

SPECIFICATIONS



Model	OPA 465RKTBG-P ECO
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	866-047-701 / 866-047-710
Unit c/w Fresh Air Cowl (OPA 465RKTBG-PC)	868-047-701 / 868-047-710
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 μ fd (x2)
Control circuit breaker (internal)	2 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system)	20 / 26 / 20 A
Max. running amps (total system)	27 / 34 / 27 A
Net weight	798 kg
Weight c/w Fresh Air Cowl option	833 kg

Accessories:

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

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

Tested in accordance with AS/NZS 3823

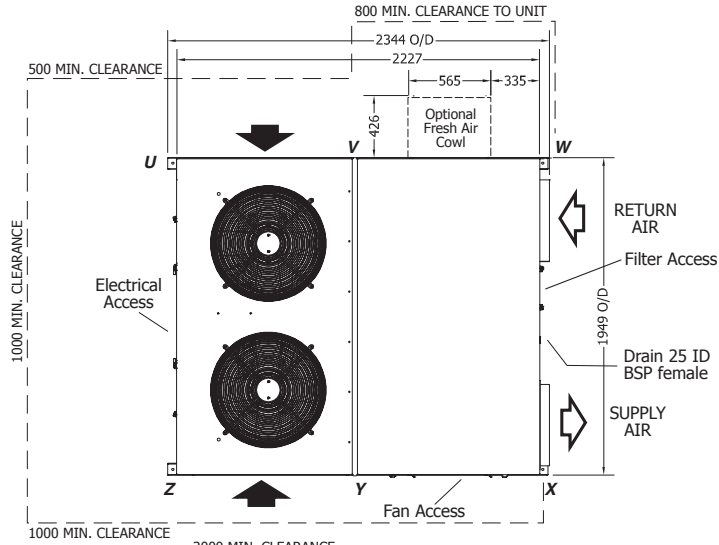
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DIMENSIONS (mm)

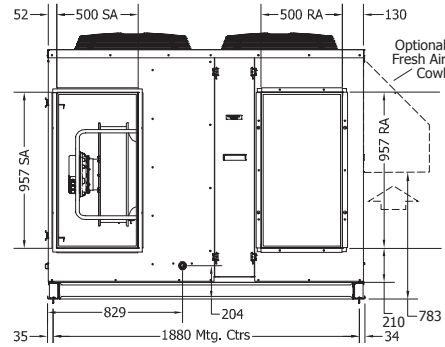
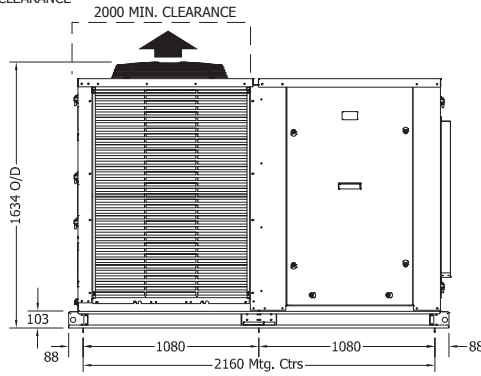


