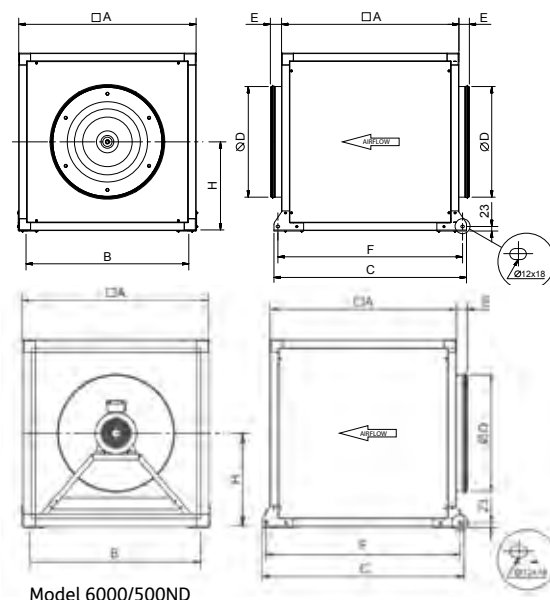
CVAB/T ND SERIES Dimensions (mm)

Model CVAB - CVAT	A	B**	C	øD	E	F	H
1400/250 ND	500	457	574	250*	58	534	250
2000/315 ND	500	457	574	315*	58	534	250
3000/355 ND	650	607	724	355*	58	684	325
4000/400 ND	650	607	724	400*	58	684	325
6000/450 ND	750	707	824	450*	58	784	375
6000/500 ND*	650	607	724	500 [□]	58	684	325
9000/500 ND	800	757	874	500*	58	834	400
12000/560 ND	900	859	977	560*	58	937	450
16000/630 ND	1000	959	1077	630*	58	1037	500
15000/710 ND	1100	1059	1177	710*	58	1137	550

* Inlet and outlet

□ Inlet only

** Hole centres



CVAB / CVAT ND series

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa
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Airflow (m³/s) @ Static Pressure (Pa)

Axial airflow configuration with outlet spigot plate fitted



SINGLE PHASE

CVAB/4-1400/250 ND	0.356	0.313	0.266	0.197	0.093								
CVAB/4-2000/315 ND	0.506	0.460	0.414	0.363	0.307	0.237	0.049						
CVAB/4-3000/355 ND	0.779	0.729	0.675	0.613	0.544	0.464	0.364	0.162					
CVAB/4-4000/400 ND	1.173	1.113	1.052	0.987	0.913	0.826	0.729	0.623	0.499	0.301			
CVAB/4-6000/450 ND	1.706	1.640	1.572	1.500	1.420	1.332	1.235	1.130	1.017	0.886	0.728	0.508	0.215
CVAB/4-6000/500 ND	1.700	1.640	1.570	1.490	1.390	1.320	1.220	1.110	0.989	0.863	0.715	0.487	
CVAB/4-9000/500 ND	2.104	2.031	1.957	1.880	1.799	1.712	1.621	1.526	1.424	1.309	1.181	1.040	0.827

THREE PHASE

CVAT/4-1400/250 ND	0.342	0.306	0.262	0.206	0.080								
CVAT/4-2000/315 ND	0.505	0.461	0.421	0.378	0.309	0.108							
CVAT/4-3000/355 ND	0.739	0.691	0.639	0.577	0.501	0.394	0.187						
CVAT/4-4000/400 ND	1.070	1.016	0.959	0.900	0.837	0.767	0.676	0.537	0.292				
CVAT/4-6000/450 ND	1.562	1.503	1.443	1.379	1.309	1.233	1.153	1.064	0.949	0.786	0.488		
CVAT/4-6000/500 ND	1.740	1.700	1.600	1.520	1.440	1.350	1.240	1.130	1.020	0.874	0.728	0.489	
CVAT/4-9000/500 ND	2.267	2.203	2.138	2.072	2.003	1.929	1.849	1.756	1.639	1.504	1.373	1.229	1.031
CVAT/4-12000/560 ND	3.084	3.015	2.946	2.875	2.803	2.727	2.646	2.558	2.462	2.352	2.224	2.080	1.932
CVAT/4-16000/630 ND	4.069	3.989	3.908	3.825	3.742	3.656	3.568	3.477	3.381	3.280	3.172	3.055	2.928
CVAT/6-15000/710 ND	3.963	3.828	3.688	3.538	3.368	3.158	2.864	2.531	2.236	1.876	1.258	0.478	

Trade Prices

1PH > 3PH PACKAGED PRODUCTS

Code	Airflow @ Pressure (M ³ /s @ Pa)	Model Ref. / Duct Connection Diameter (mm)	Inverter VFD 1Ph > 3Ph	Packaged Trade Prices
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SINGLE-PHASE INPUT: 4 POLE FAN

CVAT Pack 1	0.23 @ 150	CVAT/4-1400/250 ND	2.2kW 230V 10A Max	£719.07
CVAT Pack 2	0.35 @ 200	CVAT/4-2000/315 ND	2.2kW 230V 10A Max	£786.15
CVAT Pack 3	0.45 @ 250	CVAT/4-3000/355 ND	2.2kW 230V 10A Max	£955.12
CVAT Pack 4	0.86 @ 250	CVAT/4-4000/400 ND	2.2kW 230V 10A Max	£1,083.29
CVAT Pack 5	1.38 @ 250	CVAT/4-6000/450 ND	2.2kW 230V 10A Max	£1,144.74
CVAT Pack 6	1.48 @ 250	CVAT/4-6000/500 ND	2.2kW 230V 10A Max	£1,190.49
CVAT Pack 7	2.13 @ 250	CVAT/4-9000/500 ND	2.2kW 230V 10A Max	£1,365.31
CVAT Pack 8	3.00 @ 250	CVAT/4-12000/560 ND	3.7kW 230V 16A Max	£1,717.69
CVAT Pack 9	4.00 @ 250	CVAT/4-16000/630 ND	3.7kW 230V 16A Max	£2,253.08

SINGLE-PHASE INPUT: 6 POLE

CVAT Pack 10	3.50 @ 250	CVAT/6-15000/710 ND	2.2kW 230V 10A Max	£2,415.30
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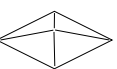
**ALL PACKS
3 YEAR WARRANTY**

ALL THREE PHASE MODELS - Accessories when controlling with a VFD

Model	Trade Prices	Model	Trade Prices	Model	Trade Prices
REB-CVF Off/On and Speed Control	 £121.96	Preparation/ Cook Switch	 £85.49	AV Mounts (set of 4) KSE-45	 £35.49

CVAB / CVAT ND series

Code	Model		Trade Price	Electrical Control Accessories		Installation Accessories		Outdoor Cover	Trade Prices	
				Autotransformer Fan Speed Controller with Motor Protection		Trade Prices	Flexible Connectors (Each)			
CVAB-ND FANS WITH 1PH 230V 50HZ MOTORS										
5137825400	CVAB/4-1400/250 ND		£503.66	REV-3N		£388.33	ACOPEL 250/160N	£20.07	CTI CVA-N 250/315	£21.10
5137825500	CVAB/4-2000/315 ND		£568.89	REV-3N		£388.33	ACOPEL 315/160N	£22.79	CTI CVA-N 250/315	£21.10
5137825600	CVAB/4-3000/355 ND		£705.37	REV-3N		£388.33	ACOPEL 355/160N	£23.26	CTI CVA-N 355/400	£21.10
5137825700	CVAB/4-4000/400 ND		£886.55	REV-3N		£388.33	ACOPEL 400/160N	£33.74	CTI CVA-N 355/400	£21.10
5137823500	CVAB/4-6000/450 ND		£927.62	REV-5N		£468.42	ACOPEL 450/160N	£36.15	CTI CVA-N 450	£42.42
5137830100	CVAB/4-6000/500 ND		£1,086.89	REV-5N		£468.42	ACOPEL 500/160N	£38.60	CTI CVA-N 450	£21.10
5137825800	CVAB/4-9000/500 ND		£1,229.10	REV-7N		£489.02	ACOPEL 500/160N	£38.60	CTI CVA-N 500	£43.94

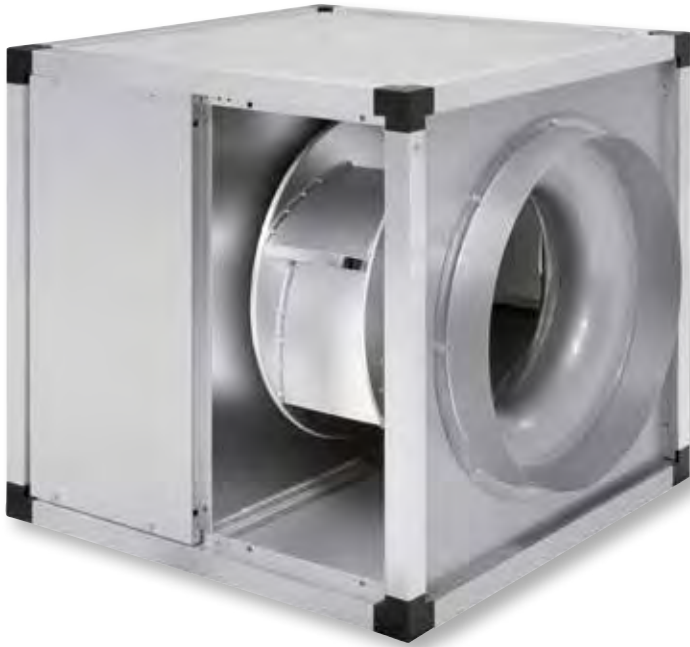
Code	Model		Trade Prices	Inverter Speed Controller IN: 1Ph 230V 50Hz OUT: 3Ph 230V 50Hz S&P VFD		Inverter Speed Controller IN: 3Ph 400V 50Hz OUT: 3Ph 400V 50Hz S&P VFD		Flexible Connectors (Each)		Trade Prices	Outdoor Cover		Trade Prices
					Trade Prices		Trade Prices						
CVAT-ND FANS WITH 3PH 230/400V 50HZ MOTORS													
5137823700	CVAT/4-1400/250 ND		£478.31	-M10A	£489.25	-T5A	£565.47	ACOPEL 250/160N		£20.07	CTI CVA-N 250/315		£21.10
5137823800	CVAT/4-2000/315 ND		£541.11	-M10A	£489.25	-T5A	£565.47	ACOPEL 315/160N		£22.79	CTI CVA-N 250/315		£21.10
5137823900	CVAT/4-3000/355 ND		£746.96	-M10A	£489.25	-T5A	£565.47	ACOPEL 355/160N		£23.26	CTI CVA-N 355/400		£21.10
5137824000	CVAT/4-4000/400 ND		£822.54	-M10A	£489.25	-T5A	£565.47	ACOPEL 400/160N		£33.74	CTI CVA-N 355/400		£21.10
5137824100	CVAT/4-6000/450 ND		£919.73	-M10A	£489.25	-T5A	£565.47	ACOPEL 450/160N		£36.15	CTI CVA-N 450		£42.42
5137831300	CVAT/4-6000/500 ND		£1,070.51	-M10A	£489.25	-T5A	£565.47	ACOPEL 500/160N		£38.60	CTI CVA-N 500		£21.10
5137824200	CVAT/4-9000/500 ND		£1,114.98	-M10A	£489.25	-T5A	£565.47	ACOPEL 500/160N		£38.60	CTI CVA-N 500		£43.94
5137824300	CVAT/4-12000/560 ND		£1,152.27	-M16A	£596.37	-T5A	£565.47	ACOPEL 560/160N		£40.68	CTI CVA-N 560		£48.22
5137824400	CVAT/4-16000/630 ND		£1,872.15	-M16A	£596.37	-T6.8A	£613.88	ACOPEL 630/160N		£44.87	CTI CVA-N 630		£55.07

THREE PHASE 6 POLE

5137824500	CVAT/6-15000/710 ND		£2,066.60	-M10A	£596.37	-T5A	£565.47	ACOPEL 710/180N	£56.10	CTI CVA-N 710	£66.33
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HIGH TEMPERATURE BOX FAN

KABB / KABT series



HIGH TEMPERATURE

motor out of airstream, double skinned backward curved impeller acoustic box fan.



KABB/T ND SERIES

Cabinet fans manufactured from galvanised sheet steel with double thickness side panels internally lined with 25 mm thickness of fireproof fibreglass acoustic insulation (M0). Circular duct connection flange on the inlet. KABB / KABT incorporates direct-drive backward curved centrifugal impeller with motor out of air-stream. Motor rated at IP55.

Motors

From KABB/4-3000/315 to KABB/4-6000/450:
Single-phase 4 pole 230V~50Hz, IP55, Class F with thermal protection. Speed controllable by auto-transformer.
From KABT/4-3000/315 to KABT/4-9000/500:
Three-phase 4 pole motor 230/400V~50Hz, IP55, Class F, with thermal protection, speed controllable by inverter.
KABT/4-1200/560: Three phase four pole motor 400V ~50Hz, IP55, Class F, with thermal protection, speed controllable by inverter.

Additional information

Working temperature from -20°C to 100°C.



Backward curved centrifugal impellers
To prevent the build-up of dirt. Dynamically balanced.



Robustness
Quality finished plastic corners and aluminium profile, provides a robust construction.



IP55 remote terminal box
To ease installation and connection to external controls.

KABB / KABT series



KABB / KABT SERIES BOX FANS

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.

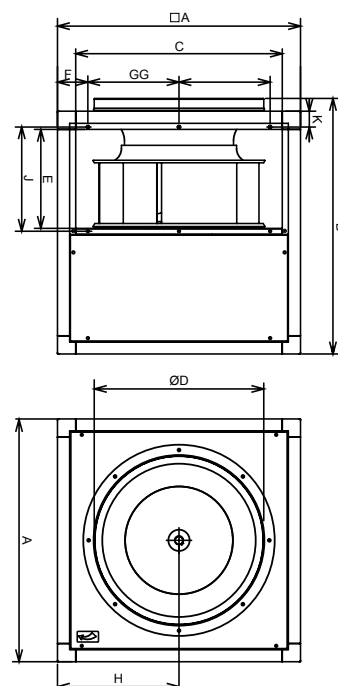
Model	Speed (rpm)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)		Maximum Airflow (m³/s)	Sound Pressure Level (dB(A)) at 3m*			Weight (kg)	Speed Controller Options Main Supply	
			230V	400V		Inlet	Radiated	Outlet		1/230V/50Hz**	3/400V/50Hz**
SINGLE PHASE											
KABB/4-3000/315	1370	304	1.6		0.68	54	48	55	14	REV-3N	
KABB/4-4000/355	1385	487	2.0		1.05	57	49	59	21	REV-3N	
KABB/4-6000/450	1375	1023	4.3		1.64	60	48	65	32	REV-5N	
THREE PHASE											
KABT/4-3000/315	1430	327	1.2	0.7	0.76	55	49	56	14	S&P VFD-M10A	S&P VFD-T 5A
KABT/4-4000/355	1450	560	2.1	1.2	1.17	58	50	60	21	S&P VFD-M10A	S&P VFD-T 5A
KABT/4-6000/450	1490	1094	4.2	2.4	1.7	62	50	66	32	S&P VFD-M10A	S&P VFD-T 5A
KABT/4-9000/500	1430	2022	6.1	3.5	2.45	71	57	72	46	S&P VFD-M10A	S&P VFD-T 5A
KABT/4-12000/560	1430	2673	8.7	5	3.17	66	54	70	58	S&P VFD-M16A	S&P VFD-T 6.8A

* Sound pressure level measured in free field at 3m.

** Only 230/400V motor.

KABB / KABT SERIES Dimensions (mm)

Model	A	B	C	D	E	F	G	H	J	K
KABB/4-3000/315	505	547	405	315	204	100	152.5	253	225.5	40
KABB/4-4000/355	550	592	450	355	230	100	175	275	248	40.5
KABB/4-6000/450	630	675	530	450	248	100	215	315	269	40
KABT/4-3000/315	505	547	405	315	240	100	152.5	253	225.5	40
KABT/4-4000/355	550	592	450	355	230	100	175	275	248	40.5
KABT/4-6000/450	630	675	530	450	248	100	215	315	269	40
KABT/4-9000/500	710	753	590	500	276	100	255	355	293	51.5
KABT/4-12000/560	800	844	680	560	326	100	300	400	343.5	51.5

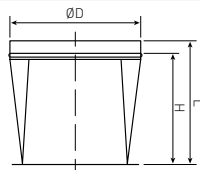


KABB / KABT series

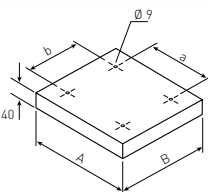
Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa
Airflow m ³ /s @ static pressure (Pa)														
SINGLE PHASE														
KABB/4-3000/315	0.686	0.637	0.584	0.521	0.454	0.402	0.342	0.193	0.053					
KABB/4-4000/355	1.053	0.996	0.939	0.883	0.824	0.755	0.672	0.580	0.482	0.023				
KABB/4-6000/450	1.605	1.542	1.477	1.410	1.340	1.265	1.182	1.089	0.975	0.724	0.423			
THREE PHASE														
KABT/4-3000/315	0.758	0.719	0.675	0.613	0.549	0.493	0.436	0.375	0.296	0.013				
KABT/4-4000/355	1.112	1.066	1.020	0.975	0.928	0.875	0.804	0.719	0.643	0.318				
KABT/4-6000/450	1.699	1.649	1.597	1.544	1.488	1.426	1.361	1.293	1.223	1.073	0.720	0.170		
KABT/4-9000/500	2.456	2.387	2.318	2.249	2.180	2.111	2.043	1.974	1.904	1.759	1.591	1.367	1.029	0.292
KABT/4-12000/560	3.230	3.161	3.091	3.020	2.947	2.871	2.791	2.707	2.618	2.426	2.196	1.878	1.635	1.359

Mounting accessories

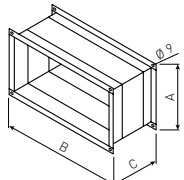
USD Circular coupling flange To fit to the outlet. For rectangular dimensions see fan outlet

		Model	Ø D	L	H
		USD-3000	315	450	400
		USD-4000	355	450	400
		USD-6000	400	450	400
		USD-9000	500	450	400
		USD-12000	560	450	400

CTI KABT Outdoor cover for outdoor installations.

		Model	A	B	a	b
		CTI KABT-3000	535	535	352,2	420,7
		CTI KABT-4000	580	580	370	465,5
		CTI KABT-6000	660	660	450	545,5
		CTI KABT-9000	740	740	510	605,5
		CTI KABT-12000	830	830	600	695,5

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

		Model	A	B	C
		ACOP RECT KABT-3000	220	443	143
		ACOP RECT KABT-4000	243	488	143
		ACOP RECT KABT-6000	264	568	143
		ACOP RECT KABT-9000	292	628	143
		ACOP RECT KABT-12000	364	718	143

ACOPEL F400 N Circular flexible connector plus worm-drive clips. Certified F400-120.

Model	Flexible Connector
KABB-KABT/4-3000/315	ACOPEL F400-315/160N
KABB-KABT/4-4000/355	ACOPEL F400-355/160N
KABB-KABT/4-6000/450	ACOPEL F400-450/160N
KABT/4-9000/500	ACOPEL F400-500/160N
KABT/4-12000/560	ACOPEL F400-500/160N
KABB-KABT/4-3000/315	ACOPEL F400-315/160N
KABB-KABT/4-4000/355	ACOPEL F400-355/160N
KABB-KABT/4-6000/450	ACOPEL F400-450/160N
KABT/4-9000/500	ACOPEL F400-500/160N
KABT/4-12000/560	ACOPEL F400-500/160N



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).

KABB / KABT series

1PH > 3PH PACKAGED PRODUCTS

Order Code	Airflow @ Pressure (M ³ /s @ Pa)	Model Reference	Inverter VFD 1Ph > 3Ph	Packaged Trade Prices
KABT Pack 1	0.493 @ 250	KABT/4-3000/315	2.2kW 230V 10A Max	£1,341.41
KABT Pack 2	0.875 @ 250	KABT/4-4000/355	2.2kW 230V 10A Max	£1,405.72
KABT Pack 3	1.426 @ 250	KABT/4-6000/450	2.2kW 230V 10A Max	£1,598.69
KABT Pack 4	2.111 @ 250	KABT/4-9000/500	2.2kW 230V 10A Max	£1,813.54
KABT Pack 5	2.871 @ 250	KABT/4-12000/560	3.7kW 230V 16A Max	£2,229.51

**ALL PACKS
3 YEAR WARRANTY**

			Autotransformer Fan Speed Controller		Rectangular to Circular Coupling Flange			
Code	Model		Trade Prices		Trade Prices	Code		Trade Prices

SINGLE PHASE 4 POLE

5148456500	KABB/4 3000/315	£1,313.74	REV-3N	£388.33	5416773800	USD-3000	£127.99
5148456600	KABB/4 4000/355	£1,423.22	REV-3N	£388.33	5416773900	USD-4000	£139.66
5148518500	KABB/4 6000/450	£1,531.46	REV-5N	£468.42	5416774000	USD-6000	£151.27

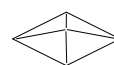
			Rectangular Flexible Coupling (2xMezz Flange + HT Flex)			Outdoor Cover / Hood			
Code	Model		Trade Prices	Code		Trade Prices	Code		Trade Prices

SINGLE PHASE 4 POLE

5148456500	KABB/4 3000/315	£1,313.74	5780184405	ACOP-RECT-KABT 3000	£72.07	5416733700	CTI KABT 3000	£28.46
5148456600	KABB/4 4000/355	£1,423.22	5780184512	ACOP-RECT-KABT 4000	£74.31	5416733800	CTI KABT 4000	£33.04
5148518500	KABB/4 6000/450	£1,531.46	5780184619	ACOP-RECT-KABT 6000	£82.17	5416733900	CTI KABT 6000	£39.57

KABB / KABT series

			Inverter Speed Controller IN: 1Ph 230V 50Hz OUT: 3Ph 230V 50Hz S&P VFD		Inverter Speed Controller IN: 3Ph 400V 50Hz OUT: 3Ph 400V 50H S&P VFD		Rectangular to Circular Coupling Flange			
Code	Model		Trade Prices		Trade Prices		Trade Prices	Code		Trade Prices
THREE PHASE 4 POLE										
5148518700	KABT/4 3000/315 0.25KW 230/400V		£1,037.92	VFD-M10A	£489.25	VFD-T5A	£565.47	5416773800	USD-3000	£127.99
5148518800	KABT/4 4000/355 0.5KW 230/400V		£1,098.14	VFD-M10A	£489.25	VFD-T5A	£565.47	5416773900	USD-4000	£139.66
5148518900	KABT/4-6000/450 1.1KW 230/400V		£1,278.83	VFD-M10A	£489.25	VFD-T5A	£565.47	5416774000	USD-6000	£151.27
5148519000	KABT/4 9000/500 1.5KW 230/400V		£1,480.01	VFD-M10A	£489.25	VFD-T5A	£565.47	5416778700	USD-9000	£171.74
5148571300	KABT/4 12000/560 2.2KW 230/400V		£1,869.52	VFD-M16A	£596.37	VFD-T6.8A	£613.88	5416774100	USD-12000	£189.40

Code	Model		Rectangular Flexible Coupling (2xMezz Flange + HT Flex)			Outdoor Cover/Hood		
			Code		Trade Prices	Code		Trade Prices
THREE PHASE 4 POLE								
5148518700	KABT/4-3000/315 0,25KW 230/400V		5780184405	ACOP-RECT-KABT 3000	£72.07	5416733700	CTI KABT 3000	£28.46
5148518800	KABT/4-4000/355 0,5KW 230/400V		5780184512	ACOP-RECT-KABT 4000	£74.31	5416733800	CTI KABT 4000	£33.04
5148518900	KABT/4-6000/450 1,1KW 230/400V		5780184619	ACOP-RECT-KABT 6000	£82.17	5416733900	CTI KABT 6000	£39.57
5148519000	KABT/4-9000/500 1,5KW 230/400V		5780191360	ACOP-RECT-KABT 9000	£86.14	5416734100	CTI KABT 9000	£47.11
5148571300	KABT/4-12000/560 2,2KW 230/400V		5780184726	ACOP-RECT-KABT 12000	£90.13	5416734000	CTI KABT 12000	£54.67

ALL THREE PHASE MODELS - Accessories when controlling with a VFD

Model	Trade Prices	Model	Trade Prices
REB-CVF Off/On and Speed Control	 £121.96	Preparation/ Cook Switch	 £85.49



S&P VALUES

We get the job done

We demonstrate initiative and a 'can-do' approach to our work. We are all accountable for 'getting the job done' to exceed the expectations of our customers and colleagues.

Together we work better

We each make a difference but operate as a team with trust and integrity sharing our skills, knowledge and experience to deliver the best results and celebrate our success together.

Keep it simple

We listen. We are open, honest and straight forward and treat our customers and colleagues how they would like to be treated.

We value the quality of reputation

We are proud of our professional experience and culture. We work hard so our customers and collaborators recognise us as the world leaders in ventilation.

Opportunity for all

We value our people, encourage the development and equip them with skills, experience and confidence to be the best they can be.

INLINE RECTANGULAR DUCT FANS

IRB / IRT series



Inspection door that facilitates maintenance.



PART L2: 2013
COMPLIANT

RECTANGULAR SWING OUT

backward curved
impeller inline fan.

IRB/IRT SERIES

Range of rectangular duct fans suitable for many general ventilation applications where the fan is required to be installed within a rectangular ducted ventilation system or where the space for installation is limited.

High performance centrifugal fans.

All models suitable for mounting in any orientation.

Casing manufactured from heavy gauge galvanised sheet steel.

Direct drive backward curved impellers manufactured from aluminium sheet.

External rotor motor, Class F insulation with thermal protection.

Remote terminal box.

Motors

Motor and impeller fitted on the inspection cover enabling easy cleaning and maintenance.

IRB models:

Single-phase 230V-50Hz. IP44 or IP54. Depending on product size, speed controllable by transformer.

IRT models:

Three-phase 230/400V-50Hz. IP54. Speed controllable by transformer or frequency drive.



Centrifugal backward
curved impeller
To prevent accumulation
of dirt. Dynamically balanced.



IP55 remote terminal box
To ease installation and
maintenance and connection
to external controls.

