

SPECIFICATIONS



Model	OPA 550RKTBG-PZ ECO
Configuration	Downward Supply Air c/w Economiser
Item No. (Standard / Opposite Hand)	867-055-723 / 867-055-732
Cooling capacity (net) to AS/NZS 3823 T1	52.9 kW
Heating capacity H1	53.4 kW
Electrical input - cooling	18.1 kW
Electrical input - heating	15.5 kW
EER / AEER (cooling)	2.93 / 2.92
COP / ACOP (heating)	3.35 / 3.34
Unit Controller	UC8 (x2)
Refrigerant	R410A
Refrigerant Charge	9.5 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.	14 A/ph. (x2)
Compressor overload setting	17 / 17 A
Compressor circuit breaker	32 A (x2)
Indoor fan motor size	EC plug 560 dia. 3.5kW
Nominal air flow at rating conditions	2800 l/s
Indoor fan motor (3ph.) - full load	6 A/ph.
Outdoor fan motor (1ph.) - full load	4.5 A (x2)
Outdoor fan capacitor size	n/a
Control circuit breaker (internal)	2 A
Single phase socket circuit breaker	10 A
Running amps (total system)	29 / 38 / 29 A
Max. running amps (total system)	36 / 46 / 37 A
Net weight	938 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

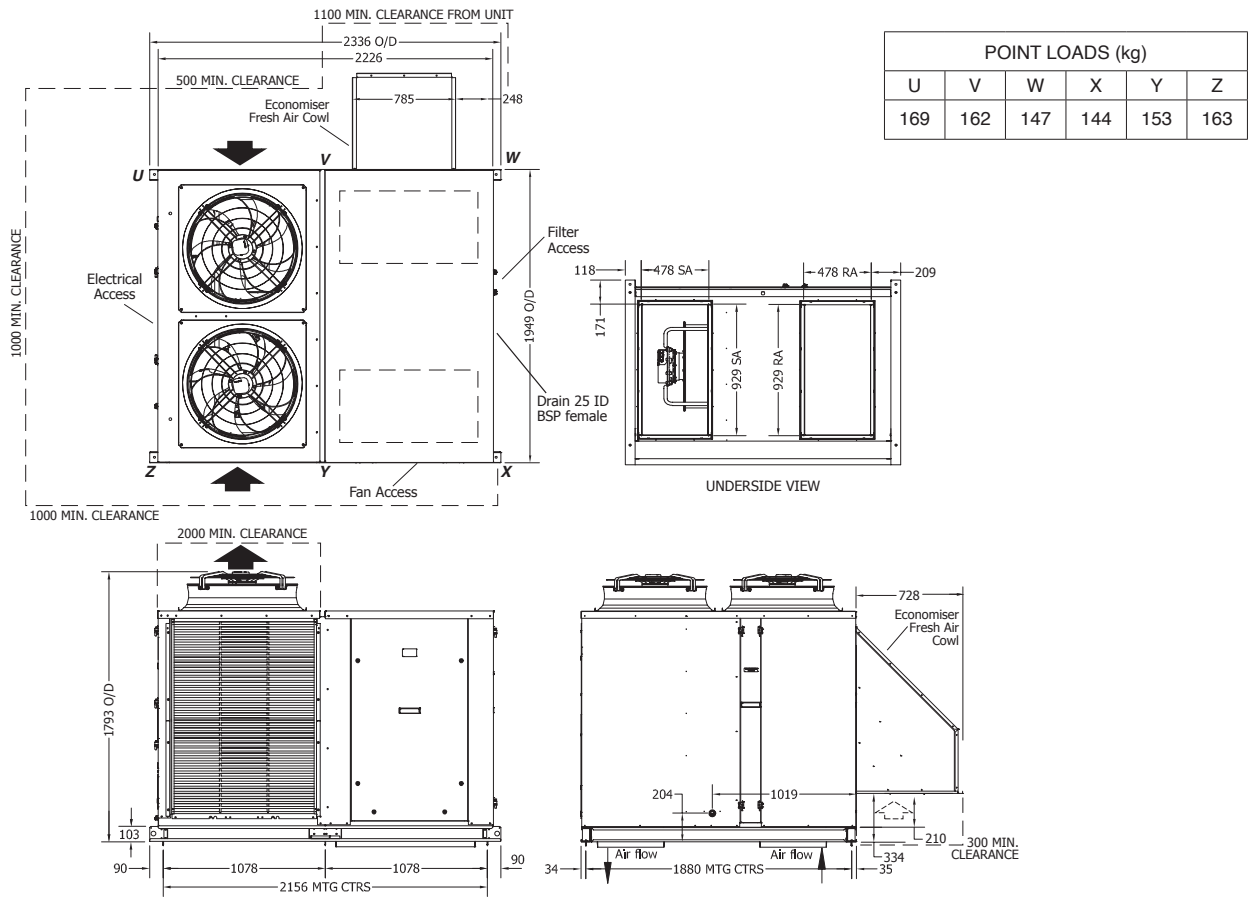
16120

DIMENSIONS (mm)

