

# SPECIFICATIONS



<b>Model)</b>	<b>OPA 705RKTBG-P ECO</b>
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	866-071-701 / 866-071-710
Unit c/w Fresh Air Cowl (OPA 705RKTBG-PC)	868-071-701 / 868-071-710
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 $\mu$ 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	1105 kg
Weight c/w Fresh Air Cowl option	1144 kg

## Accessories:

Filters - rated EU4/G4 disposable	019-400-008 500x450x50 (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.

Tested in accordance with AS/NZS 3823

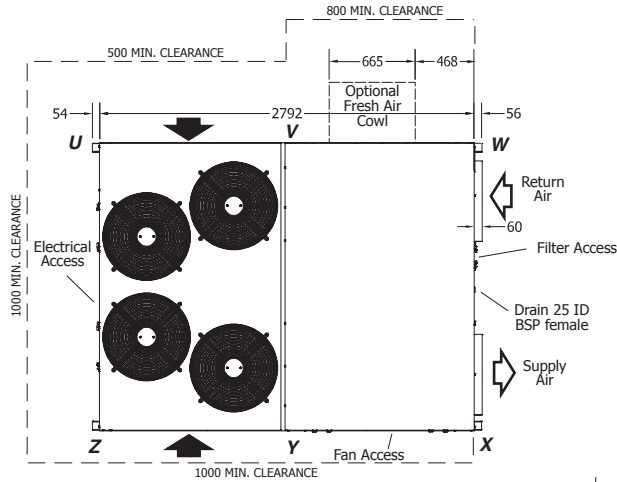
16085

# DIMENSIONS (mm)

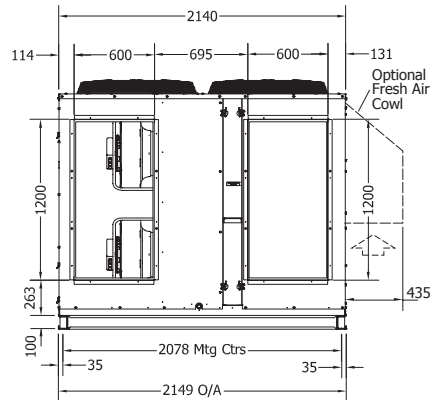
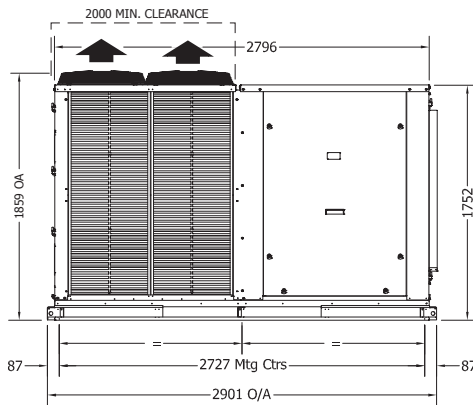