IRB / IRT series



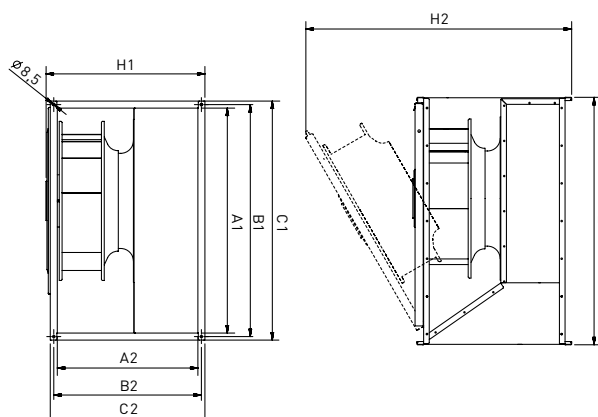
IRB / IRT series

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	Nominal Ducting Diameter (mm)	Speed (rpm)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)		Maximum Airflow (m³/s)	Min/Max Ambient Temperature (°C)	Sound pressure level at 3m (dB(A))			Weight (kg)	Speed Controller	
				230V	400V			Inlet	Radiated	Outlet			
SINGLE PHASE													
IRB/2-180	300x150	2690	63	0.3		0.14	-30/70	50	36	53	10	REV-3N	
IRB/2-200 A	400x200	2635	136	0.6		0.28	-30/70	53	40	56	16	REV-3N	
IRB/2-200 B	400x200	2610	204	0.9		0.46	-30/70	55	42	59	16	REV-3N	
IRB/4-225	500x250	1388	152	0.6		0.44	-40/70	53	45	57	30	REV-3N	
IRB/4-315 A	600x350	1397	278	1.2		0.73	-40/70	53	45	57	37	REV-3N	
IRB/4-315 B	600x350	1388	569	2.4		1.03	-40/70	60	52	65	43	REV-3N	
IRB/4-355	700x400	1402	845	3.6		1.55	-40/50	60	49	66	56	REV-5N	
THREE PHASE													
IRT/4-315 A	600x350	1398	244	0.9	0.5	0.71	-40/50	53	47	59	37	VFD-M 10A	VFD-T 5A
IRT/4-315 B	600x350	1415	568	2.1	1.2	1.07	-40/70	62	53	66	43	VFD-M 10A	VFD-T 5A
IRT/4-355	700x400	1396	813	2.9	1.7	1.54	-40/60	61	49	67	52	VFD-M 10A	VFD-T 5A
IRT/4-400 A	800x500	1431	1501	5.5	3.2	2.20	-40/70	64	55	70	80	VFD-M 10A	VFD-T 5A
IRT/4-400 B	800x500	1393	2142	6.9	4.0	2.66	-40/40	66	56	72	80	VFD-M 10A	VFD-T 5A
IRT/4-450	1000x500	1381	2379	7.4	4.3	2.98	-40/40	68	61	74	96	VFD-M 10A	VFD-T 5A

IRB / IRT SERIES Dimensions (mm)

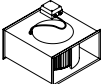
Model	A1	A2	B1	B2	C1	C2	H1	H2	L
180	300	150	320	170	340	190	200	480	375
200	400	200	420	220	440	240	250	650	500
225	500	250	520	270	540	290	300	730	530
315	600	350	620	370	640	390	405	1020	720
355	700	400	720	420	740	440	460	1135	790
400	800	500	820	520	845	545	565	1330	880
450	1000	500	1020	520	1045	545	565	1430	980



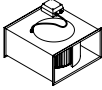
IRB / IRT series

Model	0 Pa	25 Pa	50 Pa	75 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa
Airflow m ³ /s @ static pressure (Pa)																	
SINGLE PHASE																	
IRB/2-180	0.141	0.135	0.129	0.123	0.118	0.104	0.091	0.079	0.065	0.041	0.013						
IRB/2-200-A	0.281	0.274	0.266	0.258	0.250	0.232	0.215	0.199	0.183	0.165	0.144	0.119	0.094				
IRB/2-200-B	0.374	0.365	0.355	0.346	0.336	0.316	0.296	0.275	0.254	0.231	0.207	0.182	0.158	0.113			
IRB/4-225	0.444	0.419	0.396	0.374	0.353	0.307	0.248	0.173	0.083								
IRB/4-315-A	0.727	0.695	0.664	0.636	0.610	0.561	0.509	0.446	0.350	0.234	0.094						
IRB/4-315-B	1.032	1.005	0.978	0.951	0.924	0.869	0.812	0.750	0.683	0.608	0.518	0.404	0.267				
IRB/4-355	1.555	1.511	1.468	1.426	1.387	1.316	1.249	1.184	1.118	1.051	0.981	0.902	0.790	0.509			
THREE PHASE																	
IRT/4-315-A	0.707	0.679	0.650	0.623	0.596	0.543	0.488	0.419	0.325	0.220	0.084						
IRT/4-315-B	1.070	1.044	1.019	0.993	0.968	0.915	0.861	0.805	0.745	0.675	0.588	0.482	0.370				
IRT/4-355	1.545	1.505	1.464	1.425	1.386	1.311	1.239	1.168	1.095	1.016	0.924	0.817	0.697	0.421			
IRT/4-400-A	2.204	2.156	2.109	2.063	2.019	1.939	1.867	1.801	1.739	1.681	1.623	1.564	1.501	1.324	0.948	0.683	0.050
IRT/4-400-B	2.662	2.620	2.578	2.536	2.494	2.411	2.329	2.248	2.168	2.090	2.013	1.937	1.862	1.719	1.571	1.358	0.951
IRT/4-450	2.979	2.935	2.892	2.848	2.805	2.718	2.632	2.545	2.458	2.367	2.272	2.170	2.065	1.853	1.625	1.305	0.769

Trade Prices

Code	Model		Trade Prices	Transformer Speed Controller		Trade Prices	Inverter S&P VFD-M 1/230V		Trade Prices	Inverter S&P VFD-M 3/400V		Trade Prices
SINGLE PHASE 2 POLE												
5132928800	IRB/2-180		£270.22	REV-3N		£388.33						
5132928600	IRB/2-200 A		£336.43	REV-3N		£388.33						
5132928700	IRB/2-200 B		£379.03	REV-3N		£388.33						
SINGLE PHASE 4 POLE												
5132927000	IRB/4-225		£591.02	REV-3N		£388.33						
5132927100	IRB/4-315 A		£877.76	REV-3N		£388.33						
5132929000	IRB/4-315 B		£996.94	REV-3N		£388.33						
5132929200	IRB/4-355		£1,119.19	REV-5N		£468.42						
THREE PHASE 4 POLE												
5132929300	IRT/4-315 A		£829.22				VFD-M 10A		£489.25	VFD-T 5A		£565.47
5132927200	IRT/4-315 B		£914.28				VFD-M 10A		£489.25	VFD-T 5A		£565.47
5132927800	IRT/4-355		£1,024.53				VFD-M 10A		£489.25	VFD-T 5A		£565.47
5132927500	IRT/4-400 A		£1,391.54				VFD-M 10A		£489.25	VFD-T 5A		£565.47
5132928000	IRT/4-400 B		£1,552.52				VFD-M 10A		£489.25	VFD-T 5A		£565.47
5132928300	IRT/4-450		£1,740.14				VFD-M 10A		£489.25	VFD-T 5A		£565.47

IRB / IRT series

Code	Model		Trade Prices	IFL Filters		Trade Prices	Flexible Connector		Trade Prices
SINGLE PHASE 2 POLE									
5132928800	IRB/2-180		£270.22				IAE-180		£63.98
5132928600	IRB/2-200 A		£336.43	IFL-200 G4		£134.71	IAE-200		£71.94
5132928700	IRB/2-200 B		£379.03	IFL-200 G4		£134.71	IAE-200		£71.94
SINGLE PHASE 4 POLE									
5132927000	IRB/4-225		£591.02	IFL-225 G4		£151.35	IAE-225		£75.46
5132927100	IRB/4-315 A		£877.76	IFL-315 G4		£172.82	IAE-315		£92.40
5132929000	IRB/4-315 B		£996.94	IFL-315 G4		£172.82	IAE-315		£92.40
5132929200	IRB/4-355		£1,119.19	IFL-355 G4		£198.87	IAE-355		£99.94
THREE PHASE 4 POLE									
5132929300	IRT/4-315 A		£829.22	IFL-315 G4		£172.82	IAE-315		£92.40
5132927200	IRT/4-315 B		£914.28	IFL-315 G4		£172.82	IAE-315		£92.40
5132927800	IRT/4-355		£1,024.53	IFL-355 G4		£198.87	IAE-355		£99.94
5132927500	IRT/4-400 A		£1,391.54	IFL-400 G4		£229.55	IAE-400		£111.24
5132928000	IRT/4-400 B		£1,552.52	IFL-400 G4		£229.55	IAE-400		£111.24
5132928300	IRT/4-450		£1,740.14	IFL-450 G4		£336.99	IAE-450		£122.57

ALL THREE PHASE MODELS - Accessories when controlling with a VFD

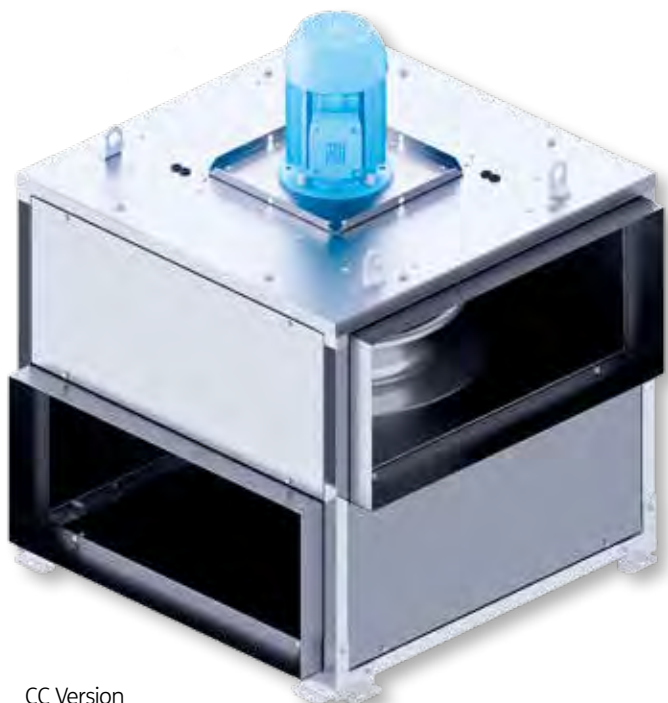
Model		Trade Prices	Model		Trade Prices
REB-CVF Off/On and speed control		£121.96	Preparation/ Cook Switch		£85.49

ALL THREE PHASE MODELS

Code		Trade Prices
DOL Starter MSD 0-025A		£227.62

INLINE CENTRIFUGAL DUCT FANS

ILHT series



CC Version



PART L2: 2013
COMPLIANT

ILHT SERIES

Application

Extraction of pollutants in professional kitchens. Installation in all positions and connection on all faces.

Range

8 sizes: 355, 400, 450, 500, 560, 630, 710 and 800

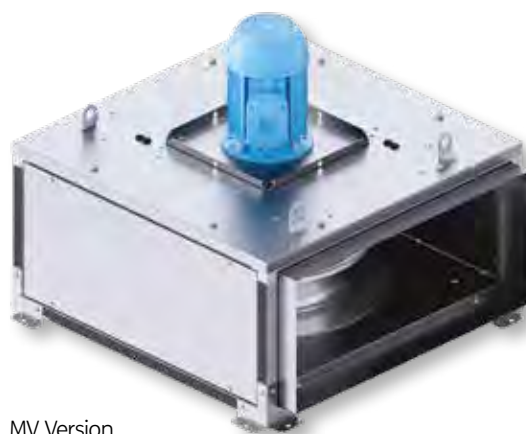
Air performance range from 0.94 up to 7.13 m³/s.

ILHT CC: Fan with multidirectional inlet plenum, motor shaft horizontal or vertical.

ILHT MV: Ventilation unit only, motor shaft horizontal or vertical.

HIGH TEMPERATURE

motor out of airstream, 400°C backward curved impeller in line fan.



MV Version

Construction

- Reinforced sealing with grease resistant seal.
- Condensation drain provided. (Not mounted)
- Panels made of galvanized sheet steel.
- Modular structure in aluminium profiles.
- 4 mounting brackets.
- Rectangular duct couplings.
- Direct drive centrifugal backward curved impeller manufactured from galvanized sheet steel.
- Full access for cleaning and maintenance without dismantling the fan from the duct system.
- Motor is IP55, class F insulation and three-phase 230/400V 50Hz, speed controllable by frequency inverter.

ILHT series



ILHT SERIES - CC Version

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 (rpm)	Motor Power (W)	Nominal Current (A)		Maximum Air Volume (m³/s)	Sound Pressure Level at 3m(dB(A))			Weight (kg)	Speed Controller	
			230V	400V		Inlet	Radiated	Outlet		IN: 1Ph 230v 50Hz / OUT: 3Ph 230V 50Hz	IN: 3Ph 400v 50Hz / OUT: 3Ph 400V 50Hz
THREE-PHASE 4 POLE MOTORS											
ILHT/4-355 CC	1410	0.25	1.4	0.8	0.94	51	44	57	59	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/4-400 CC	1430	0.55	2.5	1.4	1.48	55	47	61	72	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/4-450 CC	1460	1.1	4.1	2.3	2.18	60	53	64	92	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/4-500 CC	1450	1.5	5.5	3.2	2.67	61	53	69	114	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/4-560 CC	1440	2.2	7.9	4.6	3.46	63	52	64	159	S&P VFD-M 10A	S&P VFD-T 6.8A
THREE-PHASE 6 POLE MOTORS											
ILHT/6-355 CC	900	0.18	1.3	0.7	0.58	42	35	49	59	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-400 CC	930	0.37	2.0	1.1	0.95	46	38	52	72	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-450 CC	930	0.37	2.0	1.1	1.37	51	44	57	92	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-500 CC	930	0.55	2.8	1.6	1.69	53	44	60	114	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-560 CC	930	0.75	3.4	1.9	2.21	56	43	57	159	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-630 CC	930	1.1	4.7	2.7	3.28	58	48	62	162	S&P VFD-M 10A	S&P VFD-T 5A
ILHT/6-710 CC	980	3	12.0	6.9	5.25	62	55	69	264	S&P VFD-M 16A	S&P VFD-T 9A
ILHT/6-800 CC	970	4	15.6	9.0	7.13	64	55	66	307		S&P VFD-T 9A



ILHT SERIES - MV Version

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 (rpm)	Motor Power (W)	Nominal Current (A)		Maximum Air Volume (m³/s)	Sound Pressure Level at 3m(dB(A))			Weight (kg)	Speed Controller		
			230V	400V		Inlet	Radiated	Outlet		IN: 1Ph 230v 50Hz / OUT: 3Ph 230V 50Hz	IN: 3Ph 400v 50Hz / OUT: 3Ph 400V 50Hz	
THREE-PHASE 4 POLE MOTORS												
ILHT/4-355 MV	1410	0.25	1.4	0.8	0.98	51	40	53	39	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/4-400 MV	1430	0.55	2.5	1.4	1.57	56	44	57	49	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/4-450 MV	1450	1.1	4.1	2.3	2.31	60	49	61	67	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/4-500 MV	1450	1.5	5.5	3.2	2.82	62	52	64	88	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/4-560 MV	1450	2.2	7.9	4.6	3.58	63	52	66	111	S&P VFD-M 10A	S&P VFD-T 6.8A	
THREE-PHASE 6 POLE MOTORS												
ILHT/6-355 MV	900	0.18	1.3	0.7	0.62	42	31	44	39	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-400 MV	930	0.37	2.0	1.1	1.0	47	35	48	49	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-450 MV	930	0.37	2.0	1.1	1.45	51	40	53	67	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-500 MV	930	0.55	2.8	1.6	1.78	53	43	55	88	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-560 MV	940	0.75	3.4	1.9	2.30	54	43	57	111	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-630 MV	940	1.1	4.7	2.7	3.40	58	50	59	118	S&P VFD-M 10A	S&P VFD-T 5A	
ILHT/6-710 MV	980	3	12.0	6.9	5.47	62	57	66	144	S&P VFD-M 16A	S&P VFD-T 9A	
ILHT/6-800 MV	970	4	15.6	9.0	6.89	64	59	66	224		S&P VFD-T 9A	

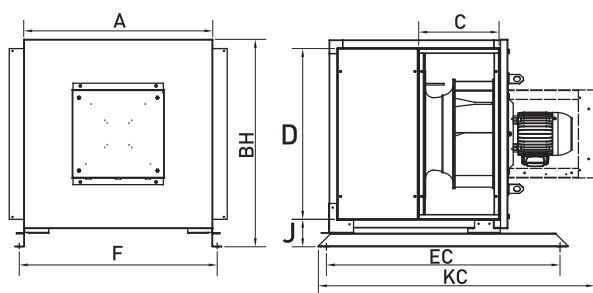
ILHT series

ILHT SERIES - CC MODELS

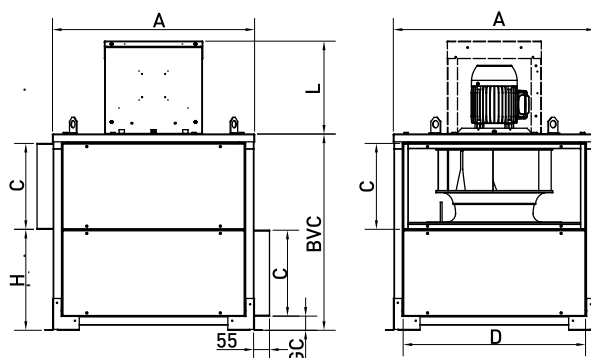
Dimensions (mm)

CC Model	A	BH	BVC	C	D	EC	F	GC	H	J	KC	L
355	627	695	645	263	559	790	660	50	315	102	954	321
400	699	767	678	297	631	864	732	50	349	102	1022	321
450	779	847	738	326	711	990	812	50	378	102	1081	321
500	858	925	784	338	768	1039	890	62	402	112	1145	351
560	954	1021	817	354	864	1139	986	62	419	112	1178	351
630	1066	1133	912	403	977	1183	1098	62	466	112	1273	351
710	1194	1261	1032	462	1104	1325	1226	62	526	112	1488	446
800	1338	1420	1084	488	1248	1379	1370	62	552	112	1540	446

Mounting with the motor in horizontal position.



Mounting with the motor in vertical position.

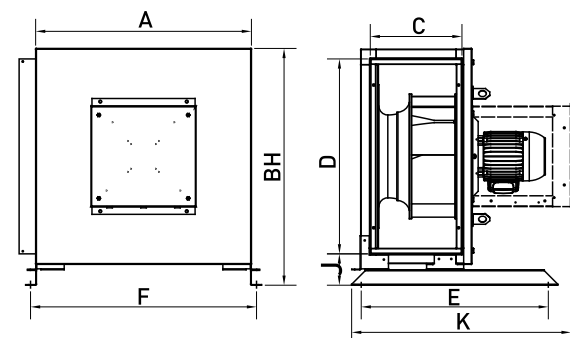


ILHT SERIES - MV MODELS

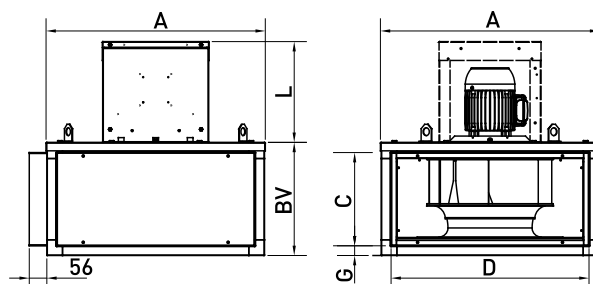
Dimensions (mm)

MV Model	A	BH	BV	C	D	E	F	G	J	K	L
355	627	695	327	263	559	606	660	31	102	677	321
400	699	767	361	297	631	606	732	31	102	711	321
450	779	847	392	326	711	606	812	31	102	743	321
500	858	925	424	338	768	700	890	42	112	805	351
560	954	1021	441	354	864	700	986	42	112	822	351
630	1066	1133	488	403	977	700	1098	42	112	869	351
710	1194	1261	551	462	1104	906	1226	42	112	994	446
800	1338	1420	574	488	1248	906	1370	42	112	1050	446

Mounting with the motor in horizontal position.



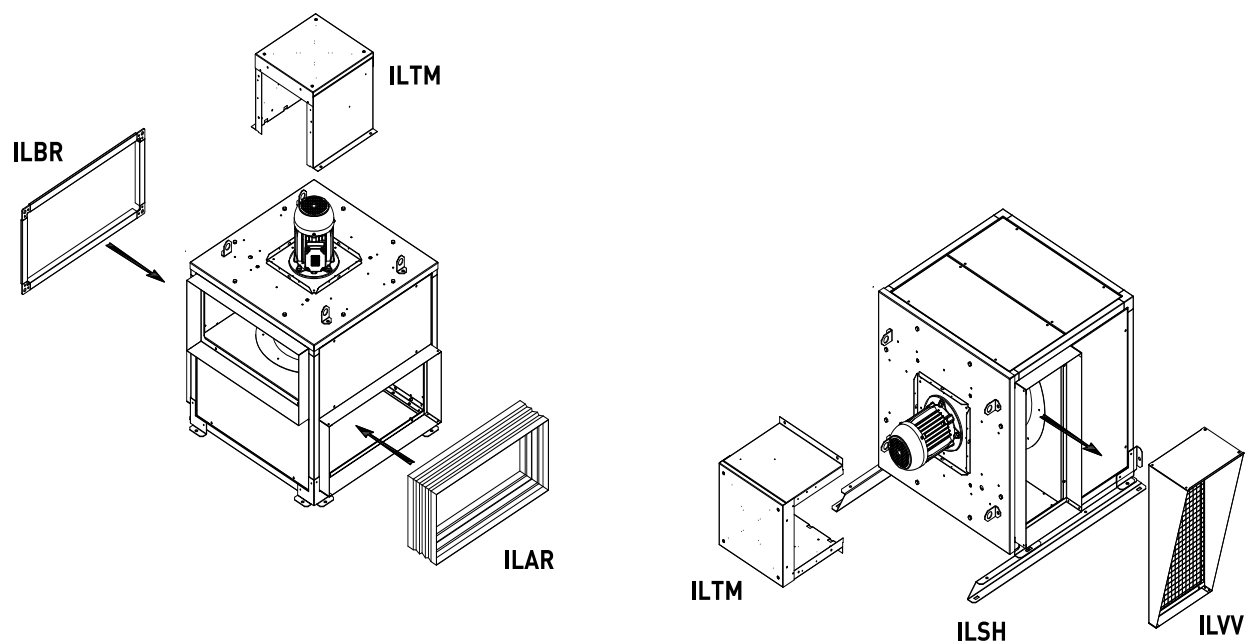
Mounting with the motor in vertical position.



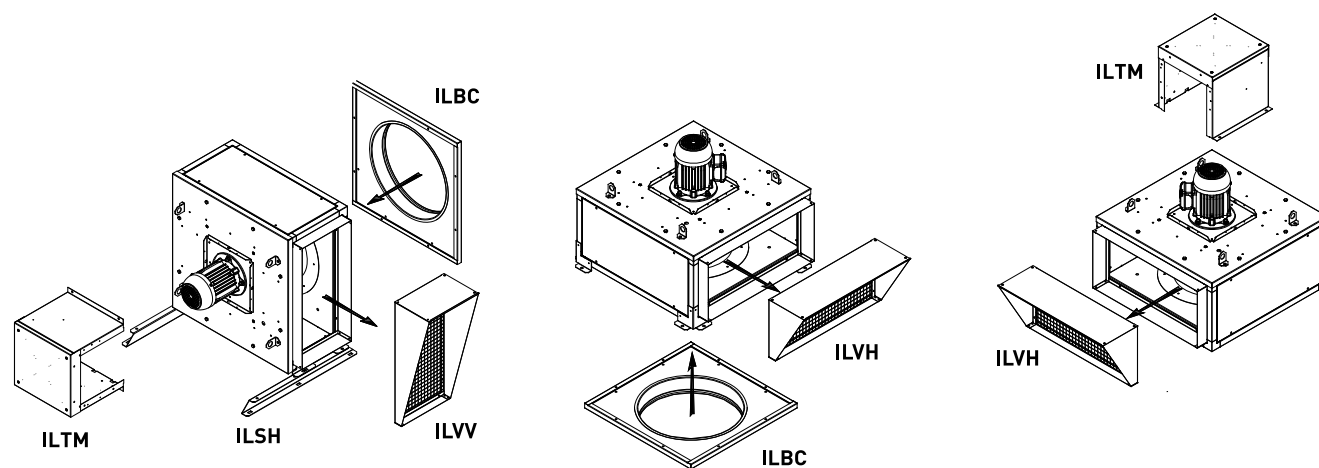
ILHT series

Mounting accessories

CC VERSION

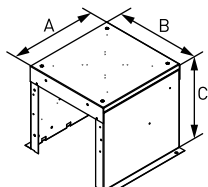
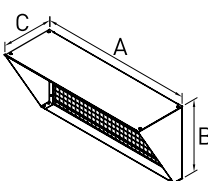
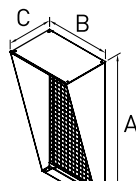
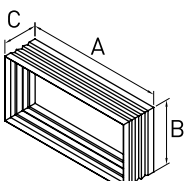
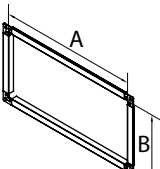
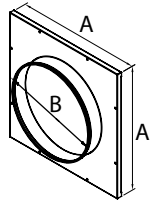


MV VERSION



ILHT series

Mounting Accessories

		Model	A	B	C
ILTM Motor cover					
		355	340	325	305
		400	340	325	305
		450	340	325	305
		500	415	475	355
		560	415	475	355
		630	415	475	355
		710	510	465	450
		800	510	465	450
ILVV - ILVH Discharge protection guard (Horizontal Discharge guard)					
		355	559	263	197
		400	631	297	216
		450	711	326	233
		500	768	338	240
		560	864	354	250
		630	977	403	278
		710	1104	462	311
		800	1248	488	328
ILVV - ILVH Discharge protection guard (Vertical Discharge guard)					
		355	559	263	194
		400	631	297	213
		450	711	326	234
		500	768	338	249
		560	864	354	275
		630	977	403	305
		710	1104	462	340
		800	1248	488	378
ILAR Flexible rectangular flange duct connector.					
		355	559	266	160
		400	631	300	160
		450	711	329	160
		500	768	341	160
		560	864	357	160
		630	977	406	160
		710	1104	465	160
		800	1248	491	160
ILBR Rectangular duct connection flange					
		355	559	263	
		400	631	297	
		450	711	326	
		500	768	338	
		560	864	354	
		630	977	403	
		710	1104	462	
		800	1248	488	
ILBC Inlet circular duct connection flange (MV version)					
		355	559	400	
		400	631	450	
		450	711	500	
		500	768	560	
		560	864	63	
		630	977	710	
		710	1104	800	
		800	1248	900	

ILHT series

ILHT SERIES - CC MODELS

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa	650 Pa	700 Pa	750 Pa	800 Pa	850 Pa
Airflow (m³/s) @ Static Pressure (Pa)																		
CC / 4-POLE MOTORS																		
ILHT/4-355 CC	0.94	0.88	0.83	0.76	0.68	0.59	0.47											
ILHT/4-400 CC	1.48	1.43	1.37	1.29	1.21	1.13	1.03	0.90	0.75									
ILHT/4-450 CC	2.18	2.11	2.04	1.97	1.89	1.81	1.73	1.61	1.47	1.35	1.18	0.98						
ILHT/4-500 CC	2.67	2.60	2.53	2.45	2.38	2.30	2.21	2.11	1.98	1.84	1.71	1.58	1.42	1.08	0.82			
ILHT/4-560 CC	3.47	3.38	3.29	3.21	3.13	3.05	2.97	2.88	2.78	2.66	2.54	2.41	2.25	2.10	1.94	1.73	1.48	1.20
CC / 6-POLE MOTORS																		
ILHT/6-355 CC	0.59	0.50	0.38															
ILHT/6-400 CC	0.95	0.86	0.74	0.56														
ILHT/6-450 CC	1.37	1.26	1.15	0.97	0.74													
ILHT/6-500 CC	1.69	1.58	1.47	1.32	1.10	0.84												
ILHT/6-560 CC	2.21	2.08	1.96	1.83	1.66	1.45	1.18	0.68										
ILHT/6-630 CC	3.28	3.14	2.99	2.80	2.62	2.43	2.24	2.01	1.54									
ILHT/6-710 CC	5.25	5.11	4.96	4.78	4.58	4.40	4.23	4.05	3.81	3.52	3.20	2.73	1.93					
ILHT/6-800 CC	7.13	6.92	6.71	6.51	6.31	6.11	5.90	5.67	5.42	5.16	4.88	4.59	4.30	3.93	3.50	3.01	2.51	