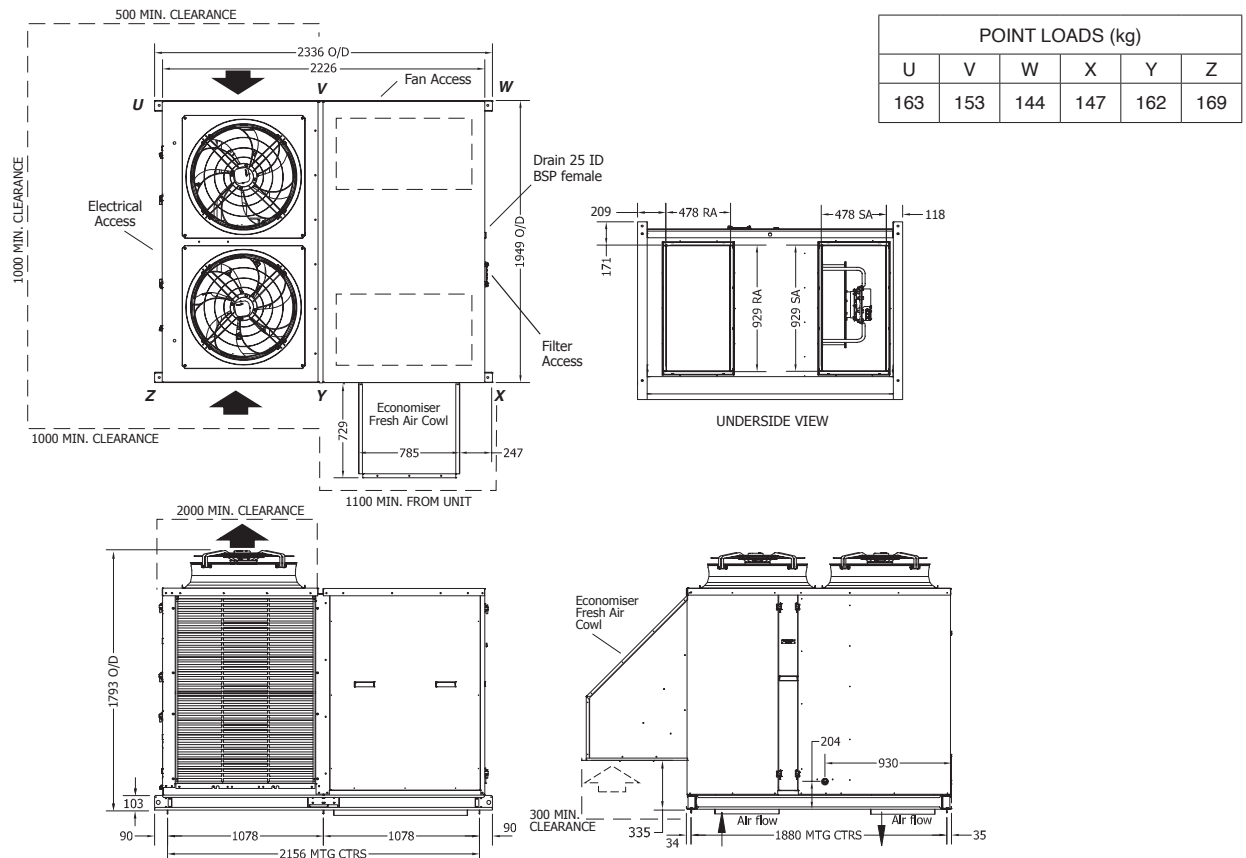


Not to Scale

OPA 550RKTBG23-PZ Standard Hand



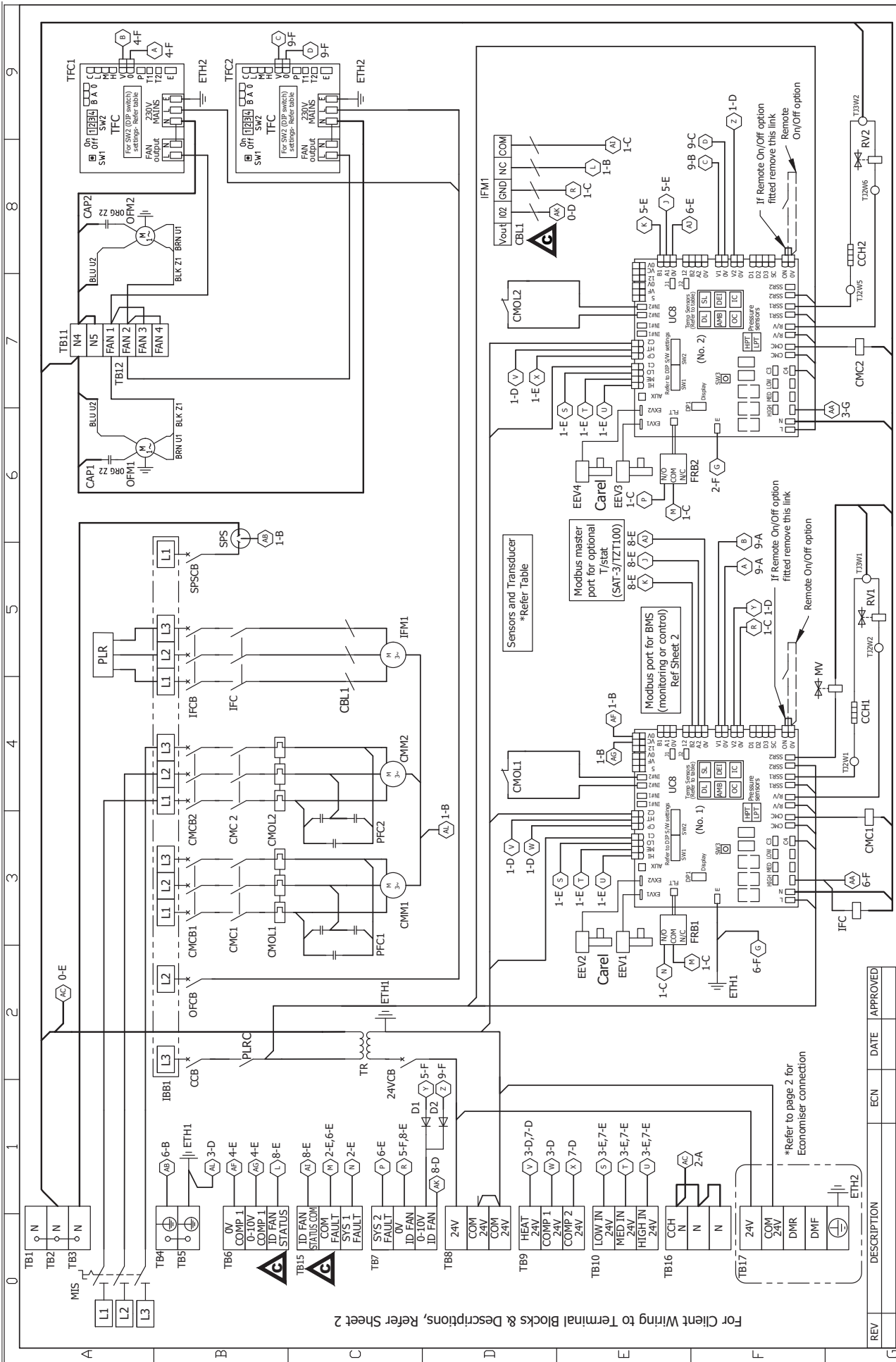
OPA 550RKTBG32-PZ Opposite Hand



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
C	Indoor fan changed gen 2 to gen 3 EBM	N4370	18-03-21	R.P.B.

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DO NOT SCALE - ASK

Client Wiring

Drawn: E.B.A Date: 08-09-17
 Appvd: P.J.L

Title: OPA 550RKTBG-PZ UC8
 Wiring Schematic

Drawing No: 291-002-443
 SHEET 1 OF 2
 Rev: C

0123456789

ABCDEFG

Important Notes:

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

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

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)

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	

Client Wiring

