

# SPECIFICATIONS



<b>Model</b>	<b>OPA 2110RLTM1FPQ(-Z) Econex</b>
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	866-211-701 / 866-211-710
Unit c/w Economiser (Standard / Opposite Hand)	867-211-701 / 867-211-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	866-211-723 / 866-211-732
Unit c/w Economiser (Standard / Opposite Hand)	867-211-723 / 867-211-732
Cooling capacity (net) <sup>1</sup>	193.8 kW
Cooling capacity (gross) range	30.8 ~ 208.8 kW
Heating capacity <sup>1</sup>	194.7 kW
Heating capacity (gross) range	14.9 ~ 205.9 kW
Electrical input - cooling	64.5 kW
Electrical input - heating	55.2 kW
EER / AEER (cooling) <sup>1</sup>	3.00 / 2.99
COP / ACOP (heating) <sup>1</sup>	3.53 / 3.51
Operating Range (outdoor ambient) - cooling	-10°C ~ 50°C
Operating Range (outdoor ambient) - heating	-10°C ~ 25°C
Unit Controller	UC8 (x4)
Refrigerant	R32
Refrigerant Charge.(inv./fixed)	9.8 / 9.6 kg/sys.
Minimum floor area (@5m below ceiling diffuser)	11.8 m <sup>2</sup> /sys.
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	inverter (x1) + fixed scroll (x3)
Power supply <sup>2</sup>	3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps at rating cond.(inv./fixed)	21 A/ph.(x1) / 22 A/ph.(x3)
Compressor circuit breaker	32 A (x4)
Indoor fan motor size	EC Plug 3.5 kW (x4)
Nominal air flow at rating conditions	11 000 l/s
Indoor fan motor (3ph.) - full load	9.1 A/ph. (x4)
Outdoor fan motor (3ph.) - full load	4.7 A/ph. (x4)
Outdoor fan motor – max. ext. static pressure available	120 Pa (@20,600 l/s)
Control circuit breaker (internal)	4 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system)	110 A/ph.
Max. running amps (total system)	161 A/ph.
RCD type recommended	type B, 30 mA, 3 pole
Net weight (excl. cowl)	2 577 kg
Shipping weight (excl. cowl)	2,636 kg
Net weight (c/w Economiser)	2 667 kg

## Accessories:

TZT-100 Room temperature controller <sup>4</sup>	201-000-792
Filters - rated EU4/G4 disposable	019-400-004 500x500x50 (x12) 019-400-005 500x600x50 (x4) <sup>3</sup>
Filters - rated EU4/G4 washable (NZ only)	019-000-004 500x500x50 (x12) 019-000-005 500x600x50 (x4) <sup>3</sup>

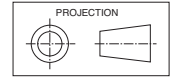
<sup>1</sup> Tested in accordance with AS/NZS 3823

