

SPECIFICATIONS



Model)	OPA 705RKTBG-PZ ECO
Configuration	Horizontal Supply Air c/w Economiser
Item No. (Standard / Opposite Hand)	867-071-701 / 867-071-710
Cooling capacity (net) to AS/NZS 3823 T1	67.9 kW
Heating capacity H1	67.5 kW
Electrical input - cooling	20 kW
Electrical input - heating	18 kW
EER / AEER (cooling)	3.30 / 3.28
COP / ACOP (heating)	3.75 / 3.73
Unit Controller	UC8 (x2)
Refrigerant	R410A
Refrigerant Charge	14 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.	16 A/ph. (x2)
Compressor overload setting	22 A (x2)
Compressor circuit breaker	40 A (x2)
Indoor fan motor size	EC Plug 500 dia. 2.65 kW (x2)
Nominal air flow at rating conditions	3700 l/s
Indoor fan motor (3ph.)	4.5 A/ph. (x2)
Outdoor fan motor (1ph.) - full load	1.7 A (x4)
Outdoor fan capacitor size	8 μ fd (x4)
Control circuit breaker (internal)	4 A
Single phase socket circuit breaker	10 A
Running amps (total system)	33 / 40 / 34 A
Max. running amps (total system)	46 / 54 / 47 A
Net weight	1173 kg

Accessories:

Filters - rated EU4/G4 disposable	019-400-008 500x450x50 (x9)
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Optional Controls:

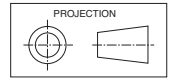
Viking controller	201-000-191
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Refer to temperzone for other options.

Tested in accordance with AS/NZS 3823

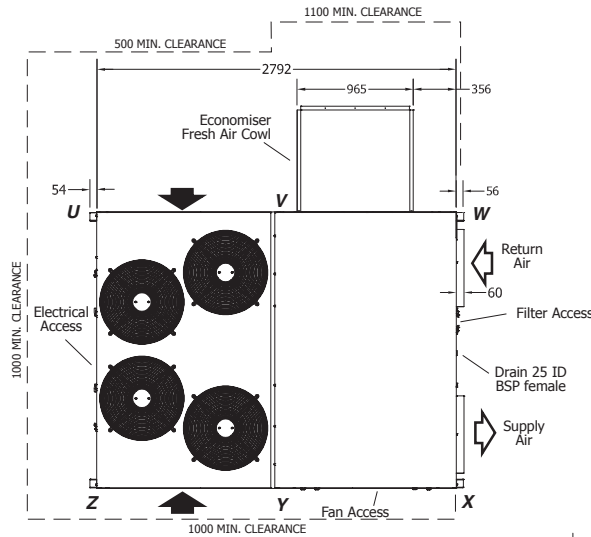
16085

DIMENSIONS (mm)

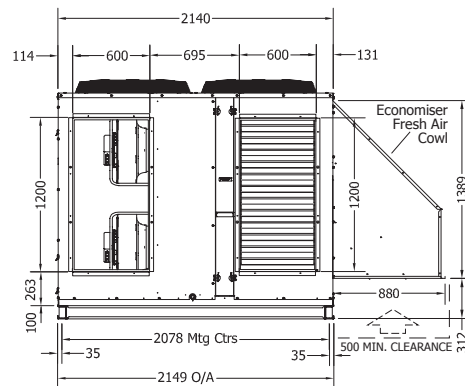
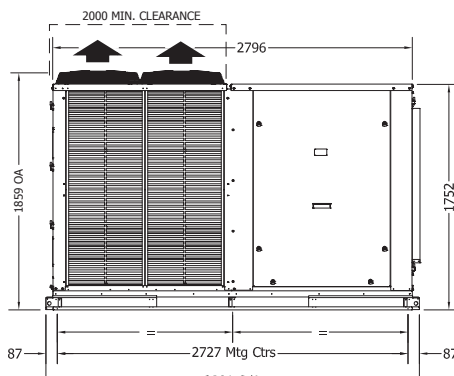


