SPECIFICATIONS

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Model Configuration Item No. (Standard / Opposite Hand)	**OPA 855RKTBG-PZ ECO** Downward Supply Air c/w Economiser 867-086-723 / 867-086-732
Cooling capacity (net) to AS/NZS 3823 T1	79.4 kW
Heating capacity H1	78.0 kW
Electrical input - cooling	25.6 kW
Electrical input - heating	23.8 kW
EER / AEER (cooling)	3.10 / 3.09
COP / ACOP (heating)	3.28 / 3.27
Unit Controller	UC8 (x2)
Refrigerant	R410A
Refrigerant Charge	15 kg/sys.
Compressor oil type	POE 32-3MAF (or equivalent)
Compressor type	digital scroll (x2)
Power supply	3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps at rating cond.	21 A/ph. (x2)
Compressor overload setting	28 A (x2)
Compressor circuit breaker	63 A (x2)
Indoor fan motor size	EC Plug 500 dia. 2.65kW (x2)
Nominal air flow at rating conditions	4200 l/s
Indoor fan motor (3ph.)	4.5 A/ph. (x2)
Outdoor fan motor (1ph.) - full load	1.7 A (x4)
Oudoor fan capacitor size	8 μfd (x4)
Control circuit breaker (internal)	4 A
Single phase socket circuit breaker	10 A
Running amps (total system)	45 / 52 / 45 A
Max. running amps (total system)	58 / 64 / 56 A
Net weight	1214 kg

Accessories:

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

Optional Controls:

Viking controller	201-000-191

Refer to temperzone for other options.

Tested in accordance with AS/NZS 3823

16090

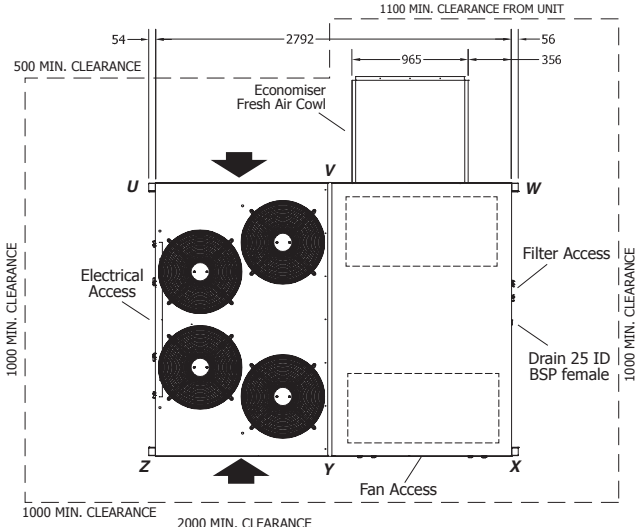
eco series

DIMENSIONS (mm)

