

# SPECIFICATIONS



<b>Model</b>	<b>OPA 560RLTFPQ-S2</b>
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	876-056-701 / 876-056-710
Unit c/w Fresh Air Cowl (OPA 560RLTFPQ-C)	878-056-701 / 878-056-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	876-056-723 / 876-056-732
Unit c/w Fresh Air Cowl (OPA 560RLTFPQ-C)	878-056-723 / 878-056-732
Cooling capacity (net) <sup>1</sup>	53.5 kW
Cooling capacity range (gross)	27.4 ~ 64.8 kW
Heating capacity <sup>1</sup>	57.0 kW
Heating capacity range	24.0 ~ 63.1 kW
Electrical input - cooling	17.9 kW
Electrical input - heating	19.1 kW
EER / AEER (cooling) <sup>1</sup>	2.99 / 2.98
COP / ACOP (heating) <sup>1</sup>	2.98 / 2.97
Unit Controller	UC8
Refrigerant	R32
Refrigerant Charge	13.5 kg
Minimum floor area (@2.4m below ceiling diffuser)	97 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>	22 A/ph
Compressor + VSD circuit breaker	50 A
Indoor fan motor size	EC plug 560 dia. 4.2kW
Nominal air flow <sup>1</sup>	2 600 l/s
Indoor fan motor (3ph.) - full load	6.5 A/ph.
Outdoor fan motor (3ph.) - full load	4.2 A/ph.
Outdoor fan type	EC axial
Outdoor fan max. static pressure @ 6 450 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>	28 / 26 / 29 A
Max. running amps (total system)	44 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight	759 kg
Shipping weight	823 kg
Net Weight c/w Fresh Air Cowl option	771 kg

## Accessories:

Filters - rated EU4/G4 disposable	019-400-005 600x500x50 (x4)
Filters - rated EU4/G4 washable	019-000-034 600x500x50 (x4)
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)



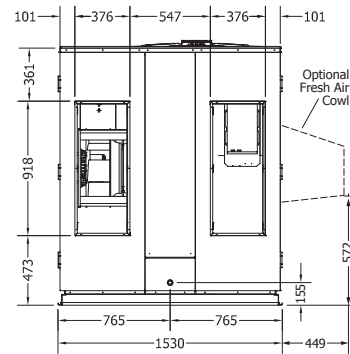
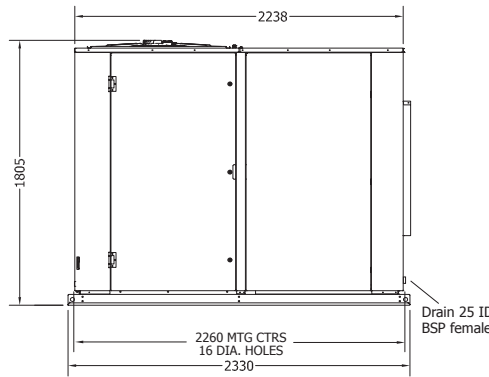
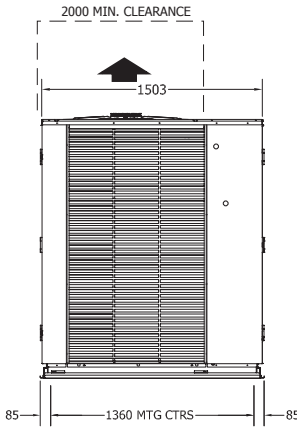
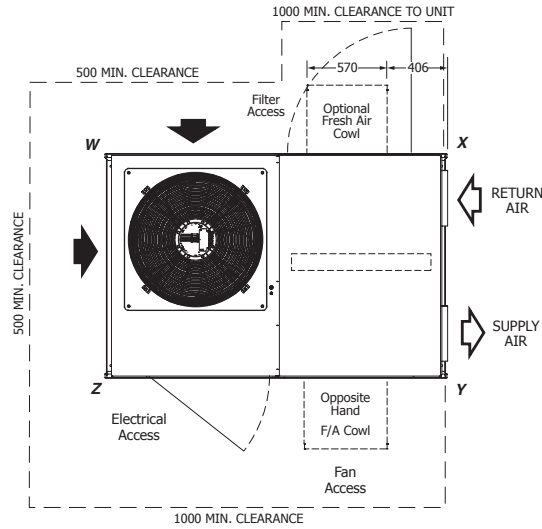
## OPA 560RLTFP01(-C)-S2 Standard Hand, Horizontal Supply

