

SPECIFICATIONS



| Model | OPA 705RKTBG-P ECO |
|--|------------------------------|
| Configuration | Downward Discharge |
| Item No. (Standard / Opposite Hand) | 866-071-723 / 866-071-732 |
| Unit c/w Fresh Air Cowl (OPA 705RKTBG-PC) | 868-071-723 / 868-071-732 |
| 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. 2.65kW (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 |
| Auxiliary power outlet (1ph.) overload setting | 10 A |
| Running amps (total system) | 33 / 40 / 34 A |
| Max. running amps (total system) | 46 / 54 / 47 A |
| Net weight | 1124 kg |
| Weight c/w Fresh Air Cowl option | 1158 kg |

Accessories:

| | |
|-----------------------------------|-----------------------------|
| Filters - rated EU4/G4 disposable | 019-400-008 500x450x50 (x9) |
|-----------------------------------|-----------------------------|

Optional Controls:

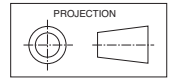
| | |
|-------------------------------------|-------------|
| TZT-100 Room temperature controller | 201-000-350 |
|-------------------------------------|-------------|

Refer to temperzone for other options.

Tested in accordance with AS/NZS 3823

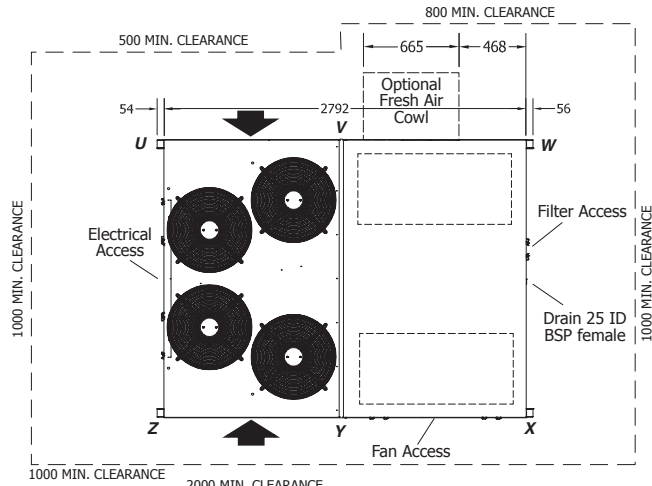
16085

DIMENSIONS (mm)

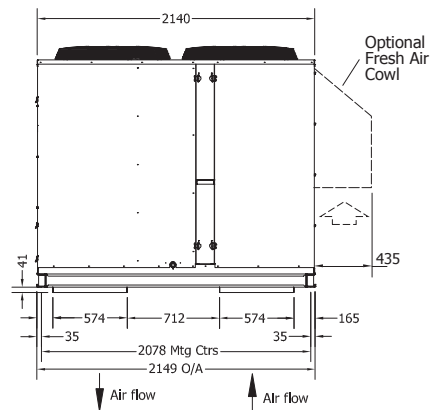
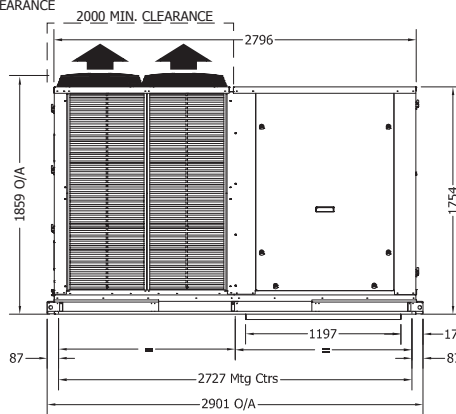


