

<b>Model</b>	<b>OPA 250RLTFPQ-S2</b>
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	876-025-701 / 876-025-710
Unit c/w Fresh Air Cowl (OPA 250RLTFPQ-C)	878-025-701 / 878-025-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	876-025-723 / 876-025-732
Unit c/w Fresh Air Cowl (OPA 250RLTFPQ-C)	878-025-723 / 878-025-732
Cooling capacity (net) <sup>1</sup>	24.6 kW
Cooling capacity range (gross)	10.1 ~ 29.1 kW
Heating capacity <sup>1</sup>	26.9 kW
Heating capacity range	6.5 ~ 29.3 kW
Electrical input - cooling	7.7 kW
Electrical input - heating	8.1 kW
EER / AEER (cooling) <sup>1</sup>	3.20 / 3.18
COP / ACOP (heating) <sup>1</sup>	3.33 / 3.31
Unit Controller	UC8
Refrigerant	R32
Refrigerant Charge	8.0 kg
Minimum floor area (@2.4m below ceiling diffuser)	34.0 m <sup>2</sup>
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	inverter scroll
Power supply <sup>2</sup>	3 ph. 400 V ac 50 Hz + N + E
Compressor (3ph.) run amps <sup>1</sup>	9.5 A/ph
Compressor + VSD circuit breaker	40 A
Indoor fan motor size	EC plug 450 dia. 3.94kW
Nominal air flow at rating conditions	1250 l/s
Indoor fan motor (3ph.) - full load	6 A/ph.
Outdoor fan motor (3ph.) - full load	4.6 A/ph.
Outdoor fan capacitor size	n/a
Outdoor fan max. static pressure@ 3000 l/s	125 Pa
Control circuit breaker (internal)	2 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system) <sup>1</sup>	12.5 / 11.5 / 13 A
Max. running amps (total system)	24 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight	511 kg
Shipping weight	567 kg
Net Weight c/w Fresh Air Cowl option	519 kg

**Accessories:**

Filters - rated EU4/G4 disposable	019-400-005 600x500x50 (x2) <sup>3</sup>
Filters - rated EU4/G4 washable	019-000-034 600x500x50 (x2) <sup>3</sup>
Drain tundish (set of 2)	060-000-653

**Optional Controls:**

TZT-100 Room temperature controller	201-000-350
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Refer to temperzone for other options.

<sup>1</sup> Tested in accordance with AS/NZS 3823

<sup>2</sup> Voltage range: 380-440V

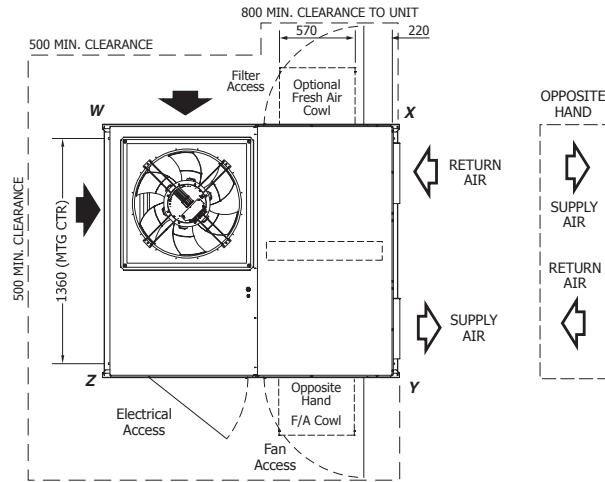
<sup>3</sup> Filter sizes are nominal; refer to Temperzone for actual measurements.