ILHT SERIES - MV MODELS

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa	650 Pa	700 Pa	750 Pa	800 Pa	850 Pa
Airflow (m³/s) @ Static Pressure (Pa)																		
MV / 4-POLE MOTORS																		
ILHT/4-355 MV	0.99	0.93	0.87	0.80	0.73	0.64	0.50											
ILHT/4-400 MV	1.57	1.51	1.44	1.37	1.30	1.21	1.12	0.99	0.82									
ILHT/4-450 MV	2.31	2.24	2.17	2.10	2.02	1.94	1.85	1.76	1.64	1.50	1.33	1.04						
ILHT/4-500 MV	2.82	2.74	2.67	2.60	2.53	2.44	2.35	2.25	2.15	2.06	1.97	1.79	1.58	1.40				
ILHT/4-560 MV	3.58	3.50	3.42	3.35	3.27	3.19	3.11	3.02	2.92	2.80	2.68	2.56	2.43	2.29	2.08	1.82	1.52	1.12
MV / 6-POLE MOTORS																		
ILHT/6-355 MV	0.62	0.53	0.41															
ILHT/6-400 MV	1.00	0.90	0.79	0.62														
ILHT/6-450 MV	1.46	1.35	1.23	1.08	0.85													
ILHT/6-500 MV	1.79	1.68	1.57	1.42	1.28	0.98												
ILHT/6-560 MV	2.30	2.19	2.07	1.95	1.79	1.60	1.31	0.78										
ILHT/6-630 MV	3.40	3.25	3.10	2.94	2.76	2.56	2.31	2.01	1.60	1.08								
ILHT/6-710 MV	5.47	5.31	5.14	4.96	4.77	4.57	4.36	4.13	3.87	3.60	3.28	2.81	1.76					
ILHT/6-800 MV	6.90	6.71	6.53	6.35	6.16	5.98	5.79	5.58	5.37	5.12	4.85	4.56	4.20	3.80	3.30			

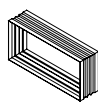
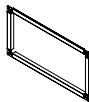
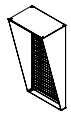
ILHT series

ALL MODELS

5416359700	ISA-ILHT ANTI-VIB SUPPORT
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Code	Model		Inverter VFD Mono 1Ph 230V Input IP65		Inverter VFD Tri 3Ph 400V Input IP65	
5133738400	ILHB/4-355 CC (230V50HZ)					
5133738500	ILHB/4-400 CC (230V50HZ)					
SINGLE PHASE 6 POLE						
5133738600	ILHB/6-355 CC (230V50HZ)					
5133738700	ILHB/6-400 CC (230V50HZ)					
5133738800	ILHB/6-450 CC (230V50HZ)					
5133738900	ILHB/6-500 CC (230V50HZ)					
THREE PHASE 4 POLE						
5133739000	ILHT/4-355 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739100	ILHT/4-400 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739200	ILHT/4-450 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739300	ILHT/4-500 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739400	ILHT/4-560 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000665	S&P VFD-T 6.8A	
THREE PHASE 6 POLE						
5133739500	ILHT/6-355 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739600	ILHT/6-400 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739700	ILHT/6-450 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739800	ILHT/6-500 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133739900	ILHT/6-560 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133740000	ILHT/6-630 CC (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133740100	ILHT/6-710 CC (230/400V50HZ)	S&P1000000663	S&P VFD-M 16A	S&P1000000678	S&P VFD-T 9A	
5133740200	ILHT/6-800 CC (230/400V50HZ)			S&P1000000678	S&P VFD-T 9A	
MV Range						
SINGLE PHASE 4 POLE						
5133740300	ILHB/4-355 MV (230V50HZ)					
5133740400	ILHB/4-400 MV (230V50HZ)					
SINGLE PHASE 6 POLE						
5133740500	ILHB/6-355 MV (230V50HZ)					
5133740600	ILHB/6-400 MV (230V50HZ)					
5133740700	ILHB/6-450 MV (230V50HZ)					
5133740800	ILHB/6-500 MV (230V50HZ)					
THREE PHASE 4 POLE						
5133740900	ILHT/4-355 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133741000	ILHT/4-400 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133742000	ILHT/4-450 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133743000	ILHT/4-500 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133744000	ILHT/4-560 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000665	S&P VFD-T 6.8A	
THREE PHASE 6 POLE						
5133745000	ILHT/6-355 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133746000	ILHT/6-400 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133747000	ILHT/6-450 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133748000	ILHT/6-500 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133749000	ILHT/6-560 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133750000	ILHT/6-630 MV (230/400V50HZ)	S&P1000000662	S&P VFD-M 10A	S&P1000000664	S&P VFD-T 5A	
5133751000	ILHT/6-710 MV (230/400V50HZ)	S&P1000000663	S&P VFD-M 16A	S&P1000000678	S&P VFD-T 9A	
5133752000	ILHT/6-800 MV (230/400V50HZ)			S&P1000000678	S&P VFD-T 9A	

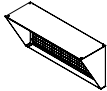
ILHT series

Code	ILHT Mounting Support 	Rectangular Flexible Connector 	Rectangular Duct Flange 	Vertical Discharge Guard 			
5133752100	ILSH-355 CC	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133752200	ILSH-400 CC	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133752100	ILSH-355 CC	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133752200	ILSH-400 CC	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133752300	ILSH-450 CC	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133752400	ILSH-500 CC	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133752100	ILSH-355 CC	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133752200	ILSH-400 CC	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133752300	ILSH-450 CC	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133752400	ILSH-500 CC	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133752500	ILSH-560 CC	5133754900	ILAR-560	5133755700	ILBC-560	5133757300	ILVV-560
5133752100	ILSH-355 CC	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133752200	ILSH-400 CC	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133752300	ILSH-450 CC	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133752400	ILSH-500 CC	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133752500	ILSH-560 CC	5133754900	ILAR-560	5133755700	ILBC-560	5133757300	ILVV-560
5133752600	ILSH-630 CC	5133755000	ILAR-630	5133755800	ILBC-630	5133757400	ILVV-630
5133752700	ILSH-710 CC	5133755100	ILAR-710	5133755900	ILBC-710	5133757500	ILVV-710
5133752800	ILSH-800 CC	5133755200	ILAR-800	5133756000	ILBC-800	5133757600	ILVV-800
5133752900	ILSH-355 MV	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133753000	ILSH-400 MV	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133752900	ILSH-355 MV	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133753000	ILSH-400 MV	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133753100	ILSH-450 MV	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133753200	ILSH-500 MV	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133752900	ILSH-355 MV	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133753000	ILSH-400 MV	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133753100	ILSH-450 MV	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133753200	ILSH-500 MV	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133753300	ILSH-560 MV	5133754900	ILAR-560	5133755700	ILBC-560	5133757300	ILVV-560
5133752900	ILSH-355 MV	5133754500	ILAR-355	5133753700	ILBR-355	5133756900	ILVV-355
5133753000	ILSH-400 MV	5133754600	ILAR-400	5133753800	ILBR-400	5133757000	ILVV-400
5133753100	ILSH-450 MV	5133754700	ILAR-450	5133753900	ILBR-450	5133757100	ILVV-450
5133753200	ILSH-500 MV	5133754800	ILAR-500	5133754000	ILBR-500	5133757200	ILVV-500
5133753300	ILSH-560 MV	5133754900	ILAR-560	5133755700	ILBC-560	5133757300	ILVV-560
5133753400	ILSH-630 MV	5133755000	ILAR-630	5133755800	ILBC-630	5133757400	ILVV-630
5133753500	ILSH-710 MV	5133755100	ILAR-710	5133755900	ILBC-710	5133757500	ILVV-710
5133753600	ILSH-800 MV	5133755200	ILAR-800	5133756000	ILBC-800	5133757600	ILVV-800

ILHT series

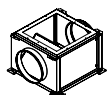
ALL MODELS

5416359700	ISA-ILHT ANTI-VIB SUPPORT
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Code	Model		Horizontal Discharge Guard		Inlet Circular Duct Connection Flange (MV models only)	
5133738400	ILHB/4-355 CC (230V50HZ)		5133757700	ILVH-355		
5133738500	ILHB/4-400 CC (230V50HZ)		5133757800	ILVH-400		
SINGLE PHASE 6 POLE						
5133738600	ILHB/6-355 CC (230V50HZ)		5133757700	ILVH-355		
5133738700	ILHB/6-400 CC (230V50HZ)		5133757800	ILVH-400		
5133738800	ILHB/6-450 CC (230V50HZ)		5133757900	ILVH-450		
5133738900	ILHB/6-500 CC (230V50HZ)		5133758000	ILVH-500		
THREE PHASE 4 POLE						
5133739000	ILHT/4-355 CC (230/400V50HZ)		5133757700	ILVH-355		
5133739100	ILHT/4-400 CC (230/400V50HZ)		5133757800	ILVH-400		
5133739200	ILHT/4-450 CC (230/400V50HZ)		5133757900	ILVH-450		
5133739300	ILHT/4-500 CC (230/400V50HZ)		5133758000	ILVH-500		
5133739400	ILHT/4-560 CC (230/400V50HZ)		5133758100	ILVH-560		
THREE PHASE 6 POLE						
5133739500	ILHT/6-355 CC (230/400V50HZ)		5133757700	ILVH-355		
5133739600	ILHT/6-400 CC (230/400V50HZ)		5133757800	ILVH-400		
5133739700	ILHT/6-450 CC (230/400V50HZ)		5133757900	ILVH-450		
5133739800	ILHT/6-500 CC (230/400V50HZ)		5133758000	ILVH-500		
5133739900	ILHT/6-560 CC (230/400V50HZ)		5133758100	ILVH-560		
5133740000	ILHT/6-630 CC (230/400V50HZ)		5133758200	ILVH-630		
5133740100	ILHT/6-710 CC (230/400V50HZ)		5133758300	ILVH-710		
5133740200	ILHT/6-800 CC (230/400V50HZ)		5133758400	ILVH-800		
MV Range						
SINGLE PHASE 4 POLE						
5133740300	ILHB/4-355 MV (230V50HZ)		5133757700	ILVH-355	5133755300	ILBC-355
5133740400	ILHB/4-400 MV (230V50HZ)		5133757800	ILVH-400	5133755400	ILBC-400
SINGLE PHASE 6 POLE						
5133740500	ILHB/6-355 MV (230V50HZ)		5133757700	ILVH-355	5133755300	ILBC-355
5133740600	ILHB/6-400 MV (230V50HZ)		5133757800	ILVH-400	5133755400	ILBC-400
5133740700	ILHB/6-450 MV (230V50HZ)		5133757900	ILVH-450	5133755500	ILBC-450
5133740800	ILHB/6-500 MV (230V50HZ)		5133758000	ILVH-500	5133755600	ILBC-500
THREE PHASE 4 POLE						
5133740900	ILHT/4-355 MV (230/400V50HZ)		5133757700	ILVH-355	5133755300	ILBC-355
5133741000	ILHT/4-400 MV (230/400V50HZ)		5133757800	ILVH-400	5133755400	ILBC-400
5133742000	ILHT/4-450 MV (230/400V50HZ)		5133757900	ILVH-450	5133755500	ILBC-450
5133743000	ILHT/4-500 MV (230/400V50HZ)		5133758000	ILVH-500	5133755600	ILBC-500
5133744000	ILHT/4-560 MV (230/400V50HZ)		5133758100	ILVH-560	5133755700	ILBC-560
THREE PHASE 6 POLE						
5133745000	ILHT/6-355 MV (230/400V50HZ)		5133757700	ILVH-355	5133755300	ILBC-355
5133746000	ILHT/6-400 MV (230/400V50HZ)		5133757800	ILVH-400	5133755400	ILBC-400
5133747000	ILHT/6-450 MV (230/400V50HZ)		5133757900	ILVH-450	5133755500	ILBC-450
5133748000	ILHT/6-500 MV (230/400V50HZ)		5133758000	ILVH-500	5133755600	ILBC-500
5133749000	ILHT/6-560 MV (230/400V50HZ)		5133758100	ILVH-560	5133755700	ILBC-560
5133750000	ILHT/6-630 MV (230/400V50HZ)		5133758200	ILVH-630	5133755800	ILBC-630
5133751000	ILHT/6-710 MV (230/400V50HZ)		5133758300	ILVH-710	5133755900	ILBC-710
5133752000	ILHT/6-800 MV (230/400V50HZ)		5133758400	ILVH-800	5133756000	ILBC-800

ILHT series

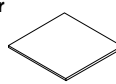
Double inlet plenum
(MV version)



Outlet Circular Duct
Connection Flange



ILTI Pitched Roof Cover
(outdoor, motor in
horizontal position)



Motor Cover / Hood
(Outdoor use)



		5133756100	ILRC-355	5133863900	ILTI-MV-355	5133759200	ILTM-355/400/450
		5133756200	ILRC-400	5133864000	ILTI-MV-400	5133759200	ILTM-355/400/450
		5133756100	ILRC-355	5133863900	ILTI-MV-355	5133759200	ILTM-355/400/450
		5133756200	ILRC-400	5133864000	ILTI-MV-400	5133759200	ILTM-355/400/450
		5133756300	ILRC-450	5133864100	ILTI-MV-450	5133759200	ILTM-355/400/450
		5133756400	ILRC-500	5133864200	ILTI-MV-500	5133759300	ILTM-500/560/630
		5133756100	ILRC-355	5133863900	ILTI-MV-355	5133759200	ILTM-355/400/450
		5133756200	ILRC-400	5133864000	ILTI-MV-400	5133759200	ILTM-355/400/450
		5133756300	ILRC-450	5133864100	ILTI-MV-450	5133759200	ILTM-355/400/450
		5133756400	ILRC-500	5133864200	ILTI-MV-500	5133759300	ILTM-500/560/630
		5133756500	ILRC-560	5133864300	ILTI-MV-560	5133759300	ILTM-500/560/630
		5133756100	ILRC-355	5133863900	ILTI-MV-355	5133759200	ILTM-355/400/450
		5133756200	ILRC-400	5133864000	ILTI-MV-400	5133759200	ILTM-355/400/450
		5133756300	ILRC-450	5133864100	ILTI-MV-450	5133759200	ILTM-355/400/450
		5133756400	ILRC-500	5133864200	ILTI-MV-500	5133759300	ILTM-500/560/630
		5133756500	ILRC-560	5133864300	ILTI-MV-560	5133759300	ILTM-500/560/630
		5133756600	ILRC-630	5133864400	ILTI-MV-630	5133759300	ILTM-500/560/630
		5133756700	ILRC-710	5133864500	ILTI-MV-710	5133759400	ILTM-710/800
		5133756800	ILRC-800	5133864600	ILTI-MV-800	5133759400	ILTM-710/800
5133758500	ILPL-355	5133756100	ILRC-355	5133863100	ILTI-CC-355	5133759200	ILTM-355/400/450
5133758600	ILPL-400	5133756200	ILRC-400	5133863200	ILTI-CC-400	5133759200	ILTM-355/400/450
5133758500	ILPL-355	5133756100	ILRC-355	5133863100	ILTI-CC-355	5133759200	ILTM-355/400/450
5133758600	ILPL-400	5133756200	ILRC-400	5133863200	ILTI-CC-400	5133759200	ILTM-355/400/450
5133758700	ILPL-450	5133756300	ILRC-450	5133863300	ILTI-CC-450	5133759200	ILTM-355/400/450
5133758800	ILPL-500	5133756400	ILRC-500	5133863400	ILTI-CC-500	5133759300	ILTM-500/560/630
5133758500	ILPL-355	5133756100	ILRC-355	5133863100	ILTI-CC-355	5133759200	ILTM-355/400/450
5133758600	ILPL-400	5133756200	ILRC-400	5133863200	ILTI-CC-400	5133759200	ILTM-355/400/450
5133758700	ILPL-450	5133756300	ILRC-450	5133863300	ILTI-CC-450	5133759200	ILTM-355/400/450
5133758800	ILPL-500	5133756400	ILRC-500	5133863400	ILTI-CC-500	5133759300	ILTM-500/560/630
5133758900	ILPL-560	5133756500	ILRC-560	5133863500	ILTI-CC-560	5133759300	ILTM-500/560/630
5133758500	ILPL-355	5133756100	ILRC-355	5133863100	ILTI-CC-355	5133759200	ILTM-355/400/450
5133758600	ILPL-400	5133756200	ILRC-400	5133863200	ILTI-CC-400	5133759200	ILTM-355/400/450
5133758700	ILPL-450	5133756300	ILRC-450	5133863300	ILTI-CC-450	5133759200	ILTM-355/400/450
5133758800	ILPL-500	5133756400	ILRC-500	5133863400	ILTI-CC-500	5133759300	ILTM-500/560/630
5133758900	ILPL-560	5133756500	ILRC-560	5133863500	ILTI-CC-560	5133759300	ILTM-500/560/630
5133759000	ILPL-630	5133756600	ILRC-630	5133863600	ILTI-CC-630	5133759300	ILTM-500/560/630
5133759100	ILPL-710	5133756700	ILRC-710	5133863700	ILTI-CC-710	5133759400	ILTM-710/800
		5133756800	ILRC-800	5133863800	ILTI-CC-800	5133759400	ILTM-710/800

BELT DRIVEN CABINET FANS

CVHT series



Vertical discharge
version CVHT-V



PART L2: 2013
COMPLIANT

CVHT SERIES

Range of belt driven cabinet fans. The casings are manufactured from heavy gauge galvanised sheet steel. All models incorporate double inlet forward curved centrifugal impellers.

Belt-driven transmission system mounted external to the air stream. Motor mounted within the fan cabinet onto a specific support giving optimal belt tension. Supplied as standard in horizontal discharge (code H) or vertical (code V) 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).

On request

Motor, pulley and belt assembly fitted on the left hand side of the unit when viewed from the discharge end (TI version).

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

Single phase motors 230V-50Hz up to 2,2 kW.

Single phase motor (CVHB) up to 2,2 kW.

HIGH TEMPERATURE

motor out of airstream, double-skinned
400°C forward curved impeller
acoustic cabinet fan.



Horizontal discharge
version CVHT-H



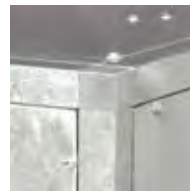
Easy to install

The cabinets have fixing points on the corners easing the installation either on the floor or ceiling.



Compact design

Motor inside the fan casing, providing a smaller size and a higher compacity.



Robustness

Quality finishing, with aluminium corners providing a high robustness.



Automatically tensioned

and maintenance free system - Exclusive of S&P. The only system ensuring a constant belt tension without any maintenance required.

CVHT series



CVHT Series

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 (m³/s)	
	Minimum (kW)	Maximum (kW)	Minimum (rpm)	Maximum (rpm)	Minimum (rpm)	Maximum (rpm)
CVHT-9/9	0.25	1.1	800	1700	0.27	1.62
CVHT-10/10	0.25	2.2	700	1700	0.33	2.08
CVHT-12/12	0.37	3.0	600	1500	0.42	3.60
CVHT-15/15	1.1	4.0	600	1200	0.87	4.54
CVHT-18/18	1.1	7.5	400	950	0.75	7.19
CVHT-20/20	2.2	7.5	500	1000	1.17	8.7
CVHT-22/22	2.2	15.0	400	850	1.44	10.75
CVHT-25/25	2.2	15.0	350	750	1.33	14.99
CVHT-30/28	3.0	18.5	300	600	2.64	17.0

Motor powers (kW) for CVHT product range

1 SPEED	4 POLES	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5
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	18.5/6.5
	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	18.5/4.8

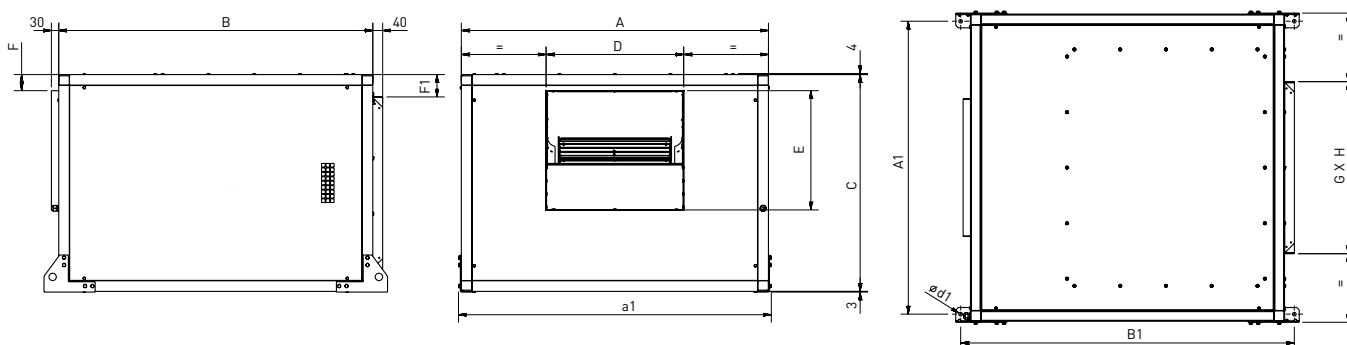
NOTE: For 2 speed motors, the powers may have small variations depending on the motor manufacturer.

CVHT series

CVHT 9-10-12-15-18 HORIZONTAL

Dimensions (mm)

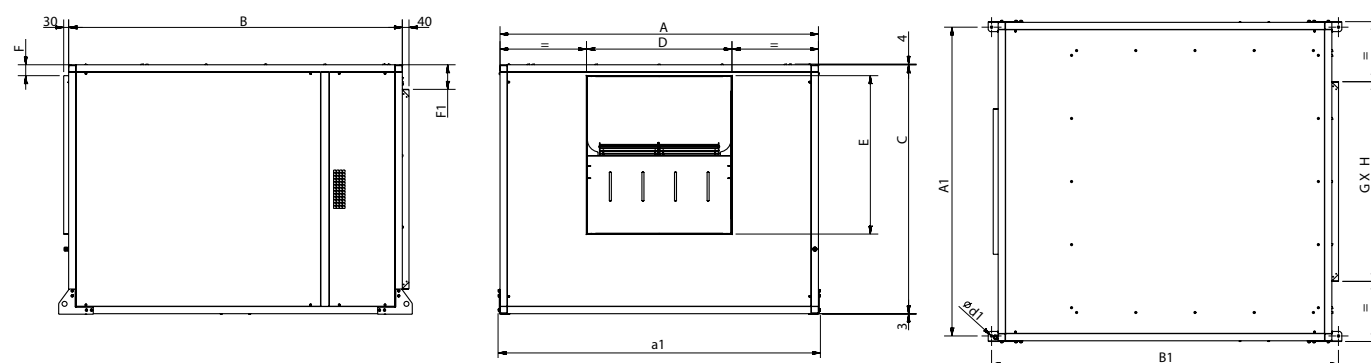
Model	A	A1	a1	B	B1	C	D	ø d1	E	F	F1	GxH
CVHT-9/9-H	759	701	782	783	863	592	304	15	264	65.5	96	400x400
CVHT-10/10-H	821	763	844	837	917	618	337	15	293.5	65.5	84	450x450
CVHT-12/12-H	945	887	968	959	1039	680.5	400	15	345	65.5	90.25	500x500
CVHT-15/15-H	1104	1046	1127	1092	1172	776	476	15	407	65.5	88	600x600
CVHT-18/18-H	1250	1192	1273	1278	1358	882	560	15	485	65.5	91	700x700



CVHT 20-22-25-30 HORIZONTAL

Dimensions (mm)

Model	A	A1	a1	B	B1	C	D	ø d1	E	F	F1	GxH
CVHT-20/20-H	1414	1356	1437	1495	1575	1051	636	15	631	65.5	125.5	800x800
CVHT-22/22-H	1542	1448	1565	1638	1718	1142.5	697.5	15	705.5	65.5	121.25	900x900
CVHT-25/25-H	1697	1639	1720	1800	1880	1278	801	15	805	65.5	139	1000x1000
CVHT-30/28-H	1914	1856	1937	2005	2084	1495.5	874.5	15	952.5	65.5	147.75	1200x1200

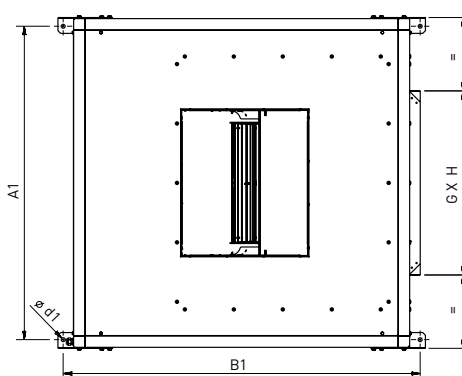
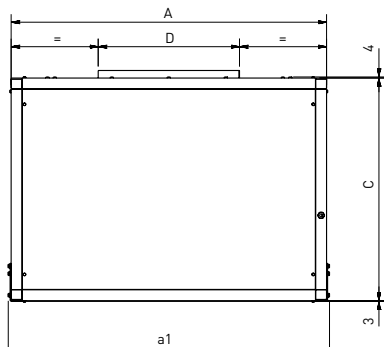
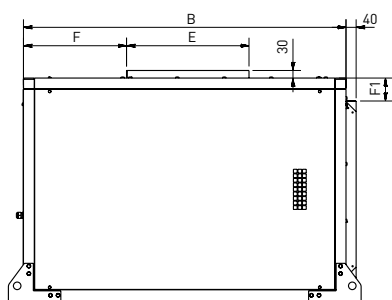


CVHT series

CVHT 9-10-12-15-18 VERTICAL

Dimensions (mm)

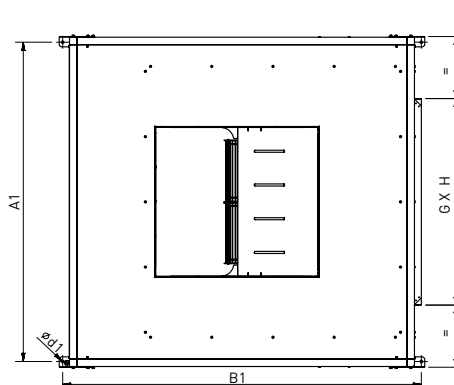
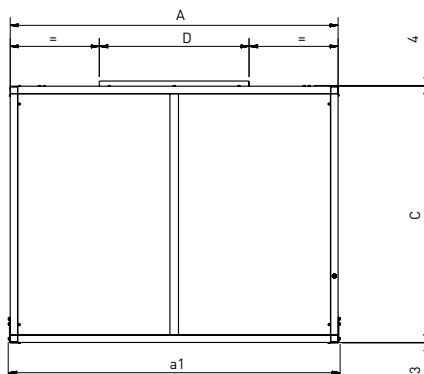
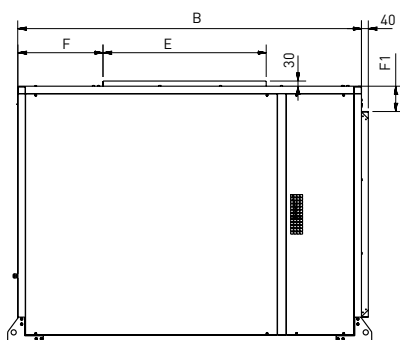
Model	A	A1	a1	B	B1	C	D	∅ d1	E	F	F1	GxH
CVHT-9/9-V	759	701	782	783	863	592	304	15	264	3165	96	400x400
CVHT-10/10-V	821	763	844	837	917	618	337	15	293.5	316.5	84	450x450
CVHT-12/12-V	945	887	968	959	1039	680.5	400	15	345	343.5	90.25	500x500
CVHT-15/15-V	1104	1046	1127	1092	1172	776	476	15	407	368.5	88	600x600
CVHT-18/18-V	1250	1192	1273	1278	1358	882	560	15	485	408.5	91	700x700



