

SPECIFICATIONS



Model	OPA 465RKTBG-PZ ECO
Configuration	Horizontal Supply Air c/w Economiser
Item No. (Standard / Opposite Hand)	867-047-701 / 867-047-710
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
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

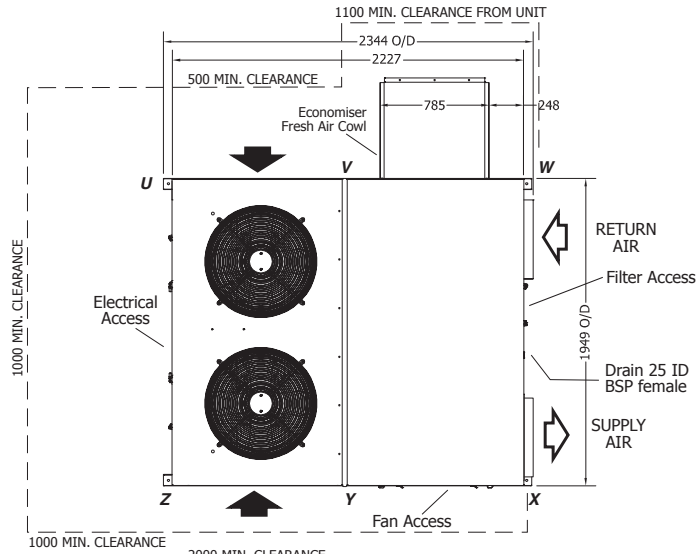
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DIMENSIONS (mm)

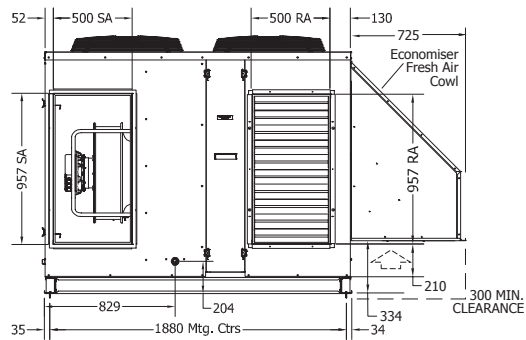
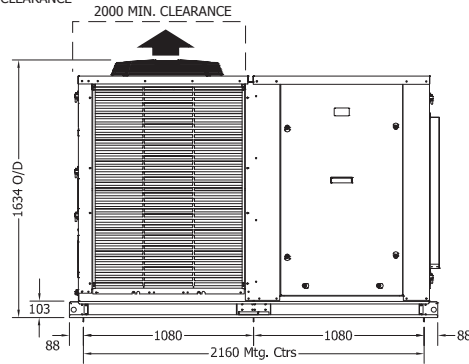