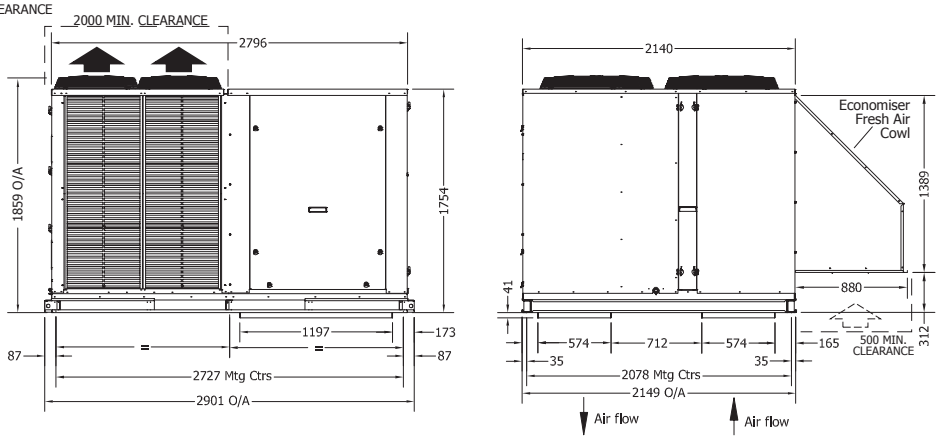
PROJECTION

Not to Scale

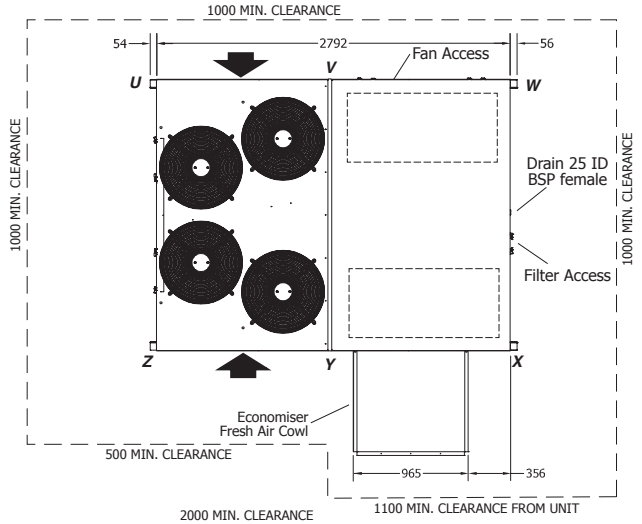
OPA 855RKTBG23-PZ Standard Hand



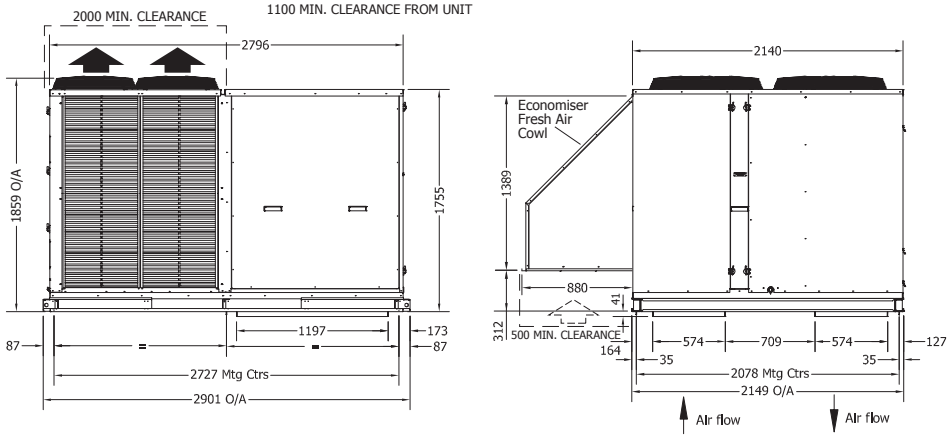
POINT LOADS (kg)					
U	V	W	X	Y	Z
244	211	178	184	193	204