Not to Scale

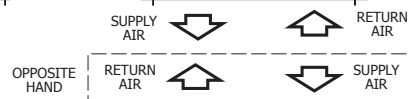
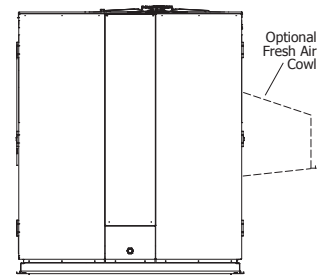
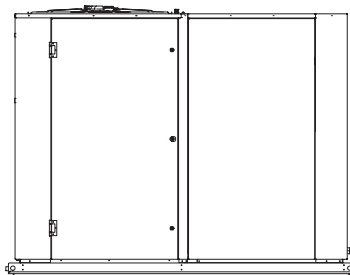
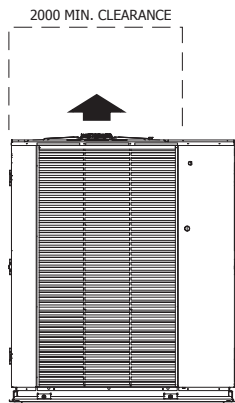
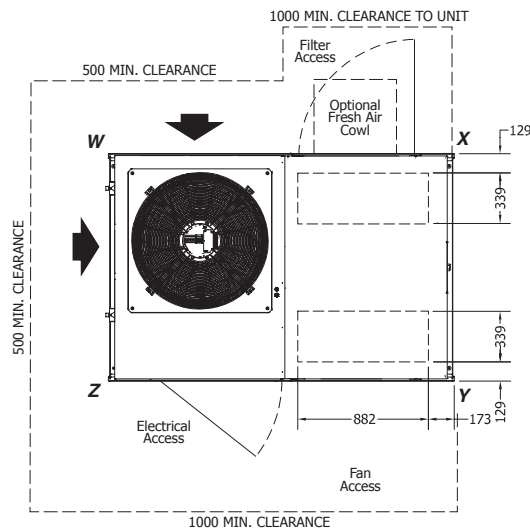
POINT LOADS (kg)

		W	X	Y	Z
Std Hd	no F/A	182	171	195	211
	cw F/A	182	183	195	211
Op Hd	no F/A	168	218	153	220

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

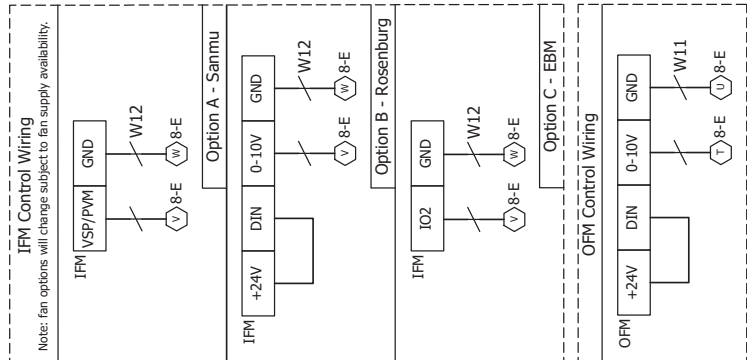
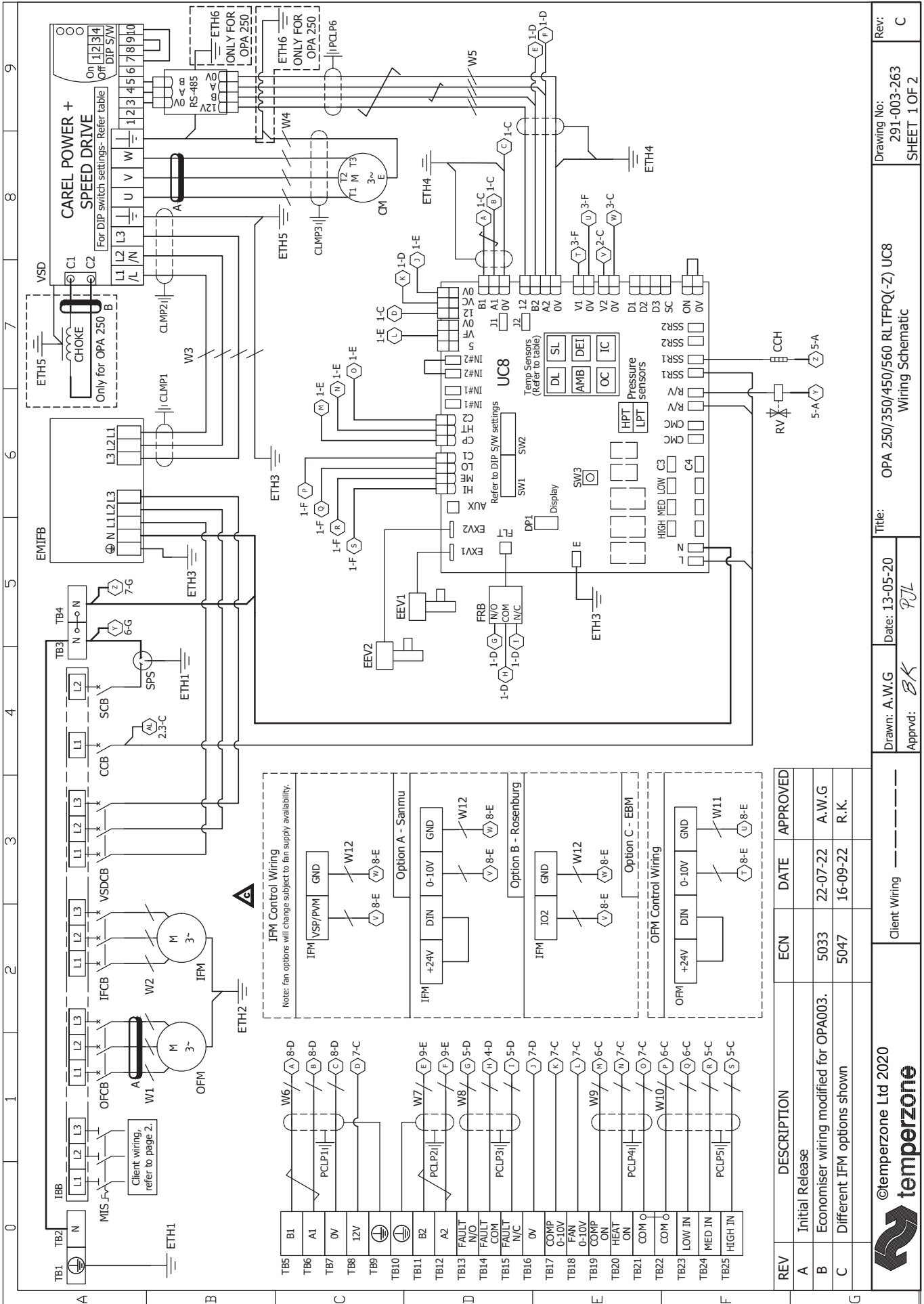