CVHT 20-22-25-30 VERTICAL

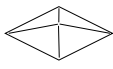
Dimensions (mm)

Model	A	A1	a1	B	B1	C	D	∅ d1	E	F	F1	GxH
CVHT-20/20-V	1414	1356	1437	1495	1.575	1.051	636	15	631	451.5	125.5	800x800
CVHT-22/22-V	1542	1484	1565	1.638	1.718	1142.5	697.5	15	705.5	498	121.25	900x900
CVHT-25/25-V	1697	1639	1720	1.800	1.880	1278	801	15	805	497.5	139	1000x1000
CVHT-30/28-V	1914	1856	1937	2.005	2.084	1495.5	874.5	15	952.5	496.5	147.75	1200x1200



CVHT series

Model	Rectangular Flexible Connector - Inlet side		Rectangular Flexible Connector - Discharge side	
	Code	Model 	Code	
CVHT/H-9/9	5402034000	ACOP RECT F400 9/9 ASP	5402033100	ACOP RECT F400 9/9 IMP
CVHT/H-10/10	5402034100	ACOP RECT F400 10/10 ASP	5402033200	ACOP RECT F400 10/10 IMP
CVHT/H-12/12	5402034200	ACOP RECT F400 12/12 ASP	5402033300	ACOP RECT F400 12/12 IMP
CVHT/H-15/15	5402034300	ACOP RECT F400 15/15 ASP	5402034100	ACOP RECT F400 15/15 IMP
CVHT/H-18/18	5402034400	ACOP RECT F400 18/18 ASP	5402033500	ACOP RECT F400 18/18 IMP
CVHT/H-20/20	5402034500	ACOP RECT F400 20/20 ASP	5402033600	ACOP RECT F400 20/20 IMP
CVHT/H-22/22	5402034600	ACOP RECT F400 22/22 ASP	5402033700	ACOP RECT F400 22/22 IMP
CVHT/H-25/25	5402034700	ACOP RECT F400 25/25 ASP	5402033800	ACOP RECT F400 25/25 IMP
CVHT/H-30/28	5402034800	ACOP RECT F400 30/28 ASP	5402033900	ACOP RECT F400 30/28 IMP

Model	Discharge Protection Guard		Inlet Protection Guard		Pitched Roof Cover	
	Code	Model 	Code	Model 	Code	Model 
CVHT/H-9/9	5137932900	CDV-9	5137943600	CDV-9	5402016900	CTHI-9/9
CVHT/H-10/10	5137933700	CDV-10	5137944400	CDV-10	5402017700	CTHI-10/10
CVHT/H-12/12	5137934500	CDV-12	5137945100	CDV-12	5402018500	CTHI-12/12
CVHT/H-15/15	5137935200	CDV-15	5137946900	CDV-15	5402019300	CTHI-15/15
CVHT/H-18/18	5137936000	CDV-18	5137974100	CDV-18	5402020100	CTHI-18/18
CVHT/H-20/20	5137937800	CDV-20	5137942800	CDV-20	5402021900	CTHI-20/20
CVHT/H-22/22	5137938600	CDV-22	5137988100	CDV-22	5402022700	CTHI-22/22
CVHT/H-25/25	5137939400	CDV-25	5137989900	CDV-25	5402023500	CTHI-25/25
CVHT/H-30/28	5137940200	CDV-30	5137990700	CDV-30	5402024300	CTHI-30/28

ANTI-VIBRATION MOUNTS - size by product weight (which is dependent on motor size)

Model	Code
PAVZ - 60	5130273000
PAVZ - 80	5130272900
PAVZ - 100	5130263400
PAVZ - 150	5130263500
PAVZ - 200	5130263600

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ROOF MOUNTED FANS

CRVB / CRVT series



VERTICAL DISCHARGE

roof mounted backward
curved impeller fan.



PART L2: 2013
COMPLIANT

CRVB / CRVT SERIES

Range of centrifugal roof mounted fans in vertical.

- Bases manufactured from galvanised sheet steel.
- Centrifugal backward curved impeller.
- External rotor motor.
- Cowl manufactured from spun aluminium.

Motors

All motors are IP54, Class F insulation with safety thermal overload protection.

Electrical supply:

Single-phase 230V-50/60Hz (1), IP54, Class F,
Speed controllable by Voltage.

Three-phase 230/400V-50/60Hz (2), IP54, Class F.

Three-phase models:

all speed controllable by frequency inverter.

all speed controllable also by voltage (except
for models 4-450 and 4-560).

(1) Models /4-500 and 6/630, 230V-50Hz.

(2) Models /4-450, 4/560 and 6/630, 230/400V-50Hz.



High efficiency centrifugal
backward impeller

Low maintenance and low
consumption.



Bird proof guard

Steel finger proof guard.



Isolation switch

ON-OFF electrical isolation
switch fitted on the fan as
standard.

CRVB / CRVT series



CRVB / CRVT series

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	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A-230V)**	Maximum Air Volume (m3/s)	Sound Pressure Level* @ 3m (dB(A))		Min/Max Air Temp. (°C at 50Hz)	Weight (kg)	Speed Controller	
					Inlet	Outlet			REB	REV
SINGLE-PHASE 4 POLE MOTORS										
CRVB/4-225N	1410	41	0.2	0.16	36	40	-40/+70	10	REB-1	REV-3N
CRVB/4-250N	1370	46	0.2	0.19	38	44	-40/+70	10.5	REB-1	REV-3N
CRVB/4-280N	1280	99	0.4	0.37	43	48	-40/+70	17.5	REB-1	REV-3N
CRVB/4-315N	1380	156	0.7(0.8)	0.57	48	53	-40/+70	27	REB-1	REV-3N
CRVB/4-355N	1370	296	1.2	0.82	51	57	-40/+70	29.5	REB-3	REV-3N
CRVB/4-400N	1380	570	2.4(2.8)	1.26	55	59	-40/+55	29	REB-5	REV-5N
CRVB/4-450N	1410	904	3.7(5.6)	1.74	61	65	-40/+70	40.5	REB-6	REV-7N
CRVB/4-500N	1410	1.587	6.5(9.1)	2.37	63	67	-40/+40	61.5	REB-10	REV-10N

* Sound pressure level measured at 3 m in hemi-spherical propagation. ** Maximum current when the speed is controlled by voltage.

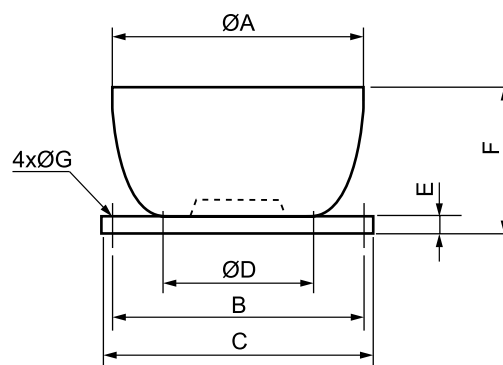
Model	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current**(A)		Maximum Air Volume (m3/s)	Sound Pressure Level* (dB (A))		Min/Max. Air Temp. (°C at 50Hz)	Weight (kg)	Frequency Inverter S&P VFD	
			230V	400V		Inlet	Outlet			1-230V	3-400V
SINGLE-PHASE 4 POLE MOTORS											
CRVT/4-315N	1370	160	0.7	0.4	0.59	46	51	-40/+70	26	S&P VFD-M 10A	S&P VFD-T 5A
CRVT/4-355N	1390	296	1.2	0.7	0.84	47	53	-40/+65	27	S&P VFD-M 10A	S&P VFD-T 5A
CRVT/4-400N	1380	504	1.9	1.1	1.26	54	58	-40/+70	28	S&P VFD-M 10A	S&P VFD-T 5A
CRVT/4-450N	1390	900	3.1	1.8	1.68	58	63	-40/+70	38.5	S&P VFD-M 10A	S&P VFD-T 5A
CRVT/4-500N	1420	1.588	5.4	3.1	2.34	64	68	-40/+70	54.5	S&P VFD-M 10A	S&P VFD-T 5A
CRVT/4-560N	1350	2.639	8.0	4.6	3.53	65	71	-40/+60	70	S&P VFD-M 10A	S&P VFD-T 5A

* Sound pressure level measured at 3 m in hemi-spherical propagation. ** At 50Hz without VSD.

CRVB/T- N series

Dimensions (mm)

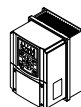
Model	ØA	B	C	ØD	E	F	ØG
225N	434	245	326	183	35	260	10
250N	434	245	326	204	35	260	10
280N	560	330	435	228	40	305	12
315N	754	450	560	257	40	395	12
355N	754	450	560	289	40	395	12
400N	857	535	630	326	40	459	12
450N	857	535	630	367	40	459	12
500N	950	590	710	407	40	530	14
560N	1216	750	900	455	40	580	14
630N	1216	750	900	513	40	580	14



CRVB / CRVT series

Model	0 Pa	25 Pa	50 Pa	75 Pa	100 Pa	125 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa	650 Pa	700 Pa	750 Pa	800 Pa	850 Pa
Airflow (m³/s) @ Static Pressure (Pa)																					
SINGLE PHASE																					
CRVB/4-225 N	0.16	0.14	0.13	0.11	0.09	0.07															
CRVB/4-250 N	0.19	0.18	0.16	0.14	0.12	0.09	0.07														
CRVB/4-280 N	0.38	0.35	0.33	0.30	0.26	0.23	0.19	0.08													
CRVB/4-315 N	0.57	0.55	0.53	0.50	0.48	0.45	0.42	0.34	0.24	0.09											
CRVB/4-355 N	0.82	0.79	0.76	0.74	0.71	0.69	0.66	0.58	0.48	0.33	0.14										
CRVB/4-400 N	1.26	1.23	1.20	1.18	1.15	1.12	1.08	1.01	0.93	0.83	0.70	0.56	0.38								
CRVB/4-450 N	1.75	1.72	1.69	1.66	1.63	1.60	1.56	1.50	1.42	1.32	1.22	1.11	0.99	0.83	0.57						
CRVB/4-500 N	2.37	2.33	2.31	2.28	2.25	2.22	2.19	2.11	2.03	1.94	1.85	1.77	1.66	1.54	1.39	1.23	1.04	0.68			
THREE PHASE																					
CRVT/4-315 N	0.59	0.57	0.55	0.52	0.45	0.47	0.44	0.35	0.24	0.07											
CRVT/4-355 N	0.84	0.82	0.80	0.78	0.75	0.72	0.68	0.61	0.52	0.38	0.19										
CRVT/4-400 N	1.26	1.23	1.20	1.17	1.14	1.11	1.08	1.01	0.92	0.81	0.70	0.55	0.38								
CRVT/4-450 N	1.69	1.65	1.61	1.56	1.52	1.48	1.44	1.36	1.27	1.19	1.06	0.88	0.69	0.47							
CRVT/4-500 N	2.37	2.34	2.31	2.28	2.25	2.22	2.19	2.12	2.04	1.95	1.87	1.78	1.69	1.59	1.45	1.29	1.10	0.77			
CRVT/4-560 N	3.52	3.49	3.44	3.39	3.35	3.30	3.25	3.15	3.04	2.93	2.81	2.69	2.56	2.42	2.27	2.11	1.93	1.72	1.47	1.11	0.78

Trade Prices

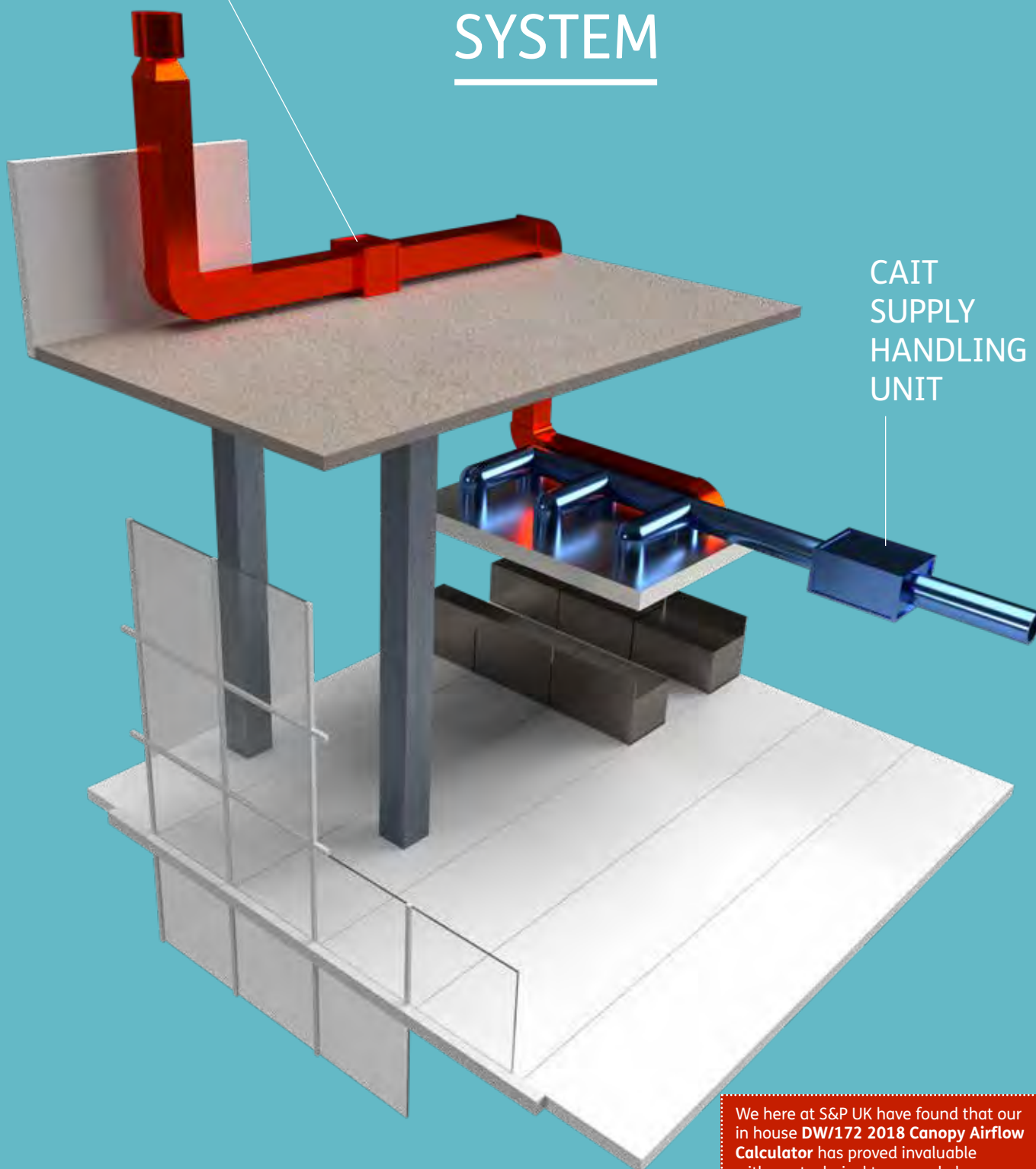
Code	Model	Trade Prices	Electronic Speed Controller	Trade Prices	Auto Transformer Controller	Trade Prices	
							
SINGLE PHASE 4 POLE							
5136911600	CRVB/4-225 N (230V50/60HZ)	£431.89	REB-1	£64.08	REV-3N	£388.33	
5136912000	CRVB/4-250 N (230V50/60HZ)	£493.45	REB-1	£64.08	REV-3N	£388.33	
5136912200	CRVB/4-280 N (230V50/60HZ)	£597.38	REB-1	£64.08	REV-3N	£388.33	
5136912600	CRVB/4-315 N (230V50/60HZ)	£493.45	REB-1	£64.08	REV-3N	£388.33	
5136913600	CRVB/4-355 N (230V50/60HZ)	£883.63	REB-3	£78.64	REV-3N	£388.33	
5136916900	CRVB/4-400 N (230V50/60HZ)	£889.51	REB-5	£106.79	REV-5N	£468.42	
5136917700	CRVB/4-450 N (230V50HZ)	£945.30	REB-6	£121.06	REV-7N	£489.02	
5136979100	CRVB/4-500 N (230V50HZ)	£1,830.13	REB-10	£214.56	REV-10N	£643.18	
THREE PHASE 4 POLE							
5136913000	CRVT/4-315 N (230/400V50/60HZ)	£743.74	Model (All three phase models)			Trade Prices	
5136914000	CRVT/4-355 N (230/400V50/60HZ)	£863.52	Frequency Inverter 1/230V S&P VFD-M10A				£489.25
5136917300	CRVT/4-400 N (230/400V50/60HZ)	£874.15	Frequency Inverter 3/400V S&P VFD-T5A				£565.47
5136918100	CRVT/4-450 N (230/400V50HZ)	£919.67	Speed Controller REB-CVF 0-10V All three-phase models where controlled by a VFD				£121.96
5136979500	CRVT/4-500 N (230/400V50/60HZ)	£1,848.08	Preparation/ Cook Switch				
5136980100	CRVT/4-560 N (230/400V50HZ)	£2,078.59					

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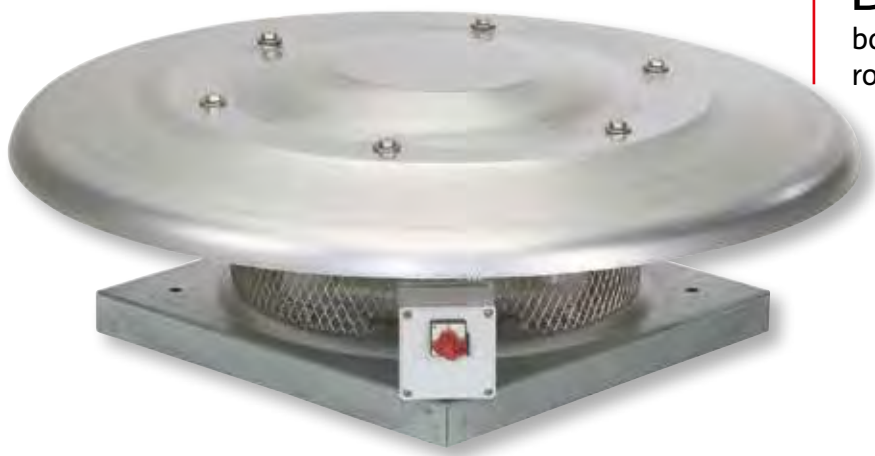
We here at S&P UK have found that our in house **DW/172 2018 Canopy Airflow Calculator** has proved invaluable with our technical team and also with contractors for the design of Kitchen Vent systems. If you require a copy then please do not hesitate to get in contact.

technical.uk@solerpalau.com



ROOF MOUNTED FANS

CRHB / CRHT series



HORIZONTAL DISCHARGE

backward curved impeller
roof fan



PART L2: 2013
COMPLIANT

CRHB / CRHT SERIES

Range of centrifugal roof mounted fans in horizontal discharge format:

- Very low profile design.
- Bases manufactured from galvanised sheet steel.
- Centrifugal backward curved impeller.
- External rotor motor.
- Cowl manufactured from spun aluminium.

Motors

All motors are IP54, Class F insulation with safety thermal overload protection.

Electrical supply:

Single-phase 230V-50/60Hz (1), IP54,

Class F, Speed controllable by Voltage.

Three-phase 230/400V-50/60Hz (2), IP54, Class F.

Three-phase models:

all speed controllable by frequency inverter.

all speed controllable also by voltage (except for models 4-450 and 4-560).

(1) Models /4-500 and 6/630, 230V-50Hz.

(2) Models /4-450, 4/560 and 6/630, 230/400V-50Hz.



Low profile
External rotor
motor to limit the
height of the fan.



Bird proof guard
Steel finger
proof guard.



High efficiency
centrifugal
backward impeller
Low maintenance
and low consumption.



Isolation switch
ON-OFF electrical
isolation switch
fitted on the fan
as standard.

CRHB / CRHT series



CRHB / CRHT series

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	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A-230V)**	Maximum Air Volume (m3/s)	Sound Pressure Level* @ 3m (dB(A))		Min/Max Air Temp. (°C at 50Hz)	Weight (kg)	Speed Controller	
					Inlet	Outlet			REB	REV
SINGLE-PHASE 4 POLE MOTORS										
CRHB/4-225N	1400	41	0.2	0.16	36	42	-40/+70	10	REB-1	REV-3N
CRHB/4-250N	1320	46	0.2	0.20	38	44	-40/+70	10.5	REB-1	REV-3N
CRHB/4-280N	1280	101	0.4	0.42	41	47	-40/+70	17	REB-1	REV-3N
CRHB/4-315N	1370	157	0.7(0.8)	0.58	45	52	-40/+70	25.5	REB-1	REV-3N
CRHB/4-355N	1370	302	1.3(1.5)	0.86	50	58	-40/+70	27	REB-3	REV-3N
CRHB/4-400N	1380	544	2.3(2.7)	1.26	53	60	-40/+55	30.5	REB-5	REV-5N
CRHB/4-450N	1410	925	3.8(5.5)	1.75	60	68	-40/+70	42	REB-6	REV-7N
CRHB/4-500N	1410	1.588	6.6(9.1)	2.44	63	71	-40/+40	60	REB-10	REV-10N

* Sound pressure level measured at 3 m in hemispherical propagation. ** Bracketed values are the maximum currents when speed is controlled by voltage

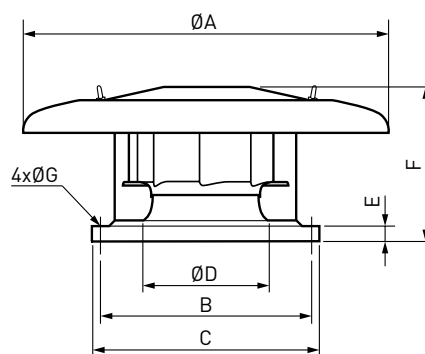
Model	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current** (A)		Max. Air Volume (m3/s)	Sound Pressure Level* @3m (dB(A))		Min/Max Air Temp. (°C at 50Hz)	Weight (kg)	Frequency inverter S&P VFD	
			230V	400V		Inlet	Outlet			1-230V	3-400V
			THREE-PHASE 4 POLE MOTORS								
CRHT/4-315N	1370	162	0.7	0.4	0.61	44	51	-40/+70	24.5	S&P VFD-M 10A	S&P VFD-T 5A
CRHT/4-355N	1390	305	1.2	0.7	0.88	44	51	-40/+65	26	S&P VFD-M 10A	S&P VFD-T 5A
CRHT/4-400N	1370	517	1.9	1.1	1.28	54	60	-40/+70	29.5	S&P VFD-M 10A	S&P VFD-T 5A
CRHT/4-450N	1400	893	3.3	1.9	1.72	58	66	-40/+60	40	S&P VFD-M 10A	S&P VFD-T 5A
CRHT/4-500N	1420	1.552	5.4	3.1	2.41	64	71	-40/+70	53	S&P VFD-M 10A	S&P VFD-T 5A
CRHT/4-560N	1350	2.619	7.8	4.5	3.67	66	75	-40/+60	64.5	S&P VFD-M 10A	S&P VFD-T 5A

* Sound pressure level measured at 3 m in hemispherical propagation. ** At 50Hz without VFD.

DIMENSIONS CRHB/T-N series

Dimensions (mm)

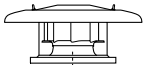
Model	ØA	B	C	ØD	E	F	ØG
225N	570	245	326	183	35	209	10
250N	570	245	326	204	35	209	10
280N	640	330	435	228	40	273.5	12
315N	895	450	560	257	40	324	12
355N	895	450	560	289	40	349	12
400N	1150	535	630	326	40	363	12
450N	1150	535	630	367	40	409	12
500N	1150	590	710	407	40	435	14
560N	1150	750	900	455	40	486	14
630N	1150	750	900	513	40	548	14



CRHB / CRHT series

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa	650 Pa	700 Pa
Airflow (m³/s) @ Static Pressure (Pa)															
SINGLE PHASE															
CRHB/4-225 N	0.16	0.15	0.13	0.19	0.09	0.06	0.03								
CRHB/4-250 N	0.20	0.19	0.17	0.15	0.12	0.09	0.06								
CRHB/4-280 N	0.42	0.40	0.37	0.34	0.31	0.27	0.21								
CRHB/4-315 N	0.59	0.56	0.54	0.51	0.49	0.46	0.42	0.34	0.23	0.08					
CRHB/4-355 N	0.86	0.83	0.80	0.77	0.75	0.72	0.68	0.61	0.50	0.34					
CRHB/4-400 N	1.25	1.23	1.20	1.16	1.13	1.09	1.06	0.98	0.89	0.76	0.62	0.43			
CRHB/4-450 N	1.75	1.73	1.70	1.67	1.64	1.61	1.58	1.51	1.44	1.34	1.25	1.15	0.84		
CRHB/4-500 N	2.44	2.39	2.40	2.34	2.30	2.27	2.23	2.15	2.07	1.98	1.90	1.80	1.58	1.27	0.46
THREE PHASE															
CRHT/4-315 N	0.61	0.59	0.56	0.54	0.51	0.48	0.44	0.36	0.21	0.08					
CRHT/4-355 N	0.89	0.86	0.83	0.81	0.77	0.74	0.71	0.63	0.53	0.36	0.17				
CRHT/4-400 N	1.29	1.26	1.23	1.20	1.16	1.13	1.10	1.03	0.95	0.84	0.71	0.52			
CRHT/4-450 N	1.71	1.67	1.63	1.59	1.53	1.50	1.45	1.38	1.30	1.22	1.09	0.90	0.46		
CRHT/4-500 N	2.41	2.38	2.34	2.32	2.28	2.25	2.21	2.14	2.07	1.99	1.91	1.82	1.55	1.26	0.66
CRHT/4-560 N	3.66	3.63	3.58	3.53	3.49	3.47	3.39	3.28	3.17	3.04	2.94	2.78	2.50	2.17	1.77

Trade Prices

Code	Model		Trade Prices	Electronic Speed Controller 	Trade Prices	Auto Transformer Controller 	Trade Prices
SINGLE PHASE 4 POLE							
5136911500	CRHB/4-225 N (230V50/60HZ)		£383.42	REB-1	£64.08	REV-3N	£388.33
5136911900	CRHB/4-250 N (230V50/60HZ)		£394.10	REB-1	£64.08	REV-3N	£388.33
5136912100	CRHB/4-280 N (230V50/60HZ)		£462.58	REB-1	£64.08	REV-3N	£388.33
5136912500	CRHB/4-315 N (230V50/60HZ)		£733.78	REB-1	£64.08	REV-3N	£388.33
5136913500	CRHB/4-355 N (230V50/60HZ)		£787.02	REB-3	£78.64	REV-3N	£388.33
5136916800	CRHB/4-400 N (230V50/60HZ)		£778.93	REB-5	£106.79	REV-5N	£468.42
5136917600	CRHB/4-450 N (230V50/60HZ)		£935.68	REB-6	£121.06	REV-7N	£489.02
5136979000	CRHB/4-500 N (230V 50Hz)		£1,714.92	REB-10	£214.56	REV-10N	£643.18
THREE PHASE 4 POLE							
5136912900	CRHT/4-315 N (230/400V50/60HZ)		£735.97				
5136913900	CRHT/4-355 N (230/400V50/60HZ)		£775.11				
5136917200	CRHT/4-400 N (230/400V50/60HZ)		£886.92				
5136918000	CRHT/4-450 N (230/400V50Hz)		£942.14				
5136979400	CRHT/4-500 N (230/400V50/60Hz)		£1,736.83				
5136980000	CRHT/4-560 N (230/400V50Hz)		£1,937.05				
				Model (All three phase models)		Trade Prices	
				Frequency Inverter 1/230V S&P VFD-M10A		£489.25	
				Frequency Inverter 3/400V S&P VFD-T5A		£565.47	
				Speed Controller REB-CVF 0-10V All three-phase models where controlled by a VFD		£121.96	
				Preparation/ Cook Switch		£85.49	

CHANGE HOW YOU GET THINGS DONE

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ROOF MOUNTED FANS

CTVB / CTVT series



Models configuration 140 to 400



Models configuration 450 to 710



PART L2: 2013
COMPLIANT

CTVB / CTVT SERIES

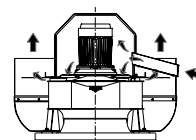
Range of centrifugal roof mounted fans in vertical discharge format. All models are suitable for air stream temperature up to 120°C. Bases are manufactured from galvanised sheet steel and cowls are manufactured from spun aluminium. All models incorporate bird-proof guard. Available, depending upon the model, with single or three phase motors in 4, 6, 8, 4/8 or 6/12 poles.

