

Welding Bay Application



T-Line 120 Plantroom Extract unit with Isolator



Advanced Multi-application Inverter



Industrial Laundry Application



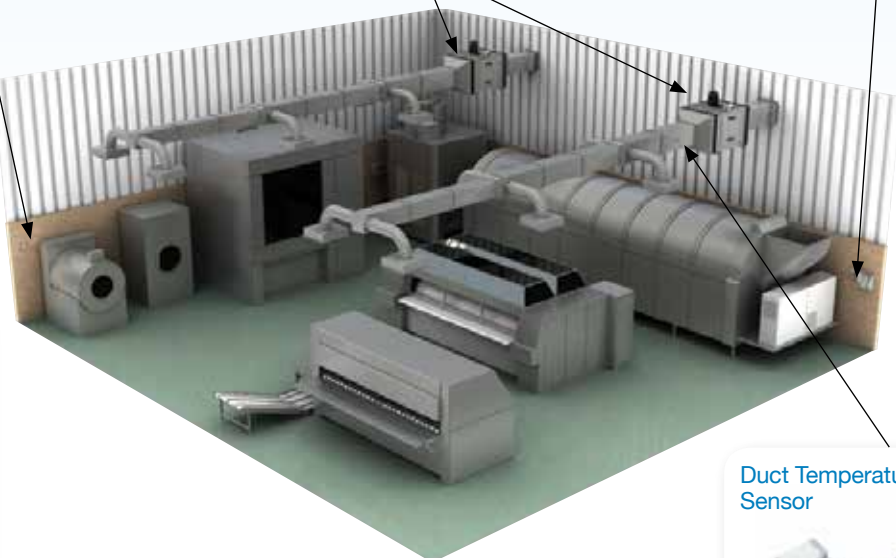
Room Temperature and Humidity Sensor

A duct or room mounted humidity sensors can be used in conjunction with a VES speed control panel to control the fan speed in relation to humidity.

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Duct Temperature and Humidity Sensor



Air Quality Sensor



A duct or room mounted AQ Sensor can be used in conjunction with a VES speed control panel to control the fan speed in relation to air quality CO₂ and for VOC. The VES AQ Sensor sends a 0-10 volt signal direct to the fan speed controller to adjust the airflow to maintain desired air quality. Typically, as occupancy increases, air quality decreases, and the fan will speed up to compensate, and vice versa. Demand ventilation control improves air quality reducing energy consumption and lowers operating costs.



Controls Communication

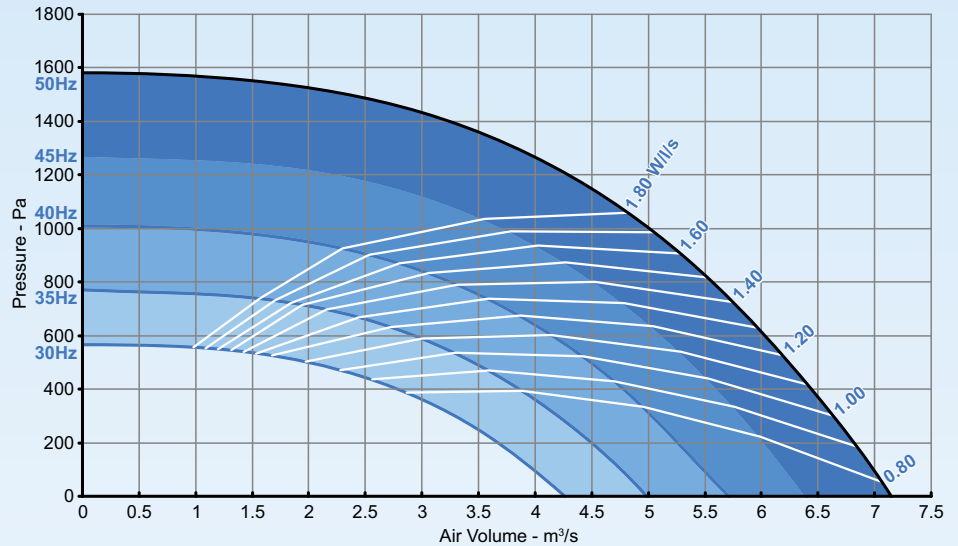
(Units may require internal protection on applications with high humidity and/or aggressive atmospheres)

