

SPECIFICATIONS



Model	OPA 970RLTB1FPQ-Z Econex
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	867-097-701 / 867-097-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	867-097-723 / 867-097-732
Cooling capacity (net) ¹	88.9 kW
Cooling capacity range (gross)	15.4 ~ 99.2 kW
Heating capacity ¹	88.2 kW
Heating capacity range	14.3 ~ 96.1 kW
Electrical input - cooling	30.0 kW
Electrical input - heating	26.3 kW
EER / AEER (cooling) ¹	2.97 / 2.96
COP / ACOP (heating) ¹	3.35 / 3.34
Operating Range (outdoor ambient) - cooling	-10°C ~ 50°C
Operating Range (outdoor ambient) - heating	-10°C ~ 25°C
Controller	UC8 (x2)
Refrigerant	R32
Refrigerant Charge	10.5 kg/sys.
Minimum floor area (@2.4m below ceiling diffuser)	59 m ²
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	inverter + fixed scroll
Power supply ²	3 ph. 400 V ac 50 Hz + N + E
Compressor (3ph.) run amps at rating cond.(inv./fixed)	19 A/ph.(x1) / 15.5 A/ph.(x1)
Compressor + VSD circuit breaker	32 A (x2)
Indoor fan motor size	EC Plug 500 dia. 3.65kW (x2)
Nominal air flow at rating conditions	4 800 l/s
Indoor fan motor (3ph.) - full load	4.5 A/ph. (x2)
Outdoor fan motor (3ph.) - full load	5.5 A/ph. (x2)
Outdoor fan - max. external static available@ 11 500 l/s	125 Pa
Control circuit breaker (internal)	2 A
Single phase socket circuit breaker	10 A
Running amps (total system) ¹	46 / 43 / 46 A
Max. running amps (total system)	64 / 63 / 64 A
RCD type recommended	type B, 30mA, 3 pole
Net weight (excl. cowl)	1294 kg
Shipping weight (excl. cowl)	1320 kg
Net Weight c/w Economiser	1346 kg

Accessories:

TZT-100 Room temperature controller ⁴	201-000-792
Filters - rated EU4/G4 disposable	019-400-004 500x500x50 (x9) ³
Filters - rated EU4/G4 washable (NZ Only)	019-000-033 500x500x50 (x9) ³
Drain tundish (2 per set; 2 sets required)	060-000-653

Refer to temperzone for other options.

¹ Tested in accordance with AS/NZS 3823

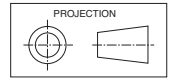
23001

² Voltage range: 380-440V

³ Filter sizes are nominal; refer to Temperzone for actual measurements.

