

SPECIFICATIONS



Model	OPA 705RKTB
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	856-071-901 / 856-071-910
Cooling capacity (net) to AS/NZS 3823 T1	66.0 kW
Heating capacity H1	66.4 kW
Electrical input - cooling	21 kW
Electrical input - heating	19 kW
EER / AEER (cooling)	3.20 / 3.18
COP / ACOP (heating)	3.49 / 3.47
Unit Controller	UC8 (x2)
Refrigerant	R410A
Refrigerant Charge	14 kg/sys.
Compressor oil type	POE 32-3MAF (or equivalent)
Compressor type	fixed scroll (x2)
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	5.5 kW
Indoor fan motor overload setting	10.5 A
Nominal air flow at rating conditions	3600 l/s
Indoor fan motor (3ph.) - full load	10 A/ph.
Outdoor fan motor (1ph.) - full load	1.7 A (x4)
Outdoor fan capacitor size	8 μ fd (x4)
Control circuit breaker (internal)	4 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system)	38 / 45 / 39 A
Max. running amps (total system)	48 / 56 / 49 A
Net weight	1126 kg

Accessories:

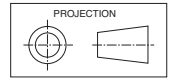
Filters - rated EU4/G4 disposable	019-400-008 450x500x50 (x9)
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Optional Controls:

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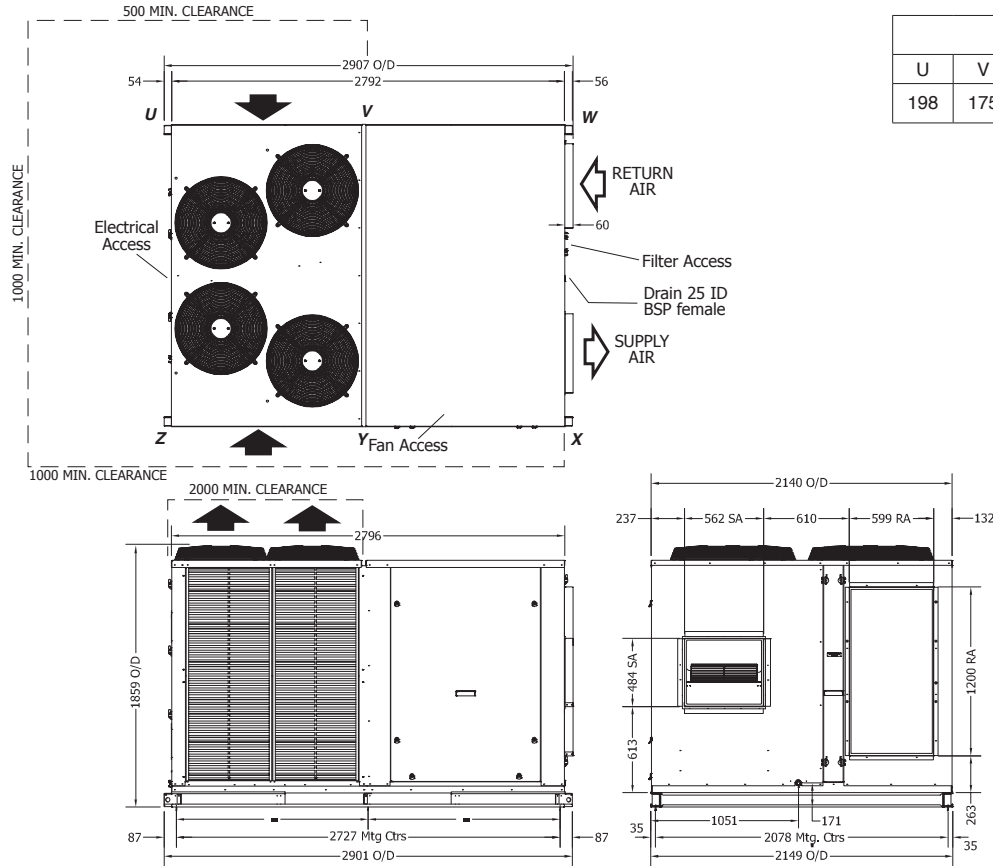
Refer to temperzone for other options.

