

# SPECIFICATIONS



<b>Model</b>	<b>OPA 465RKTBG-PZ ECO</b>
Configuration	Downward Supply Air c/w Economiser
Item No. (Standard / Opposite Hand)	867-047-723 / 867-047-732
Cooling capacity (net) to AS/NZS 3823 T1	43.9 kW
Heating capacity H1	41.1 kW
Electrical input - cooling	13.6 kW
Electrical input - heating	11.4 kW
EER / AEER (cooling)	3.22 / 3.21
COP / ACOP (heating)	3.62 / 3.60
Unit Controller	UC8 (x2)
Refrigerant	R410A
Refrigerant Charge	8.8 kg/sys.
Compressor oil type	POE 32-3MAF (or equivalent)
Compressor type	digital + fixed scroll
Power supply	3 ph. 400V ac 50Hz
Compressor (3ph.) run amps at rating cond.	9.5 A/ph.
Compressor overload setting	13 / 14 A
Compressor circuit breaker	25 A (x2)
Indoor fan motor size	EC plug 560 dia. 3.5kW
Nominal air flow at rating conditions	2400 l/s
Indoor fan motor (3ph.) - full load	5 A/ph.
Outdoor fan motor (1ph.) - full load	3 A (x2)
Outdoor fan capacitor size	12 $\mu$ fd (x2)
Control circuit breaker (internal)	2 A
Single phase socket circuit breaker	10 A
Running amps (total system)	20 / 26 / 20 A
Max. running amps (total system)	27 / 34 / 27 A
Net weight	858 kg

### Accessories:

Filters - rated EU4/G4 disposable	019-400-010 450x600x50 (x2) 019-400-007 600x600x50 (x2)
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### Optional Controls:

Viking controller	201-000-191
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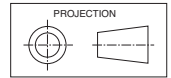
Refer to temperzone for other options.

Tested in accordance with AS/NZS 3823

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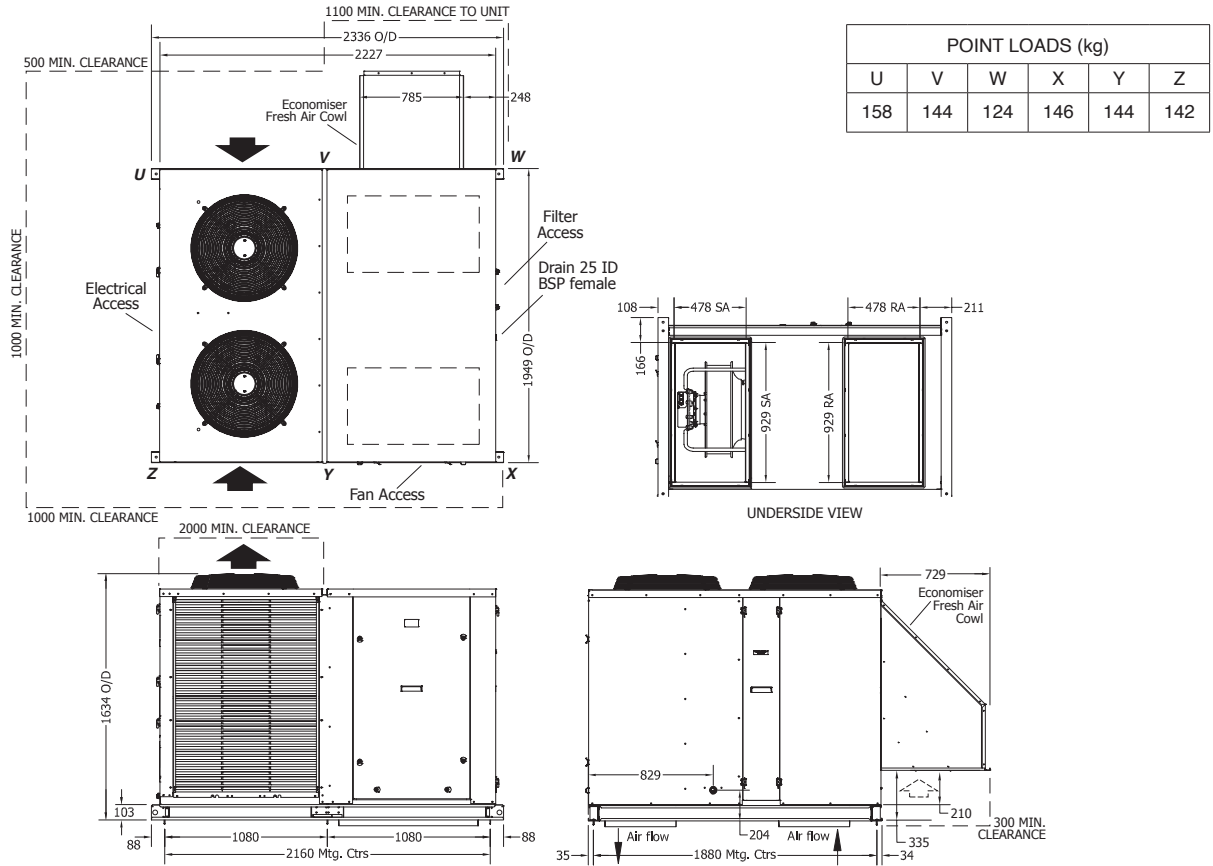


