

# SPECIFICATIONS



<b>Model</b>	<b>OPA 970RLTB1FPQ-Z Econex</b>
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) <sup>1</sup>	88.9 kW
Cooling capacity range (gross)	15.4 ~ 99.2 kW
Heating capacity <sup>1</sup>	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) <sup>1</sup>	2.97 / 2.96
COP / ACOP (heating) <sup>1</sup>	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 <sup>2</sup>
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	inverter + fixed scroll
Power supply <sup>2</sup>	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) <sup>1</sup>	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:

Filters - rated EU4/G4 disposable	019-400-004 500x500x50 (x9) <sup>3</sup>
Filters - rated EU4/G4 washable (NZ Only)	019-000-033 500x500x50 (x9) <sup>3</sup>
Drain tundish (2 per set; 2 sets required)	060-000-653

Refer to temperzone for other options.

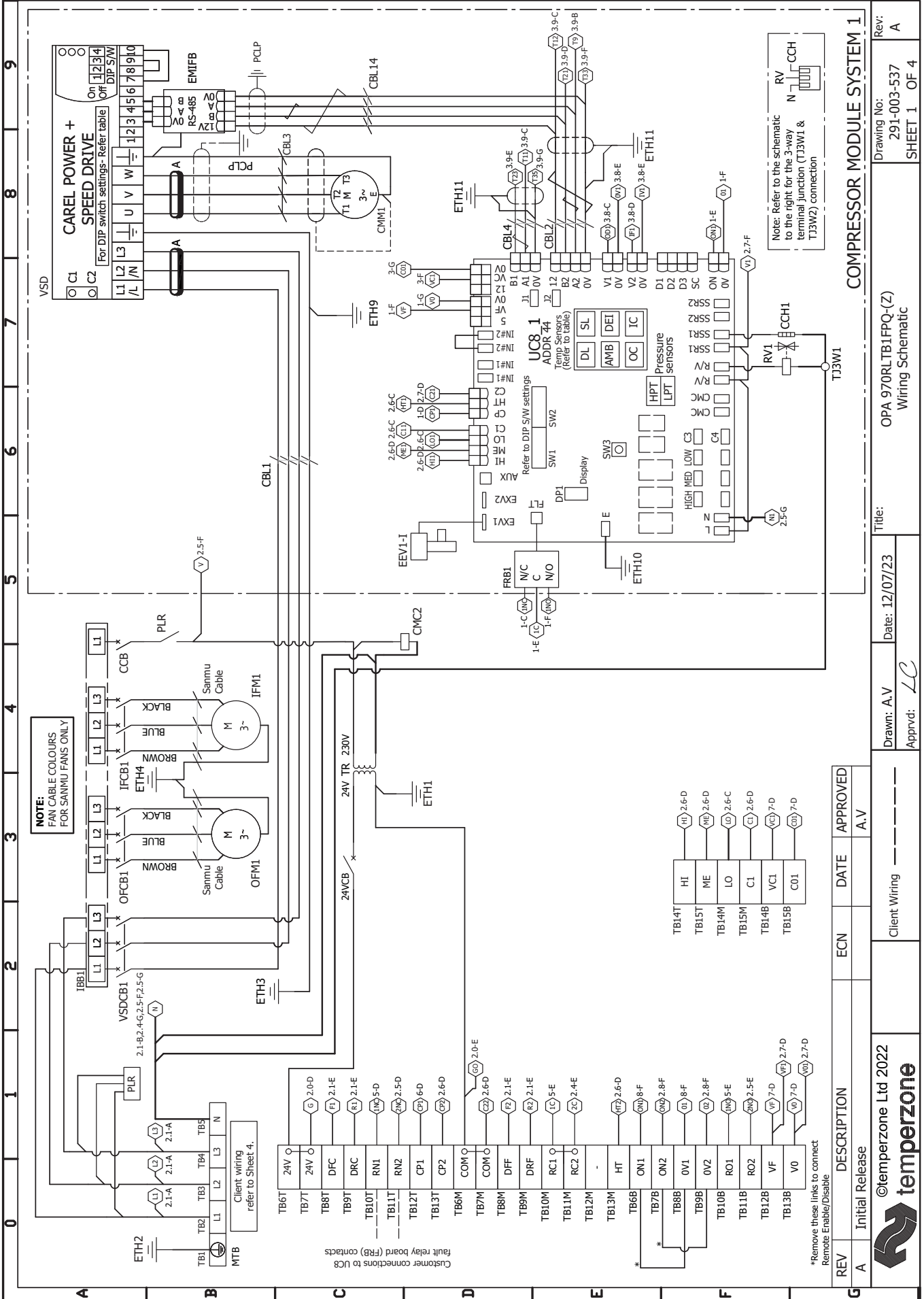
<sup>1</sup> Tested in accordance with AS/NZS 3823

23001

<sup>2</sup> Voltage range: 380-440V

<sup>3</sup> Filter sizes are nominal; refer to Temperzone for actual measurements.