# DIMENSIONS (mm)



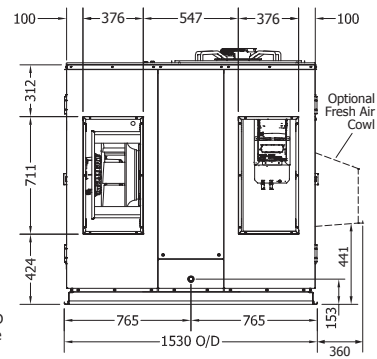
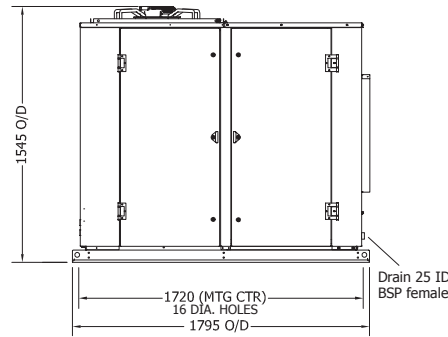
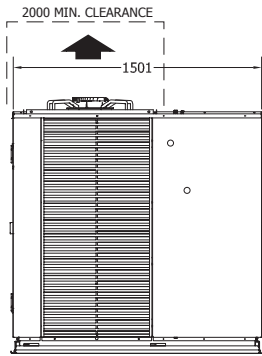
## OPA 250RLTFP01(-C) Standard Hand, Horizontal Supply

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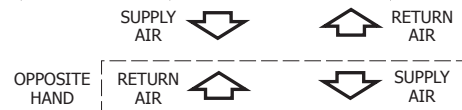
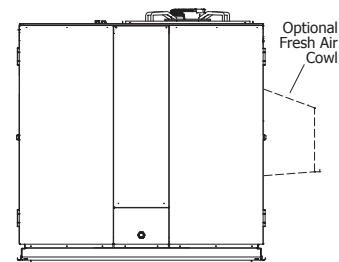
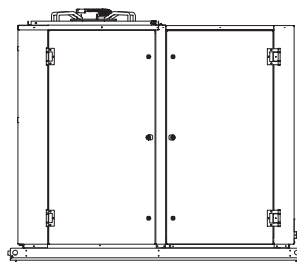
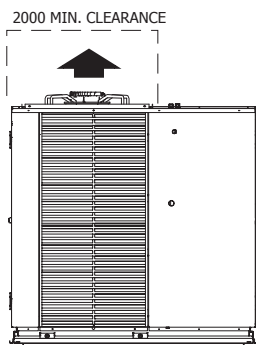
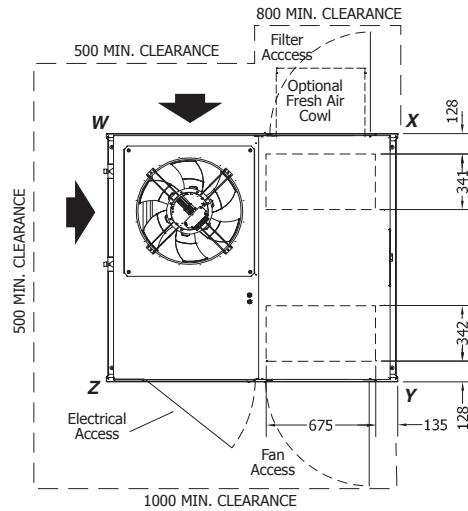


		POINT LOADS (kg)			
		W	X	Y	Z
Std Hd	no F/A	104	149	100	158
	cw F/A	105	153	102	159
Op Hd	no F/A	121	155	91	144

Multiple units side-by-side:  
Allow a minimum of 1m  
between coil faces.