## OPA 560RLTFP23(C)-S2 Standard Hand, Downward Supply



**NOTE**

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



REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			
B	Economiser wiring modified for OPA003.	5033	22-07-22	A.W.G
C	Different IFM options shown	5047	16-09-22	R.K.

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Client Wiring

Drawn: A.W.G    Date: 13-05-20    Title: OPA 250/350/450/560 RLTFPQ(-z) UC8 Wiring Schematic

Approved: *BK*    *PJL*

Drawing No: 291-003-263 SHEET 1 OF 2    Rev: C

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<p style="text-align: center;"><b>Client Wiring</b></p> <p style="text-align: center;">Client External Protection and Isolator Switch</p>	<p style="text-align: center;"><b>Customer BMS Input</b></p> <p style="text-align: center;">Connect cable screen to 'EARTH' terminal</p>	<p style="text-align: center;"><b>Ferrites</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Part Number</th> <th>Frequency Type</th> <th>Number of Turns</th> </tr> <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> </table> <p style="text-align: center;"><b>Important Note!</b> Ferrite 'A' on OD Fan circuit breaker for OPA 450 and 560 only.</p>	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 style="text-align: center;"><b>Economiser Option</b></p>	<p style="text-align: center;"><b>Sensors (S) / Transducers (T)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Name</th> <th>Type</th> <th>Colour</th> </tr> <tr><td>DL</td><td>Discharge Temp</td><td>S</td><td>GREY</td></tr> <tr><td>SL</td><td>Suction Temp</td><td>S</td><td>WHITE</td></tr> <tr><td>AMB</td><td>Ambient Temp</td><td>S</td><td>YELLOW</td></tr> <tr><td>DEI</td><td>De-ice Temp</td><td>S</td><td>BLUE</td></tr> <tr><td>IC</td><td>De-ice Temp</td><td>S</td><td>BLUE</td></tr> <tr><td>LPT</td><td>Suction Pressure</td><td>T</td><td></td></tr> <tr><td>HPT</td><td>High Pressure</td><td>T</td><td></td></tr> </table> <p style="text-align: center;">SAT-3 &amp; TZT100 connection to UC8 terminals</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>UC8 terminals</th> <th>SAT-3</th> <th>TZT100 Terminals</th> </tr> <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 colspan="3" style="text-align: center;">Shield to 0V</td></tr> </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		UC8 terminals	SAT-3	TZT100 Terminals	12	12V	24	B2	B	B	A2	A	A	0V	GND	24C	Shield to 0V			<p style="text-align: center;"><b>UC8 DIP switch settings</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DIP switch</th> <th>On/Off</th> <th>On/Off</th> </tr> <tr> <td>1,2,4,6,7,10,14</td> <td>On</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> <td>Off</td> </tr> </table> <p style="text-align: center;"><b>PSD DIP switch settings</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DIP switch</th> <th>On/Off</th> <th>On/Off</th> </tr> <tr> <td>1, 4</td> <td>On</td> <td>On</td> </tr> <tr> <td>2, 3</td> <td>Off</td> <td>Off</td> </tr> </table>	DIP switch	On/Off	On/Off	1,2,4,6,7,10,14	On	On	All Others Off	Off	Off	DIP switch	On/Off	On/Off	1, 4	On	On	2, 3	Off	Off
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