Motors

All motors are IP55, Class F and equipped with ball bearings greased for life.
Electrical supply:
Single phase 230V-50Hz.
Three phase 400V-50Hz.
(See characteristics chart).
Single phase speed controllable by voltage up to 400 model.
Three phase motors are controllable by frequency inverter.

HIGH TEMPERATURE

vertical discharge, backward curved impeller roof fan.



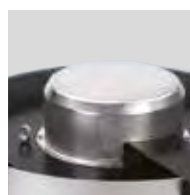
Self cooling system

Special design in order to cool the motor and to extend the life of the assembly.



Cooling duct

Enables the motor cooling when the fan is extracting air at an extremely high temperature.



Easy to install

Supports easing the installation on the roof.



Backward curved centrifugal impellers

To prevent accumulation of dirt. Models up to 400 are manufactured from galvanised steel sheet. Models from 450 to 630 are manufactured in sheet steel protected against corrosion by cataforesis primer and black polyester paint finish.



Bird-proof guard.

CTVB / CTVT series

Model		Speed (rpm)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)		Maximum Airflow (m³/s)	Sound Pressure Level* at 2/3 Maximum (dB(A))		Weight (kg)	Speed Controller (**)
				at 230 V	at 400 V		Inlet	Outlet		
4 POLES SINGLE PHASE	CTVB/4-180	1330	60	0.3		0.23	46	49	10.5	REB-1
	CTVB/4-200	1330	100	0.60		0.4	49	53	17	REB-1
	CTVB/4-225	1350	130	0.71		0.52	53	56	19.8	REB-1
	CTVB/4-250	1325	325	1.6		0.78	56	60	35	REB-3
	CTVB/4-315	1390	570	2.70		1.16	60	64	39	REB-5
	CTVB/4-400	1390	1100	5.30		1.73	67	70	50	REB-6
6 POLES SINGLE PHASE	CTVB/6-200	940	80	0.40		0.25	38	42	17	REB-1
	CTVB/6-225	890	90	0.40		0.36	41	45	19.8	REB-1
	CTVB/6-250	940	100	0.57		0.51	45	49	35	REB-1
	CTVB/6-315	870	160	0.80		0.78	48	53	39	REB-1
	CTVB/6-400	960	340	1.60		1.19	55	59	50	REB-3
4 POLES THREE PHASE	CTVT/4-180	1350	60		0.18	0.23	46	49	10.5	S&P VFD-T5A
	CTVT/4-200	1340	130		0.44	0.33	49	53	17	S&P VFD-T5A
	CTVT/4-225	1360	180		0.47	0.52	53	56	19.8	S&P VFD-T5A
	CTVT/4-250	1400	300		0.8	0.78	56	60	35	S&P VFD-T5A
	CTVT/4-315	1410	650		1.7	1.16	60	64	39	S&P VFD-T5A
	CTVT/4-400	1330	1000		1.80	1.74	67	70	50	S&P VFD-T5A
	CTVT/4-450	1440	2100		4.3	2.45	70	74	75	S&P VFD-T5A
6 POLES THREE PHASE	CTVT/6-200	950	80		0.24	0.25	38	42	17	S&P VFD-T5A
	CTVT/6-225	900	90		0.23	0.36	41	45	19.8	S&P VFD-T5A
	CTVT/6-250	950	100		0.41	0.51	45	49	35	S&P VFD-T5A
	CTVT/6-315	910	160		0.44	0.78	48	53	39	S&P VFD-T5A
	CTVT/6-400	930	350		1.00	1.19	55	59	50	S&P VFD-T5A
	CTVT/6-450	950	800		3.5	1.64	59	63	75	S&P VFD-T5A
	CTVT/6-500	975	1500		3.7	2.64	62	66	115	S&P VFD-T5A
	CTVT/6-560	950	2400		5.2	3.61	66	70	129	S&P VFD-T6.8A
	CTVT/6-630	950	3900		8.3	5.42	70	74	168	S&P VFD-T9A
	CTVT/6-630H	970	5500		12.70	6.82	74	80	215	S&P VFD-T13A
	CTVT/6-710	980	7250		13.6	7.0	77	82	229	S&P VFD-T17A
	CTVT/6-710H	980	7500		16.20	9.11	77	82	240	S&P VFD-T17A
	CTVT/8-450	690	700		1.5	1.22	55	59	75	S&P VFD-T5A
8 POLES THREE PHASE	CTVT/8-500	700	770		2.4	1.97	54	58	115	S&P VFD-T5A
	CTVT/8-560	730	1100		3.3	2.77	58	62	129	S&P VFD-T5A
	CTVT/8-630	735	1650		4.90	4.0	61	66	168	S&P VFD-T6.8A
	CTVT/8-710	730	3160		7.10	5.30	71	76	238	S&P VFD-T9A
	CTVT/4/8-225	1300/700	180/70		0.3/0.2	0.58/0.29	53/38	59/44	17	
	CTVT/4/8-315	1400/700	370/230		1.1/0.9	1.16/0.58	60/45	64/49	40	
	CTVT/4/8-400	1400/700	560/260		1.3/1.0	1.73/0.89	67/52	70/55	52	
	CTVT/4/8-450	1400/700	2400/600		6.1/2.5	2.73/1.25	70/55	74/59	77	
2 SPEEDS THREE PHASE	CTVT/6/12-450	960/490	500/190		2/1	1.63/0.77	59/44	63/48	80	
	CTVT/6/12-500	980/490	1520/430		4.5/2.2	2.64/1.33	62/47	66/51	134	
	CTVT/6/12-560	960/480	2400/640		5.6/2.2	3.6/1.78	66/51	70/55	134	
	CTVT/6/12-630	960/480	4100/730		8.1/2.6	5.42/2.64	70/54	74/59	173	
	CTVT/6/12-710	950/450	7300/435		14/5.4	7.0/3.53	77/63	82/67	238	

* The ratings of sound levels are pressure values measured in dB(A) at 1.5 m at 2/3 maximum.

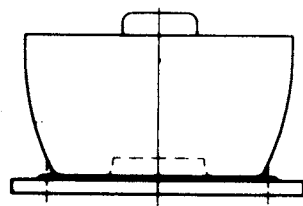
** Three phase inverter controller : Three phase 400V.

CTVB / CTVT series

ACOUSTIC CHARACTERISTICS

Sound power spectrum

To obtain the sound power spectrum, subtract the correction value shown in the following chart from the value in the technical characteristics table:

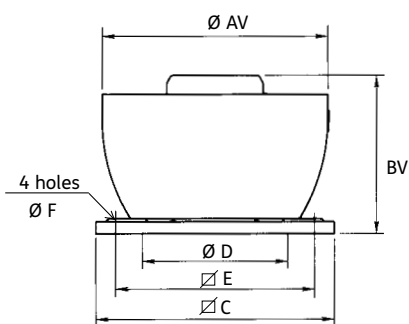


VERTICAL DISCHARGE

Model	Speed	Frequency Bands in Hz						
		125	250	500	1000	2000	4000	8000
Outlet	Maximum	30	8.0	11.5	11.5	8.0	1.5	-8.0
	2/3 Maximum	0.5	4.5	6.5	5.0	1.5	-3.0	-10.0
	1/3 Maximum	-1.5	2.5	4.5	3.0	-0.5	-5.0	-12.0
Inlet	Maximum	4.5	9.0	10.5	8.5	6.5	5.5	3.0
	2/3 Maximum	3.0	5.0	6.0	4.5	1.0	-3.0	-9.5
	1/3 Maximum	1.0	3.0	4.0	2.5	-1.0	-5.0	-11.5

CTVB / CTVT SERIES

Dimensions (mm)



Fan model	Ø AV	BV	Ø C	Ø D	Ø E	Ø F
180	421	374	300	180	245	10
200	556	404	435	250	330	12
225	570	452	435	250	330	12
250	750	522	560	355	450	12
315	750	564	560	355	450	12
400	850	608	630	400	535	12
450	950	741	710	500	590	14
500	1216	832	905	630	750	14
560	1216	832	905	630	750	14
630	1327	1053	1100	710	840	14
630H	1332	1067	1100	710	840	14
710	1485	1161	1100	710	840	14
710H	1490	1162	1100	710	840	14

* Nominal accessories diameter.

CTVB / CTVT series

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa	650 Pa	700 Pa	750 Pa
Airflow (m3/s) @ Static Pressure (Pa)																
CTVB/4-180	0.210	0.163	0.112													
CTVB/4-200	0.364	0.318	0.257	0.188												
CTVB/4-225	0.525	0.468	0.417	0.357	0.279	0.170										
CTVB/4-250	0.762	0.699	0.632	0.569	0.512	0.440	0.286									
CTVB/4-315	1.158	1.086	1.018	0.952	0.881	0.794	0.689	0.582	0.433							
CTVB/4-400	1.722	1.656	1.589	1.517	1.440	1.358	1.272	1.185	1.091	0.985	0.854	0.673	0.372			
CTVB/6-200	0.239	0.176														
CTVB/6-225	0.282	0.207	0.082													
CTVB/6-250	0.520	0.433	0.351	0.174												
CTVB/6-315	0.767	0.670	0.576	0.474												
CTVB/6-400	1.158	1.049	0.936	0.813	0.664	0.417										
CTVT/4-180	0.202	0.163	0.116	0.036												
CTVT/4-200	0.384	0.338	0.280	0.211												
CTVT/4-225	0.505	0.458	0.412	0.360	0.299	0.114										
CTVT/4-250	0.786	0.725	0.665	0.608	0.555	0.501	0.420									
CTVT/4-315	1.198	1.131	1.064	0.996	0.926	0.848	0.765	0.678	0.549							
CTVT/4-400	1.877	1.801	1.723	1.644	1.561	1.474	1.379	1.274	1.152	1.004	0.826	0.530				
CTVT/4-450	2.750	2.692	2.633	2.572	2.506	2.435	2.356	2.272	2.184	2.092	1.994	1.885	1.765	1.632	1.486	1.322
CTVT/6-200	0.251	0.188														
CTVT/6-225	0.353	0.272	0.162													
CTVT/6-250	0.524	0.437	0.353	0.184												
CTVT/6-315	0.767	0.670	0.576	0.474												
CTVT/6-400	1.158	1.049	0.936	0.813	0.664	0.417										
CTVT/6-450	1.532	1.420	1.310	1.193	1.043	0.870	0.694	0.444								
CTVT/6-500	2.823	2.673	2.526	2.381	2.232	2.073	1.892	1.684	1.441	1.104	0.492					
CTVT/6-560	3.680	3.526	3.371	3.214	3.052	2.881	2.698	2.497	2.275	2.032	1.746	1.379	0.789			
CTVT/6-630	5.434	5.279	5.123	4.965	4.804	4.638	4.465	4.277	4.069	3.831	3.553	3.254	2.942	2.587	2.144	1.467
CTVT/6-630H	6.871	6.684	6.496	6.308	6.118	5.923	5.718	5.497	5.256	4.985	4.671	4.313	3.917	3.489	3.022	2.482
CTVT/6-710	6.968	6.795	6.621	6.444	6.260	6.068	5.865	5.649	5.416	5.163	4.888	4.591	4.272	3.934	3.559	3.123
CTVT/6-710H	9.468	9.210	8.952	8.695	8.437	8.179	7.922	7.665	7.407	7.147	6.884	6.611	6.321	6.008	5.674	5.324
CTVT/8-450	1.229	1.097	0.950	0.753	0.302											
CTVT/8-500	1.965	1.821	1.655	1.446	1.207	0.848										
CTVT/8-560	2.751	2.583	2.411	2.230	2.030	1.791	1.432	0.350								
CTVT/8-630	4.021	3.776	3.529	3.281	3.031	2.777	2.505	2.155	1.636	0.454						
CTVT/8-710	5.289	5.059	4.824	4.580	4.320	4.035	3.702	3.318	2.895	2.359	1.605	0.706				

CENTRIFUGAL ROOF MOUNTED FANS

CTHB / CTHT series

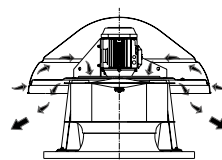


HIGH TEMPERATURE

motor out of airstream, horizontal discharge backward curved impeller roof fan



PART L2: 2013
COMPLIANT



Self cooling system

Special design in order to cool the motor and to extend the life of the assembly.

CTHB / CTHT SERIES

Range of centrifugal roof mounted fans in horizontal discharge format. All models are suitable for air stream temperature up to 120°C. Bases are manufactured from galvanised sheet steel and cowls are manufactured from spun aluminium.

All models incorporate bird-proof guard.

Available, depending upon the model, with single or three phase motors in 4, 6, 8, 4/8 or 6/12 poles.

Motors

All motors are IP55, Class F and equipped with ball bearings greased for life.

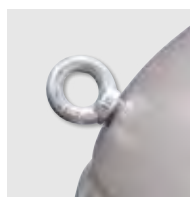
Electrical supply:

Single phase 230V-50Hz.

Three phase 400V-50Hz.

(See characteristics chart).

Speed controllable by voltage, up to 400 model. Three phase motors are controllable by frequency inverter.



Easy to install

Supports easing the installation on the roof.



Bird-proof guard



Backward curved centrifugal impellers

To prevent accumulation of dirt. Models up to 400 are manufactured from galvanised steel sheet. Models from 450 to 630 are manufactured in sheet steel protected against corrosion by cataforesis primer and black polyester paint finish.

CTHB / CTHT series

Model		Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current (A)		Maximum Airflow (m3/s)	Sound Pressure Level* @ 2/3m Maximum (dB(A))		Weight (kg)	Speed Controller
				@ 230V	@ 400V		Inlet	Outlet		
4 POLES SINGLE PHASE	CTHB/4-180	1330	70	0.33		0.27	46	52	8	REB-1
	CTHB/4-200	1320	120	0.60		0.40	49	55	14.2	REB-1
	CTHB/4-225	1350	170	0.90		0.58	53	59	17	REB-1
	CTHB/4-250	1320	280	1.40		0.86	57	62	28	REB-3
	CTHB/4-315	1375	590	2.70		1.36	60	66	32	REB-3
	CTHB/4-400	1380	1100	5.30		1.94	67	73	42.5	REB-6
6 POLES SINGLE PHASE	CTHB/6-200	940	80	0.40		0.27	38	45	14.2	REB-1
	CTHB/6-225	890	90	0.40		0.38	42	48	17	REB-1
	CTHB/6-250	940	100	0.57		0.55	45	52	28	REB-1
	CTHB/6-315	840	170	0.81		0.88	49	55	32	REB-1
	CTHB/6-400	950	350	1.60		1.25	56	62	42.5	REB-3
4 POLES THREE PHASE	CTHT/4-180	1350	70		0.17	0.27	46	52	8	S&P VFD-T 5A (3-PH)
	CTHT/4-200	1340	130		0.35	0.40	49	55	14.2	S&P VFD-T 5A (3-PH)
	CTHT/4-225	1360	170		0.50	0.58	53	59	17	S&P VFD-T 5A (3-PH)
	CTHT/4-250	1400	300		0.80	0.86	57	62	28	S&P VFD-T 5A (3-PH)
	CTHT/4-315	1410	620		1.50	1.36	60	66	32	S&P VFD-T 5A (3-PH)
	CTHT/4-400	1350	920		1.80	1.94	67	73	42.5	S&P VFD-T 5A (3-PH)
	CTHT/4-450	1440	2300		4.60	2.83	71	76	67	S&P VFD-T 5A (3-PH)
6 POLES THREE PHASE	CTHT/6-200	950	80		0.24	0.27	38	45	14.2	S&P VFD-T 5A (3-PH)
	CTHT/6-225	900	90		0.23	0.38	42	48	17	S&P VFD-T 5A (3-PH)
	CTHT/6-250	950	100		0.41	0.55	45	52	28	S&P VFD-T 5A (3-PH)
	CTHT/6-315	900	180		0.50	0.88	49	55	32	S&P VFD-T 5A (3-PH)
	CTHT/6-400	925	350		1.00	1.25	56	62	42.5	S&P VFD-T 5A (3-PH)
	CTHT/6-450	940	850		3.50	1.92	59	66	67	S&P VFD-T 5A (3-PH)
	CTHT/6-500	965	1400		4.30	2.92	63	69	104	S&P VFD-T 5A (3-PH)
	CTHT/6-560	950	2400		5.30	4.44	66	73	118	S&P VFD-T 6.8A (3-PH)
	CTHT/6-630	950	3900		8.30	5.83	70	76	156	S&P VFD-T 9A (3-PH)
	CTHT/6-630H	970	5500		12.60	8.64	75	81	210	S&P VFD-T 13A (3-PH)
	CTHT/6-710	980	6800		13.80	8.02	77	83	217	S&P VFD-T 17A (3-PH)
	CTHT/6-710H	970	7500		15.80	10.58	77	83	228	S&P VFD-T 17A (3-PH)
8 POLES THREE PHASE	CTHT/8-450	700	700		2.10	1.39	55	61	67	S&P VFD-T 5A (3-PH)
	CTHT/8-500	725	770		2.40	2.08	55	62	104	S&P VFD-T 5A (3-PH)
	CTHT/8-560	730	1100		3.60	3.19	58	65	118	S&P VFD-T 5A (3-PH)
	CTHT/8-630	735	1650		4.90	4.17	62	69	156	S&P VFD-T 6.8A (3-PH)
	CTHT/8-710	730	2900		7.20	6.03	70	76	226	S&P VFD-T 9A (3-PH)
	CTHT/4/8-225	1300/700	180/70		0.3/0.2	0.58/0.29	53/38	59/44	17	
	CTHT/4/8-315	1400/700	370/230		1.1/0.9	1.36/0.66	60/45	66/51	33	
	CTHT/4/8-400	1400/700	1000/260		1.8/1.0	1.94/0.97	67/52	73/58	44	
	CTHT/4/8-450	1400/700	2400/600		6.1/2.5	2.83/1.41	71/55	76/61	69	
2 SPEEDS THREE PHASE	CTHT/6/12-450	960/490	500/190		2/1	1.92/0.94	59/44	66/51	72	
	CTHT/6/12-500	980/490	1520/430		4.5/2.2	2.92/1.47	63/48	69/54	109	
	CTHT/6/12-560	950/480	2400/640		5.6/2.2	4.44/1.94	66/51	73/58	124	
	CTHT/6/12-630	960/480	4100/730		8.1/2.6	5.83/2.92	70/55	76/61	161	
	CTHT/6/12-710	950/450	6700/850		14.1/5.4	8.03/4.16	77/62	83/68	226	

* The ratings of sound levels are pressure values measured in dB(A) at 1,5 m at 2/3 maximum.

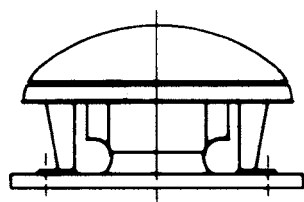
** Three phase inverter controller.

CTHB / CTHT series

ACOUSTIC CHARACTERISTICS

Sound power spectrum

To obtain the sound power spectrum, subtract the correction value shown in the following chart from the value in the technical characteristics table:

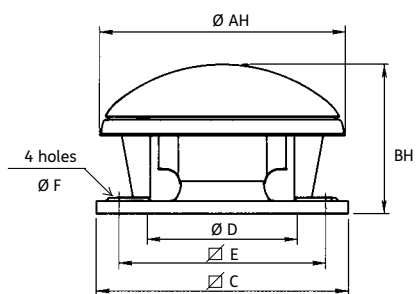


HORIZONTAL DISCHARGE

Model	Speed	Frequency Bands in Hz						
		125	250	500	1000	2000	4000	8000
Outlet	Maximum	2.0	7.5	11.0	11.0	9.0	6.0	0.5
	2/3 Maximum	-0.5	3.5	5.5	5.5	3.5	0.5	-4.5
	1/3 Maximum	-2.5	1.5	3.5	3.5	1.5	-1.5	-6.5
Inlet	Maximum	5.5	9.0	11.5	11.0	10.0	7.5	3.5
	2/3 Maximum	2.5	5.0	6.0	4.5	1.5	-2.5	-8.6
	1/3 Maximum	0.5	3.0	4.0	2.5	-0.5	-4.5	-10.5

CTHB / CTHT

Dimensions (mm)



Fan model	Ø AH	BH	Ø C	Ø D*	Ø E	Ø F
180	415	292	300	180	245	10
200	561	340	435	250	330	12
225	561	383	435	250	330	12
250	762	425	560	355	450	12
315	762	469	560	355	450	12
400	850	532	630	400	535	12
450	962	713	710	500	590	14
500	1214	824	905	630	750	14
560	1214	874	905	630	750	14
630	1336	1029	1100	710	840	14
630H	1336	1044	1100	710	840	14
710	1336	1127	1100	710	840	14
710H	1336	1139	1100	710	840	14

* Nominal accessories diameter.



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CTHB / CTHT series

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa
Airflow (m³/s) @ Static Pressure (Pa)										
CTHB/4-180	0.252	0.202	0.138							
CTHB/4-200	0.395	0.333	0.272	0.195						
CTHB/4-225	0.555	0.506	0.454	0.391	0.310	0.128				
CTHB/4-250	0.820	0.750	0.683	0.612	0.527	0.475	0.414			
CTHB/4-315	1.325	1.265	1.205	1.143	1.078	1.008	0.928	0.823	0.619	
CTHB/4-400	2.020	1.933	1.848	1.767	1.685	1.597	1.496	1.369	1.227	1.095
CTHB/6-200	0.261	0.194								
CTHB/6-225	0.354	0.254	0.106							
CTHB/6-250	0.563	0.467	0.375							
CTHB/6-315	0.863	0.772	0.671	0.528						
CTHB/6-400	1.249	1.133	1.017	0.891	0.741	0.513				
CTHT/4-180	0.260	0.218	0.169	0.063						
CTHT/4-200	0.383	0.328	0.270	0.178						
CTHT/4-225	0.576	0.515	0.452	0.389	0.313	0.206				
CTHT/4-250	0.828	0.777	0.725	0.670	0.613	0.549	0.453			
CTHT/4-315	1.281	1.216	1.152	1.091	1.031	0.969	0.904	0.828	0.728	
CTHT/4-400	1.927	1.839	1.753	1.671	1.589	1.503	1.405	1.277	1.130	0.992
CTHT/4-450	2.820	2.710	2.594	2.465	2.320	2.175	2.043	1.927	1.819	1.714
CTHT/6-200	0.259	0.192								
CTHT/6-225	0.367	0.276	0.173							
CTHT/6-250	0.571	0.489	0.391	0.152						
CTHT/6-315	0.863	0.772	0.671	0.528						
CTHT/6-400	1.247	1.139	1.026	0.900	0.747	0.518				
CTHT/6-450	1.886	1.768	1.645	1.516	1.373	1.207	0.994	0.735		
CTHT/6-500	2.949	2.686	2.493	2.325	2.158	1.969	1.755	1.527	1.283	0.979
CTHT/6-560	4.092	3.836	3.620	3.437	3.263	3.087	2.894	2.663	2.401	2.118
CTHT/6-630	5.738	5.472	5.196	4.905	4.615	4.348	4.105	3.880	3.660	3.427
CTHT/6-630H	8.635	8.438	8.239	8.036	7.827	7.609	7.381	7.142	6.894	6.631
CTHT/6-710	7.889	7.733	7.574	7.410	7.236	7.047	6.837	6.603	6.346	6.070
CTHT/6-710H	10.588	10.387	10.186	9.983	9.778	9.569	9.357	9.138	8.911	8.673
CTHT/8-450	1.453	1.309	1.153	0.961	0.656					
CTHT/8-500	2.160	1.937	1.716	1.498	1.252	0.886				
CTHT/8-560	2.945	2.691	2.430	2.158	1.868	1.555	1.066	0.465		
CTHT/8-630	4.330	4.045	3.756	3.460	3.152	2.826	2.487	2.103	1.550	0.397
CTHT/8-710	6.018	5.747	5.472	5.190	4.897	4.585	4.245	3.856	3.379	2.777

CTHB / CTHT series

500 Pa	550 Pa	600 Pa	650 Pa	700 Pa	750 Pa	800 Pa	850 Pa	950 Pa	1000 Pa
0.949	0.760	0.425							
0.855	0.667								
1.606	1.493	1.372	1.238	1.086	0.908	0.690	0.424		
0.517									
1.806	1.438	0.853							
3.173	2.894	2.588	2.231	1.794	1.267				
6.344	6.010	5.601	5.137	4.573	3.574	2.799			
5.785	5.506	5.230	4.937	4.602	4.208	3.754	3.240	1.854	
8.419	8.145	7.846	7.513	7.135	6.698	6.187	5.602	4.211	1.881
1.994	0.547								

PLATE MOUNTED AXIAL FLOW FANS

HCBB / HCBT series



COMPACT PLATE MOUNTED

axial fan



HCBB / HCBT SERIES

Range of low profile plate mounted axial fans fitted with aluminium impellers and single phase motor (HCBB) or three phase motor (HCBT) IP65 (1) Class F insulation (2), equipped with thermal protection (3).

(1) Models 800, 900 and 1000 are IP55.

(2) Working temperatures from -40°C up to +70°C.

Except models Ø 800, 900 and 1000 suitable for usage in environments from -20°C to +40°C.

(3) Except models Ø 800 to 1000.

Motors

Available, depending upon the model, with single or three phase motors in 4 poles.