⁴ Not suitable for controlling Economiser dampers

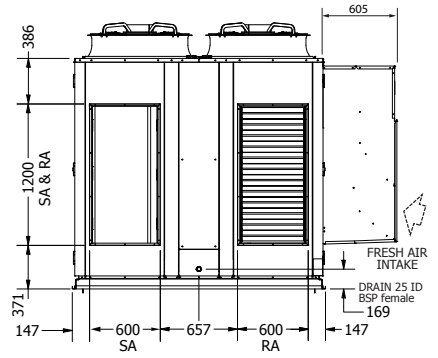
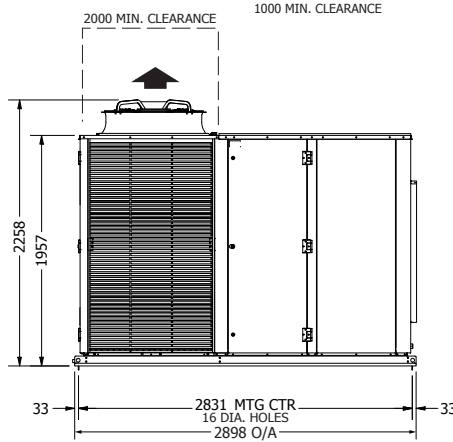
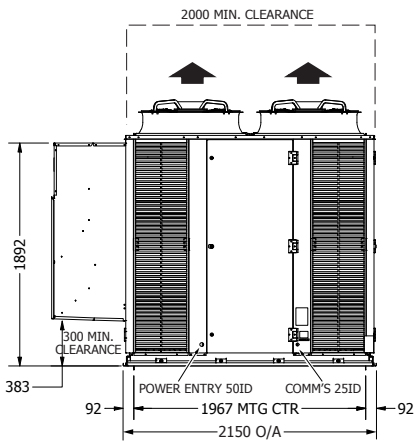
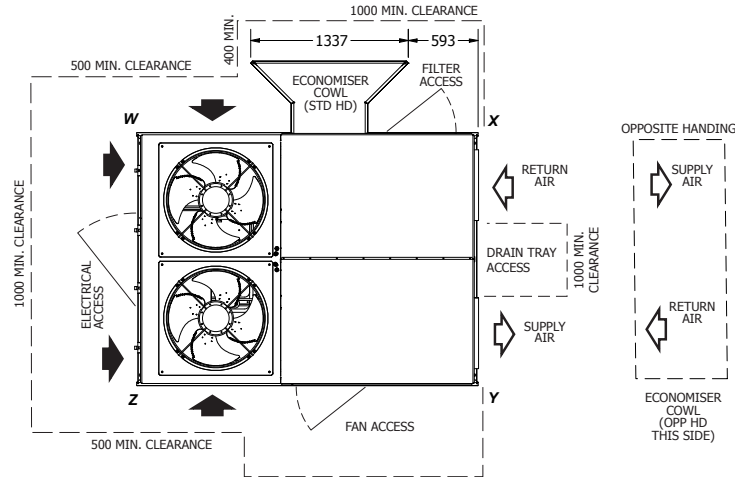
DIMENSIONS (mm)



OPA 970RLTBFPQ01-Z Standard Hand, Horizontal Supply

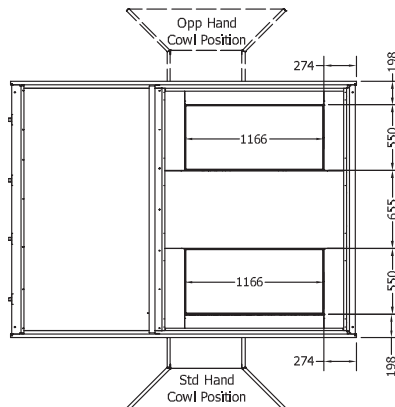
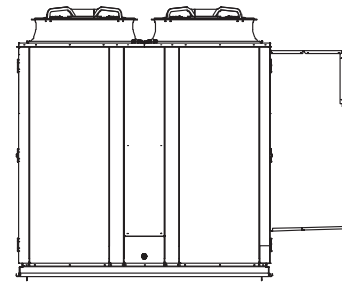
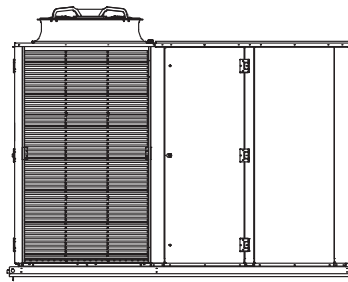
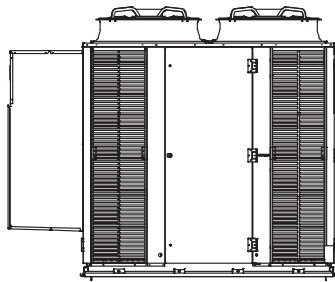
Not to Scale