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

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

<sup>4</sup> Not suitable for controlling Economiser dampers

# DIMENSIONS (mm)

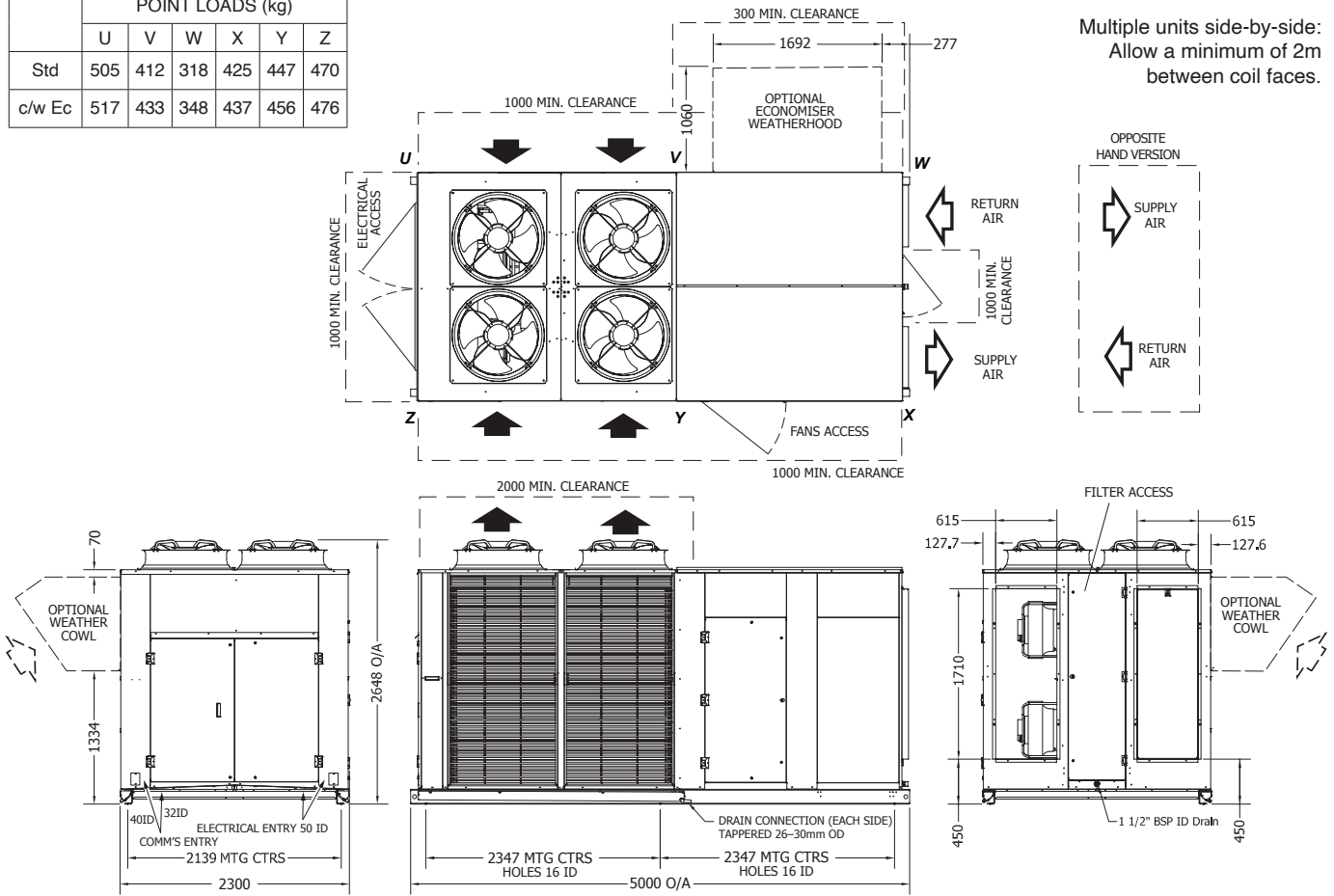