All motors are speed controllable by auto-transformer except models /4-630, B/710, T/4-710, T/800, T/900 and T/1000.

Three phase models are speed controllable by inverter.

Electricity supply:

Single phase 230V~50Hz.(except HCBB/4-250H 230~50/60Hz. (Capacitor located inside the wiring terminal box).

Three phase 230/400V-50Hz or 400V-50Hz.

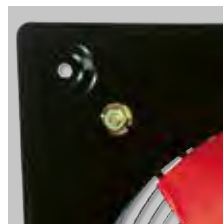
Standard air direction: form (A) configuration.

(Motor over Impeller).



Configuration for models
Ø 800 to 1000

Special design of motor over impeller, which provides compactness and tightness IP55.



Corrosion resistance

Mounting plate, motor support and finger proof guard protected by cataforesis primer and black polyester paint finish. Stainless steel screws.



Low profile

External rotor motor to limit the height of the fan.

HCBB / HCBT series



Technical Data

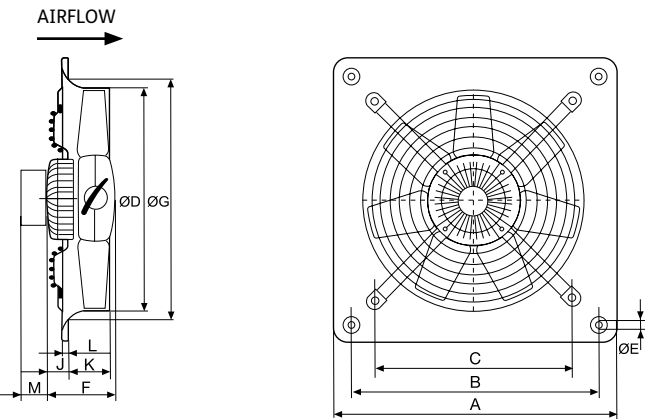
Before installation, check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Current (A)		Sound Pressure Level @3m (dB(A))	Maximum Air Volume (m3/s)	Weight (kg)	Speed Controller		Inverter Control S&P VFD*	
			230V	400V				Electronic	Auto Transformer		
SINGLE PHASE 4 POLE											
HCBB/4-250/H	1325	84	0.4		49	0.32	5	REB-1	REV-3N		
HCBB/4-315/H	1295	140	0.7		55	0.64	7	REB-1	REV-3N		
HCBB/4-355/H	1385	193	0.9		59	0.99	8	REB-3	REV-3N		
HCBB/4-400/H	1360	315	1.5		62	1.34	9	REB-3	REV-3N		
HCBB/4-450/H	1410	626	2.8		65	1.99	13	REB-3	REV-5N		
HCBB/4-500/H	1365	787	3.4		68	2.45	16	REB-5	REV-5N		
HCBB/4-560/H	1370	1266	5.7		70	3.49	22	REB-8	REV-7N		
HCBB/4-630/H	1360	1879	8.3		71	4.60	25				
THREE PHASE 4 POLE											
HCBT/4-250/H	1330	81	0.3	0.2	49	0.31	5			-M 10A	-T 5A
HCBT/4-315/H	1320	162	0.7	0.4	55	0.66	7			-M 10A	-T 5A
HCBT/4-355/H	1370	182	0.8	0.5	59	0.97	8			-M 10A	-T 5A
HCBT/4-400/H	1320	288	1.1	0.6	62	1.35	9			-M 10A	-T 5A
HCBT/4-450/H	1350	511	1.6	0.9	65	1.75	13			-M 10A	-T 5A
HCBT/4-500/H	1390	809	2.7	1.6	68	2.50	16			-M 10A	-T 5A
HCBT/4-560/H	1390	1287	4.0	2.3	70	3.54	22			-M 10A	-T 5A
HCBT/4-630/H	1385	1736	5.4	3.1	73	4.68	25			-M 10A	-T 5A
HCBT/4-710/H	1350	2554	7.6	4.4	74	6.20	27			-M 10A	-T 6.8A
HCBT/4-800/L-X (1.5 kW)	1410	2632	7.3	4.2	78	6.47	37			-M 10A	-T 5A
HCBT/4-800/H-X (3 kW)	1440	4595	12.8	7.4	84	9.19	52			-M 16A	-T 9A
HCBT/4-900/L-X (3 kW)	1450	3909	12.0	6.9	82	9.52	62			-M 16A	-T 9A
HCBT/4-900/H-X (5.5 kW)	1455	7893		13.4	87	12.85	112				-T 17A
HCBT/4-1000/L-X (3 kW)	1415	5048	14.2	8.2	86	11.08	67				-T 9A
HCBT/4-1000/H-X (7.5 kW)	1470	8675		14.6	93	14.92	101				-T 17A

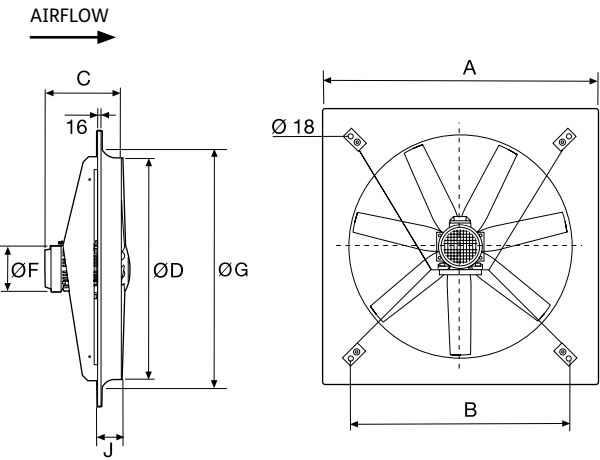
* Inverter control: VFD-M-1-Phase 230V Input, 3-Phase 230V Output. VFD-T-3-Phase 400V Input, 3-Phase 400V Output.

HCBB / HCBT series

HCBB / HCBT SERIES Dimensions (mm)



Model	A	B	C	ØD	ØE	F	ØG	J	K	L
250	315	260	220	254	10	122	294	59	53	12
315	400	330	280	315	10	122	329	32	68	12
355	450	380	315	355	10	129	371	45	75	12
400	500	420	355	400	10	129	422	40.5	78	12
450	560	480	400	450	10	150	476	48	91	12
500	630	560	450	500	10	150	536	44.5	97	12
560	710	630	510	560	10	218.5	596	110.5	98.5	12
630	800	710	580	630	12	218.5	674	110.5	103	12
710	900	800	636	710	12	218.5	733	134	91.5	16.5

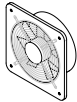


Model	A	B	ØD	J	ØG	C		ØF	
						L	H	L	H
800	1000	800	800	92	926	345	380	181	203
900	1120	900	900	120	1060	392	439	203	280
1000	1250	1000	1000	110	1154	380	485	203	280

HCBB / HCBT series

Model	0 Pa	25 Pa	50 Pa	75 Pa	100 Pa	125 Pa	150 Pa	175 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa
Airflow (m³/s) @ Static Pressure (Pa)													
SINGLE PHASE 4 POLE													
HCBB/4-250/H	0.314	0.268											
HCBB/4-315/H	0.633	0.567	0.439										
HCBB/4-355/H	0.996	0.921	0.836	0.718									
HCBB/4-400/H	1.394	1.299	1.191	1.045	0.839								
HCBB/4-450/H	1.889	1.807	1.720	1.613	1.470	1.326	1.194						
HCBB/4-500/H	2.458	2.369	2.271	2.150	1.993	1.824	1.651	1.463					
HCBB/4-560/H	3.721	3.620	3.512	3.390	3.245	3.074	2.886	2.685	2.482	2.283			
HCBB/4-630/H	4.604	4.495	4.346	4.194	4.039	3.879	3.707	3.514	3.278	2.969			
THREE PHASE 4 POLE													
HCBT/4-250/H	0.311	0.263											
HCBT/4-315/H	0.661	0.593	0.481										
HCBT/4-355/H	0.979	0.896	0.812	0.673									
HCBT/4-400/H	1.394	1.299	1.191	1.045	0.839								
HCBT/4-450/H	1.889	1.807	1.720	1.613	1.470	1.326	1.194						
HCBT/4-500/H	2.539	2.450	2.356	2.247	2.097	1.909	1.744						
HCBT/4-560/H	3.598	3.485	3.368	3.242	3.096	2.916	2.705	2.483	2.202				
HCBT/4-630/H	4.677	4.543	4.405	4.258	4.093	3.906	3.694	3.462	3.224				
HCBT/4-710/H	6.203	6.024	5.842	5.653	5.452	5.235	4.992	4.714	4.379	3.488			
HCBT/4-800/L-X (1,5kW)	6.468	6.314	6.156	5.993	5.817	5.624	5.408	5.159	4.882	4.315	3.525	2.862	2.395
HCBT/4-800/H-X (3kW)	9.193	9.029	8.862	8.690	8.511	8.319	8.107	7.871	7.601	6.925	6.117	5.268	4.475
HCBT/4-900/L-X (3kW)	9.519	9.312	9.103	8.890	8.668	8.435	8.188	7.922	7.635	6.982	6.227	5.395	4.386
HCBT/4-900/H-X (5.5kW)	13.819	13.566	13.314	13.061	12.809	12.555	12.298	12.033	11.757	11.137	10.401	9.545	8.591
HCBT/4-1000/L-X (3kW)	11.193	10.924	10.655	10.384	10.110	9.831	9.546	9.249	8.936	8.226	7.408	6.561	5.760
HCBT/4-1000/H-X (7.5kW)	14.855	14.551	14.287	13.661	13.970	13.388	13.099	12.756	12.406	11.688	11.004	10.166	9.246

HCBB / HCBT series

Code	Fan Model	Trade Prices	Electronic Speed Controller	Trade Prices	Transformer Speed Controller	Trade Prices	Frequency Inverter S&P VFD 1/230v*	Trade Prices
								
SINGLE PHASE 4 POLE								
5603889600	HCBB/4-250/H (230v 50Hz)	£196.71	REB-1	£64.08	REV-3N	£388.33		
5603638200	HCBB/4-315/H (230v 50Hz)	£222.94	REB-1	£64.08	REV-3N	£388.33		
5603638900	HCBB/4-355/H (230v 50Hz)	£251.36	REB-3	£78.64	REV-3N	£388.33		
5603139100	HCBB/4-400/H (230v 50Hz)	£292.89	REB-3	£78.64	REV-3N	£388.33		
5603999400	HCBB/4-450/H (230v 50Hz)	£332.23	REB-3	£78.64	REV-5N	£468.42		
5603255000	HCBB/4-500/H (230v 50Hz)	£393.43	REB-5	£106.79	REV-5N	£468.42		
5603640400	HCBB/4-560/H (230v 50Hz)	£596.30	REB-8	£211.08	REV-7N	£489.02		
5603641100	HCBB/4-630/H (230v 50Hz)	£664.88						
THREE PHASE 4 POLE								
5603957100	HCBT/4-250/H (230/400v 50Hz)	£196.72					VFD-M10A	£489.25
5603643000	HCBT/4-315/H (230/400v 50Hz)	£216.37					VFD-M10A	£489.25
5603643900	HCBT/4-355/H (230/400v 50Hz)	£242.62					VFD-M10A	£489.25
5603546300	HCBT/4-400/H (230/400v 50Hz)	£264.46					VFD-M10A	£489.25
5603557900	HCBT/4-450/H (230/400v 50Hz)	£303.81					VFD-M10A	£489.25
5603053900	HCBT/4-500/H (230/400v 50Hz)	£349.71					VFD-M10A	£489.25
5603644500	HCBT/4-560/H (230/400v 50Hz)	£463.40					VFD-M10A	£489.25
5603645200	HCBT/4-630/H (230/400v 50Hz)	£629.46					VFD-M10A	£489.25
5603913400	HCBT/4-710/H (230/400v 50Hz)	£1,073.14					VFD-M10A	£489.25
5604383900	HCBT/4-800/L-X (1.5KW) (230/400v 50Hz)	£701.91					VFD-M10A	£489.25
5604385400	HCBT/4-800/H-X (3.0KW) (230/400v 50Hz)	£1,139.85					VFD-M16A	£596.37
5605723500	HCBT/4-900/L-X (3.0KW) (230/400v 50Hz)	£851.80					VFD-M16A	£596.37
5605572600	HCBT/4-900/H-X (5.5KW) (400v 50Hz)	£1,248.48						
5604377100	HCBT/4-1000/L-X (3.0KW) (230/400v 50Hz)	£1,235.58					VFD-M16A	£596.37
5111935200	HCBT/4-1000/H-X (7.5KW) (400v 50Hz)	£1,546.06						

* Inverter VFD option for 230V~50Hz Single Phase Input & 230V~50Hz Three Phase Output

HCBB / HCBT series

Model		Frequency Inverter S&P VFD 3/400v 	Trade Prices	DOL Starter 	Trade Prices	Louvre Shutter Plastic 	Trade Prices	Wire Protection Guards Inlet 	Trade Prices	Wire Inlet 	Trade Prices
HCBB/4-250/H						PER-250 W	£37.34	DEF-250 D	£39.60		
HCBB/4-315/H						PER-355 W	£43.92	DEF-325 D	£44.62		
HCBB/4-355/H						PER-355 W	£43.92	DEF-375 D	£49.06		
HCBB/4-400/H						PER-400 W	£46.11	DEF-450 D	£60.13		
HCBB/4-450/H						PER-450 W	£59.30	DEF-450 D	£60.13		
HCBB/4-500/H						PER-500 W	£69.19	DEF-525 D	£66.95		
HCBB/4-560/H						PER-560 W	£126.28	DEF-630 D	£240.49		
HCBB/4-630/H						PER-630 W	£142.75	DEF-630 D	£240.49		

HCBT/4-250/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-250 W	£37.34	DEF-250 D	£39.60			
HCBT/4-315/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-355 W	£43.92	DEF-325 D	£44.62			
HCBT/4-355/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-355 W	£43.92	DEF-375 D	£49.06			
HCBT/4-400/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-400 W	£46.11	DEF-450 D	£60.13			
HCBT/4-450/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-450 W	£59.30	DEF-450 D	£60.13			
HCBT/4-500/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-500 W	£69.19	DEF-525 D	£66.95			
HCBT/4-560/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-560 W	£126.28	DEF-630 D	£240.49			
HCBT/4-630/H	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-630 W	£142.75	DEF-630 D	£240.49			
HCBT/4-710/H	VFD-T6.8A	£613.88	MSD 400V 0-25A	£227.62	PER-710 W	£204.24	DEF-800 D	£307.98			
HCBT/4-800/L-X (1.5KW)	VFD-T5A	£565.47	MSD 400V 0-25A	£227.62	PER-800 W	£295.37	DEF-800 D	£307.98	DEF-800 AN	£275.24	
HCBT/4-800/H-X (3.0KW)	VFD-T9A	£701.43	MSD 400V 0-25A	£227.62	PER-800 W	£295.37	DEF-800 D	£307.98	DEF-800 AN	£275.24	
HCBT/4-900/L-X (3.0KW)	VFD-T9A	£701.43	MSD 400V 0-25A	£227.62	PER-1000 W	£367.84	DEF-1000D	£338.77			
HCBT/4-900/H-X (5.5KW)	VFD-T17A	£1,011.46	MSD 400V 0-25A	£227.62	PER-1000 W	£367.84	DEF-1000D	£338.77			
HCBT/4-1000/L-X (3.0KW)	VFD-T9A	£701.43	MSD 400V 0-25A	£227.62	PER-1000 W	£367.84	DEF-1000D	£338.77	DEF-1000AN	£386.31	
HCBT/4-1000/H-X (7.5KW)	VFD-T17A	£1,011.46	MSD 400V 0-25A	£227.62	PER-1000 W	£367.84	DEF-1000D	£338.77	DEF-1000AN	£386.31	

ALL THREE PHASE MODELS - Accessories when controlling with a VFD

Model		Trade Price	Model		Trade Price
REB-CVF Off/On and speed control		£121.96	Preparation/ Cook Switch		£85.49

CYLINDRICAL CASED AXIAL FLOW FANS

TCBB / TCBT series



**COMPACT
SHORT CASED**
inline axial fan.



PART L2: 2013
COMPLIANT

TCBB / TCBT SERIES

Range of cylindrical cased axial flow fans fitted with aluminium impellers and manufactured from high grade rolled galvanised steel and protected against corrosion by cataforesis primer and black polyester paint finish. All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access. Available with 4 pole single or three phase motors.

Motors

Single phase motor (TCBB) or three phase motor (TCBT). Models 250, 315, 355 and 400: External rotor motor, IP44, Class F, thermal protection, working temperature from -40°C to +70°C. Models 450, 500, 560 and 630: IP65, Class F, thermal protection, working temperature from -40°C to +70°C. Models 4/710 and 800: IP55, Class F, working temperature from -40°C to +70°C. All motors are speed controllable by autotransformer except models /4-560H, /4-630, 710 and T/800. Three phase motors are speed controllable by inverter.

Electricity supply:

Single phase 230V-50Hz.
(Capacitor located inside the wiring terminal box).
Three phase 230/400V-50Hz or 400V-50Hz.



Configuration for models
250, 315, 355 and 400



Configuration for models
450-630



Configuration for models
4-710 and 800.

TCBB / TCBT series



Technical Data

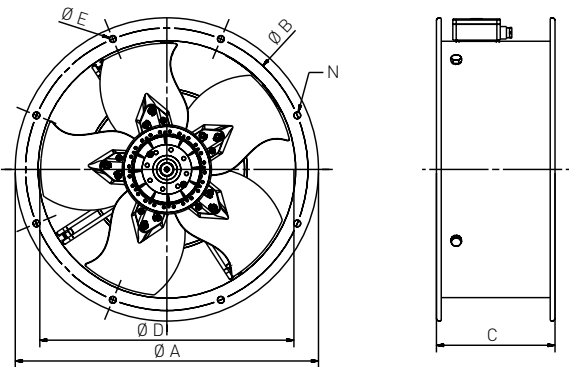
Before installation, check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Current (A)		Sound Pressure Level @3m (dB(A))	Maximum Air Volume (m3/s)	Weight (kg)	Speed Controller		Variable Frequency Inverter S&P VFD*	
			230V	400V				Electronic	Auto Transformer		
SINGLE PHASE 4 POLE											
TCBB/4-250/H	1430	44	0.2		42	0.25	8	REB-1	REV-3N		
TCBB/4-315/H	1435	105	0.6		52	0.55	11	REB-1	REV-3N		
TCBB/4-355/H	1420	120	0.6		52	0.68	13.2	REB-1	REV-3N		
TCBB/4-400/H	1420	360	1.6		60	1.44	15.5	REB-3	REV-5N		
TCBB/4-450/H	1410	594	2.6		63	1.89	21	REB-5	REV-5N		
TCBB/4-500/H	1410	636	2.8		66	2.08	25	REB-5	REV-5N		
TCBB/4-560/L	1405	1289	6		68	3.32	33	REB-6	REV-7N		
TCBB/4-560/H	1390	1461	6.6		69	3.6	34.7				
TCBB/4-630/L	1365	1707	7.5		70	4.37	40				
THREE PHASE 4 POLE											
TCBT/4-250/H	1470	42	0.3	0.2	42	0.25	8			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-315/H	1445	99	0.5	0.3	51	0.55	11			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-355/H	1415	117	0.5	0.3	52	0.68	13.2			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-400/H	1410	268	1.0	0.6	60	1.37	15.5			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-450/H	1405	526	1.9	1.1	63	1.85	21			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-500/H	1420	641	2.6	1.5	66	2.10	25			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-560/L	1415	1184	3.8	2.2	68	3.36	33			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-560/H	1390	1348	4.2	2.4	69	3.71	34.7			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-630/L	1410	1770	5.9	3.4	70	4.46	39			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-630/H	1400	1940	6.2	3.6	70	4.73	40			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-710/L	1435	2175	6.4	3.7	73	5.64	46			S&P VFD-M10A	S&P VFD-T 5A
TCBT/4-710/H	1460	3441	10.6	6.1	73	7.34	54			S&P VFD-M16A	S&P VFD-T 9A
TCBT/4-800/L	1460	3750	11.3	6.5	76	8.32	65			S&P VFD-M16A	S&P VFD-T 9A
TCBT/4-800/K	1460	5177		8.8	76	9.71	68				S&P VFD-T 13A
TCBT/4-800/G	1470	6146		11.1	77	11.12	81				S&P VFD-T 13A
TCBT/4-800/H	1475	7688		13	78	11.80	89				S&P VFD-T 17A

* Inverter control: VFD-M-1-Phase 230V Input, 3-Phase 230V Output. VFD-T-3-Phase 400V Input, 3-Phase 400V Output.

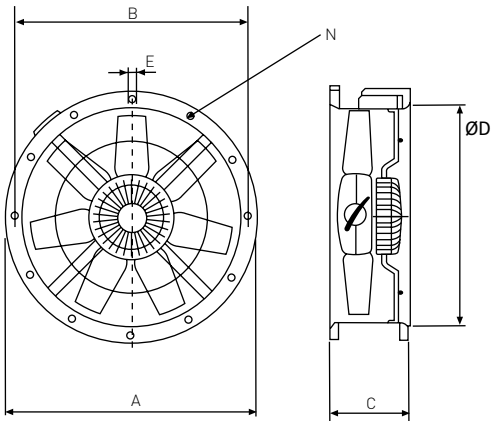
TCBB / TCBT series

TCBB / TCBT SERIES Dimensions (mm)

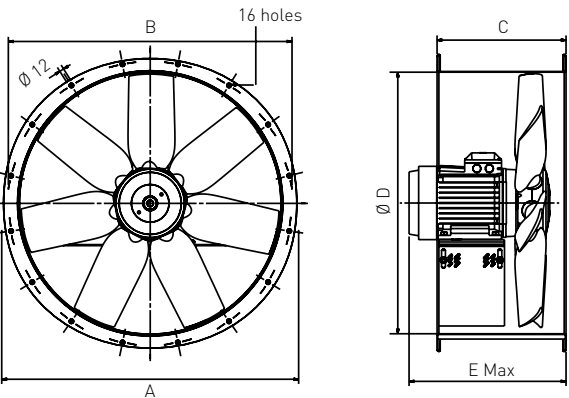


Models 250, 315, 355 and 400

Model	Ø A	Ø B	C	Ø D	Ø E	Number of holes N
250	327	292	170	254	10	4
315	386	355	170	315	10	8
355	426	395	170	355	10	8
400	487	450	210	400	12	8



Models 450, 500, 560 and 630



Models 710 and 800

Model	Ø A	B	C	Ø D	E
					4 poles
710/L (4 poles)	806	770	380	710	415
710/H (4 poles)	806	770	380	710	444
800/L	896	860	380	800	437
800/K	896	860	380	800	448
800/G	896	860	380	800	447 (5.5kW) 515 (7.5kW)
800/H	896	860	380	800	515

TCBB / TCBT series

Model	0 Pa	25 Pa	50 Pa	75 Pa	100 Pa	125 Pa	150 Pa	175 Pa	200 Pa	250 Pa	300 Pa	350 Pa
Airflow (m³/s) @ Static Pressure (Pa)												
SINGLE PHASE 4 POLE												
TCBB/4-250/H	0.249	0.176										
TCBB/4-315/H	0.553	0.501	0.425									
TCBB/4-355/H	0.684	0.623	0.554	0.324								
TCBB/4-400/H	1.402	1.312	1.218	0.980								
TCBB/4-450/H	1.928	1.864	1.782	1.618	1.512	1.425						
TCBB/4-500/H	2.084	2.015	1.942	1.860	1.762	1.633	1.465					
TCBB/4-560/L	3.325	3.241	3.154	3.060	2.954	2.829	2.671	2.474	2.249			
TCBB/4-560/H	3.384	3.298	3.211	3.121	3.027	2.920	2.777	2.558				
TCBB/4-630/L	4.439	4.322	4.203	4.080	3.951	3.808	3.646	3.460	3.247			
THREE PHASE 4 POLE												
TCBT/4-250/H	0.248	0.136										
TCBT/4-315/H	0.540	0.507	0.459									
TCBT/4-355/H	0.686	0.622	0.538									
TCBT/4-400/H	1.376	1.276	1.181	0.976								
TCBT/4-450/H	1.848	1.763	1.674	1.575	1.462	1.330						
TCBT/4-500/H	2.108	2.037	1.964	1.884	1.795	1.686	1.539					
TCBT/4-560/L	3.359	3.272	3.180	3.083	2.971	2.837	2.663	2.451	2.192			
TCBT/4-560/H	3.714	3.616	3.515	3.403	3.265	3.080	2.838	2.603				
TCBT/4-630/L	4.547	4.431	4.312	4.187	4.053	3.904	3.739	3.557	3.363	2.819		
TCBT/4-630/H	4.731	4.627	4.519	4.406	4.281	4.136	3.959	3.733	3.492	3.052		
TCBT/4-710/L (1.5kW)	5.636	5.493	5.349	5.206	5.064	4.921	4.776	4.628	4.469	4.052	3.030	
TCBT/4-710/H (3kW)	7.338	7.193	7.047	6.898	6.743	6.580	6.406	6.220	6.018	5.587	5.170	
TCBT/4-800/L (3kW)	8.319	8.170	8.020	7.868	7.712	7.550	7.380	7.200	7.005	6.544	5.926	4.634
TCBT/4-800/K (4kW)	9.708	9.549	9.390	9.228	9.064	8.895	8.719	8.536	8.343	7.912	7.364	6.363
TCBT/4-800/G (5.5kW)	10.695	10.496	10.297	10.095	9.889	9.679	9.461	9.236	9.000	8.493	7.939	7.266
TCBT/4-800/H (7.5kW)	11.804	11.587	11.371	11.154	10.937	10.719	10.501	10.283	10.066	9.630	9.162	8.540

TCBB / TCBT series

Code	Model	Trade Prices	Electronic Speed Controller*	Trade Prices	Transformer Speed Controller	Trade Prices	Inverter VFD 1Ph in to 3Ph out IP65 S&P VFD 1/230V	Trade Prices	Inverter VFD 3Ph in to 3Ph out IP65 S&P VFD 3/400V	Trade Prices
										