	POINT LOADS (kg)			
	W	X	Y	Z
Eco Std	356	304	295	391
Eco Opp	349	281	319	398



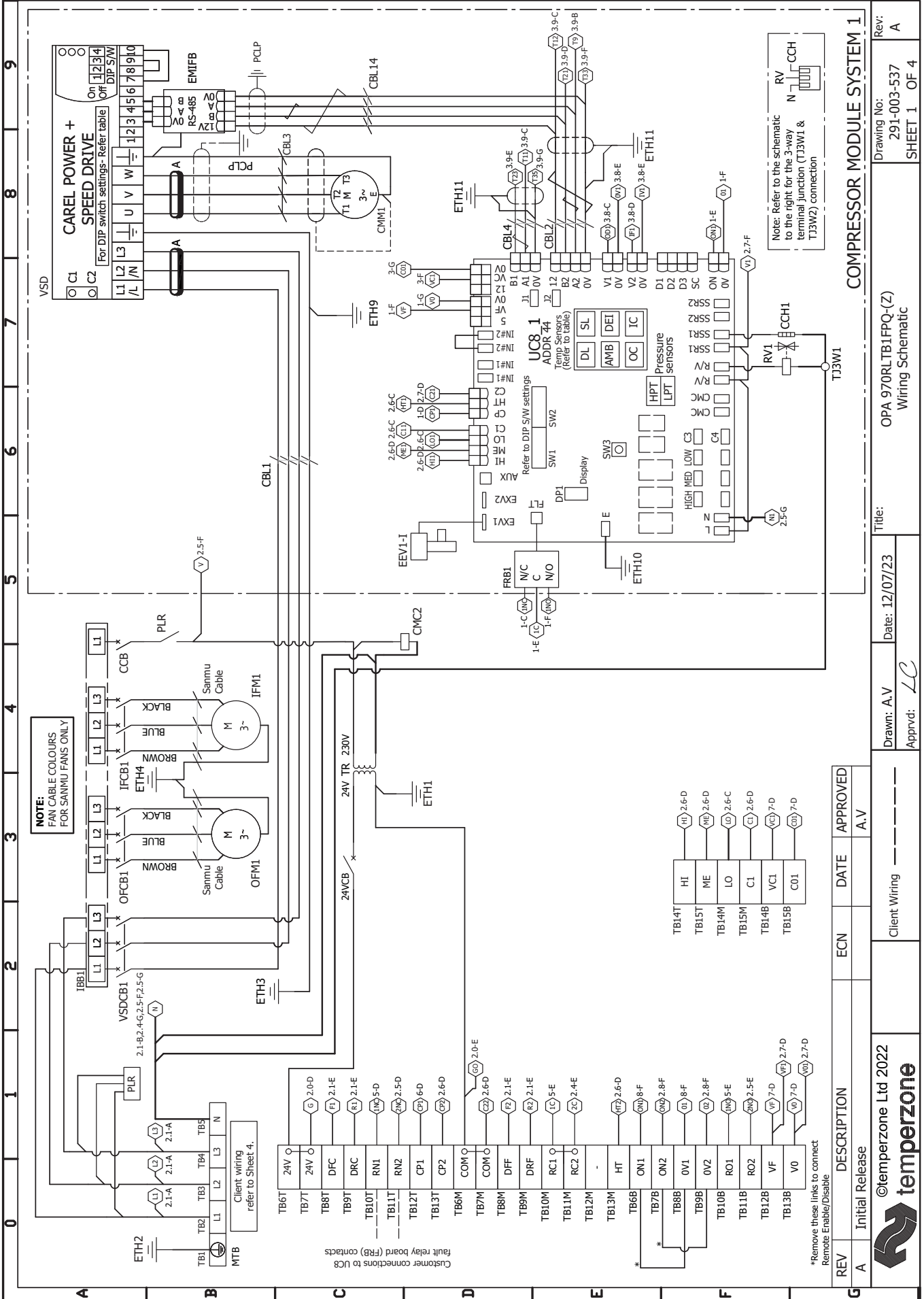
OPA 970RLTBFPQ23-Z Standard Hand, Downward Supply