## OPA 2110RLTM1FPQ01(-Z) Horizontal Supply, Standard Hand

Not to Scale

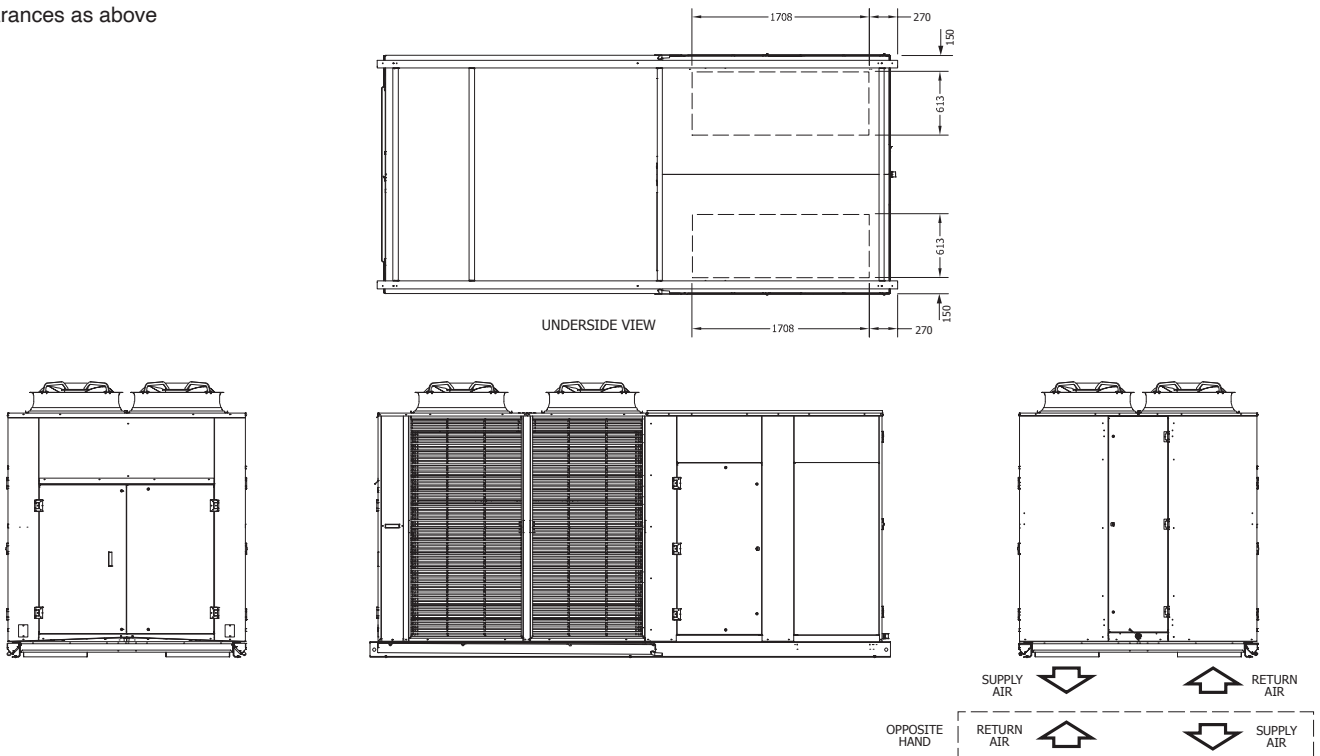
Multiple units side-by-side:  
Allow a minimum of 2m  
between coil faces.

	POINT LOADS (kg)					
	U	V	W	X	Y	Z
Std	505	412	318	425	447	470
c/w Ec	517	433	348	437	456	476