# DIMENSIONS (mm)

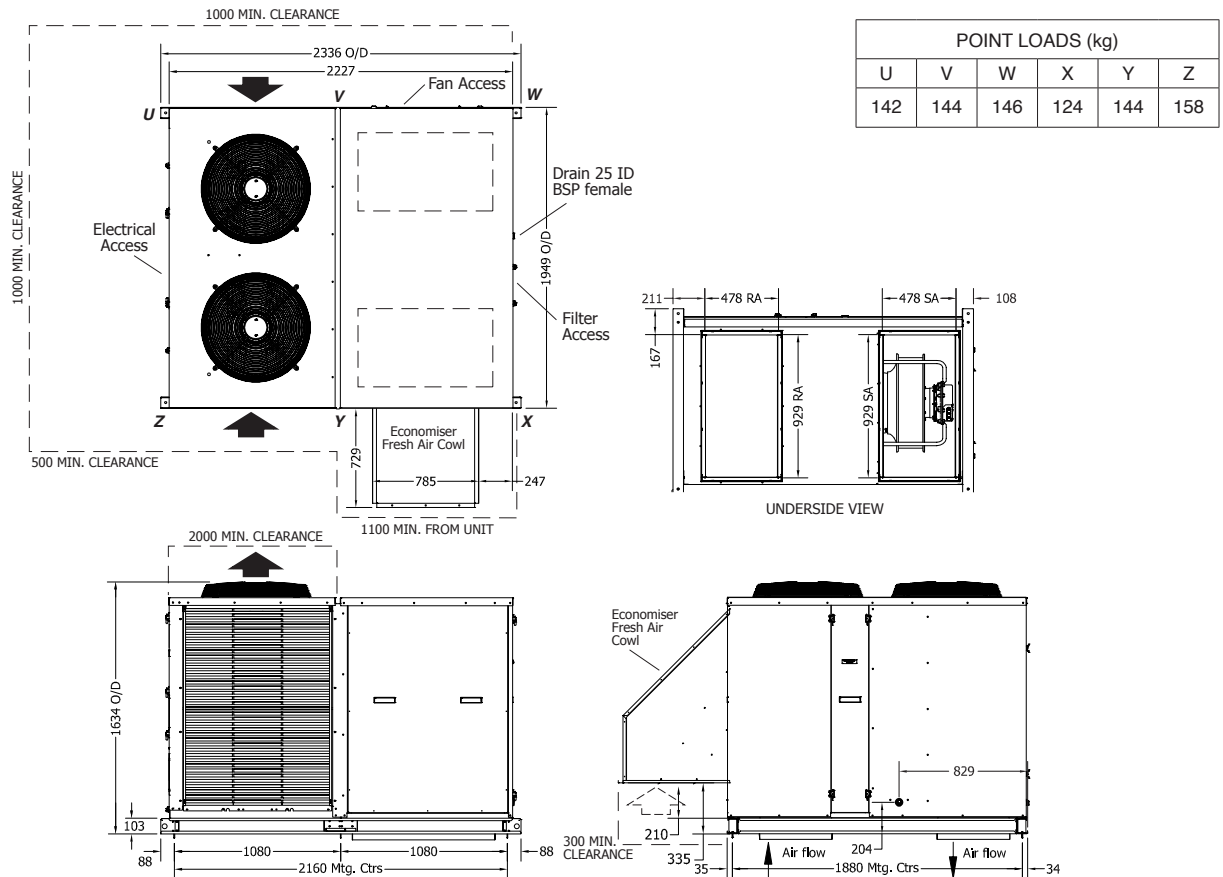


Not to Scale

## OPA 465RKTBG23-PZ Standard Hand



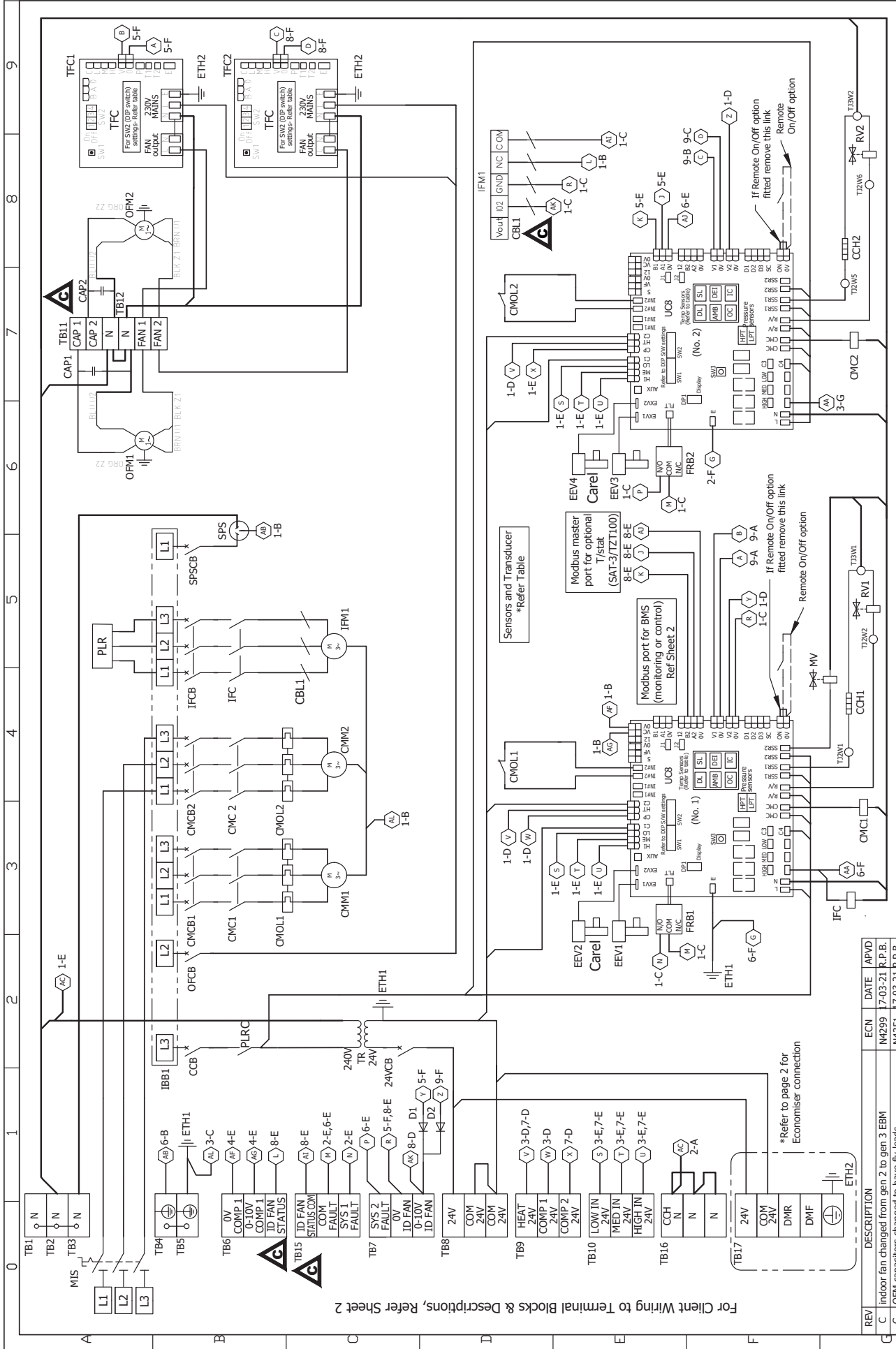
## OPA 465RKTBG32-PZ Opposite Hand



**NOTE**

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





REV/	DESCRIPTION	ECN	DATE	APVD
C	Indoor fan changed from gen 2 to gen 3 EBM	N4299	17-03-21	R.P.B.
C	OFM capacitors changed to have fly leads	N4351	17-03-21	R.P.B.

**temperzone**  
 Client Wiring  
 DO NOT SCALE - ASK  
 Drawing: E.B.A Date: 07-09-17  
 Approved: PUL ACL  
 Title: OPA 465RKTBG-PZ UC8 Wiring Schematic  
 Drawing No: 291-002-440  
 SHEET 1 OF 2  
 Rev: C

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<p><b>Important Notes:</b></p> <p>1) Crankcase Heater Note 24 Hour power required for control circuit and crankcase heaters</p> <p>2) SAT-3 &amp; TZT 100 Note To connect TZT100 to unit use 2 pair twisted cable - screen grounded. (F/UTP 24G (0.2mm<sup>2</sup>) or thicker recommended)</p>	<p>3) Master-slave note When the unit is controlled with a TZT-100 or SAT-3 wall thermostat, then the two UC8 controllers must be linked and configured as master and slave. Master DIP switch settings: 