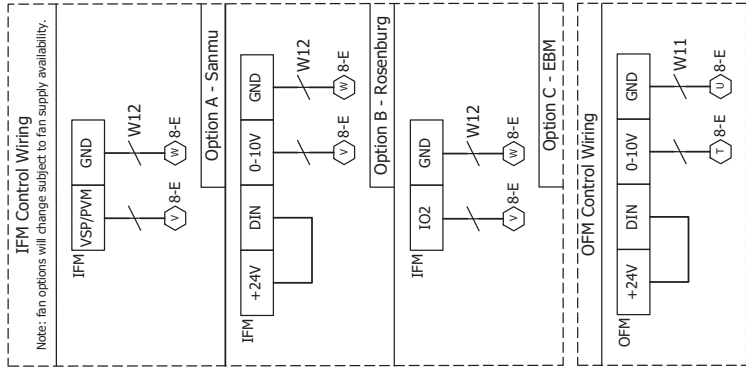
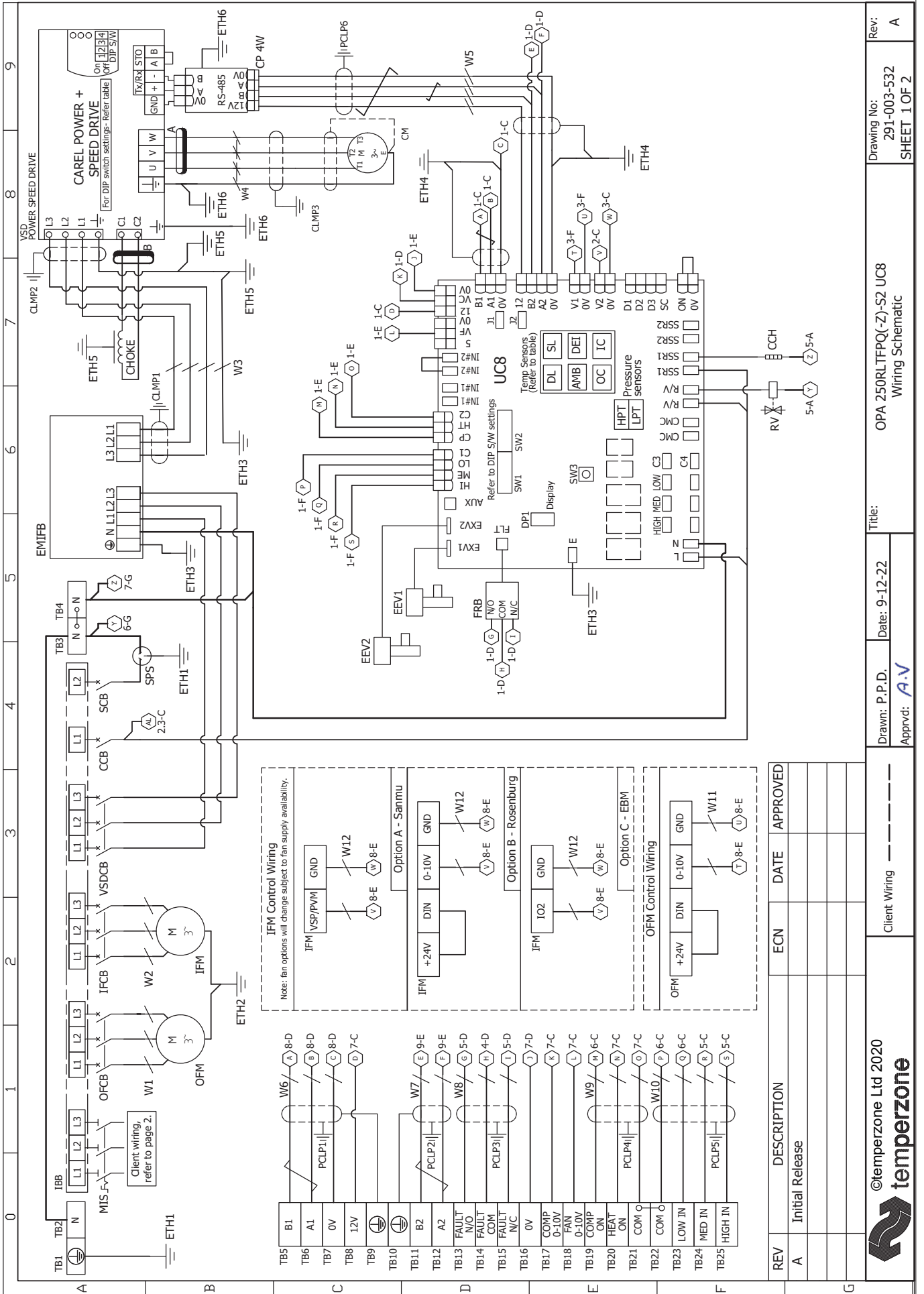