Selection Data

TLL710/42-3

Performance Curve

PRODUCT FAN DIA POLE EFFICIENCY PHASE ORIENTATION
TLL 710 / 4 2 - 3 /



Specific Fan Power Watts/litres/second

Notes: SFP figures quoted at Voltages tested in accordance with BS 848: Part 1 1997

Fan Power	Airflow/SFP	Air Volume m³/s								
		0.75	1.5	2.25	3.0	3.75	4.5	5.25	6.0	6.75
50Hz	Pressure (Pa)	1570	1550	1510	1430	1320	1150	920	620	240
	SFP (W/l/s)	>3	>3	>3	2.65	2.29	1.93	1.61	1.29	0.95
45Hz	Pressure (Pa)	1270	1250	1210	1120	1000	810	560	220	-
	SFP (W/l/s)	>3	>3	2.58	2.03	1.71	1.41	1.12	0.80	-
40Hz	Pressure (Pa)	1000	980	930	840	700	500	210	-	-
	SFP (W/l/s)	>3	2.64	1.85	1.53	1.24	0.97	0.69	-	-
35Hz	Pressure (Pa)	760	740	690	590	430	200	-	-	-
	SFP (W/l/s)	2.63	1.92	1.37	1.10	0.85	0.59	-	-	-
30Hz	Pressure (Pa)	560	540	470	360	180	-	-	-	-
	SFP (W/l/s)	2.01	1.33	1.00	0.76	0.51	-	-	-	-

$$\text{SFP} \frac{\text{Watts/litres}}{\text{second}} = \frac{\text{Electrical input power (Watts)}}{\text{Air volume flow rate (litres/second)}}$$

Sound Data

Fan Power	Fan Speed RPM	Sound Spectrum dB re 10 ⁻¹² w PWL Centre Frequency Hz								Sound Pressure Level dBA @ 3 metres from outlet
		63	125	250	500	1k	2k	4k	8k	
50Hz	1450	84	88	92	92	88	84	79	75	79
45Hz	1305	82	86	90	89	85	71	76	72	76
40Hz	1160	80	83	87	86	82	78	73	69	74
35Hz	1015	77	80	84	83	79	74	70	65	71
30Hz	870	74	77	80	79	75	70	66	61	67

Insertion Loss Table

	Sound Spectrum dB re 10 ⁻¹² w PWL Centre Frequency Hz							
	63	125	250	500	1k	2k	4k	8k
Case Insertion Loss	9	14	21	27	32	37	43	42

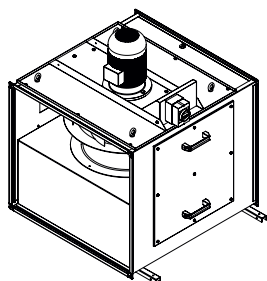
Technical Data

Efficiency	Size	Phase	Motor kW	Voltage Vac	Fan Speed RPM	Full Load Current amps	Starting Current amps	Speed Control
IE2	710	3	7.5	400	1450	14.4	106.56	Inverter

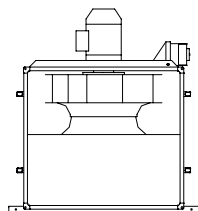
Dimensions

Plantroom/ Internal Units

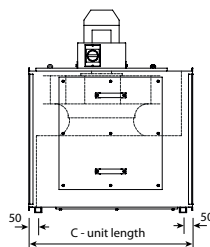
Sizes 250-800 PH Horizontal inlet and outlet