DIMENSIONS (mm)



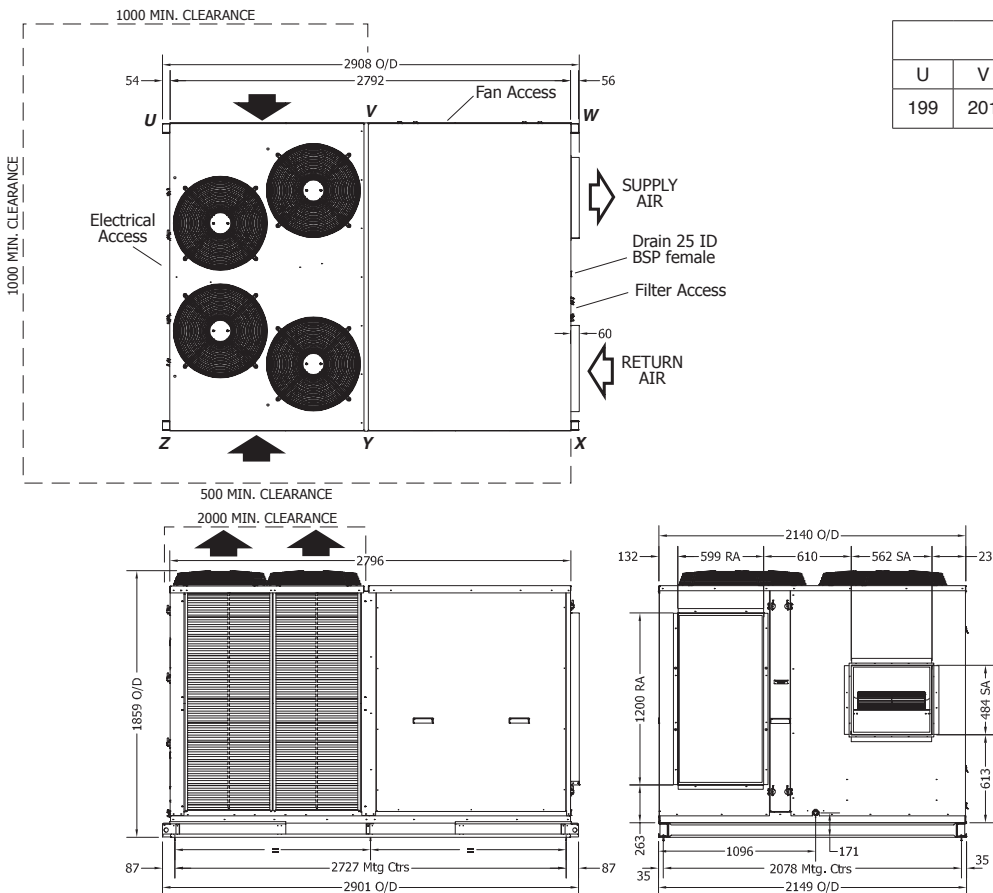
OPA 705RKTB01 Standard Hand

Not to Scale



POINT LOADS (kg)					
U	V	W	X	Y	Z
198	175	152	201	201	199

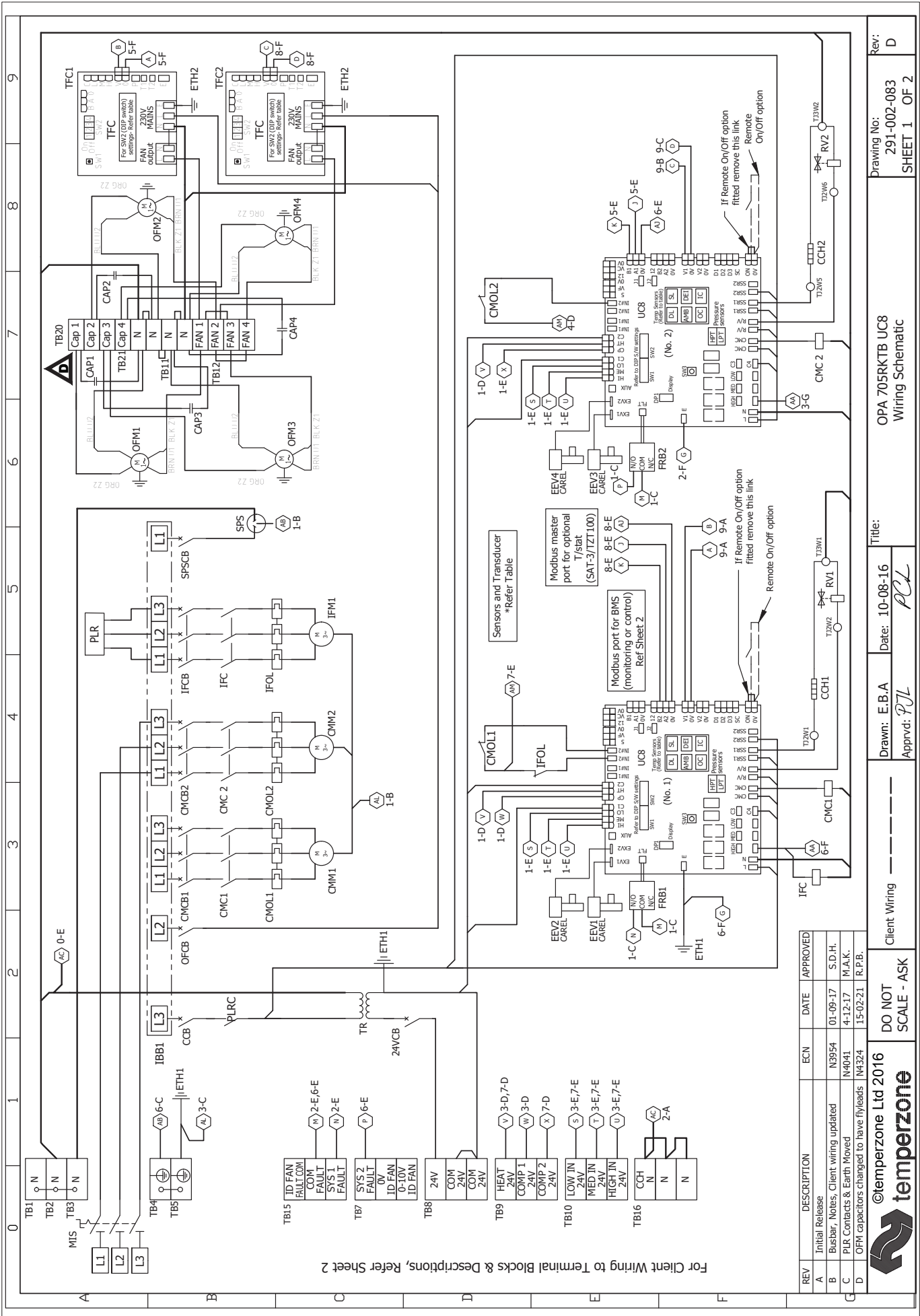
OPA 705RKTB10 Opposite Hand



POINT LOADS (kg)					
U	V	W	X	Y	Z
199	201	201	152	175	198

NOTE

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



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

REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			
B	Busbar, Notes, Client wiring updated	N3954	01-09-17	S.D.H.
C	PLR Contacts & Earth Moved	N4041	4-12-17	M.A.K.
D	OPN capacitors changed to have fileheads	N4324	15-02-21	R.P.B.



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DO NOT SCALE - ASK

Client Wiring

Drawn: E.B.A
 Date: 10-08-16
 PCL

Title: OPA 705RKTB UC8
 Wiring Schematic

Rev: D
 Drawing No: 291-002-083
 SHEET 1 OF 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) 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 ON 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 Discharge Temp</td> <td>S</td> <td>RED</td> </tr> <tr> <td>SL Suction Temp</td> <td>S</td> <td>WHITE</td> </tr> <tr> <td>AMB Ambient Temp</td> <td>S</td> <td>BLACK</td> </tr> <tr> <td>DEI De-ice Temp</td> <td>S</td> <td>BLUE</td> </tr> <tr> <td>LPT Suction Pressure</td> <td>T</td> <td></td> </tr> <tr> <td>HPT 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="2">SAT-3 & TZT100 connection to UC8 terminals</th> </tr> <tr> <th>UC8 