11 OFF 12 OFF Slave DIP switch settings: 11 ON 12 OFF</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Sensors (S) / Transducers (T)</th> </tr> <tr> <th>Name</th> <th>Type</th> <th>Colour</th> </tr> </thead> <tbody> <tr> <td>DL</td> <td>Discharge Temp</td> <td>S</td> <td>RED</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>BLACK</td> </tr> <tr> <td>DEI</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> </tbody> </table>	Sensors (S) / Transducers (T)			Name	Type	Colour	DL	Discharge Temp	S	RED	SL	Suction Temp	S	WHITE	AMB	Ambient Temp	S	BLACK	DEI	De-ice Temp	S	BLUE	LPT	Suction Pressure	T		HPT	High Pressure	T		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">SAT-3 &amp; TZT100 connection to UC8 terminals</th> </tr> <tr> <th>UC8 terminals(No.1)</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 colspan="3">Screen to 0V</td> </tr> </tbody> </table>	SAT-3 & TZT100 connection to UC8 terminals			UC8 terminals(No.1)	SAT-3	TZT100 Terminals	12	12V	24	B2	B	B	A2	A	A	0V	GND	24C	Screen to 0V			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">UC8 DIP switch settings (No.1)</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>1,2,4,6,7,10</td> <td>On</td> <td>On</td> </tr> <tr> <td>All Others</td> <td>Off</td> <td>Off</td> </tr> </tbody> </table>	UC8 DIP switch settings (No.1)			DIP switch	On/Off	On/Off	1,2,4,6,7,10	On	On	All Others	Off	Off	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">UC8 DIP switch settings (No.2)</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>1,4,6,7,10</td> <td>On</td> <td>On</td> </tr> <tr> <td>All Others</td> <td>Off</td> <td>Off</td> </tr> </tbody> </table>	UC8 DIP switch settings (No.2)			DIP switch	On/Off	On/Off	1,4,6,7,10	On	On	All Others	Off	Off	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">TFC DIP switch settings</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>On</td> <td>On</td> </tr> <tr> <td>1, 2, 3, 4</td> <td>Off</td> <td>Off</td> </tr> </tbody> </table>	TFC DIP switch settings			DIP switch	On/Off	On/Off	-	On	On	1, 2, 3, 4	Off	Off	<p><b>Client Wiring</b></p> <p><b>Remote option</b></p> <p>If Remote On/Off option fitted remove this link</p> <p>Remote On/Off option</p>	<p><b>BMS Control</b></p>	<p><b>Economiser Connection</b></p> <p>Connection to control testat by client</p>
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