SINGLE PHASE 4 POLE										
5705079700	TCBB/4-250/H- *230V 50/60*	£286.34	REB-1	£64.08	REV-3N	£388.33				
5705079800	TCBB/4-315/H- *230V 50*	£305.98	REB-1	£64.08	REV-3N	£388.33				
5705079900	TCBB/4-355/H- *230V 50*	£319.11	REB-1	£64.08	REV-3N	£388.33				
5740124200	TCBB/4-400/H- *230V 50*	£367.17	REB-3	£78.64	REV-3N	£388.33				
5604636400	TCBB/4-450/H- *230V 50*	£459.01	REB-5	£106.79	REV-5N	£468.42				
5604636300	TCBB/4-500/H- *230V 50*	£517.78	REB-5	£106.79	REV-5N	£468.42				
5604634700	TCBB/4-560/L- *230V 50*	£634.21	REB-6	£121.06	REV-7N	£489.02				
5604634800	TCBB/4-560/H- *230V 50*	£648.64								
5604638700	TCBB/4-630/L- *230V 50*	£703.30								
THREE PHASE 4 POLE										
5705080100	TCBT/4-250/H- *230/400V 50/60*	£262.26					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5705080200	TCBT/4-315/H- *230/400V 50/60*	£268.83					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5705080300	TCBT/4-355/H- *230/400V 50/60*	£277.57					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5740124800	TCBT/4-400/H- *230/400V 50/60*	£325.63					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5603003500	TCBT/4-450/H- *230/400V 50*	£410.91					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5603999700	TCBT/4-500/H- *230/400V 50*	£478.68					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5603205600	TCBT/4-560/L- *230/400V 50*	£492.65					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5603994500	TCBT/4-560/H- *230/400V 50*	£509.26					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5604309000	TCBT/4-630/L- *230/400V 50*	£779.84					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5604308800	TCBT/4-630/H- *230/400V 50*	£802.15					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5604597300	TCBT/4-710/L- *230/400V 50*	£1,080.74					S&P VFD-M10A	£489.25	S&P VFD-T 5A	£565.47
5603927300	TCBT/4-710/H- *230/400V 50*	£1,087.08					S&P VFD-M16A	£596.37	S&P VFD-T 9A	£701.43
5604885400	TCBT/4-800/L- (3.0KW) *230/400V 50*	£976.34					S&P VFD-M16A	£596.37	S&P VFD-T 9A	£701.43
5604992600	TCBT/4-800/K- (4.0kW) *400V 50*	£1,006.13							S&P VFD-T 13A	£843.57
5604739300	TCBT/4-800/G- (5.5KW) *400V 50*	£1,051.07							S&P VFD-T 13A	£843.57
5604602100	TCBT/4-800/H- (7.5KW) *400V 50*	£1,099.41							S&P VFD-T 17A	£1,011.46

* REB 6 & 8 are fitted with a manual reset facility as required by BS 7671 for ducted fans to prevent automatic reset after the Thermal Protector has tripped. Use REB 6 instead of REB 1, 3 & 5 if no other method of manual reset is incorporated in the system*

TCBB / TCBT series

DOL Starter	Trade Prices	Wire Protection Guards (Inlet)	Trade Prices	Ancillary Packs	Trade Prices	Mounting Feet (Pair)	Trade Prices	Matching Range	Trade Prices	Flexible Connector	Trade Prices
											

		DEF-250 T	£11.78	SPANC-250	£120.79	PIE-250	£12.97	BRIDA-250	£22.27	ACOPEL F400-250 N	£20.07
		DEF-315 T	£12.10	SPANC-315	£132.87	PIE-315	£14.31	BRIDA-315	£25.82	ACOPEL F400-315 N	£22.79
		DEF-355 T	£14.15	SPANC-355	£144.94	PIE-355	£15.81	BRIDA-355	£27.62	ACOPEL F400-355 N	£23.26
		DEF-400 T	£15.57	SPANC-400	£157.02	PIE-400	£17.55	BRIDA-400	£29.43	ACOPEL F400-400 N	£33.74
		DEF-450 T	£17.66	SPANC-450	£169.10	PIE-450	£21.59	BRIDA-450	£34.61	ACOPEL F400-450 N	£36.15
		DEF-500 T	£19.72	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500	£36.78	ACOPEL F400-500 N	£38.60
		DEF-560 T	£32.68	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560	£43.26	ACOPEL F400-560 N	£40.68
		DEF-560 T	£32.68	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560	£43.26	ACOPEL F400-560 N	£40.68
		DEF-630 T	£36.88	SPANC-630	£205.34	PIE-630	£34.71	BRIDA-630	£49.04	ACOPEL F400-630 N	£56.10

MSD 0-25A	£227.62	DEF-250 T	£11.78	SPANC-250	£120.79	PIE-250	£12.97	BRIDA-250	£22.27	ACOPEL F400-250 N	£20.07
MSD 0-25A	£227.62	DEF-315 T	£12.10	SPANC-315	£132.87	PIE-315	£14.31	BRIDA-315	£25.82	ACOPEL F400-315 N	£22.79
MSD 0-25A	£227.62	DEF-355 T	£14.15	SPANC-355	£144.94	PIE-355	£15.81	BRIDA-355	£27.62	ACOPEL F400-355 N	£23.26
MSD 0-25A	£227.62	DEF-400 T	£15.57	SPANC-400	£157.02	PIE-400	£17.55	BRIDA-400	£29.43	ACOPEL F400-400 N	£33.74
MSD 0-25A	£227.62	DEF-450 T	£17.66	SPANC-450	£169.10	PIE-450	£21.59	BRIDA-450	£34.61	ACOPEL F400-450 N	£36.15
MSD 0-25A	£227.62	DEF-500 T	£19.72	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500	£36.78	ACOPEL F400-500 N	£38.60
MSD 0-25A	£227.62	DEF-560 T	£32.68	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560	£43.26	ACOPEL F400-560 N	£40.68
MSD 0-25A	£227.62	DEF-560 T	£32.68	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560	£43.26	ACOPEL F400-560 N	£40.68
MSD 0-25A	£227.62	DEF-630 T	£36.88	SPANC-630	£205.34	PIE-630	£34.71	BRIDA-630	£49.04	ACOPEL F400-630 N	£44.87
MSD 0-25A	£227.62	DEF-630 T	£36.88	SPANC-630	£205.34	PIE-630	£34.71	BRIDA-630	£49.04	ACOPEL F400-630 N	£44.87
MSD 0-25A	£227.62	DEF-710 T	£76.25	SPANC-710	£362.35	PIE-710	£141.32	BRIDA-710	£58.43	ACOPEL F400-710 N	£56.10
MSD 0-25A	£227.62	DEF-710 T	£76.25	SPANC-710	£362.35	PIE-710	£141.32	BRIDA-710	£58.43	ACOPEL F400-710 N	£56.10
MSD 0-25A	£227.62	DEF-800 T	£58.14	SPANC-800	£434.82	PIE-800	£144.17	BRIDA-800	£113.29	ACOPEL F400-800 N	£60.40
MSD 0-25A	£227.62	DEF-800 T	£58.14	SPANC-800	£434.82	PIE-800	£144.17	BRIDA-800	£113.29	ACOPEL F400-800 N	£60.40
MSD 0-25A	£227.62	DEF-800 T	£58.14	SPANC-800	£434.82	PIE-800	£144.17	BRIDA-800	£113.29	ACOPEL F400-800 N	£60.40
MSD 0-25A	£227.62	DEF-800 T	£58.14	SPANC-800	£434.82	PIE-800	£144.17	BRIDA-800	£113.29	ACOPEL F400-800 N	£60.40

ALL THREE PHASE MODELS - Accessories when controlling with a VFD

Model		Trade Prices	Model		Trade Prices	Model		Trade Prices
REB-CVF Off/On and speed control		£121.96	Preparation/ Cook Switch		£85.49	AV mounts (set of 4) KSE-45		£35.49

CONTRAFOIL™

CONTRA ROTATING AXIAL FLOW FANS

TCBBx2 / TCBTx2 series



PART L2: 2013
COMPLIANT

TCBBx2 / TCBTx2 SERIES

Range of cylindrical cased axial fans fitted with aluminium impellers and manufactured from highgrade rolled galvanised steel and protected against corrosion by cataforesis primer and black polyester paint finish.

Fitted with two contra rotating complementary impellers manufactured from die-cast aluminium.

All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access. Available with single or three phase 4 pole motors.

Motors

All the motors are IP65, Class F insulation (1), equipped with thermal protection. Single phase motors, except 630mm, are speed controllable but must be wired in three wire control. Three phase motors suitable for inverter control.

Electricity supply:

Single phase 230V-50Hz Three phase 230/400V-50Hz. (1) Working temperatures from -40°C up to 70°C

CONTRA ROTATING

high pressure axial fan



Contra Rotating:

High pressure contra rotating system with two complementary impellers allowing the duplication of the pressure with the same air volume.



Terminal box

Wiring terminal box with cable gland PG-11.

TCBBx2 / TCBTx2 series



Technical Data

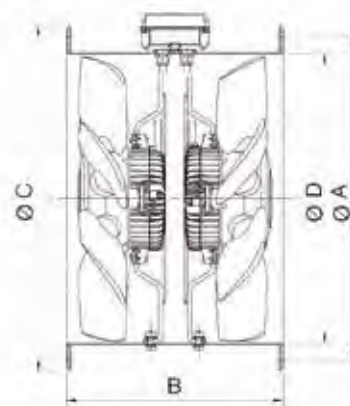
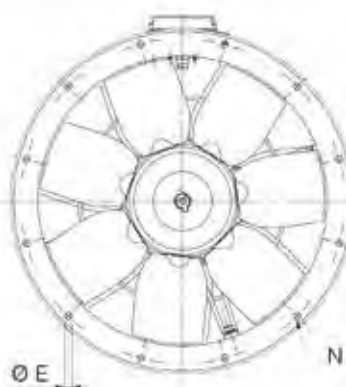
Before installation, check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

Model	Average Speed (r.p.m.)	Maximum Absorbed Power (W)	Maximum Absorbed Current** (A)		Sound Pressure Level* @ 3m(dB(A))	Maximum Air Volume (m3/s)	Weight (kg)	Speed Controller REB	Frequency Inverter S&P VFD	
			230V	400V					1-230V**	3-400V
SINGLE PHASE										
TCBBx2/4-450	1420	1316	5.7		67	2.06	42	REB-6		
TCBBx2/4-500L	1294	1255	6.5		68	2.30	50	REB-8		
TCBBx2/4-500	1425	1957	9.0		70.5	2.76	50	REB-10		
TCBBx2/4-560	1425	3185	14.2		73	3.93	66	REB-16		
TCBBx2/4-630	1400	3671	16.3		75	4.6	80			
THREE PHASE										
TCBTx2/4-450	1430	1309	5.2	3	67	2.01	42		S&P VFD-M10A	S&P VFD-T 5A
TCBTx2/4-500	1390	1700	5.8	3.3	70.5	2.61	50		S&P VFD-M10A	S&P VFD-T 5A
TCBTx2/4-560	1420	3173	10.0	5.6	73	3.91	66		S&P VFD-M10A	S&P VFD-T 6.8A
TCBTx2/4-630	1445	4014	12.8	7.4	75	4.95	80		S&P VFD-M16A	S&P VFD-T 9A

* Sound pressure level, measured in free field condition at a distance of 3m ** Only for fans fitted with three phase motors 230/400V.

TCBBX2 / TCBTX2 Dimensions (mm)

Model	ØA	B	ØC	ØD	ØE	Number of holes N
TCBBx2 (single phase)						
450	500	375	537	450	12	8
500L	560	375	595	500	12	12
500	560	520	595	500	12	12
560	620	520	655	560	12	12
630	690	520	725	630	12	12
TCBTx2 (Three phase)						
450	500	375	537	450	12	8
500	560	375	595	500	12	12
560	620	520	655	560	12	12
630	690	520	725	630	12	12



TCBBx2 / TCBTx2 series

Model	0 Pa	50 Pa	100 Pa	150 Pa	200 Pa	250 Pa	300 Pa	350 Pa	400 Pa	450 Pa	500 Pa	550 Pa	600 Pa
Airflow (m³/s) @ Static Pressure (Pa)													
SINGLE PHASE 4 POLE													
TCBBx2/4-450	2.070	2.005	1.938	1.868	1.790	1.701	1.601	1.497	1.379				
TCBBx2/4-500L	2.360	2.270	2.176	2.074	1.957	1.820	1.661	1.405					
TCBBx2/4-500	2.763	2.688	2.612	2.533	2.448	2.354	2.249	2.138	2.027	1.915	1.766		
TCBBx2/4-560	3.859	3.757	3.643	3.526	3.402	3.267	3.122	2.973	2.826	2.675	2.491		
TCBBx2/4-630	4.527	4.396	4.263	4.129	3.991	3.849	3.700	3.545	3.379	3.194	2.959	2.951	2.138
THREE PHASE 4 POLE													
TCBTx2/4-450	2.013	1.955	1.897	1.835	1.766	1.686	1.593	1.494	1.390				
TCBTx2/4-500	2.722	2.632	2.542	2.447	2.348	2.243	2.133	2.020	1.900	1.747			
TCBTx2/4-560	4.215	4.111	4.006	3.896	3.781	3.655	3.517	3.368	3.220	3.078	2.938	2.784	2.550
TCBTx2/4-630	4.991	4.893	4.792	4.683	4.561	4.427	4.290	4.150	4.006	3.856	3.699	3.527	3.324

Trade Prices

1PH > 3PH PACKAGED PRODUCTS

Order Code	Airflow @ Pressure (m³/s @ Pa)	Model ref. / Duct Connection Diameter (mm)	Inverter VFD 1Ph > 3Ph	Packaged Trade Prices
SINGLE-PHASE INPUT: 4 POLE FAN				
TCBTX2 Pack 1	1.77 @ 200	TCBTx2/4-450	2.2kW 230V 10A Max	£1,031.60
TCBTX2 Pack 2	2.24 @ 250	TCBTx2/4-500	2.2kW 230V 10A Max	£1,105.26
TCBTX2 Pack 3	3.65 @ 250	TCBTx2/4-560	3.7kW 230V 16A Max	£1,333.33
TCBTX2 Pack 4	4.42 @ 250	TCBTx2/4-630	3.7kW 230V 16A Max	£1,570.18

**ALL PACKS
3 YEAR WARRANTY**

TCBBx2 / TCBTx2 series

Code	Model	Trade Prices	Electronic Speed Controller	Trade Prices	Transformer Speed Controller	Trade Prices	Inverter Speed Controller IN: 1Ph 230V 50Hz OUT: 3Ph 230V 50Hz S&P VFD	Trade Price	Inverter Speed Controller IN: 3Ph 400V 50Hz OUT: 3Ph 400V 50H S&P VFD	Trade Price	DOL Starter	Trade Prices
												
SINGLE PHASE 4 POLE												
5605764700	TCBBx2/4-450	£792.80	REB-6	£121.06	REV-7N	£489.02						
5605385300	TCBBx2/4-500L	£842.76	REB-8	£211.08	REV-7N	£489.02						
5605766800	TCBBx2/4-500	£936.58	REB-10	£214.56	REV-10N	£643.18						
5605767200	TCBBx2/4-560	£1,050.73	REB-16	£336.66								
5605765200	TCBBx2/4-630	£1,342.47										
THREE PHASE 4 POLE												
5605765000	TCBTx2/4-450	£836.26					VFD-M 10A	£489.25	VFD-T 5A	£565.47	MSD 0-25A	£227.62
5605766600	TCBTx2/4-500	£906.12					VFD-M 10A	£489.25	VFD-T 5A	£565.47	MSD 0-25A	£227.62
5605766700	TCBTx2/4-560	£1,085.49					VFD-M 16A	£596.37	VFD-T 6.8A	£613.88	MSD 0-25A	£227.62
5605772900	TCBTx2/4-630	£1,234.78					VFD-M 16A	£596.37	VFD-T 9A	£701.43	MSD 0-25A	£227.62

Model	Ancillary Packs	Trade Prices	Mounting Feet (Pair)	Trade Prices	Matching Flange	Trade Prices	Flexible Connector	Trade Prices	AV Mounts (Set of 4)	Trade Prices
										
SINGLE PHASE 4 POLE										
TCBB / T x2/4-450	SPANC-450	£169.10	PIE-450	£21.59	BRIDA-450 Flange	£34.61	ACOPEL F400 450 N	£36.15	KSE-45	£35.49
TCBBx2/4-500L	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500 Flange	£36.78	ACOPEL F400 500 N	£38.60	KSE-45	£35.49
TCBB / T x2/4-500	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500 Flange	£36.78	ACOPEL F400 500 N	£38.60	KSE-45	£35.49
TCBB / T x2/4-560	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560 Flange	£43.26	ACOPEL F400 560 N	£40.68	KSE-45	£35.49
TCBB / T x2/4-630	SPANC-630	£205.34	PIE-630	£34.71	BRIDA-630 Flange	£49.04	ACOPEL F400 630 N	£44.87	KSE-45	£35.49
THREE PHASE 4 POLE										
TCBB / T x2/4-450	SPANC-450	£169.10	PIE-450	£21.59	BRIDA-450 Flange	£34.61	ACOPEL F400 450 N	£36.15	KSE-45	£35.49
TCBBx2/4-500L	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500 Flange	£36.78	ACOPEL F400 500 N	£38.60	KSE-45	£35.49
TCBB / T x2/4-500	SPANC-500	£181.18	PIE-500	£22.68	BRIDA-500 Flange	£36.78	ACOPEL F400 500 N	£38.60	KSE-45	£35.49
TCBB / T x2/4-560	SPANC-560	£193.25	PIE-560	£28.70	BRIDA-560 Flange	£43.26	ACOPEL F400 560 N	£40.68	KSE-45	£35.49
TCBB / T x2/4-630	SPANC-630	£205.34	PIE-630	£34.71	BRIDA-630 Flange	£49.04	ACOPEL F400 630 N	£44.87	KSE-45	£35.49

* REB 6 & 8 are fitted with a manual reset facility as required by BS 7671 for ducted fans to prevent automatic reset after the Thermal Protector has tripped. Use REB 6 instead of REB 1, 3 & 5 if no other method of manual reset is incorporated in the system*

SUPPLY AIR HANDLING UNIT

CAIB/T Pro - Reg series



SUPPLY AIR HANDLING UNIT

complete with plug and play control



PART L2: 2013
COMPLIANT

CAIB/T Pro - Reg SERIES

Introduction of fresh air to commercial offices and industrial kitchens. Acoustic cabinet fan in galvanised sheet steel with reinforced insulation by:

Double skin panels of 50mm. Rockwood insulated.

Complete with mounting feet.

Inline duct connection with rectangular connectors.

M5 filter integrated inside the cabinet.

Additional filters available.

Safety protection on the access cover for application where the cabinet fan is fixed into the ceiling.

Direct drive backward Plug-fan with integrated EC motor.

Impeller in galvanised steel.

Range

7 models with airflows from 0.28 to 3.33 m³/s. Operation with complete electronic control.

Versions (dependent on model):

- Electric heater.
- Hot water coil.
- Reversible water coil.
- Hot water coil + cold water coil.
- Direct Expansion coil.

Motors

- Direct drive Plug fans with EC motor.
- Single-phase or three-phase motor with thermal protection managed by electronics:

- CAIB/T PRO-REG 10/20: Single-phase 230V (200-277V), 50/60Hz, IP44, class B.
- CAIB/T PRO-REG 30: Single-phase 230V (200-277V), 50/60Hz, IP 54, class B.
- CAIT PRO-REG 40: Three-phase 400V (380-480V), 50/60Hz, IP 54, class B.
- CAIT -48: Three-phases 400V 50/60Hz, IP 54, class B.
- CAIT -88/120: Three-phases 400V 50/60Hz, IP 54, class F.

Control

Includes manual or automatic control in modes: variable air volume system (VAV), constant pressure (COP) or constant air volume (CAV), through CO₂ sensors or pressure (accessories). Post-heating management controlled by the temperature probes in the unit.

Remote control included. Integrable into Modbus RS485 and BacNet TCP / IP communication networks.

Other characteristics

Temperature range of treated air from -25°C up to + 40°C

Sizes 10 - 40

Installed both indoors and outdoors

Models with water coil include the supply of the corresponding regulating valves.

Sizes 48 - 120

“OI” version available for outdoor installation.

Water valves are not included, their selection is made depending on the water side data.

CAIB/T Pro - Reg series

	Sizes 10/20/30/40					Sizes 48/88/120					
	E6...E30 Electric Battery	H3 Hot Water Coil	C4 Cold Water Coil	R3 Reversible Water Coil	H3 H4 Hot and Cold Water Coils	E9...E105 Electric Battery	H2/H3 Hot Water Coil	C3/C4 Cold Water Coil	R3/R4 Reversible Water Coil	H2 C3/H3 C4 Hot and Cold Water Coils	(X3/X4) DX coil
MAIN ELEMENTS											
Control Panel includes:											
General proximity switch over the electrical box	•	•	•	•	•	•	•	•	•	•	•
Terminal connexion and regulator inside the electrical box.	•	•	•	•	•	•	•	•	•	•	•
FUNCTIONALITIES											
Airflow adjustments											
Constant or fixed airflow (CAV mode), up to 2 different airflow configurations.	•	•	•	•	•	•	•	•	•	•	•
Adjustable airflow according to 0-10V external signal or via remote control.	•	•	•	•	•	•	•	•	•	•	•
Airflow management depending on time schedules (clock)	•	•	•	•	•	•	•	•	•	•	•
BOOST function via external contact	•	•	•	•	•	•	•	•	•	•	•
STOP function via external contact	•	•	•	•	•	•	•	•	•	•	•
Temperature regulation:											
Fresh air temperature probe	•	•	•	•	•	•	•	•	•	•	•
Supply air temperature probe	•	•	•	•	•	•	•	•	•	•	•
Water anti-freeze temperature probe installed on the coil		•	•	•	•		•	•	•	•	•
Room temperature probe TG-A1 PT1000		O	O	O	O						
Defrost temperature probe PT1000		•	•	•	•						
CHANGE OVER thermostat to be installed on the water supply coil				•					•		
Fresh air damper servomotor management (optional)	•	•	•	•	•	•	•	•	•	•	•
Battery regulation:											
Fresh air temperature probe TG/K3 PT1000	•	•	•	•	•						
TGK3 PT1000 extract air or TGRS PT1000 ambient air temp sensor						O	O	O	O	O	O
Supply temperature probe TG/K3 PT1000	•	•	•	•	•						
Adjustments of internal electric batteries:											
Proportional regulation of the post-heating electrical battery power	•					•					
Control of an external electrical heater (accessory):											
Proportional control of the electrical heater power by a 0-10V signal						O	O	O	O	O	O
Regulation of internal water coil (or coils):											
3-way motorised valve damper- 0-10V proportional provided not fitted		•	•	•	•		•	•	•	•	*
Power adjustment by activating 3-way-damper		•	•	•	•						
Security functions											
Clogged filters signal	•	•	•	•	•	•	•	•	•	•	•
Failure on the temperature probe	•	•	•	•	•	•	•	•	•	•	•
Fan failure	•	•	•	•	•	•	•	•	•	•	•
The setpoint cannot be achieved (airflow, pressure, temperature)	•	•	•	•	•	•	•	•	•	•	•
Fire alarm via contact related to a external fire detection system	•	•	•	•	•	•	•	•	•	•	•
Alarm of communication between the controller and the remote control	•	•	•	•	•	•	•	•	•	•	•
Frost risk control on the water coil (opening of the damper, fan stops when water temperature decreases below 7° in heating mode)		•		•	•		•		•	•	
Alarm history	•	•	•	•	•	•	•	•	•	•	•
Communication											
Remote control with touch graphic display (ETD)	•	•	•	•	•	•	•	•	•	•	•
MODBUS RTU standard (RS485)	•	•	•	•	•	•	•	•	•	•	•
BACNET in TCP/IP port	•	•	•	•	•	•	•	•	•	•	•
Webserver application in TCP/IP port	•	•	•	•	•	•	•	•	•	•	•

• Included O Optional * Direct expansion coil taken into account

The control of the direct expansion coil must be managed by the direct expansion unit, coordinated by a 0-10V signal proportional to a warm or cold need.

The Corigo controller has a signal input for DX group defrosting, to stop the ventilation in this case.

CAIB/T Pro - Reg series

Electrical 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.

Units with electric battery (E6 to E30)

	Complete Unit			Fan			Electric Heater		
	Power supply	P. Total (kW)	Maximum Abs. Current (A)	RPM Maximum	P. Abs. Maximum (W)	Maximum Current (A)	Number of Stages	Stage Power (kW)	Total Heating Power (kW)
CAIB-10 E6 PRO-REG	1/230V, 50Hz	7	29	2649	193	1.5	2	3	6
CAIT-10 E9 PRO-REG	3+N/400V, 50Hz	10	15	2649	193	1.5	3	3	9
CAIT-20 E9 PRO-REG	3+N/400V, 50Hz	10	14	2850	415	1.8	3	3	9
CAIT-20 E15 PRO-REG	3+N/400V, 50Hz	16	25	2850	415	1.8	3	5	15
CAIT-30 E9 PRO-REG	3+N/400V, 50Hz	10	17	2800	715	3.1	3	3	9
CAIT-30 E15 PRO-REG	3+N/400V, 50Hz	17	26	2800	715	3.1	3	5	15
CAIT-30 E24 PRO-REG	3+N/400V, 50Hz	26	40	2800	715	3.1	3	3+5	24
CAIT-40 E15 PRO-REG	3+N/400V, 50Hz	17	24	2580	1000	1.63	3	5	15
CAIT-40 E30 PRO-REG	3+N/400V, 50Hz	33	47	2580	1000	1.63	6	5	30
CAIT-48 M5 E9 PRO-REG	3+N/400V, 50Hz	11	15	2140	1000	1.7	3	3	9
CAIT-48 M5 E27 PRO-REG	3+N/400V, 50Hz	30	43	2140	1000	1.7	9	3	27
CAIT-48 M5 E45 PRO-REG	3+N/400V, 50Hz	48	70	2140	1000	1.7	15	3	45
CAIT-88 M5 E30 PRO-REG	3+N/400V, 50Hz	34	50	2040	2730	4.2	6	5	30
CAIT-88 M5 E60 PRO-REG	3+N/400V, 50Hz	66	95	2040	2730	4.2	12	5	60
CAIT-88 M5 E90 PRO-REG	3+N/400V, 50Hz	97	141	2040	2730	4.2	18	5	90
CAIT-120 M5 E45 PRO-REG	3+N/400V, 50Hz	53	78	1500	5700	9	9	5	45
CAIT-120 M5 E75 PRO-REG	3+N/400V, 50Hz	85	123	1500	5700	9	15	5	75
CAIT-120 M5 E105 PRO-REG	3+N/400V, 50Hz	116	169	1500	5700	9	21	5	105

Units with heating water coil H2/H3

	Complete Unit			Fan		
	Power Supply	P. Total (kW)	Maximum. Abs. Current (A)	RPM Maximum P. Abs.	P. Abs. Maximum (W)	Maximum Current (A)
CAIB-10 H3 PRO-REG	1/230V, 50Hz	0.2	2	2649	193	1.5
CAIB-20 H3 PRO-REG	1/230V, 50Hz	0.4	2	2850	415	1.8
CAIB-30 H3 PRO-REG	1/230V, 50Hz	1	3	2800	715	3.1
CAIT-40 H3 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1.63
CAIT-48 M5 H3 PRO-REG	3/400V, 50Hz	1.2	2	2140	1000	1.7
CAIT-88 M5 H3 PRO-REG	3/400V, 50Hz	3	4.5	2040	2730	4.2
CAIT-120 M5 H3 PRO-REG	3/400V, 50Hz	6	9	1500	5700	9

Units with cooling water coil C3/C4

	Complete Unit			Fan		
	Power Supply	P. Total (kW)	Maximum. Abs. Current (A)	RPM Maximum P. Abs.	P. Abs. Maximum (W)	Maximum Current (A)
CAIB-10 C4 PRO-REG	1/230V, 50Hz	0.2	2	2649	193	1.5
CAIB-20 C4 PRO-REG	1/230V, 50Hz	0.4	2	2850	415	1.8
CAIB-30 C4 PRO-REG	1/230V, 50Hz	1	3	2800	715	3.1
CAIT-40 C4 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1.63

CAIB/T Pro - Reg series

Units with reversible water coil R3

	Complete Unit			Fan		
	Power Supply	P. Total (kW)	Maximum. Abs. Current (A)	RPM Maximum P. Abs.	P. Abs. Maximum (W)	Maximum Current (A)
CAIB-10 R3 PRO-REG	1/230V, 50Hz	0.2	2	2649	193	1.5
CAIB-20 R3 PRO-REG	1/230V, 50Hz	0.4	2	2850	415	1.8
CAIB-30 R3 PRO-REG	1/230V, 50Hz	1	3	2800	715	3.1
CAIT-40 R3 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1.63
CAIT-48 M5 R4 PRO-REG	3/400V, 50Hz	1.2	22	2140	1000	1.7
CAIT-88 M5 R4 PRO-REG	3/400V, 50Hz	3	4.5	2040	2730	4.2
CAIT-120 M5 R3 PRO-REG	3/400V, 50Hz	6	9	1500	5700	9

Units with heating water coil and cooling water coil H3 C4

	Complete Unit			Fan		
	Power Supply	P. Total (kW)	Maximum. Abs. Current (A)	RPM Maximum P. Abs.	P. Abs. Maximum (W)	Maximum Current (A)
CAIB-10 H3 C4 PRO-REG	1/230V, 50Hz	0.2	2	2649	193	1.5
CAIB-20 H3 C4 PRO-REG	1/230V, 50Hz	0.4	2	2850	415	1.8
CAIB-30 H3 C4 PRO-REG	1/230V, 50Hz	1	3	2800	715	3.1
CAIT-40 H3 C4 PRO-REG	3+N/400V, 50Hz	1	2	2580	1000	1.63
CAIT-48 M5 H3 C4 PRO-REG	3/400V, 50Hz	1.2	2	2140	1000	1.7
CAIT-88 M5 H3 C4 PRO-REG	3/400V, 50Hz	3	4.5	2040	2730	4.2
CAIT-120 M5 H2 C3PRO-REG	3/400V, 50Hz	6	9	1500	5700	9

Units with direct expansion coil X2 X3

	Complete Unit			Fan		
	Power Supply	P. Total (kW)	Maximum. Abs. Current (A)	RPM Maximum P. Abs.	P. Abs. Maximum (W)	Maximum Current (A)
CAIT-48 M5 X3 PRO-REG	3/400V, 50Hz	1.2	2	2140	1000	1.7
CAIT-88 M5 X2 PRO-REG	3/400V, 50Hz	3	4.5	2040	2730	4.2
CAIT-120 M5 X2 PRO-REG	3/400V, 50Hz	6	9	1500	5700	9

Model	Nominal Airflow m3/s
10	0.28
20	0.56
30	0.83
40	1.11
48	1.39
88	2.5
120	3.33

LOW-PROFILE AIR HANDLING UNITS

UTBS Pro-Reg series



EXTREMELY LOW-PROFILE

double skinned integrated control supply air handling unit.