Clearances as above



NOTE

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



COMPRESSOR MODULE SYSTEM 1

Rev: A
Drawing No: 291-003-537
SHEET 1 OF 4

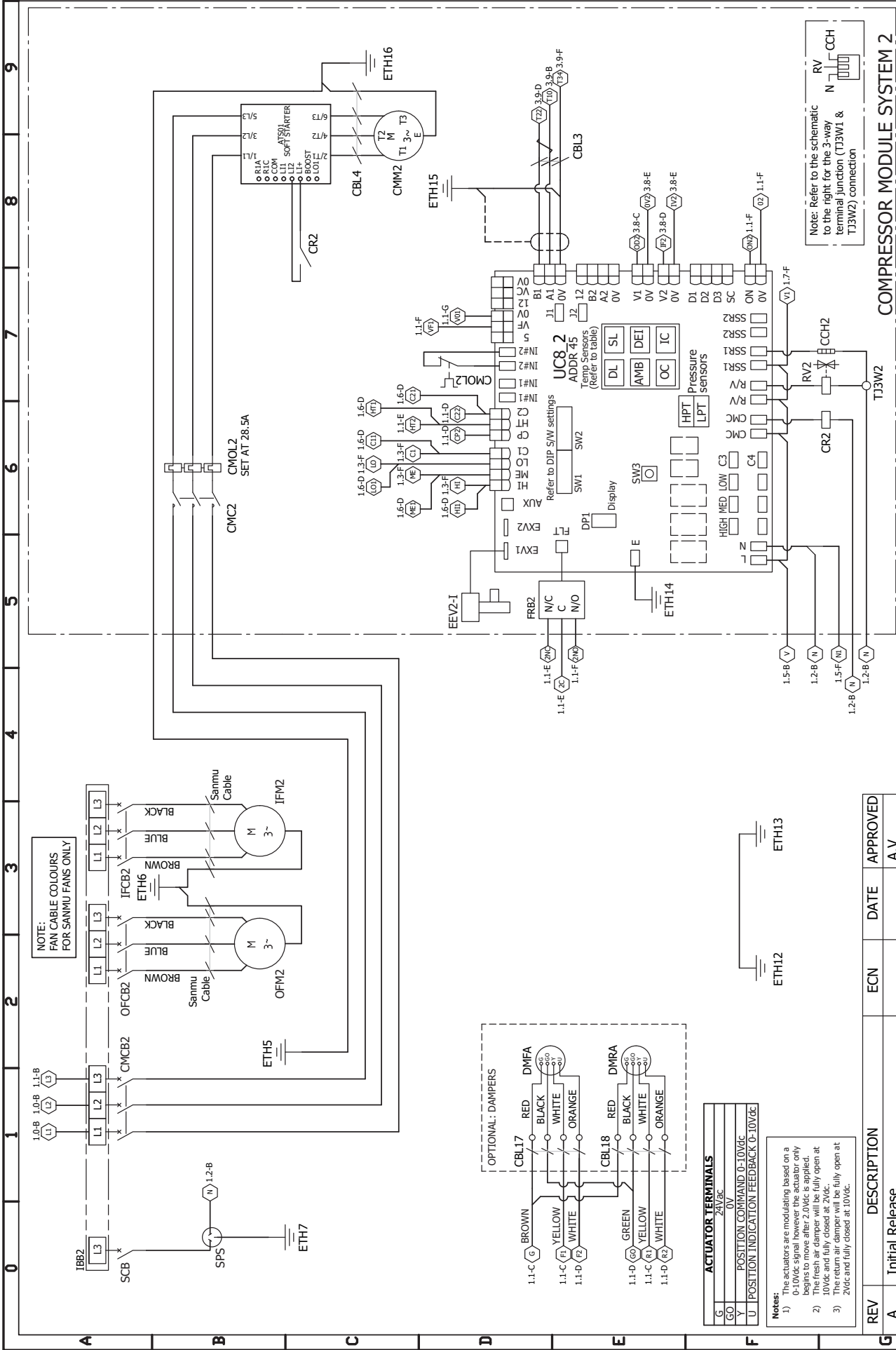
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Date: 12/07/23
Drawn: A.V
Apprvd: LC

REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			A.V

Client Wiring





Note: Refer to the schematic to the right for the 3-way terminal junction (TJ3W1 & TJ3W2) connection

COMPRESSOR MODULE SYSTEM 2

REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			A.V

Drawing No: 291-003-537 SHEET 2 OF 4	Title: OPA 970RLTB1FPQ-(Z) Wiring Schematic	Date: 12/07/23	Rev: A
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Drawn: A.V
 Apprvd: LC