BMS Control

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
1,2,4,6,7,10	On
All Others Off	Off

UC8 DIP switch settings (No.2)

DIP switch	On/Off
1,4,6,7,10	On
All Others Off	Off

TFC DIP switch settings

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

Remote option

Economiser Connection

Connection to control tsat by client

24VCB	24 VOLT CIRCUIT BREAKER
CAP	CAPACITOR
CBL	CABLE
CCB	CONTROL CIRCUIT BREAKER
CCH	CRANKCASE HEATER
CMC	COMPRESSOR CONTACTOR
CMCB	COMPRESSOR CIRCUIT BREAKER
CMM	COMPRESSOR MOTOR
CMOL	COMPRESSOR OVERLOAD
DMF	DAMPER MOTOR FRESH-AIR
DMR	DAMPER MOTOR RETURN-AIR
EEV	ELECTRONIC EXPANSION VALVE
ETH	EARTH
FRB	FAULT RELAY BOARD
IFC	INDOOR FAN CONTACTOR
IFCB	INDOOR FAN CIRCUIT BREAKER
IFM	INDOOR FAN MOTOR
IBB	INSULATED BUS BAR
MIS	MAIN ISOLATOR SWITCH
MV	MODULATING VALVE
OFCB	OUTDOOR FAN CIRCUIT BREAKER
OFM	OUTDOOR FAN MOTOR
PFM	POWER FACTOR CORRECTION
PLR	PHASE LOSS RELAY
PLRC	PHASE LOSS RELAY CONTACT
RV	REVERSING VALVE
SPS	SINGLE PHASE SOCKET
SPSCB	SINGLE PHASE SOCKET CIRCUIT BREAKER
TB	TERMINAL BLOCK
TFC	TRIAC FAN CONTROLLER
TJ	TERMINAL JOINER
TR	TRANSFORMER
UC8	UNIT CONTROLLER 8
L1	IBB1 L1 LINE SUPPLY
L2	IBB1 L2 LINE SUPPLY
L3	IBB1 L3 LINE SUPPLY

REV	DESCRIPTION	ECN	DATE	APPROVED
C	Indoor fan changed from gen 2 to gen 3 EBM	N4370	18-03-21	R.P.B.

DO NOT SCALE - ASK

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Client Wiring

ECN: N4370

DATE: 18-03-21

APPROVED: R.P.B.

Drawn: E.B.A

Apprv: P.J.L

Date: 08-09-17

ACL

Title: OPA 550RKTBG-PZ UC8 Wiring Schematic

Drawing No: 291-002-443

SHEET 2 OF 2

Rev: C