OPA 705RKTBG23-P(C) Standard Hand

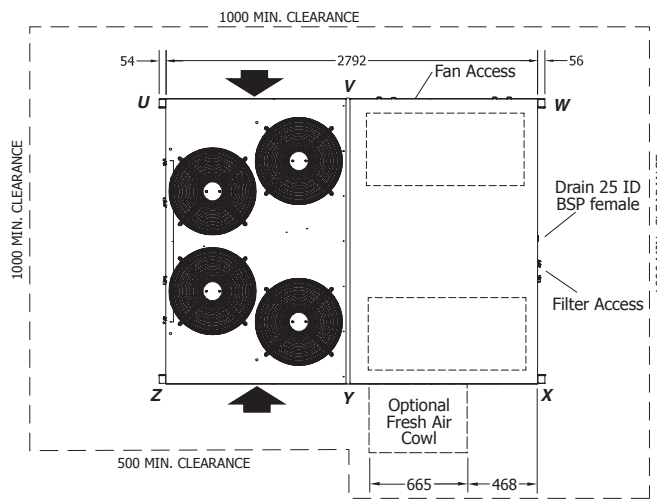
Not to Scale



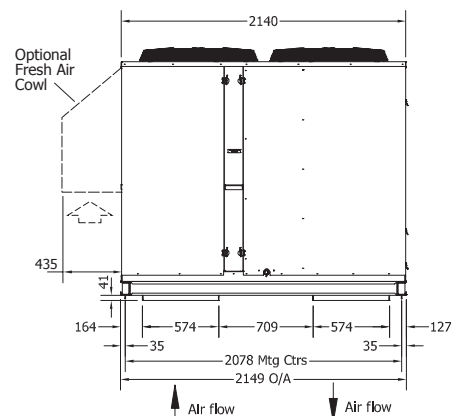
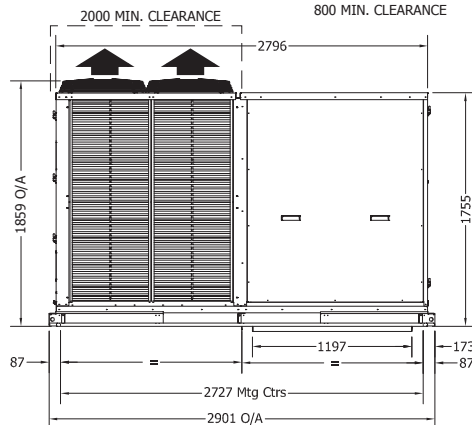
| | POINT LOADS (kg) | | | | | |
|--------|------------------|-----|-----|-----|-----|-----|
| | U | V | W | X | Y | Z |
| no F/A | 195 | 175 | 155 | 195 | 200 | 205 |
| cw F/A | 216 | 185 | 168 | 190 | 196 | 203 |