## OPA 705RKTBG01-P(C) Standard Hand

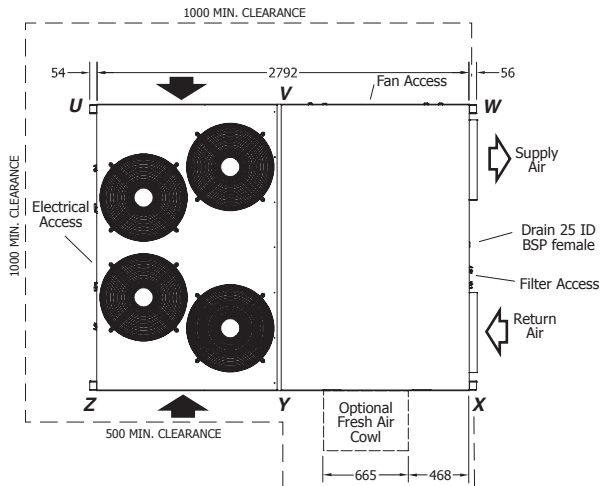
Not to Scale



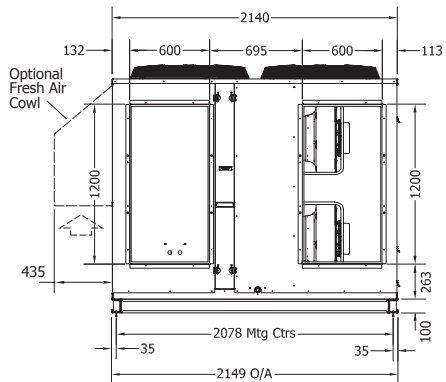
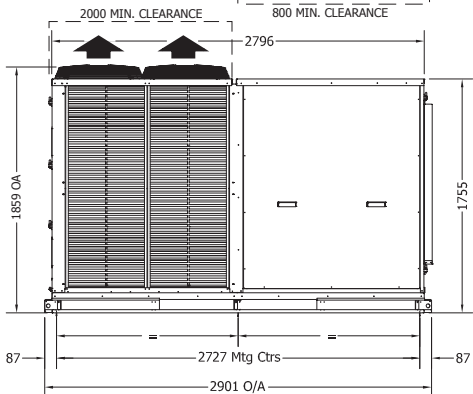
	POINT LOADS (kg)					
	U	V	W	X	Y	Z
no F/A	195	173	151	190	195	201
cw F/A	216	189	164	185	191	199



## OPA 705RKTBG10-P(C) Opposite Hand



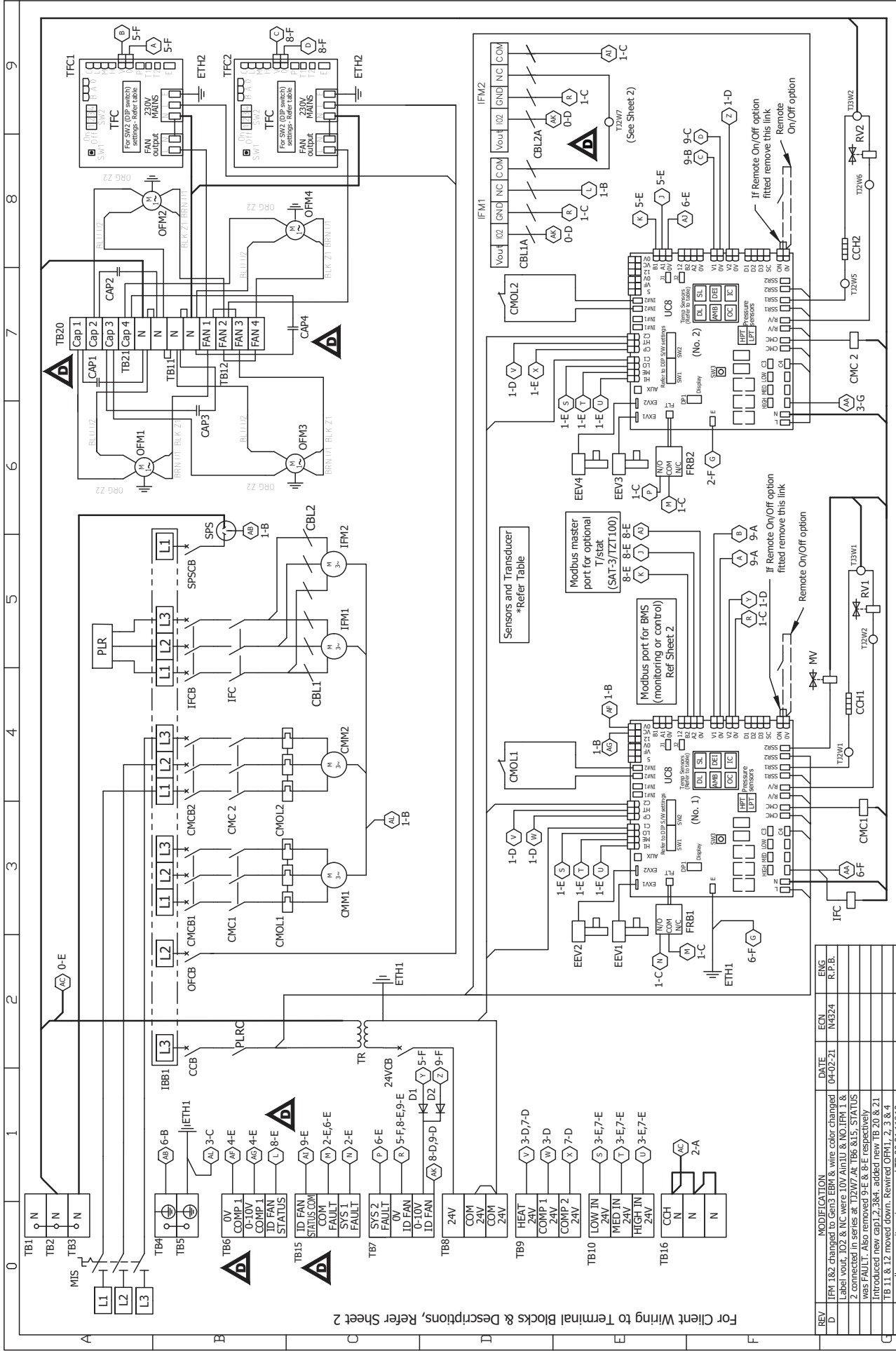
	POINT LOADS (kg)					
	U	V	W	X	Y	Z
no F/A	201	195	190	151	173	195
cw F/A	199	191	185	164	189	216