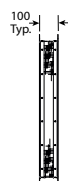
View on outlet



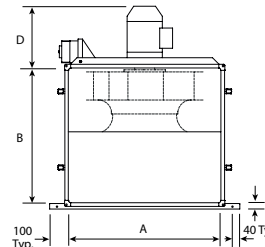
Side elevation



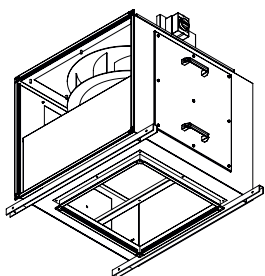
Flexible
Connection



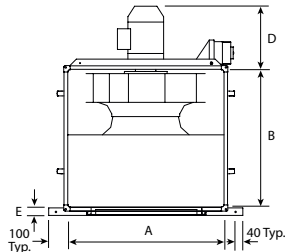
View on inlet



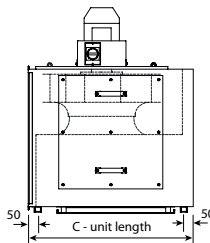
Sizes 250-800 PL Bottom inlet, Horizontal outlet



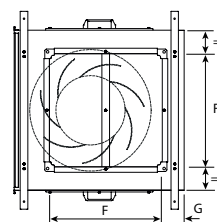
View on outlet



Side elevation

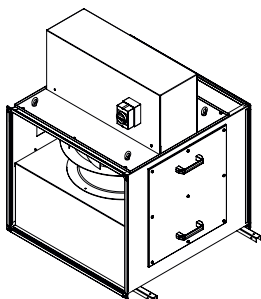


View on bottom inlet

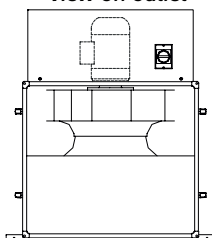


Weatherproof Units

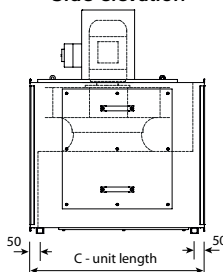
Sizes 250-800 WH Horizontal inlet and outlet



View on outlet



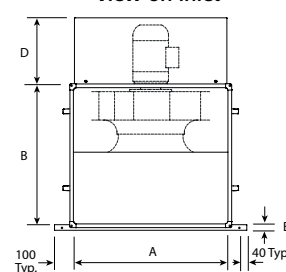
Side elevation



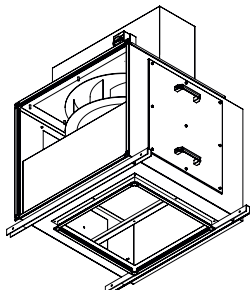
Flexible
Connection



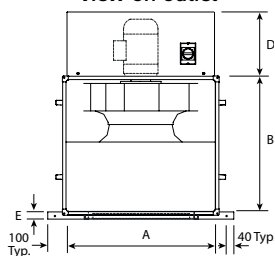
View on inlet



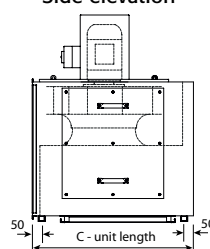
Sizes 250-800 WL Bottom inlet, Horizontal outlet



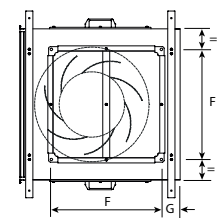
View on outlet



Side elevation



View on bottom inlet



Dimensions

Mounting

Units are supplied to suit mounting with the motor on top as standard. By referring to the O&M documentation, the unit can be re-orientated to suit a side mounted motor with either vertical or horizontal airflow.

T-Line 710 and 800 units are not suitable for re-orientation and should be operated with a top mounted motor only.

Unit Size	Dimensions mm								Weight kg
	A	B	C	D (P)	D (W)	E	F	G	
250	380	380	480	215	250	40	280	100	30
350	500	500	600	267	300	40	400	100	50
400	700	600	700	328	350	40	450	100	70
450	750	600	700	267	350	40	500	100	95
500	800	700	800	267	350	40	600	100	105
560	850	750	900	306	375	40	600	120	130
630	900	800	900	420	475	60	600	150	200
710	1100	1000	1000	420	475	60	600	170	245
800	1250	1050	1150	602	675	60	825	170	470