Client Wiring

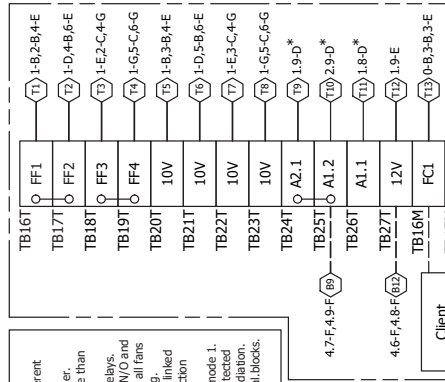
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ACTUATOR TERMINALS	
G	24V AC
GO	0V
Y	POSITION COMMAND 0-10Vdc
U	POSITION INDICATION FEEDBACK 0-10Vdc

- Notes:
- The actuators are modulating based on a 0-10Vdc signal however the actuator only begins to move after 2.0Vdc is applied.
 - The fresh air damper will be fully open at 10Vdc and fully closed at 2Vdc.
 - The return air damper will be fully open at 2Vdc and fully closed at 10Vdc.

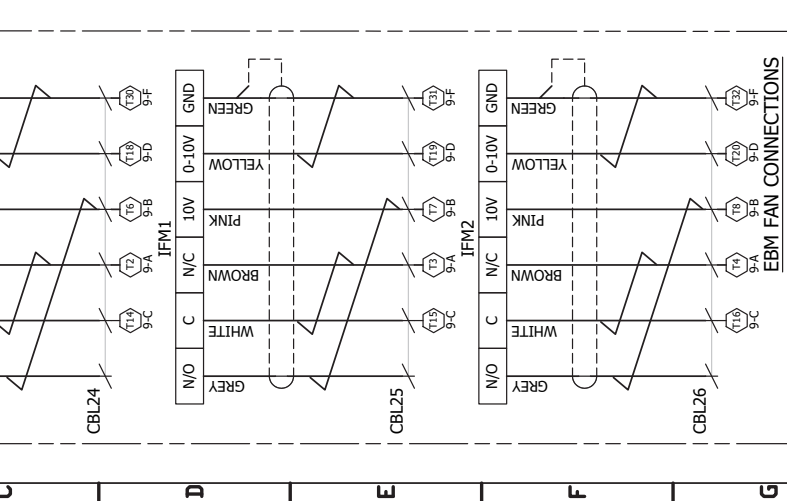
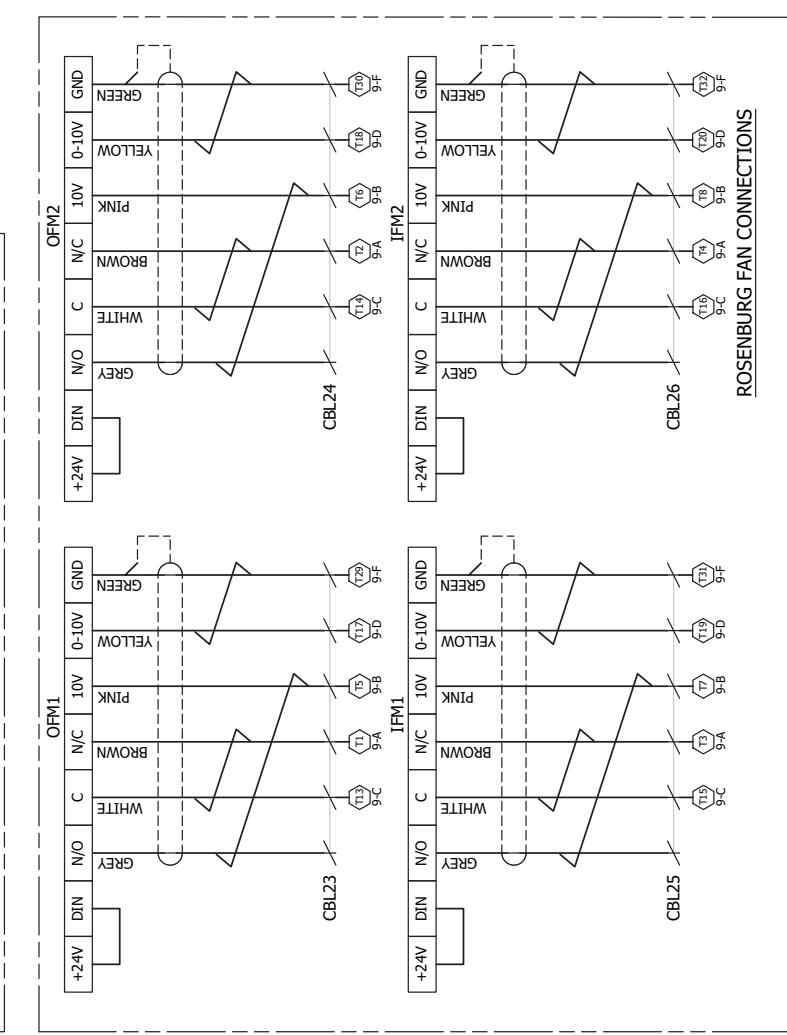
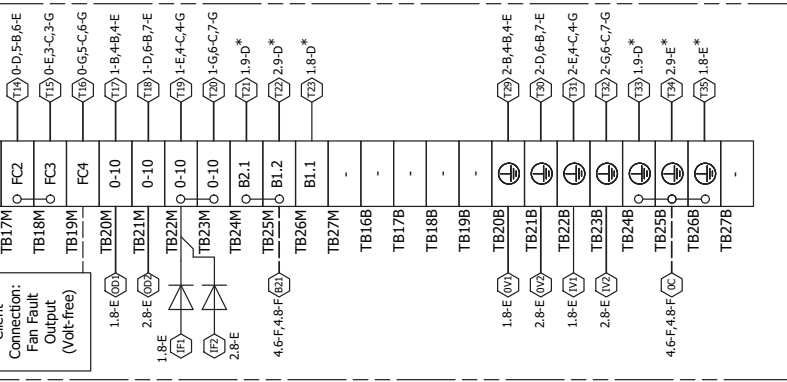
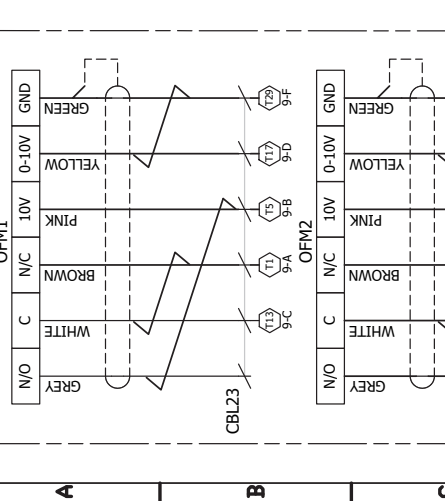
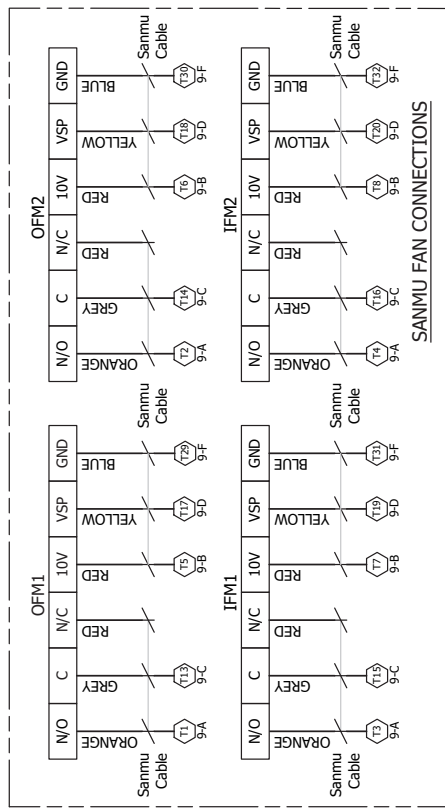
0 1 2 3 4 5 6 7 8 9

NOTE: THE FOLLOWING FANS CONNECTIONS APPLY, DEPENDING ON THE MAKE OF FANS INSTALLED IN THE UNIT.