OPA 705RKTBG01-PZ Standard Hand

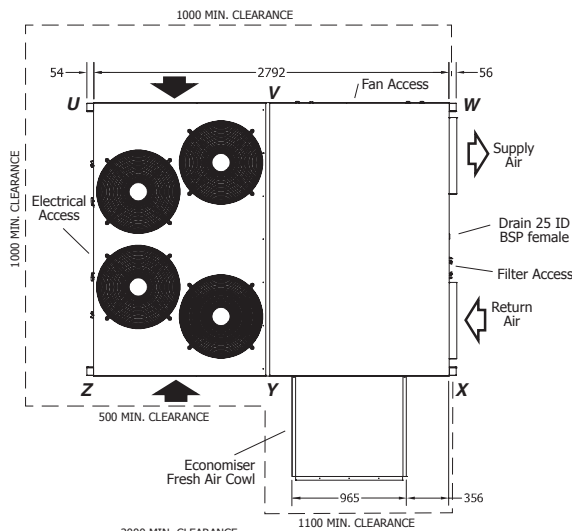
Not to Scale



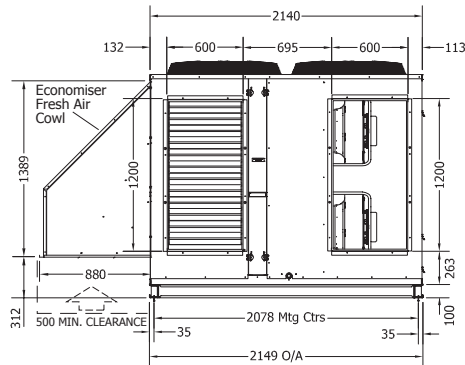
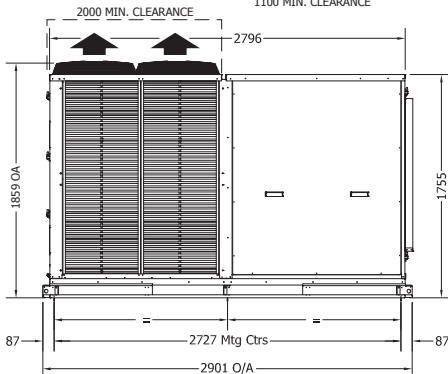
POINT LOADS (kg)					
U	V	W	X	Y	Z
237	194	177	180	188	197



OPA 705RKTBG10-PZ Opposite Hand



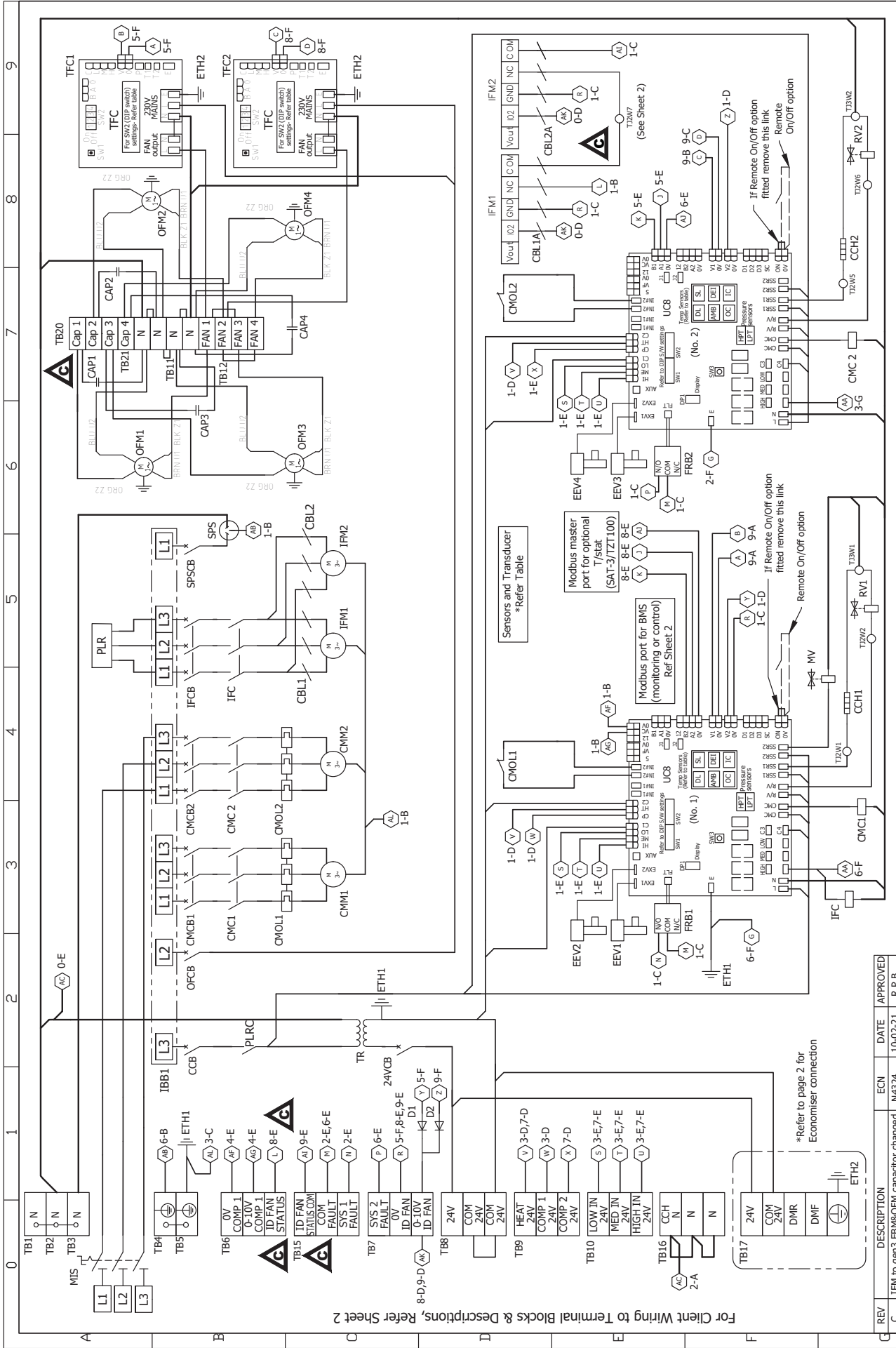
POINT LOADS (kg)					
U	V	W	X	Y	Z
197	188	180	177	194	237