## OPA 2110RLTM1FPQ23(-Z) Downward Supply, Standard Hand

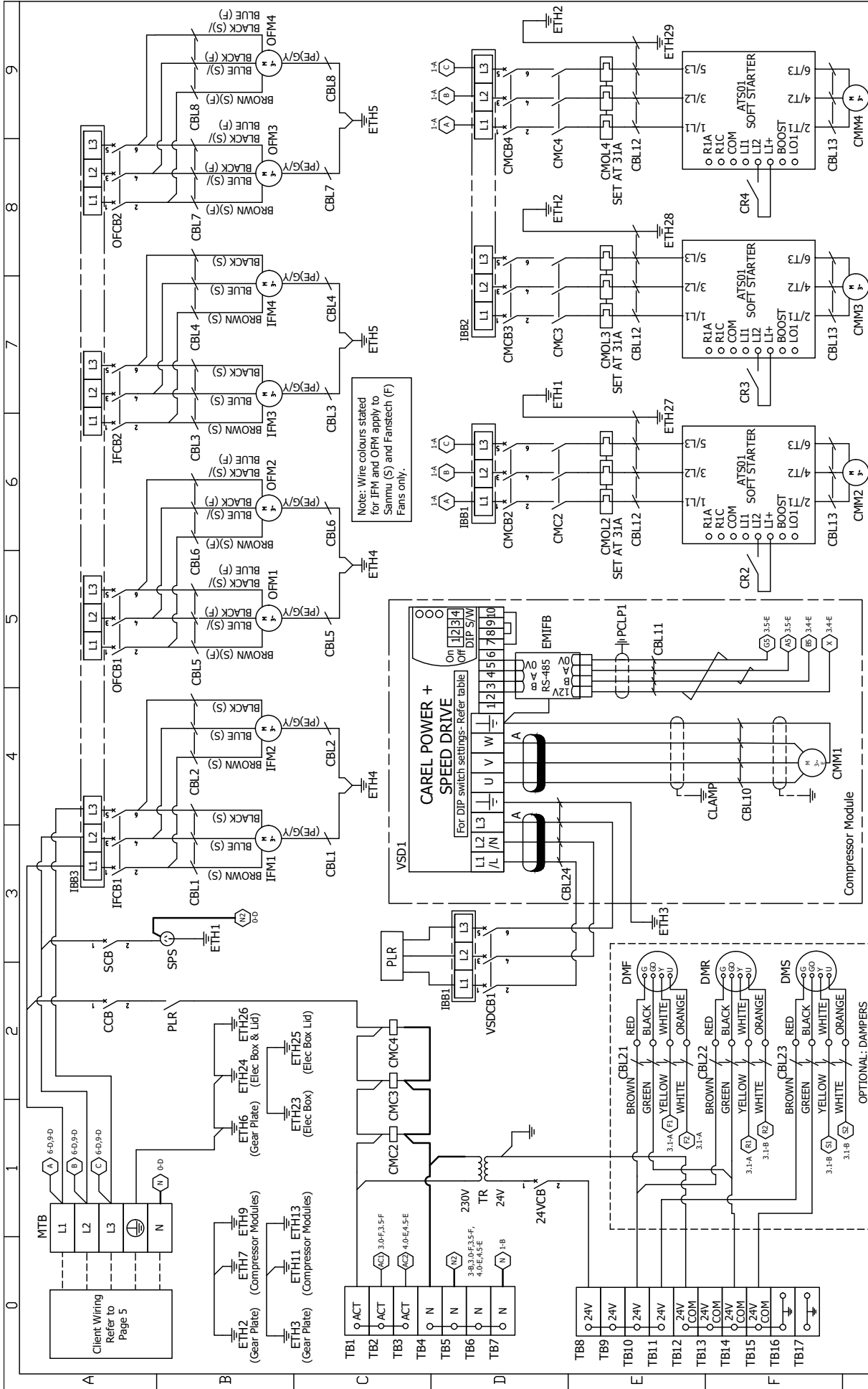
Clearances as above



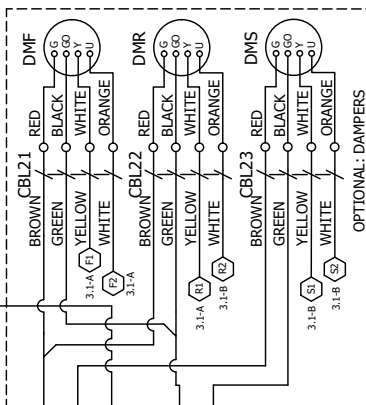
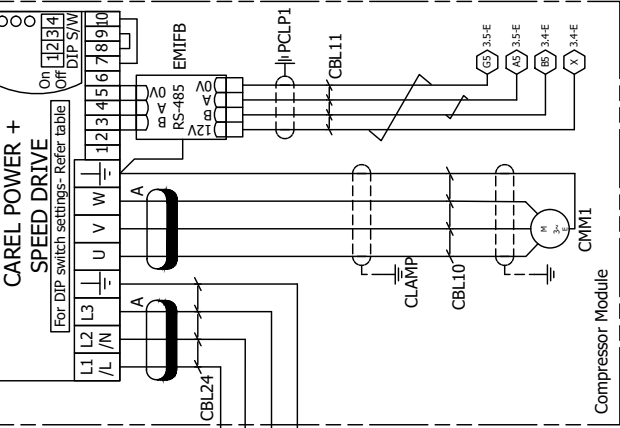
### NOTE

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

# WIRING (1)



Note: Wire colours stated for IFM and OFM apply to Sanmu (S) and Fanstech (F) Fans only.