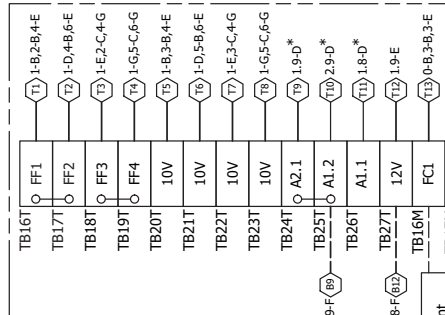


REV	A	Initial Release	ECN	DATE	APPROVED
DESCRIPTION			Client Wiring	---	---
temperzone Ltd 2022			Drawn: A.V	Date: 12/07/23	Title: OPA 970RLTB1FPQ(-Z) Wiring Schematic
temperzone			Approved: LC	Rev: 291-003-537	Rev: A
				SHEET 1	OF 4



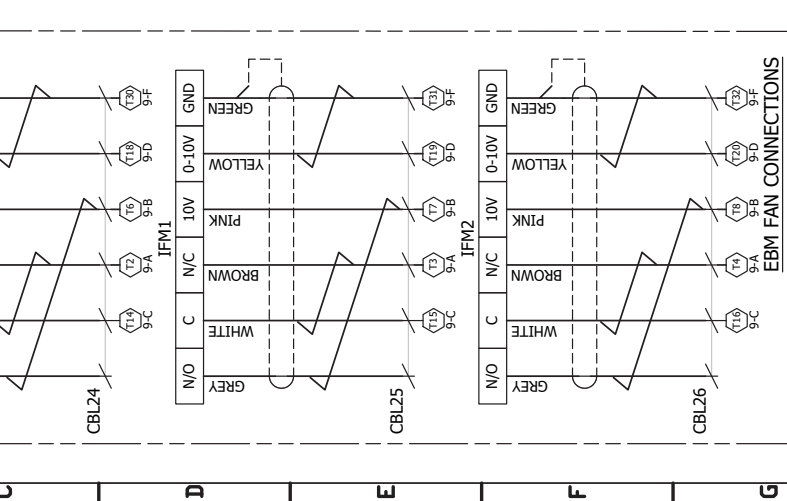
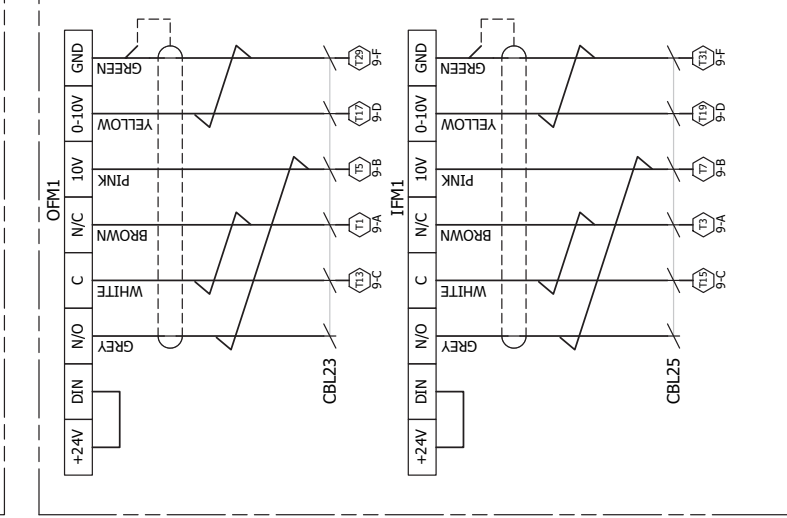
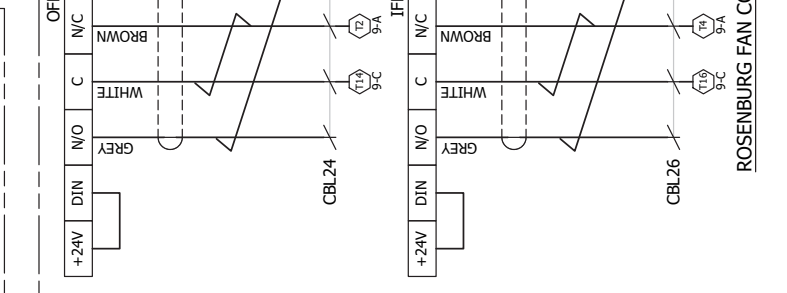
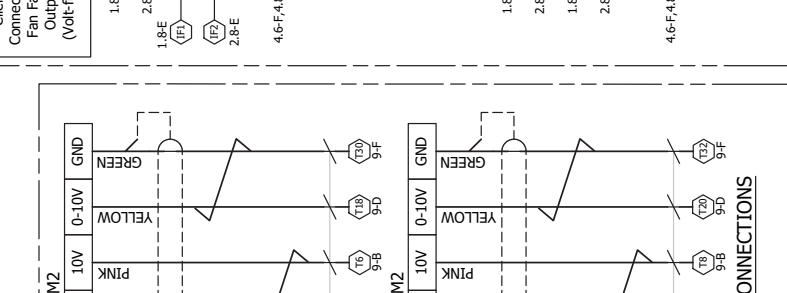
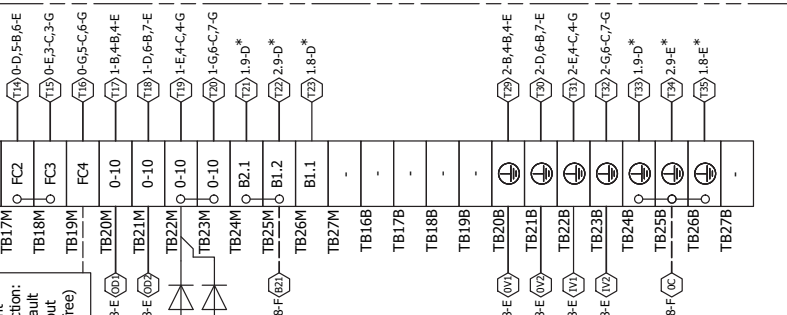
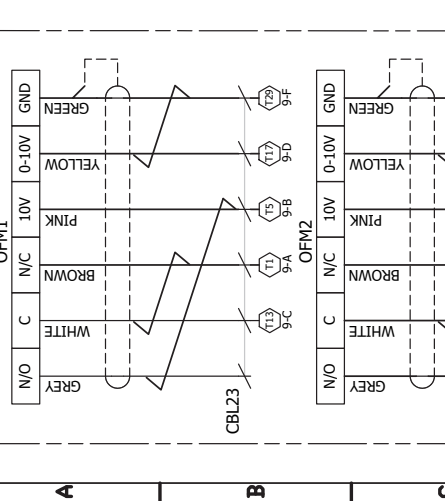
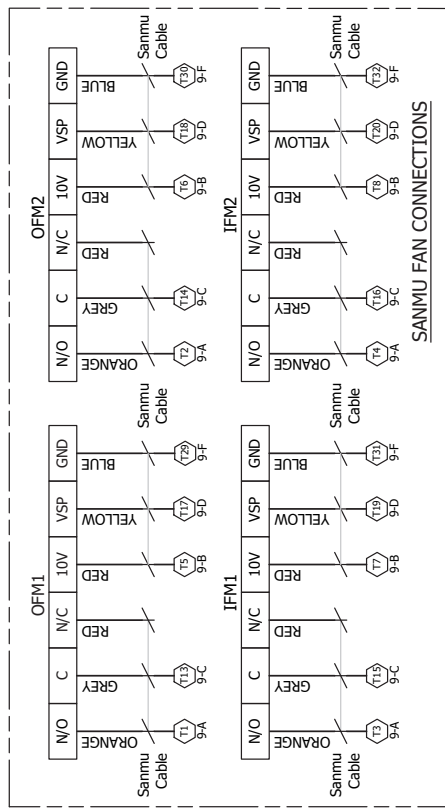
0 1 2 3 4 5 6 7 8 9

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. For all fan fault relays use no more than 24V/1A.
- 2) **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.
- 3) Fan fault relays (FF) are wired together in a common fan fault connection.
- 4) All outdoor fan cables shall be protected with Cabralflex conduit from UV radiation. \*RS485 cables to be P clipped at terminal blocks.



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If it's address is 44, it needs to be changed to 45 using the pushbutton.</li> </ol> </div>		<div style="border: 1px solid black; padding: 5px;"> <p><b>Indoor Coil Layout</b></p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p><b>Overall System Layout</b></p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p><b>Temperzone Soft Starter Default Settings</b></p> <p>Start Time = E</p> <p>Initial Voltage = A</p> <p>Stop Time = E</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p><b>Client Wiring</b></p> <p>Client External Protection and Isolator Switch</p> <p>Power Supply 400V 50Hz</p> </div>	
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