NOTE

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





REV	DESCRIPTION	ECN	DATE	APPROVED
C	IFM1 to gen3 EBM&OFM capacitor changed	N4324	10-02-21	R.P.B.

Client Wiring	DO NOT SCALE - ASK
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Drawn: S.D.H.	Date: 09-11-16	Title: OPA 705RKTBG-PZ UC8 cw Economiser
Appvd: PTL		Wiring Schematic

Drawing No: 291-002-154	Rev: C
SHEET 1	OF 2



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Client Wiring

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Appvd: PTL

Title: OPA 705RKTBG-PZ UC8 cw Economiser
Wiring Schematic

Drawing No: 291-002-154
Rev: C
SHEET 1 OF 2

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

*Refer to page 2 for Economiser connection

Sensors and Transducer *Refer Table

Modbus master port for optional T/stat (SAT-3/TZ1.00)

Modbus port for BMS (monitoring or control) Ref Sheet 2

If Remote On/Off option fitted remove this link

If Remote On/Off option fitted remove this link

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(See Sheet 2)

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) Compressor Note Compressors fitted are directional. If rotation incorrect, compressor/s will not pump, be noisy, and draw minimal current. To correct rotation, reverse two phases.</p> <p>3) 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>4) 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>	<p>Sensors (S) / Transducers (T)</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>S</td> <td>RED</td> </tr> <tr> <td>SL</td> <td>S</td> <td>WHITE</td> </tr> <tr> <td>AMB</td> <td>S</td> <td>BLACK</td> </tr> <tr> <td>DEI</td> <td>S</td> <td>BLUE</td> </tr> <tr> <td>LPT</td> <td>T</td> <td></td> </tr> <tr> <td>HPT</td> <td>T</td> <td></td> </tr> </tbody> </table> <p>SAT-3 & TZT100 connection to UC8 terminals</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <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> <p>Screen to 0V</p> <p>UC8 DIP switch settings (No.1)</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</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table> <p>UC8 DIP switch settings (No.2)</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>1,4,6,7,10</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table> <p>TFC DIP switch settings</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, 3, 4</td> <td>Off</td> </tr> </tbody> </table>	Name	Type	Colour	DL	S	RED	SL	S	WHITE	AMB	S	BLACK	DEI	S	BLUE	LPT	T		HPT	T		UC8 terminals(No.1)	SAT-3	TZT100 Terminals	12	12V	24	B2	B	B	A2	A	A	0V	GND	24C	DIP switch	On/Off	1,2,4,6,7,10	On	All Others Off	Off	DIP switch	On/Off	1,4,6,7,10	On	All Others Off	Off	DIP switch	On/Off	1, 2, 3, 4	Off	<p>Client Wiring</p> <p>Client Protection and Isolator Switch</p> <p>Remote option</p> <p>If Remote On/Off option fitted remove this link</p> <p>Remote On/Off option</p>	<p>BMS Control</p>		<p>Connection to control tstat by client</p>
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