REV	Initial Release	MODIFICATION	DATE	ECN	APVD	LC
A						

Technical information  
\*Refer Page 5

Client Wiring  
Date: 03-03-22  
Drawn: L.C

Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8  
Wiring Schematic

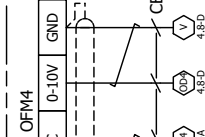
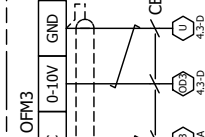
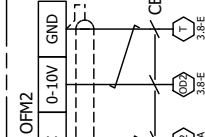
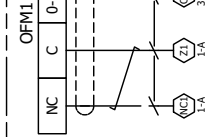
Drawing No: 291-003-468  
SHEET 1 OF 5  
Rev: A



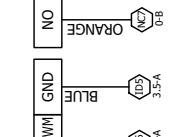
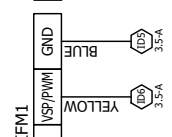
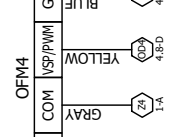
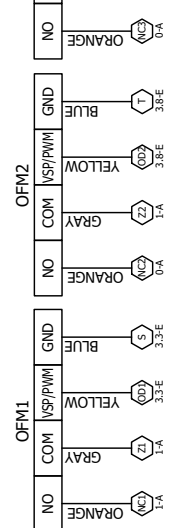
NOTE: THE FOLLOWING FANS CONNECTIONS APPLY, DEPENDING ON THE MAKE OF FANS INSTALLED IN THE UNIT.

OD Fan		ID Fan	
Model	Part Number	Manufacturer	Manufacturer
OPA1410	018-000-339	EBM	Sanmu
OPA1710	018-000-449	Sanmu	Sanmu
OPA2110	018-000-449	Sanmu	Fanstech

Note:  
All OFM cables shall be sleeved with Cobraflex conduit. For fans with fly leads, cut off spare wires at Ebox. Seal with heatshrink. Ensure spare wires are cut at different lengths to avoid shorting.

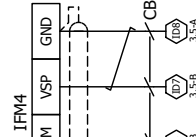
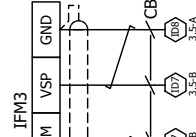
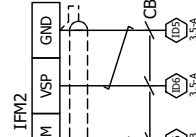
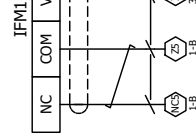


EBM FANS CONNECTIONS



Note: Fans Fault Relay Wiring  
For Sanmu fans, connect to NO contact for break on fault (MODE 1).  
Through the Sanmu fans have the opposite switching to the other fans, all fans have the same break on fault function.