Not to Scale

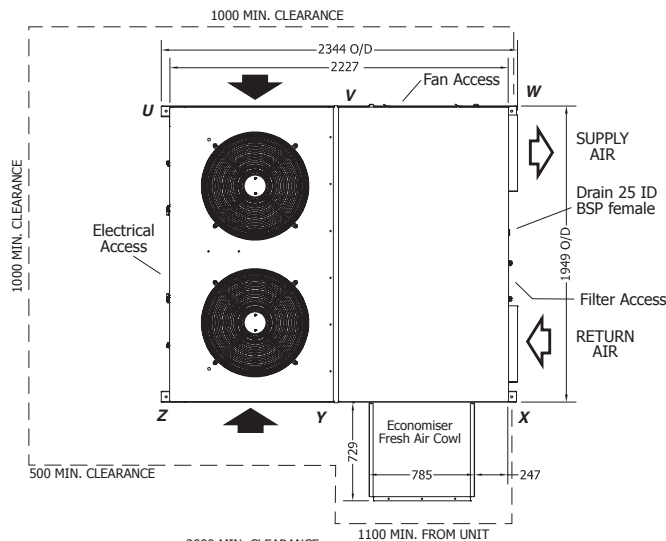
OPA 465RKTGB01-PZ Standard Hand



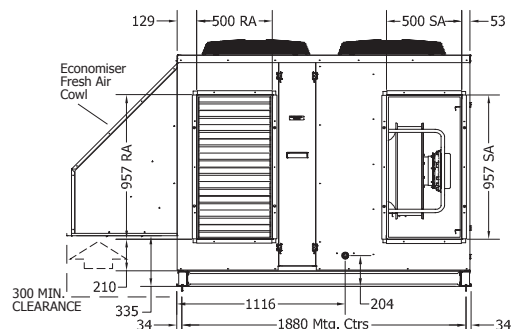
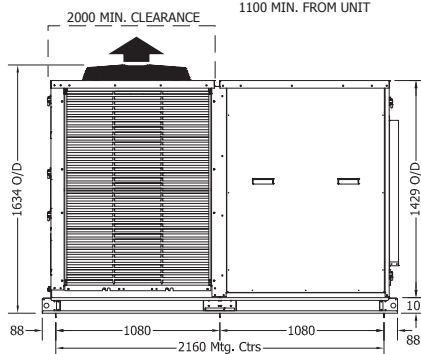
POINT LOADS (kg)					
U	V	W	X	Y	Z
158	144	124	146	144	142



OPA 465RKTGB10-PZ Opposite Hand



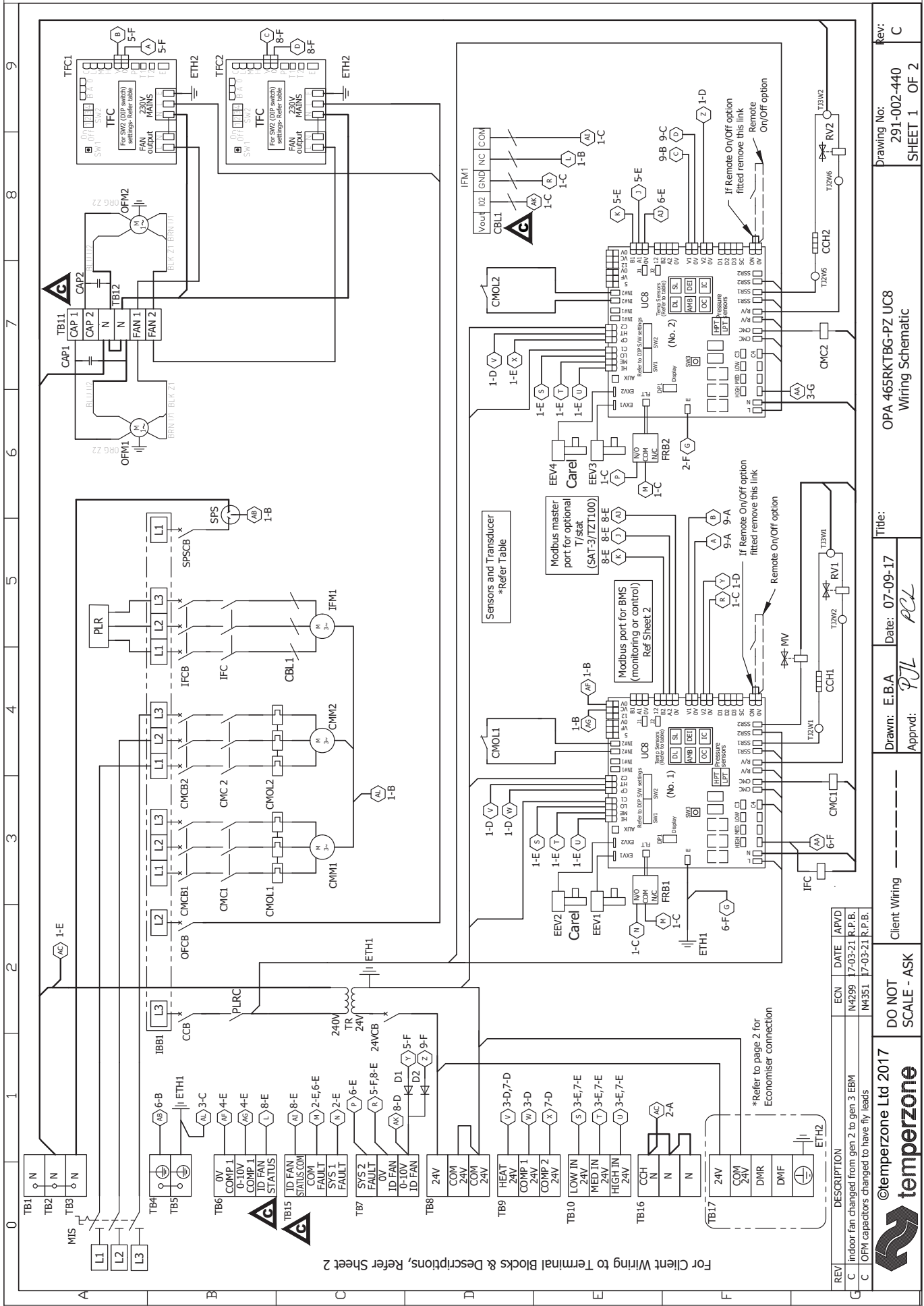
POINT LOADS (kg)					
U	V	W	X	Y	Z
142	144	146	124	144	158