## OPA 250RLTFP23(-C) Standard Hand, Downward Supply



### NOTE

Specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.



TB5	B1	W6 / A	8-D
TB6	A1	W7 / B	8-D
TB7	0V	W8 / C	8-D
TB8	12V	W9 / D	7-C
TB9	⊕	W10 / E	9-E
TB10	⊕	W11 / F	9-E
TB11	B2	W12 / G	5-D
TB12	A2	W13 / H	4-D
TB13	FAULT IN/O	W14 / I	5-D
TB14	FAULT COM	W15 / J	7-D
TB15	FAULT IN/C	W16 / K	7-C
TB16	0V	W17 / L	7-C
TB17	COMP 0-10V	W18 / M	6-C
TB18	FAN 0-10V	W19 / N	7-C
TB19	COMP ON	W20 / O	7-C
TB20	HEAT ON	W21 / P	6-C
TB21	COM O	W22 / Q	6-C
TB22	COM O	W23 / R	5-C
TB23	LOW IN	W24 / S	5-C
TB24	MED IN	W25 / T	5-C
TB25	HIGH IN	W26 / U	8-E

REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			

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<p><b>Client Wiring</b></p>	<p><b>Customer BMS Input</b></p>	<p><b>Ferrites</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Part Number</th> <th>Frequency Type</th> <th>Number of Turns</th> </tr> </thead> <tbody> <tr> <td>A 012-001-074</td> <td>High</td> <td>1</td> </tr> <tr> <td>B 012-001-094</td> <td>Low</td> <td>1</td> </tr> </tbody> </table>	Part Number	Frequency Type	Number of Turns	A 012-001-074	High	1	B 012-001-094	Low	1	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>24VCB</td><td>24 Volt Circuit Breaker</td></tr> <tr><td>CCB</td><td>Control Circuit Breaker</td></tr> <tr><td>CCH</td><td>Crankcase Heater</td></tr> <tr><td>CM</td><td>Compressor Motor</td></tr> <tr><td>DMF</td><td>Damper Motor Fresh Air</td></tr> <tr><td>DMR</td><td>Damper Motor Return Air</td></tr> <tr><td>EEV</td><td>Electronic Expansion Valve</td></tr> <tr><td>EMIFB</td><td>EMI Filter Board</td></tr> <tr><td>ETH</td><td>Earth</td></tr> <tr><td>FRB</td><td>Fault Relay Board</td></tr> <tr><td>IFCB</td><td>Indoor Fan Circuit Breaker</td></tr> <tr><td>IFM</td><td>Indoor Fan Motor</td></tr> <tr><td>IBB</td><td>Insulated Bus Bar</td></tr> <tr><td>MIS</td><td>Main Isolator Switch</td></tr> <tr><td>OFCB</td><td>Outdoor Fan Circuit Breaker</td></tr> <tr><td>OFM</td><td>Outdoor Fan Motor</td></tr> <tr><td>PCLP</td><td>P Clip</td></tr> <tr><td>RV</td><td>Reversing Valve</td></tr> <tr><td>SCB</td><td>Socket Circuit Breaker</td></tr> <tr><td>SPS</td><td>Single Phase Socket</td></tr> <tr><td>TB</td><td>Terminal Block</td></tr> <tr><td>TR</td><td>Transformer</td></tr> <tr><td>UC8</td><td>Unit Controller 8</td></tr> <tr><td>VSD</td><td>Variable Speed Drive</td></tr> <tr><td>VSDCB</td><td>Variable Speed Drive Circuit Breaker</td></tr> <tr><td>W</td><td>Cable Marker</td></tr> </table>	24VCB	24 Volt Circuit Breaker	CCB	Control Circuit Breaker	CCH	