SANMU FANS CONNECTIONS



FANSTECH FANS CONNECTIONS

REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC



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Client Wiring

Drawn: L.C

Date: 03-03-22

Title: OPA1410 / 1710 / 2110RLTMIFFQ-S1 R32 UC8

Wiring Schematic

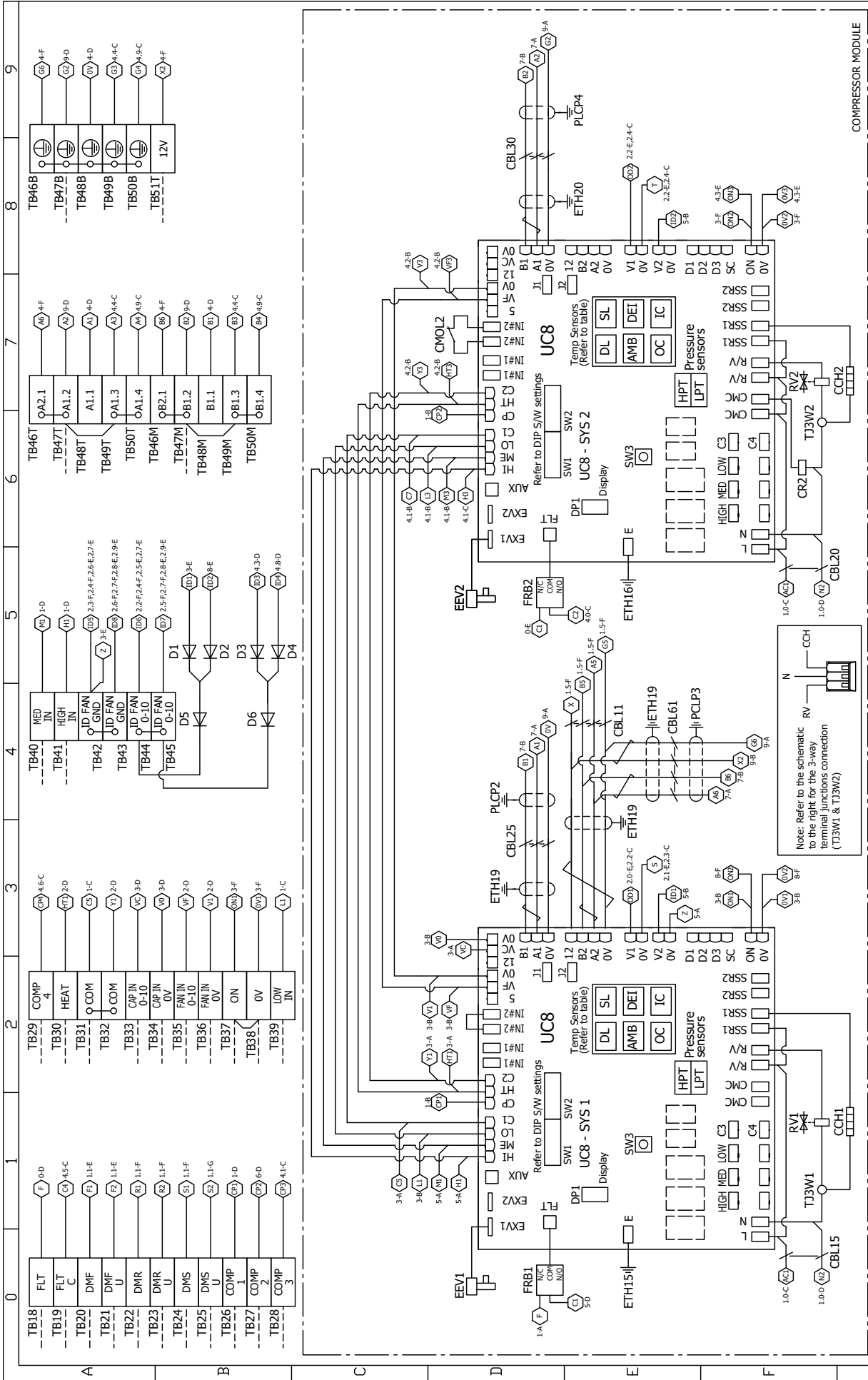
Rev: A

Drawing No: 291-003-468

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Technical information  
\*Refer Page 5