Coils management
Versions equipped with coils allow the management of the chilled/hot water via temperature probes included in the unit.



Clamping system
Via articulated arm, that allows maximum tightness of the filtering section.



Robust construction
High quality finishing with aluminium profile structure, providing a robust and tight assembly.



PART L2: 2013
COMPLIANT

UTBS Pro-Reg SERIES

There are 4 different sizes to move airflows from 0.14 to 2.22 m³/s:

- UTBS-2: Flow rates from 0.14 to 0.60 m³/s and 360 mm product height.
- UTBS-3: Flow rates from 0.33 to 1.22 m³/s and 410 mm product height.
- UTBS-5: flow rates from 0.66 to 1.67 m³/s and 410 mm product height.
- UTBS-8: Flow rates from 1.11 to 2.22 m³/s and 500 mm product height.

Main module composed of 3 sections; filtration, batteries and fan.

- Filtration section with two alternatives:
- Long version P F7 with capacity for mounting two filters: F7 with very low built-in pressure drop and possibility of mounting a second filter (supplied as an accessory).
- M5 short version with the ability to fit a single M5 filter.
- Batteries section with option to equip water batteries, direct expansion or electric support resistors.
- Fan section, allows the air outlet to be oriented upwards or frontally, by exchanging the front and upper panels.

Available in a version with perimeter base and roofing (accessories) to be installed outdoors. Minimum ambient temperature -10°C.

Components / Modules

- Silencers
- Mixing box

Other configurations available through the treatment unit selection program.

Control

UTBS Pro-Reg includes integral operating control.

It includes manual or automatic control of the fan for VAV, CAV or COP modes:

VAV- variable air volume

Fan speed can be adjusted via analogue 0-10V signal.

CAV - constant air volume

Fan speed can be adjusted to allow a constant airflow.

COP - constant pressure

Fan speed can be adjusted to maintain a constant pressure in the ducting system.

UTBS Pro-Reg series



Fans

Built-in Plug-fans with backward curved impeller controlled via frequency converter.



Integrated control

Integrated electronic control, inside the unit.



Heater Batteries

Possibility of integrating water or expansion coils and electric batteries.



Condensate drip tray

Versions with stainless steel water and direct expansion coils with side outlet.



Easy access to filters

Access to change the filters by the side or bottom panel.

Two filtering options:

- Long version P F7 with capacity for mounting two filters: F7 with very low built-in pressure drop and possibility of mounting a second filter (supplied as an accessory). The filter clamping system with articulated arms ensures excellent sealing of the filter assembly.
- M5 short version with the ability to fit a single M5 filter mounted by means of a guide system without filter clamping devices.

UTBS Pro-Reg series

Units with electrical coil

	Complete Unit				Fan			Electric Heater	
	Rectangular Duct Connection (mm)	Maximum Airflow (m³/s)	Power Supply	Maximum Abs. Current (A)	Quantity	Power* (kW)	Maximum Current of Each Fan (A)	Heating Power (kW)	Maximum Current (A)
UTBS-2 PRO-REG	690 x 300	0.51	3F+N/400V, 50Hz	9.2 25.3	1	0.46	2.0	4.5 15	6.9 23
UTBS-3 PRO-REG	1040 x 350	0.97	3F+N/400V, 50Hz	13.4 27.2 40.7	2	0.9	2.0	6 15 24	9.2 23 36.5
UTBS-5 PRO-REG	1440 x 350	1.47	3F+N/400V, 50Hz	21.5 30.8 62.5	2	1.7	3.8	9 15 36	13.7 23 54.7
UTBS-8 PRO-REG	1840 x 440	2	3F+N/400V, 50Hz	27.0 40.5 72.5	2	2	1.9	15 24 45	23 36.5 68.5

Units with heat water coil

	Complete Unit				Fan			Water Coil H2	Water Coil H4
	Rectangular Duct Connection (mm)	Maximum Airflow (m³/s)	Power Supply	Maximum Abs. Current (A)	Quantity	Power* (kW)	Maximum Current of Each Fan (A)	Heating Power (kW)	Maximum Current (A)
UTBS-2 PRO-REG	690 x 300	0.5	1F /230V, 50Hz	2.3	1	0.46	2.0	10 - 14.4	22.7 - 15.5
UTBS-3 PRO-REG	1040 x 350	0.9	1F /230V, 50Hz	4.2	2	0.9	2.0	20.9 - 30.5	46.8 - 31.9
UTBS-5 PRO-REG	1440 x 350	1.39	1F /230V, 50Hz	7.8	2	1.7	3.8	29.4 - 42.7	66.6 - 45.2
UTBS-8 PRO-REG	1840 x 440	1.92	3F+N/400V, 50Hz	4.0	2	2	1.9	49.8 - 72.5	111.5 - 76.1

Units with cool water coil

UTBS-2 PRO-REG	690 x 300	0.36	1F /230V, 50Hz	2.3	1	0.46	2.0	10	11.9
UTBS-3 PRO-REG	1040 x 350	0.72	1F /230V, 50Hz	4.2	2	0.9	2.0	20.5	23.3
UTBS-5 PRO-REG	1440 x 350	1.04	1F /230V, 50Hz	7.8	2	1.7	3.8	29.6	38.4
UTBS-8 PRO-REG	1840 x 440	1.6	3F+N/400V, 50Hz	4.0	2	2	1.9	48.2	64.8

Ventilation section

The UTBS-2 model incorporates a fan, while the UTBS-3, 5 and 8 models have two. Each model has associated a certain size of fan and motor. The integrated controller makes it possible to adapt the working point to the needs of each installation, obtaining a high efficiency at the required working point.

	Maximum Airflow (m³/s)			Fans				
	Chilled Water Coil/DX	Hot Water Coil	Electrical Coil	Quantity	Supply Voltage	Sound Pressure Level (r.p.m.)	Motor Power (kW)	Maximum Current* (A)
UTBS-2	0.36	0.60	0.60	1	230/1/50	2850	0.45	2
UTBS-3	0.72	1.11	1.11	2	230/1/50	2850	2 x 0.45	3.9
UTBS-5	1.04	1.61	1.61	2	230/1/50	2830	2 x 0.85	7.2
UTBS-8	1.70	2.22	2.22	2	400/3/50	2600	2 x 1	3.6

* In units with two fans, the value corresponds to the sum of both fans.

UTBS Pro-Reg series

Coil section

Water coils

One or two water coils can be included in the section. (one heating or one cooling coil or both at the same time). The units can be supplied with 2 or 4 rows for heating coils and 4 or 6-row for cooling coils. If the unit includes a cooling coil it is always supplied as a standard with condensate drip tray made from stainless steel AISI 304 and a droplet eliminator. The connections of the water coil and the drip tray can be ordered on left side or right side of the unit.

Model	Airflow (m³/s)	Coils Thermal Power (kW)						Inlet/Outlet Connections
		Hot Water Coil				Chilled Water Coil		
		H2		H4		C4	C6	
		80°C/60°C	50°C/45°C	80°C/60°C	50°C/45°C	7°C/12°C	7°C/12°C	
UTBS-2	0.25	11.9	8.3	18.2	22.7	8.1	9.6	1-1/4” GM
	0.33	14.4	10.0	22.7	15.5	10.0	11.9	
UTBS-3	0.47	23.5	16.0	34.7	23.5	15.5	20.0	1-1/4” GM
	0.69	30.5	20.9	46.8	31.9	20.5	23.3	
UTBS-5	0.69	33.9	23.3	51.2	34.7	23.2	29.2	1-1/4” GM
	0.97	42.7	29.4	66.6	45.2	29.6	38.4	
UTBS-8	1.11	55.0	37.7	81.4	55.4	36.0	46.8	1-1/2” GM
	1.66	72.5	49.8	111.5	76.1	48.2	64.8	

*Air inlet temperature: -5°C, Rel. Hum: 80% **Air inlet temperature: 32°C, Rel. Hum: 50%

Electric heaters

The unit can be supplied with electric heaters made of shielded resistances with a galvanised sheet frame. The heaters are equipped with safety protection with manual and automatic reset. The heater has an anti-radiation screen to protect the filters.

Model	Available Electric Power / Stages					
UTBS-2	E4,5	4,5 kW/ 1	E15	15,0 kW/ 2		
UTBS-3	E6	6,0 kW/ 1	E15	15,0 kW/ 2	E24	24,0 kW/ 2
UTBS-5	E9	9,0 kW/ 2	E15	15,0 kW/ 2	E36	36,0 kW/ 3
UTBS-8	E15	15,0 kW/ 2	E24	24,0 kW/ 2	E45	45,0 kW/ 3

Direct expansion coil (DX)

The unit can be supplied with expansion direct coils for R-410A gas. Compatible with the main control kits of the market.

4 rows coil - For applications with 100% recirculated air.

Cooling

Model	Airflow (m³/s)	Volume (dm³)	N° Stages	Ø Distributor (Liquid Line)	Ø Colector (Gas Line)	Power* (kW)	Supply Air Temp. (°C)	Rel. Hum. (%)	R410A Airflow (kg/h)	ΔP R410A (kPa)	Power** (kW)	Supply Air Temp. (°C)	Rel. Hum. (%)	R410A Airflow (kg/h)	ΔP R410A (kPa)
UTBS-2	0.35	1.2	1	3/8"	5/8"	4.6	14.2	87	84.6	14.9	4.9	32.7	25	87.9	9.6
UTBS-3	0.69	2.21	1	1/2"	5/8"	8.8	14.4	87	163.3	13.0	8.0	33.6	28	143.4	6.1
UTBS-5	0.97	2.41	1	1/2"	5/8"	10.9	15.2	85	200.0	10.9	10.0	32.7	30	180.2	5.1
UTBS-8	1.67	4.4	1	1/2"	5/8"	19.9	14.9	86	368.3	22.1	17.2	32.7	30	310.1	8.8

*Air Inlet 24°C / 50%R.H. **Air Inlet 21°C / 50%R.H.

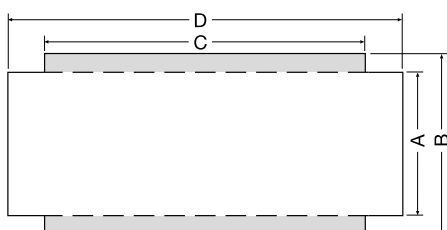
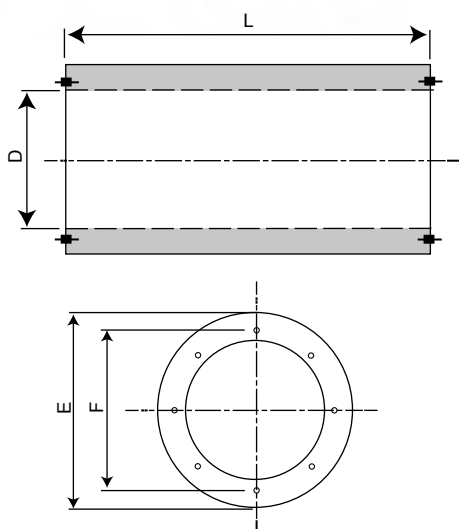
6 rows coil - For applications with 50% outdoor air/ 50% recirculated air

						Cooling					Heating				
UTBS-2	1.250	2	1	1/2"	5/8"	10.0	14.5	94	185.3	8.6	10.5	34.4	17	190.5	5.1
UTBS-3	2.500	3.31	1	1/2"	5/8"	19.4	14.9	94	358.6	25.3	19.9	30.8	18	359.0	13.7
UTBS-5	3.500	4.3	1	1/2"	3/4"	26.6	15.2	94	490.5	18.6	27.6	30.6	18	498.0	10.3
UTBS-8	6.000	8.4	2	2 x 1/2"	2x 3/4"	47.8	14.6	94	882.0	25.3	49.8	31.8	17	897.0	12.3

*Air Inlet 29°C / 55%R.H. **Air Inlet 8°C / 75%R.H.

INSTALLATION ACCESSORIES

SIL ATTENUATORS



Infill protected by Melinex polyester film

Casing pre-galvanised sheet steel Z200 of thickness 0.8mm.
Mounting flange with threaded insert.

	Model	Trade Prices
L0111000000699	SIL-CZ M 450-450 Bolted Melinex Lined Silencer	£372.83
L0111000000700	SIL-CZ M 500-500 Bolted Melinex Lined Silencer	£434.22
L0111000000701	SIL-CZ M 560-560 Bolted Melinex Lined Silencer	£506.17
L0111000000702	SIL-CZ M 630-630 Bolted Melinex Lined Silencer	£567.97
L0111000000703	SIL-CZ M 710-710 Bolted Melinex Lined Silencer	£703.35
L0111000000704	SIL-CZ M 800-800 Bolted Melinex Lined Silencer	£853.43

TYPE SIL-CZ-M	D (mm)	E (mm)	F (mm)	Holes		L (mm)
				No.	Type	
SIL-CZ-M-450-450	450	600	500	8	M10	450
SIL-CZ-M-500-500	500	650	560	12	M10	500
SIL-CZ-M-560-560	560	710	620	12	M10	560
SIL-CZ-M-630-630	630	780	690	12	M10	630
SIL-CZ-M-710-710	710	860	770	16	M10	710
SIL-CZ-M-800-800	800	950	860	16	M10	800

SIL Spigotted Version

Sound attenuator to reduce noise transmission to ducting system.
In galvanized steel. Stainless steel version available on request.

	Model	Trade Prices
L0111000000695	SIL-M 355-320 Spigotted Melinex Lined Silencer	£260.62
L0111000000696	SIL -M 400-465 Spigotted Melinex Lined Silencer	£286.31
L0111000000697	SIL- M 450-465 Spigotted Melinex Lined Silencer	£303.12
L0111000000698	SIL-M 500-465 Spigotted Melinex Lined Silencer	£341.37

TYPE SIL-M	Dia. A (mm)	Dia. B (mm)	C (mm)	D (mm)
SIL-M-355-320	355	460	320	396
SIL-M-400-465	400	505	465	541
SIL-M-450-465	450	555	465	541
SIL-M-500-465	500	605	465	541

INSTALLATION ACCESSORIES

HOT WATER COILS



MBW series

Range of connection diameters, 100 to 500mm.

Galvanised steel housing.

Heaters with copper pipes and aluminium fins.

Removable side for maintenance purposes.

Can be mounted horizontally or vertically.

Connections with watertight seals.

Connection must be made between the heater and the hot water circuit.

Maximum pressure: 10 bar.

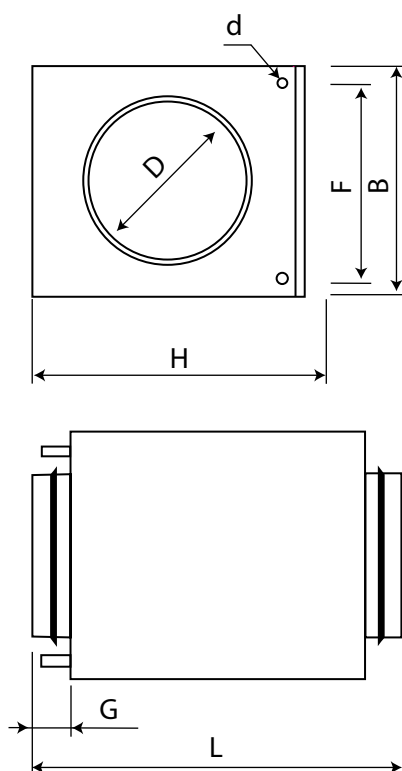
Maximum temperature: 100°C.

Shut-off valves must be installed on each water connection, so that the unit can be isolated if necessary (for cleaning filters, repairs etc) without the need to drain the entire circuit.

MBW Control Panel

MBW Control Panel has been specifically designed to Control LPHW & Chilled Water Coils (Valve & Actuator available upon request).

	Model	Trade Prices
L0111000000859	MBW Control Panel	£570.62



Model	D	B	H	d	F	G	L
MBW-100	100	183	225	10	140	40	380
MBW-125	125	183	225	10	140	40	380
MBW-160	160	258	305	10	215	40	380
MBW-200	200	258	305	10	215	40	380
MBW-250	250	333	385	22	290	40	380
MBW-315	315	408	460	22	365	40	380
MBW-355	355	479	534	22	400	65	430
MBW-400	400	479	534	22	400	65	465
MBW-450	450	529	685	22	425	65	465
MBW-500	500	529	685	22	425	65	465

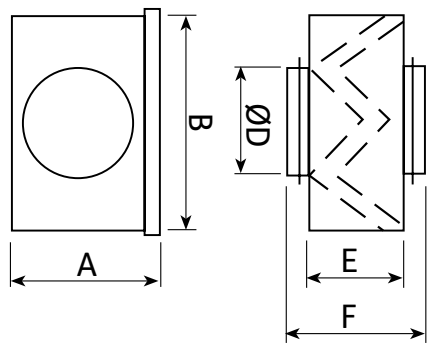
INSTALLATION ACCESSORIES

FILTERS



MFL Filter

Filtration box, provided with MFR-G4 filter of G4 gravimetric type (UNE-EN 779:3003), able to filter more than 90% of particles bigger than 10 microns.
Suitable to mount outdoors.
Manufactured in galvanized steel.
Circular flanges with tightness joint.
Cover easily removable to quickly replace the filter.



Model	A	B	Ø D	E	F	Trade Prices
MFL-100 G4	206	229	100	154	212	£75.54
MFL-125 G4	206	229	125	154	218	£77.78
MFL-150 G4	206	229	150	154	218	£95.01
MFL-160 G4	206	229	160	154	218	£95.01
MFL-200 G4	246	269	200	154	218	£101.54
MFL-250 G4	296	319	250	154	248	£142.60
MFL-315 G4	346	369	315	154	248	£166.33
MFL-355 G4	446	469	355	154	248	£168.53
MFL-400 G4	446	469	400	154	248	£171.86
MFL-450 G4	546	569	450	154	248	£210.87
MFL-500 G4	546	569	500	154	248	£226.05
MFL-560 G4	606	629	560	154	248	£248.48
MFL-630 G4	666	689	630	154	248	£280.36

INSTALLATION ACCESSORIES

ELECTRIC HEATERS

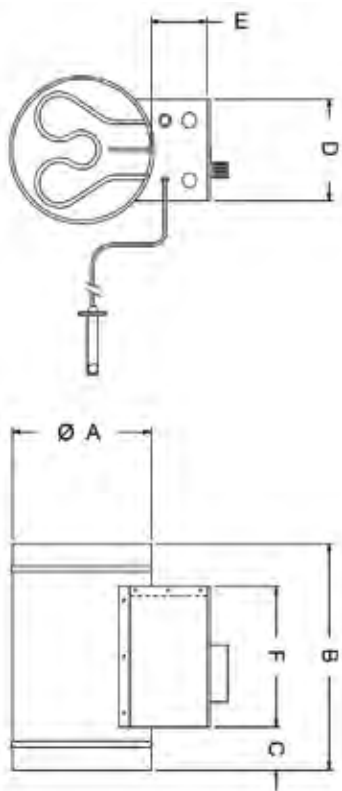


Electric Heater

Standard heaters with sheathed elements and fail-safe manual reset high limit.

Heaters with TC3 thyristor pulse control: set point and DTFS combined airflow & temperature sensor. (No. 0-10v DC input from BMS, fused fan outputs or run on timer).

	Model	Trade Prices
L0111000000720	MBE-R 355-9Kw Thyristor Heater Temp Controller 240v 1ph	£1,238.06
L0111000000735	MBE-R 400-18Kw Thyristor Heater Temp Controller 415v 3ph	£1,439.94
L0111000000745	MBE-R 450-24Kw Thyristor Heater Temp Controller 415v 3ph	£1,594.44
L0111000000757	MBE-R 500-27Kw Thyristor Heater Temp Controller 415v 3ph	£1,701.56



Model	A	B	C	D	E	F
MBE-R 355-9Kw Thyristor Heater Temp Controller 240v 1ph	355	400	75	180	100	250
MBE-R 400-18Kw Thyristor Heater Temp Controller 415v 3ph	400	400	75	180	100	250
MBE-R 450-24Kw Thyristor Heater Temp Controller 415v 3ph	450	500	75	250	135	350
MBE-R 500-27Kw Thyristor Heater Temp Controller 415v 3ph	500	500	75	250	135	350

CONTROL AND ELECTRICAL ACCESSORIES

VARIABLE FREQUENCY INVERTERS



S&P UK Digital Inverter VFD IP54 Range

For three phase motors up to 4 kW.
IP54 case.

Integral heatsink and cooling fan.

Simple to set-up and operate.

Voltage supplies:

Single-phase 230V-50/60Hz for

S&P VFD-M 10A IP54 (1-PH)

S&P VFD-M 16A IP54 (1-PH)

Three-phase 400V-50/60Hz for

S&P VFD-T 5A IP54 (3-PH)

S&P VFD-T 6.8A IP54 (3-PH)

Motor kW protection programmable by a single parameter.

Power on and drive status indication.

Speed selection with UP/DOWN keys.

Run/Fault relay output contacts.

Motor overload and shortcut protections.

PERFORMANCE DATA

Model	Motor Power (kW)	Maximum Current (A)	Weight (Kg)
Single-phase supply 230V-50/60Hz, Three-phase output			
S&P VFD-M 10A IP54 (1-PH)	2.2	10	2.25
S&P VFD-M 16A IP54 (1-PH)	3.7	16	2.75
Three-phase supply 400V-50/60Hz, Three-phase output			
S&P VFD-T 5A IP54 (3-PH)	2.2	5	2.25
S&P VFD-T 6.8A IP54 (3-PH)	3	6.8	2.28
S&P VFD-T 9A IP54 (3-PH)	4	9	2.75
S&P VFD-T 13A IP54 (3-PH)	5.5	13	2.78
S&P VFD-T 17A IP54 (3-PH)	7.5	17	2.8

VARIABLE FREQUENCY INVERTERS

Code	Model	Trade Prices
L1000000662	S&P VFD-M 10A IP54 (1-PH)	£489.25
L1000000663	S&P VFD-M 16A IP54 (1-PH)	£596.37
L1000000664	S&P VFD-T 5A IP54 (3-PH)	£565.47
L1000000665	S&P VFD-T 6.8A IP54 (3-PH)	£613.88
L1000000678	S&P VFD-T 9A IP54 (3-PH)	£701.43
L1000000679	S&P VFD-T 13A IP54 (3-PH)	£843.57
L1000000680	S&P VFD-T 17A IP54 (3-PH)	£1,011.46



Preparation/Cook Switch

Remote control ON/OFF +

Selector Switch to toggle between "Prep / Cook" speeds defined on installation.

For use with all S&P Inverters.

Dimensions – 86 W x 85 H x 65 D

Model	Trade Prices
Preparation/ Cook Switch	£85.49

CONTROL AND ELECTRICAL ACCESSORIES

SPEED CONTROLLERS



Single phase speed controller

The REB range of electronic speed controller is for use in general areas. The casing is protected to class IP42.

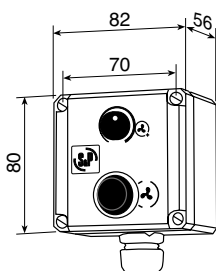
REB6 and above are fitted with a manual reset facility to prevent automatic restart of ducted fans after a fault condition (to comply with EN 60335-2-80:2005).

Mains Supply: 230V ~ 50Hz

Output: Variable - 3 wire speed control recommended for best results.

Model/ Code	Maximum Current (A)	Dimensions (mm)			IP Rating
		L	H	D	
REB-1	1A	105	83	40	IP42
REB-3	3A	120	100	41	IP42
REB-5	5A	148	88	55	IP42
REB-6	6A	148	95	55	IP42
REB-8	8A	170	120	55	IP42
REB-10	10A	170	120	55	IP42
REB-16	16A	222	146	83	IP42

Code	Model	Trade Prices
5401270300	REB-1N Electronic Speed Controller 1A MAX. (Residential Use)	£64.08
5401272900	REB-2.5N Electronic Speed Controller 2.5A MAX. (Residential Use)	£79.13
1000000081	REB-1 Electronic Speed Controller 1A MAX. 230V	£64.08
1000000076	REB-3 Electronic Speed Controller 3A MAX. 230V	£78.64
1000000077	REB-5 Electronic Speed Controller 5A MAX. 230V	£106.79
1000000027	REB-6 Electronic Speed Controller 6A MAX. 230V	£121.06
1000000050	REB-8 Electronic Speed Controller 8A MAX. 230V	£211.08
1000000082	REB-10 Electronic Speed Controller 10A MAX. 230V	£214.56
1000000079	REB-16 Electronic Speed Controller 16A MAX. 230V	£336.66
5401304000	REB-CVF 0-10V Controller	£118.41



Remote control REB - CVF Controller ON/OFF + potentiometer

Model	Trade Prices
REB-CVF Controller	£121.96

GENERAL INFORMATION

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