Crankcase Heater	CM	Compressor Motor	DMF	Damper Motor Fresh Air	DMR	Damper Motor Return Air	EEV	Electronic Expansion Valve	EMIFB	EMI Filter Board	ETH	Earth	FRB	Fault Relay Board	IFCB	Indoor Fan Circuit Breaker	IFM	Indoor Fan Motor	IBB	Insulated Bus Bar	MIS	Main Isolator Switch	OFCB	Outdoor Fan Circuit Breaker	OFM	Outdoor Fan Motor	PCLP	P Clip	RV	Reversing Valve	SCB	Socket Circuit Breaker	SPS	Single Phase Socket	TB	Terminal Block	TR	Transformer	UC8	Unit Controller 8	VSD	Variable Speed Drive	VSDCB	Variable Speed Drive Circuit Breaker	W	Cable Marker	<p><b>Important Note!</b> Unit requires 24 hour power supply for control circuit and crankcase heaters</p>	<p><b>Economiser Option</b></p>	<p><b>Sensors (S) / Transducers (T)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Colour</th> </tr> </thead> <tbody> <tr><td>DL</td><td>Discharge Temp</td><td>S GREY</td></tr> <tr><td>SL</td><td>Suction Temp</td><td>S WHITE</td></tr> <tr><td>AMB</td><td>Ambient Temp</td><td>S YELLOW</td></tr> <tr><td>DEI</td><td>De-ice Temp</td><td>S BLUE</td></tr> <tr><td>IC</td><td>De-ice Temp</td><td>S BLUE</td></tr> <tr><td>LPT</td><td>Suction Pressure</td><td>T</td></tr> <tr><td>HPT</td><td>High Pressure</td><td>T</td></tr> </tbody> </table>	Name	Type	Colour	DL	Discharge Temp	S GREY	SL	Suction Temp	S WHITE	AMB	Ambient Temp	S YELLOW	DEI	De-ice Temp	S BLUE	IC	De-ice Temp	S BLUE	LPT	Suction Pressure	T	HPT	High Pressure	T	<p><b>SAT-3 &amp; TZT100 connection to UC8 terminals</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>UC8 terminals</th> <th>SAT-3</th> <th>TZT100 Terminals</th> </tr> </thead> <tbody> <tr><td>12</td><td>12V</td><td>24</td></tr> <tr><td>B2</td><td>B</td><td>B</td></tr> <tr><td>A2</td><td>A</td><td>A</td></tr> <tr><td>0V</td><td>GND</td><td>24C</td></tr> <tr><td>Shield to 0V</td><td></td><td></td></tr> </tbody> </table>	UC8 terminals	SAT-3	TZT100 Terminals	12	12V	24	B2	B	B	A2	A	A	0V	GND	24C	Shield to 0V			<p><b>UC8 DIP switch settings</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DIP switch</th> <th>↑ On/Off ↓</th> </tr> </thead> <tbody> <tr><td>1,2,4,6,7,10,14</td><td>On</td></tr> <tr><td>All Others Off</td><td>Off</td></tr> </tbody> </table>	DIP switch	↑ On/Off ↓	1,2,4,6,7,10,14	On	All Others Off	Off	<p><b>PSD DIP switch settings</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DIP switch</th> <th>↑ On/Off ↓</th> </tr> </thead> <tbody> <tr><td>1, 4</td><td>On</td></tr> <tr><td>2, 3</td><td>Off</td></tr> </tbody> </table>	DIP switch	↑ On/Off ↓	1, 4	On	2, 3	Off
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