NOTE

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





REV	DESCRIPTION	ECN	DATE	AP/VD
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.

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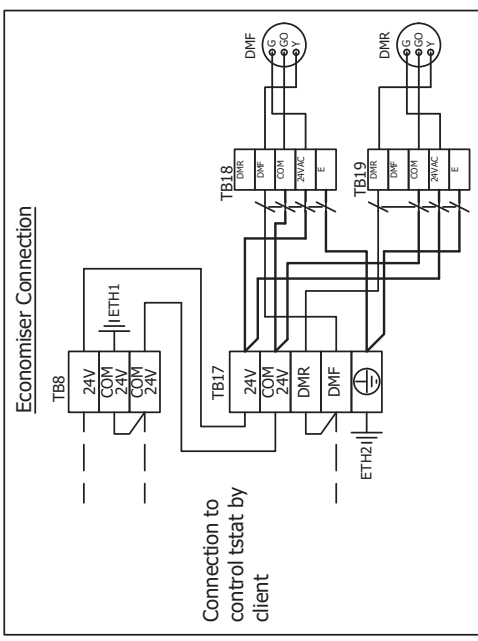
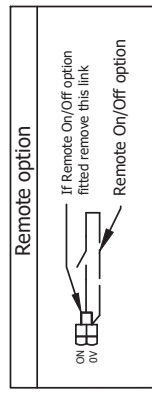
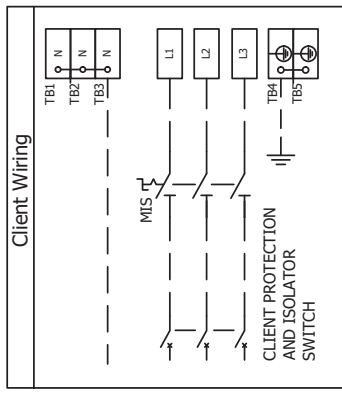
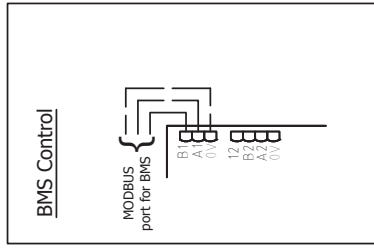
DO NOT SCALE - ASK Client Wiring