OPA 855RKTBG32-PZ Opposite Hand



POINT LOADS (kg)					
U	V	W	X	Y	Z
204	193	184	178	211	244



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

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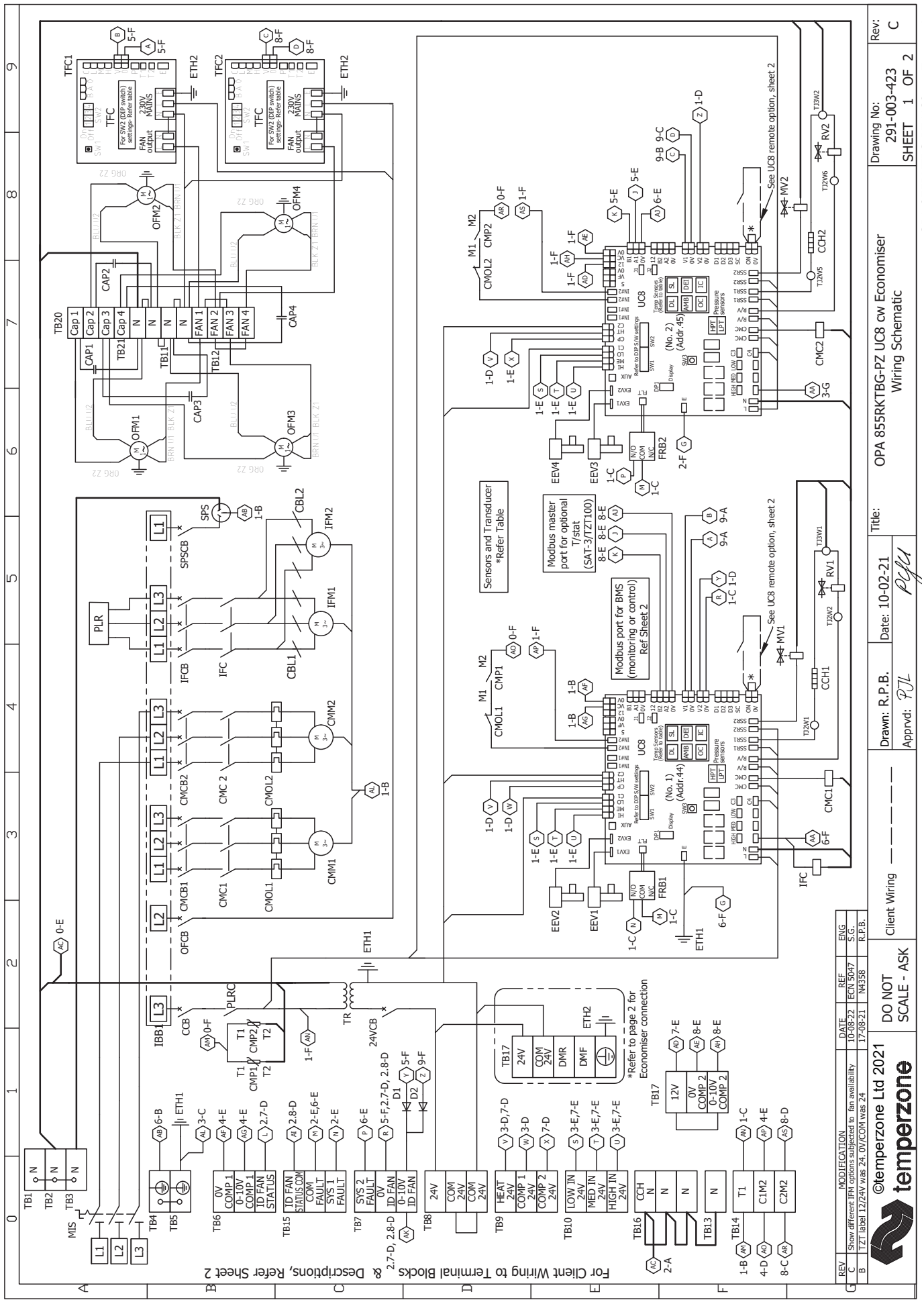
OPA 855RKTBG-PZ UC8 cw Economiser
Wiring Schematic
Drawing No: 291-003-423
SHEET 1 OF 2
Rev: C
Drawn: R.P.B.
Date: 10-02-21
Apprvd: PJL
Client Wiring
DO NOT SCALE - ASK
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For Client Wiring to Terminal Blocks & Descriptions, Refer Sheet 2
*Refer to page 2 for Economiser connection
Sensors and Transducer *Refer Table
Modbus master port for optional T/stat (SAT-3/TZT100)
Modbus port for BMS (monitoring or control) Ref Sheet 2
See UC8 remote option, sheet 2
TFC1
TFC2
ETH2
TB20
UC8
OFM1
OFM2
OFM3
OFM4
CAP1
CAP2
CAP3
CAP4
PLR
IFM1
IFM2
CMM1
CMM2
CMC1
CMC 2
CMCB1
CMCB2
CMOL1
CMOL2
IFC
IFCB
OFCB
SPS
SPSCB
CBL1
CBL2
TR
PLRC
IBB1
CCB
MIS
TB1
TB2
TB3
TB4
TB5
TB6
TB7
TB8
TB9
TB10
TB11
TB12
TB13
TB14
TB15
TB16
TB17
EEV1
EEV2
EEV3
EEV4
FRB1
FRB2
CMC1
CMC2
CCH1
CCH2
RV1
RV2
MV1
MV2
ETH1
REV
MODIFICATION
DATE
REF
ENG
C
Show different IFM options subjected to fan availability
10-08-22
ECN 5047
S.G.
B
TZT label 12/24V was 24. 0V/COM was 24
17-08-21
N4358
R.P.B.

Important Notes:

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

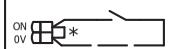
2) Compressor Note
Compressors fitted are directional. If rotation incorrect, compressor/s will not pump, be noisy, and draw minimal current. To correct rotation, reverse two phases.