# WIRING (3)



REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC

Drawn: L.C	Date: 03-03-22	Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8 Wiring Schematic
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Client Wiring	---
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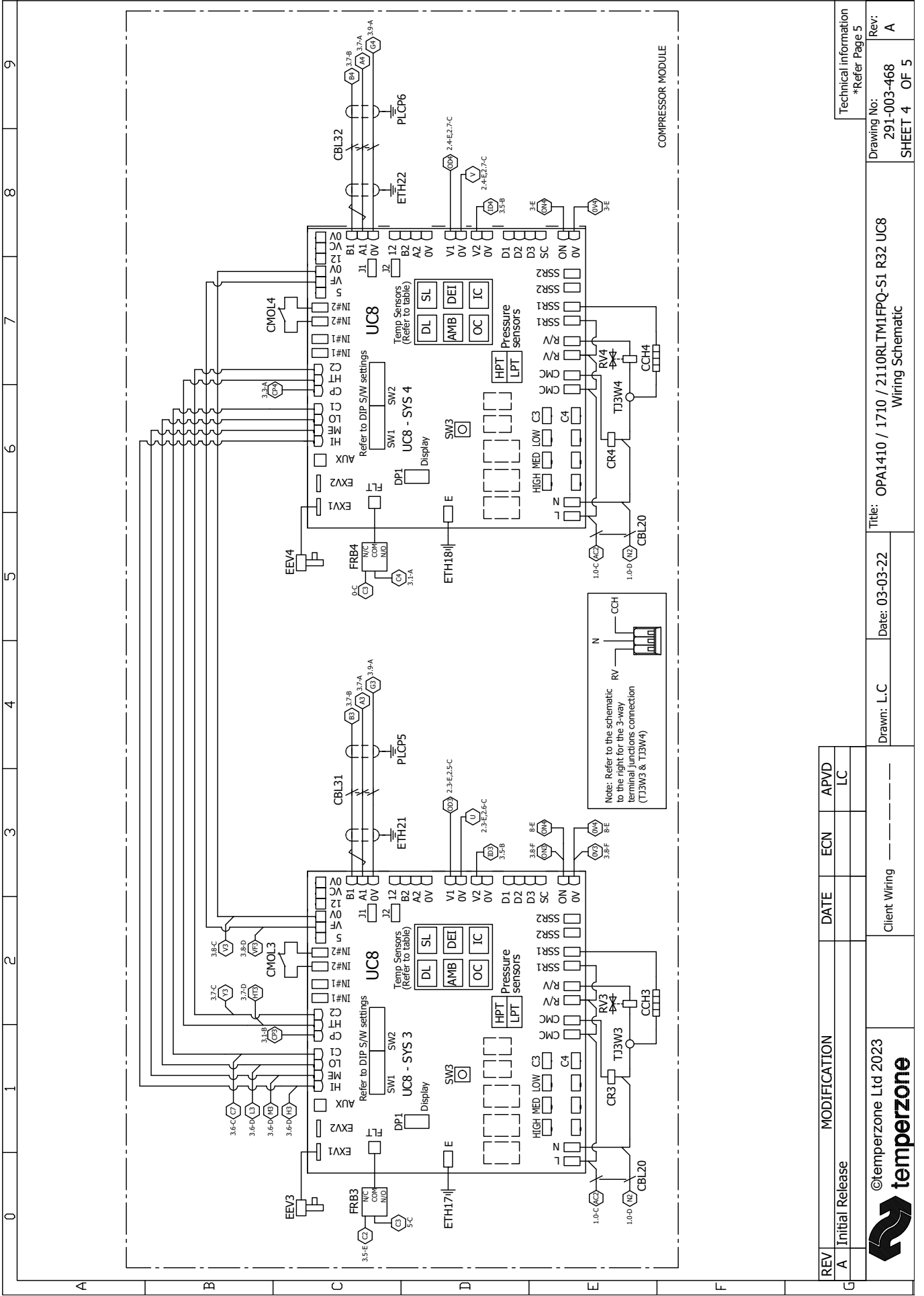
  

REV	DATE	ECN	APVD
A			LC

Technical information  
\*Refer Page 5

Drawing No:  
291-003-468  
SHEET 3 OF 5

Rev:  
A



REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC



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Client Wiring

Drawn: L.C  
Date: 03-03-22

Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8  
Wiring Schematic

Technical information  
\*Refer Page 5  
Drawing No: 291-003-468  
Rev: A  
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0 1 2 3 4 5 6 7 8 9

A B C D E F