Not to Scale

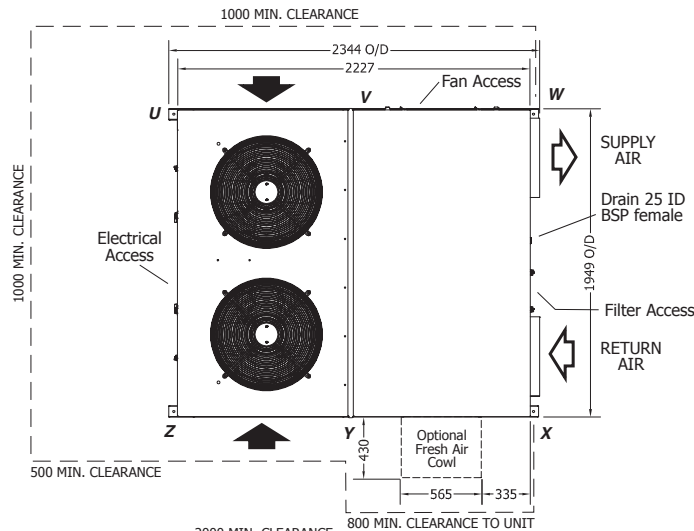
OPA 465RKTBG01-P(C) Standard Hand



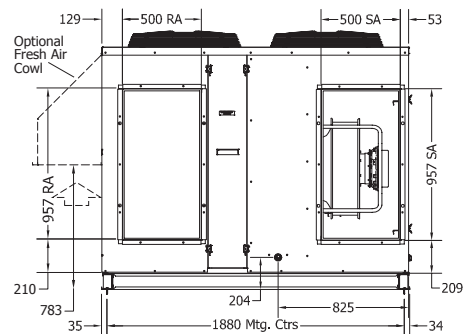
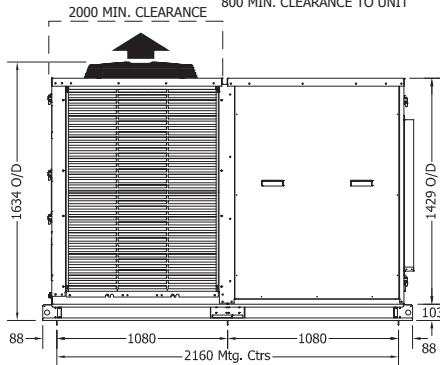
	POINT LOADS (kg)					
	U	V	W	X	Y	Z
no F/A	147	125	104	141	141	140
cw F/A	153	137	114	144	144	141



OPA 465RKTBG10-P(C) Opposite Hand



	POINT LOADS (kg)					
	U	V	W	X	Y	Z
no F/A	140	141	141	104	125	147
cw F/A	141	144	144	114	137	153