OPA 705RKTBG32-P(C) Opposite Hand



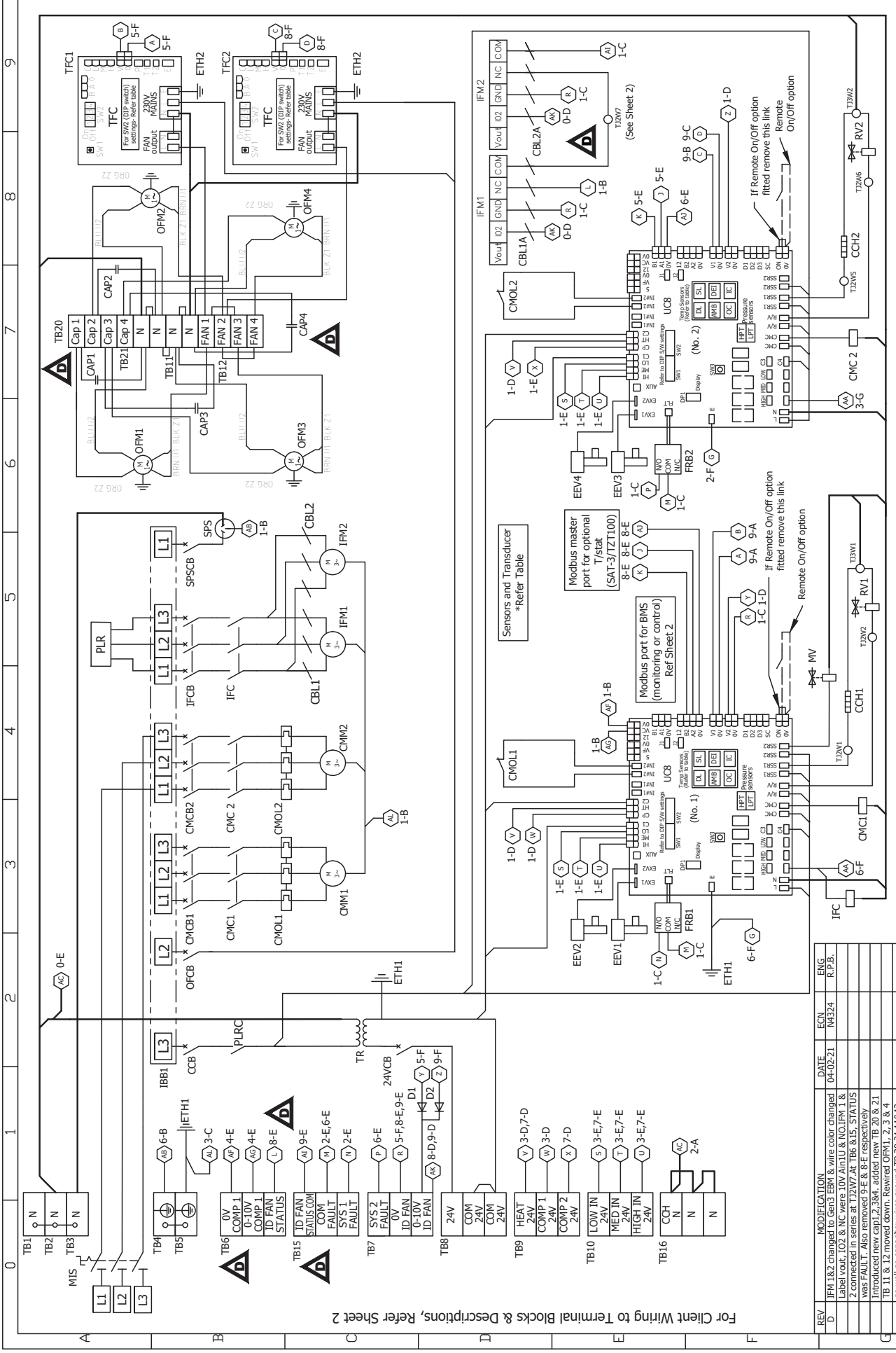
| | POINT LOADS (kg) | | | | | |
|--------|------------------|-----|-----|-----|-----|-----|
| | U | V | W | X | Y | Z |
| no F/A | 205 | 200 | 195 | 155 | 175 | 195 |
| cw F/A | 203 | 196 | 190 | 168 | 185 | 216 |



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 1&2 changed to Gen3 EBM & wire color changed Label vout, IO2 & Nc were 1.0V Ah1U1 & NO,IFM 1 & 2 connected in series at T2W7 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 & 4 as well as capacitor wires around TB 20,21,11&12 | 04-02-21 | N4324 | R.P.B. |

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Client Wiring

DO NOT SCALE - ASK

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

Approved: *PJL* *ACL*

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 | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------------------|------------|-----|---------------------------|---|---|---|---|--|--------------|--------------------------------|---------------------|----------------|------------|------------|--|--------------|-------|--------------|-------|----------------|-------------|----------------|-----|------------------|-----|--------------|---------------|--|
| <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%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Client Wiring</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Remote option</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>BMS Control</p> </div> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Sensors (S) / Transducers (T) | | Colour | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DL | Discharge Temp | RED | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SL | Suction Temp | WHITE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AMB | Ambient Temp | BLACK | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SAT-3 & TZT100 connection to UC8 terminals | | TZT100 Terminals | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UC8 terminals(No.1) | SAT-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 12V | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B2 | B | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2 | A | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0V | GND | 24C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DIP switch | On/Off | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1, 2, 3, 4 | Off | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1, 2, 3, 4 | Off | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Client Wiring</p> | | | | | <p>Client Wiring</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Drawn: S.D.H. Date: 26-05-16</p> | | | | | <p>PCA</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Apprvd: PJJ</p> | | | | | <p>PCA</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Title: OPA 705RKTBG-P UC8 Wiring Schematic</p> | | | | | <p>Rev: D</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Drawing No: 291-002-020</p> | | | | | <p>SHEET 2 OF 2</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