Drawn: E.B.A Date: 07-09-17
 Approved: P.J.L P.C.L

Title: OPA 465RKTBG-PZ UC8
 Wiring Schematic

Rev: 291-002-440
 SHEET 1 OF 2

0	1	2	3	4	5	6	7	8	9																																																																																				
<div style="display: flex; justify-content: space-between;"> <div style="width: 25%;"> <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> </div> <div style="width: 65%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Sensors (S) / Transducers (T)</th> <th>Name</th> <th>Type</th> <th>Colour</th> </tr> </thead> <tbody> <tr> <td>DL</td> <td>Discharge Temp</td> <td>S</td> <td>S</td> <td>RED</td> </tr> <tr> <td>SL</td> <td>Suction Temp</td> <td>S</td> <td>S</td> <td>WHITE</td> </tr> <tr> <td>AMB</td> <td>Ambient Temp</td> <td>S</td> <td>S</td> <td>BLACK</td> </tr> <tr> <td>DEI</td> <td>De-ice Temp</td> <td>S</td> <td>S</td> <td>BLUE</td> </tr> <tr> <td>LPT</td> <td>Suction Pressure</td> <td>T</td> <td>T</td> <td></td> </tr> <tr> <td>HPT</td> <td>High Pressure</td> <td>T</td> <td>T</td> <td></td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">SAT-3 & TZT100 connection to UC8 terminals</th> <th>UC8 terminals(No.1)</th> <th>SAT-3</th> <th>TZT100 Terminals</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>B2</td> <td>12V</td> <td>B</td> <td>24</td> </tr> <tr> <td>B2</td> <td>A2</td> <td>B</td> <td>A</td> <td>B</td> </tr> <tr> <td>A2</td> <td>0V</td> <td>GND</td> <td>A</td> <td>A</td> </tr> <tr> <td>0V</td> <td>Screen to 0V</td> <td></td> <td></td> <td>24C</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">UC8 DIP switch settings (No.1)</th> <th colspan="2">UC8 DIP switch settings (No.2)</th> </tr> </thead> <tbody> <tr> <td>DIP switch</td> <td>On/Off ↓</td> <td>DIP switch</td> <td>On/Off ↓</td> </tr> <tr> <td>1,2,4,6,7,10</td> <td>On</td> <td>1,4,6,7,10</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">TFC DIP switch settings</th> </tr> </thead> <tbody> <tr> <td>DIP switch</td> <td>On/Off</td> </tr> <tr> <td>1, 2, 3, 4</td> <td>On</td> </tr> <tr> <td></td> <td>Off</td> </tr> </tbody> </table> </div> </div>										Sensors (S) / Transducers (T)		Name	Type	Colour	DL	Discharge Temp	S	S	RED	SL	Suction Temp	S	S	WHITE	AMB	Ambient Temp	S	S	BLACK	DEI	De-ice Temp	S	S	BLUE	LPT	Suction Pressure	T	T		HPT	High Pressure	T	T		SAT-3 & TZT100 connection to UC8 terminals		UC8 terminals(No.1)	SAT-3	TZT100 Terminals	12	B2	12V	B	24	B2	A2	B	A	B	A2	0V	GND	A	A	0V	Screen to 0V			24C	UC8 DIP switch settings (No.1)		UC8 DIP switch settings (No.2)		DIP switch	On/Off ↓	DIP switch	On/Off ↓	1,2,4,6,7,10	On	1,4,6,7,10	On	All Others Off	Off	All Others Off	Off	TFC DIP switch settings		DIP switch	On/Off	1, 2, 3, 4	On		Off
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Connection to control tstat by client

- 24VCB
- CAP
- CABLE
- CCB
- CONTROL CIRCUIT BREAKER
- CCH
- CRANKCASE HEATER
- CMC
- COMPRESSOR CONTACTOR
- CMCB
- COMPRESSOR CIRCUIT BREAKER
- COMM
- COMPRESSOR MOTOR
- CMOL
- COMPRESSOR OVERLOAD
- DMF
- DAMPER MOTOR FRESH-AIR
- DMR
- DAMPER MOTOR RETURN-AIR
- EEV
- ELECTRONIC EXPANSION VALVE
- ETH
- FRB
- FAULT RELAY BOARD
- IFC
- INDOOR FAN CONTACTOR
- IFCB
- INDOOR FAN CIRCUIT BREAKER
- IFEM
- INDOOR FAN MOTOR
- IFBB
- INSULATED BUS BAR
- MIS
- MAIN ISOLATOR SWITCH
- MV
- MODULATING VALVE
- OFCB
- OUTDOOR FAN CIRCUIT BREAKER
- OEM
- OUTDOOR FAN MOTOR
- PLR
- PHASE LOSS RELAY
- PLRC
- PHASE LOSS RELAY CONTACT
- RV
- REVERSING VALVE
- SVS
- SINGLE PHASE SOCKET
- SPSCB
- SINGLE PHASE SOCKET CIRCUIT BREAKER
- TB
- TERMINAL BLOCK
- TFC
- TRIAC FAN CONTROLLER
- TJ
- TERMINAL JOINDER
- TR
- TRANSFORMER
- UC8
- UNIT CONTROLLER-8
- L1
- IBB1-L1 LINE SUPPLY
- L2
- IBB1-L2 LINE SUPPLY
- L3
- IBB1-L3 LINE SUPPLY