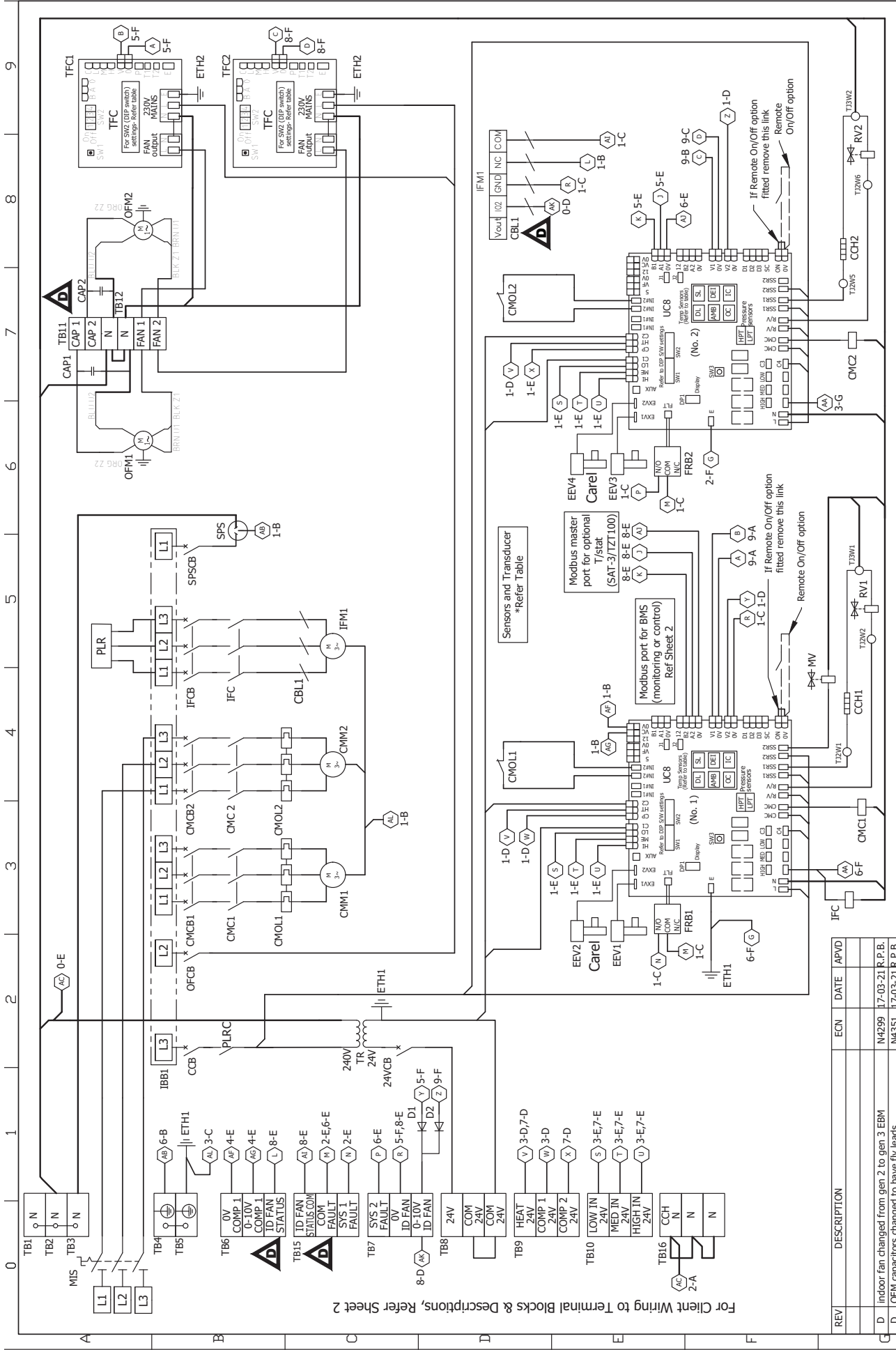


NOTE

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



WIRING



For Client Wiring to Terminal Blocks & Descriptions, Refer Sheet 2

REV	DESCRIPTION	ECN	DATE	APVD
D	Indoor fan changed from gen. 2 to gen 3 EBM		17-03-21	R.P.B.
D	OPM capacitors changed to have fly leads		17-03-21	R.P.B.

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DO NOT SCALE - ASK

Client Wiring

Drawn: C.M.W. Date: 15-06-16
 Approved: P.J.L. *PCL*

Title: OPA 465RKTBG-P UC8
 Wiring Schematic

Drawing No: 291-002-034
 SHEET 1 OF 2
 Rev: D

0	1	2	3	4	5	6	7	8	9																																																																																		
<p>Important Notes:</p> <p>1) Crankcase Heater Note 24 Hour power required for control circuit and crankcase heaters</p> <p>2) SAT-3 & TZT 100 Note To connect TZT100 to unit use 2 pair twisted cable - screen grounded. (F/UTP 24G (0.2mm²) 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>RED</td> </tr> <tr> <td>SL</td> <td>Suction Temp</td> <td>WHITE</td> </tr> <tr> <td>AMB</td> <td>Ambient Temp</td> <td>BLACK</td> </tr> <tr> <td>DEI</td> <td>De-ice Temp</td> <td>BLUE</td> </tr> <tr> <td>LPT</td> <td>Suction Pressure</td> <td></td> </tr> <tr> <td>HPT</td> <td>High Pressure</td> <td></td> </tr> </tbody> </table>		Sensors (S) / Transducers (T)			Name	Type	Colour	DL	Discharge Temp	RED	SL	Suction Temp	WHITE	AMB	Ambient Temp	BLACK	DEI	De-ice Temp	BLUE	LPT	Suction Pressure		HPT	High Pressure		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">SAT-3 & 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> </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	<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></th> </tr> </thead> <tbody> <tr> <td>1,2,4,6,7,10</td> <td>On</td> <td></td> </tr> <tr> <td>All Others Off</td> <td>Off</td> <td></td> </tr> </tbody> </table>		UC8 DIP switch settings (No.1)			DIP switch	On/Off		1,2,4,6,7,10	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></th> </tr> </thead> <tbody> <tr> <td>1,4,6,7,10</td> <td>On</td> <td></td> </tr> <tr> <td>All Others Off</td> <td>Off</td> <td></td> </tr> </tbody> </table>		UC8 DIP switch settings (No.2)			DIP switch	On/Off		1,4,6,7,10	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></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>On</td> <td></td> </tr> <tr> <td>1, 2, 3, 4</td> <td>Off</td> <td></td> </tr> </tbody> </table>		TFC DIP switch settings			DIP switch	On/Off		-	On		1, 2, 3, 4	Off	
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