terminals(No.1)</th> <th>SAT-3</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>12V</td> </tr> <tr> <td>B2</td> <td>B</td> </tr> <tr> <td>A2</td> <td>A</td> </tr> <tr> <td>0V</td> <td>GND</td> </tr> <tr> <td>Screen to 0V</td> <td>24C</td> </tr> </tbody> </table>	SAT-3 & TZT100 connection to UC8 terminals		UC8 terminals(No.1)	SAT-3	12	12V	B2	B	A2	A	0V	GND	Screen to 0V	24C	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">UC8 DIP switch settings (No.1)</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>1,4,5,7,10</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table>	UC8 DIP switch settings (No.1)		DIP switch	On/Off	1,4,5,7,10	On	All Others Off	Off	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">UC8 DIP switch settings (No.2)</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>1,4,5,7,10</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table>	UC8 DIP switch settings (No.2)		DIP switch	On/Off	1,4,5,7,10	On	All Others Off	Off	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">TFC DIP switch settings</th> </tr> <tr> <th>DIP switch</th> <th>On/Off</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>On</td> </tr> <tr> <td>1, 2, 3, 4</td> <td>Off</td> </tr> </tbody> </table>	TFC DIP switch settings		DIP switch	On/Off	-	On	1, 2, 3, 4	Off	<p>Client Wiring</p> <p>Remote option</p> <p>If Remote On/Off option fitted remove this link</p> <p>Remove On/Off option</p>	<p>BMS Control</p>
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