Notes:

- 1) Ensure spare wires are cut at different lengths and cable tied back to the insulation to avoid shorting together.
- 2) For all fan fault relays use no more than 24V/1A.
- 3) **DO NOT USE** 230V for fan fault relays. Though Sammu fans are wired as N/O and Rosenberg/EBM are wired as N/C, all fans have the same functional switching.
- 4) Fan fault relays (FF/PCO) are linked together in a series connection with a common fan fault.
- 5) Sammu fan fault indication set to mode 1.
- 6) All outdoor fan cables shall be protected with Cabralflex conduit from UV radiation. *RS485 cables to be P clipped at terminal blocks.



0	1	2	3	4	5	6	7	8	9																																								
<p>24VCB 24 Volt Circuit Breaker</p> <p>CBL Cable Marker</p> <p>CCB Control Circuit Breaker</p> <p>CCH Crankcase Heater</p> <p>CMC Compressor Motor Contactor</p> <p>CMCB Compressor Motor Circuit Breaker</p> <p>CMM Compressor Motor Overload</p> <p>CR Control Relay</p> <p>DMF Damper Motor Fresh Air</p> <p>DMR Damper Motor Return Air</p> <p>EEV Electronic Expansion Valve</p> <p>EMIFB Electromagnetic Interference Filter Board</p> <p>ETH Earth</p> <p>FRB Fault Relay Board</p> <p>IBB Insulated Bus Bar</p> <p>IFCB Indoor Fan Circuit Breaker</p> <p>IFM Indoor Fan Motor</p> <p>MTB Main Terminal Block</p> <p>OFCB Outdoor Fan Circuit Breaker</p> <p>OFM Outdoor Fan Motor</p> <p>PCLP P Clip</p> <p>PLR Phase Loss Relay</p> <p>RV Reversing Valve</p> <p>SCB Socket Circuit Breaker</p> <p>SPS Single Phase Socket</p> <p>TBXT Terminal Block (number) Top</p> <p>TBXM Terminal Block (number) Middle</p> <p>TBXB Terminal Block (number) Bottom</p> <p>TJ3W Terminal Junction 3 Way</p> <p>TR Transformer</p> <p>UC8 Unit Controller: 8</p> <p>VSD Variable Speed Drive</p> <p>VSDCB Variable Speed Drive Circuit Breaker</p>	<p>0V UC8 Enable link Common</p> <p>0-10 Indoor / Outdoor Fan 0-10VDC analogue speed Control</p> <p>10V Indoor / Outdoor Fan 10VDC Supply Output</p> <p>12V RS485 12V Supply Output</p> <p>24V 24VAC Internal Supply</p> <p>Ax.x RS485 A (+) Communication Signal</p> <p>Bx.x RS485 B (-) Communication Signal</p> <p>CO1 Compressor Analogue Speed Control Common</p> <p>C1 Indoor Fan Fixed Three speed Control Common</p> <p>COM 24VAC internal Supply Common</p> <p>CP Compressor ON / OFF Signal</p> <p>DFC Damper Motor Fresh Air 0-10Vdc Command</p> <p>DFE Damper Motor Fresh Air 0-10Vdc Feedback</p> <p>DRC Damper Motor Return Air 0-10Vdc Command</p> <p>DRF Damper Motor Return Air 0-10Vdc Feedback</p> <p>FC Fan Fault Relay Output Common</p> <p>FF Fan Fault Relay Output Contact Signal</p> <p>HI Indoor Fan Fixed High speed Control Signal</p> <p>HT Cooling / Heating Mode Selection Signal</p> <p>LO 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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Phase Loss Relay</p> <ul style="list-style-type: none"> PWR (Green) Indicator lit when power is being supplied. RY (Yellow) Indicator lit when relay is operating. </div> <div style="width: 45%;"> <p>Important Notes:</p> <ul style="list-style-type: none"> 24 Hour power required (on L1) for control circuit and crankcase heaters Portable Residual Current Device (PRCD) shall be used with single phase socket. </div> </div>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Indoor Coil Layout</p> </div> <div style="width: 45%;"> <p>Overall System Layout</p> </div> </div>																																																	
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