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)

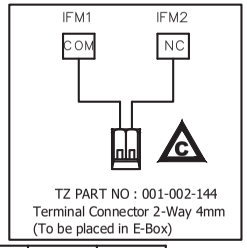
4) Master-slave note
When the unit is controlled with a TZT-100 or SAT-3 wall thermostat then the two UC8 controllers must be linked and configured as master and slave.
Master DIP switch settings: 11 OFF 12 OFF
Slave DIP switch settings: 11 ON 12 OFF

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
CMP	COMPRESSOR MOTOR PROTECTION
C1M2	COMPRESSOR 1 TERMINAL M2
C2M2	COMPRESSOR 2 TERMINAL M2
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
PLRC	PHASE LOSS RELAY CONTACT
PLR	PHASE LOSS RELAY
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
T1	COMPRESSOR TERMINAL T1
UC8	UNIT CONTROLLER 8

UC8 Remote option



*Remove this link to connect Remote Enable/Disable option



TZ PART NO : 001-002-144
Terminal Connector 2-Way 4mm
(To be placed in E-Box)

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	

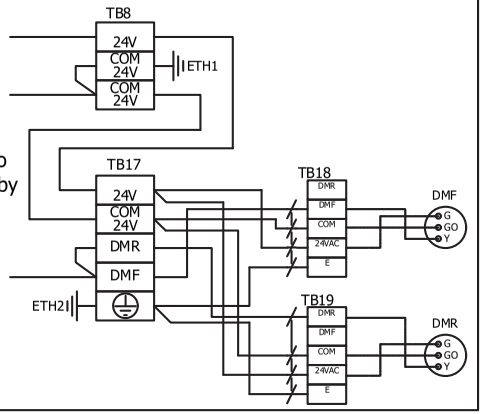
SAT-3 & TZT100 connection to UC8 terminals		
UC8 terminals(No.1)	SAT-3	TZT100 Terminals
12	12V	12/24V
B2	B	B
A2	A	A
0V	GND	12V/COM
Screen to 0V		

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

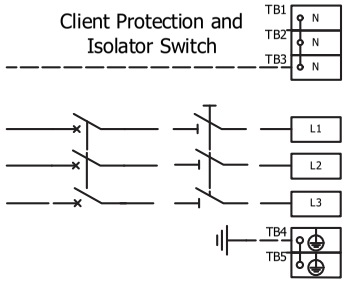
UC8 DIP switch settings (No.2)	
DIP switch	↑ On/Off ↓
1,2,4,6,7,10	On
All Others Off	Off

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

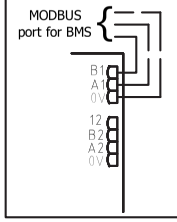
Connection to control tstat by client



Client Wiring

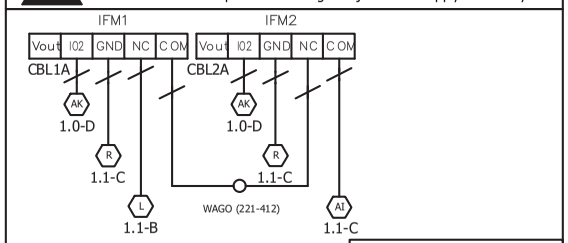


BMS Control

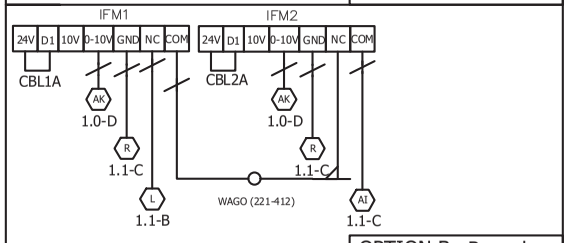


IFM OPTIONS

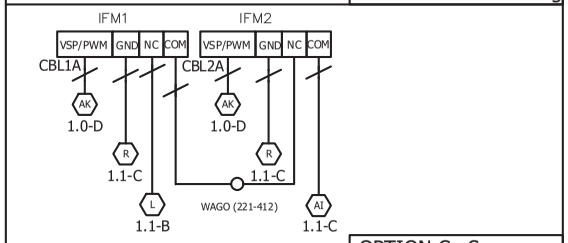
Note: Fan options will change subject to fan supply availability



OPTION A - Ebm



OPTION B - Rosenberg



OPTION C - Sanmu

REV	MODIFICATION	DATE	REF	ENG
C	Show different IFM options subjected to fan availability	10-08-22	ECN 5047	S.G.
B	TZT label 12/24V was 24. 0V/COM was 24	17-08-21	N4358	R.P.B.

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DO NOT SCALE - ASK

Client Wiring

Drawn: R.P.B. Date: 10-02-21

Apprvd: PJL

Title: OPA 855RKTBG-PZ UC8 cw Economiser Wiring Schematic

Drawing No: 291-003-423 SHEET 2 OF 2

Rev: C

Refer 'Installation & Maintenance' pamphlet for more information.