### 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	MODIFICATION	DATE	ECN	ENG
D	IFM 182 changed to Gen's EBM & wire color changed Label volt, IO2 & NC were 10V An1U & NO, IFM 1 & 2 connected in series at T12W7 at TB6 8.15. STATUS was FAULT. Also removed 9-E & 8-E respectively introduced new cap1, 2, 3&4, added new TB 20 & 21 TB 11 & 12 moved down. Rewired OFM1, 2, 3 & 4 as well as capacitor wires around TB 20, 21, 11&12	04-02-21	IN4324	R.P.B.

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DO NOT SCALE - ASK

Client Wiring

Drawn: S.D.H. Date: 26-05-16

Approved: *PJL*

Title: OPA 705RKTBG-P UC8 Wiring Schematic

Drawing No: 291-002-020 SHEET 1 OF 2

Rev: D

0	1	2	3	4	5	6	7	8	9
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**Important Notes:**

1) Crankcase Heater Note  
24 Hour power required for control circuit and crankcase heaters

2) SAT-3 & 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)

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

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	

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

UC8 DIP switch settings (No.1)		
DIP switch	↑ On/Off ↓	On/Off
1,2,4,6,7,10	On	On
All Others Off	Off	Off

UC8 DIP switch settings (No.2)		
DIP switch	↑ On/Off ↓	On/Off
1,4,6,7,10	On	On
All Others Off	Off	Off

TFC DIP switch settings		
DIP switch	On/Off	On/Off
1, 2, 3, 4	On	Off

**Client Protection and Isolator Switch**

**BMS Control**

**Remote option**

IFM1

IFM2

Brown

Grey

NC

CON

T32W7

Connector/joiner  
(To be placed in E-Box)

REV	MODIFICATION	DATE	ECN	ENG
D	IFM1 & 2 changed to Con-3 IFM1 & wire color changed Label vol. 102 & NC wire 10V AirtLU & NO IFM 1 & 2 connected in series at T32W7 AT TB6 8,15, STATUS was FAULT Also removed 9-E & 8-E respectively Introduced new capL1 2 3&4 added new TB 20 & 21 TB 11 & 12 moved down. Revised OFM1 - 2, 3 & 4 as well as capacitor wires around TB 20,21,11&12	04-02-21	146324	R.P.B.

Client Wiring

DO NOT SCALE - ASK

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Drawn: S.D.H.    Date: 26-05-16    PCL

Appvd: PTL

Title: OPA 705RKTBG-P UC8 Wiring Schematic

Drawing No: 291-002-020 SHEET 2 OF 2

Rev: D