

Model	OPA 1410RLTM1FPQ(-Z) Econex
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	866-141-701 / 866-141-710
Unit c/w Economiser (Standard / Opposite Hand)	867-141-701 / 867-141-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	866-141-723 / 866-141-732
Unit c/w Economiser (Standard / Opposite Hand)	867-141-723 / 867-141-732
Cooling capacity (net) ¹	140.2 kW
Cooling capacity (gross) range	11.9 ~ 145.7 kW
Heating capacity ¹	142.1 kW
Heating capacity (gross) range	12.9 ~ 142.1 kW
Electrical input - cooling	46.0 kW
Electrical input - heating	39.6 kW
EER / AEER (cooling) ¹	3.05 / 3.04
COP / ACOP (heating) ¹	3.59 / 3.58
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)	7.1/6.6 kg/sys.
Minimum floor area (@2.4m/5m below ceiling diffuser)	27 m ² / 6 m ²
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	inverter (x1) + fixed scroll (x3)
Power supply ²	3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps at rating cond.(inv./fixed)	15.5 A/ph.(x1) / 15 A/ph.(x3)
Compressor circuit breaker	32 A (x4)
Indoor fan motor size	EC Plug 3.65kW (x4)
Nominal air flow at rating conditions	8 100 l/s
Indoor fan motor (3ph.)	4.6 A/ph. (x4)
Outdoor fan motor (3ph.) - full load	1.9 A/ph. (x4)
Outdoor fan motor – max. ext. static pressure available	120 Pa (@12,100 l/s)
Control circuit breaker (internal)	4 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system)	75 A/ph.
Max. running amps (total system)	119 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight (excl. cowl)	2064 kg
Shipping weight (excl. cowl)	2124 kg
Net weight (c/w Economiser)	2154 kg

Accessories:

TZT-100 Room temperature controller ⁴	201-000-792
Filters - rated EU4/G4 disposable	019-400-005 600x500x50 (x3) ³ 019-400-007 600x600x50 (x6)
Filters - rated EU4/G4 washable (NZ only)	019-000-034 600x500x50 (x3) ³ 019-000-031 600x600x50 (x6)

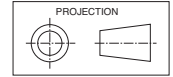
¹ Tested in accordance with AS/NZS 3823

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)

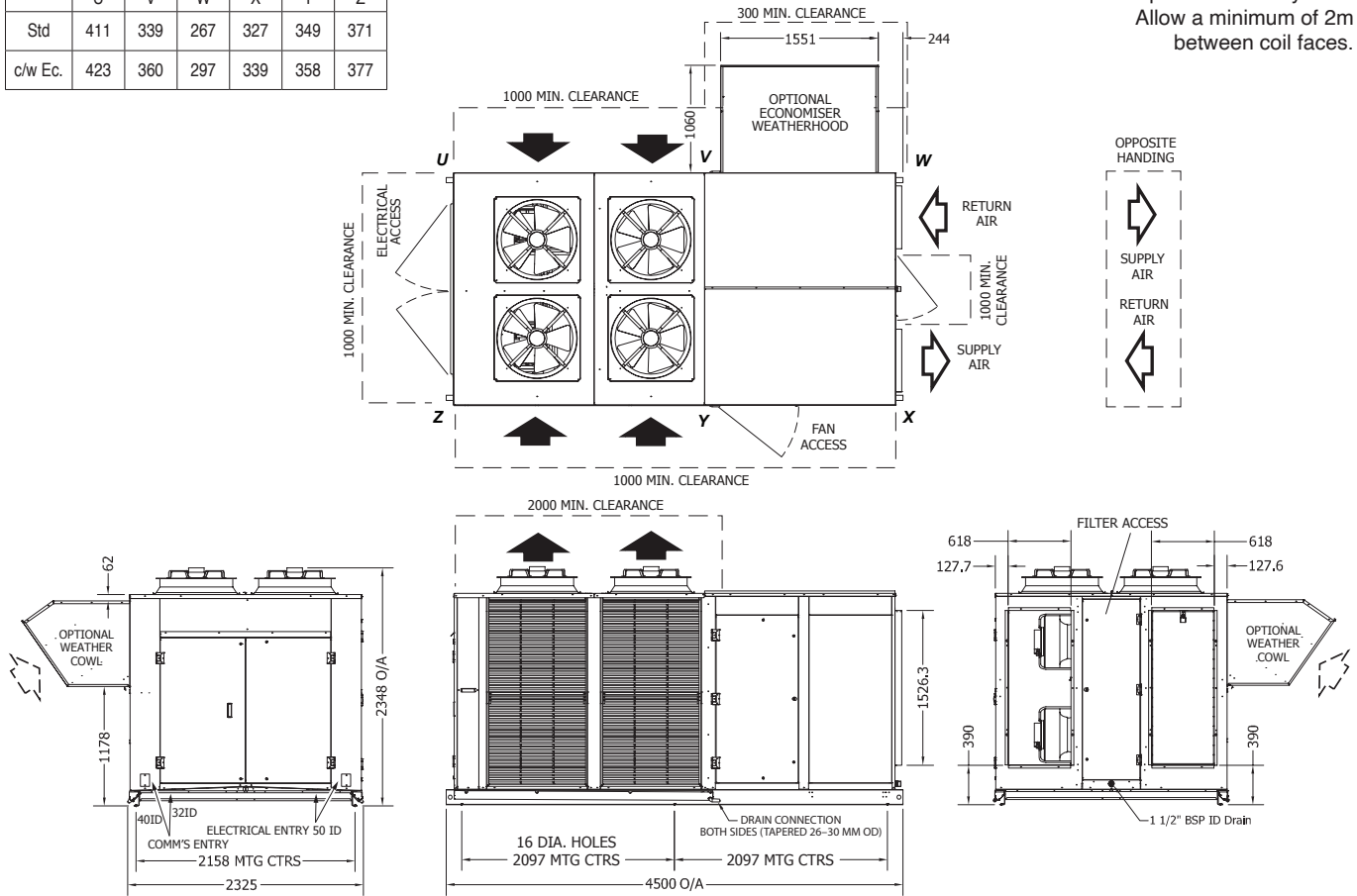


OPA 1410RLTM1FPQ01(-Z) Horizontal Supply / Standard Hand

Not to Scale

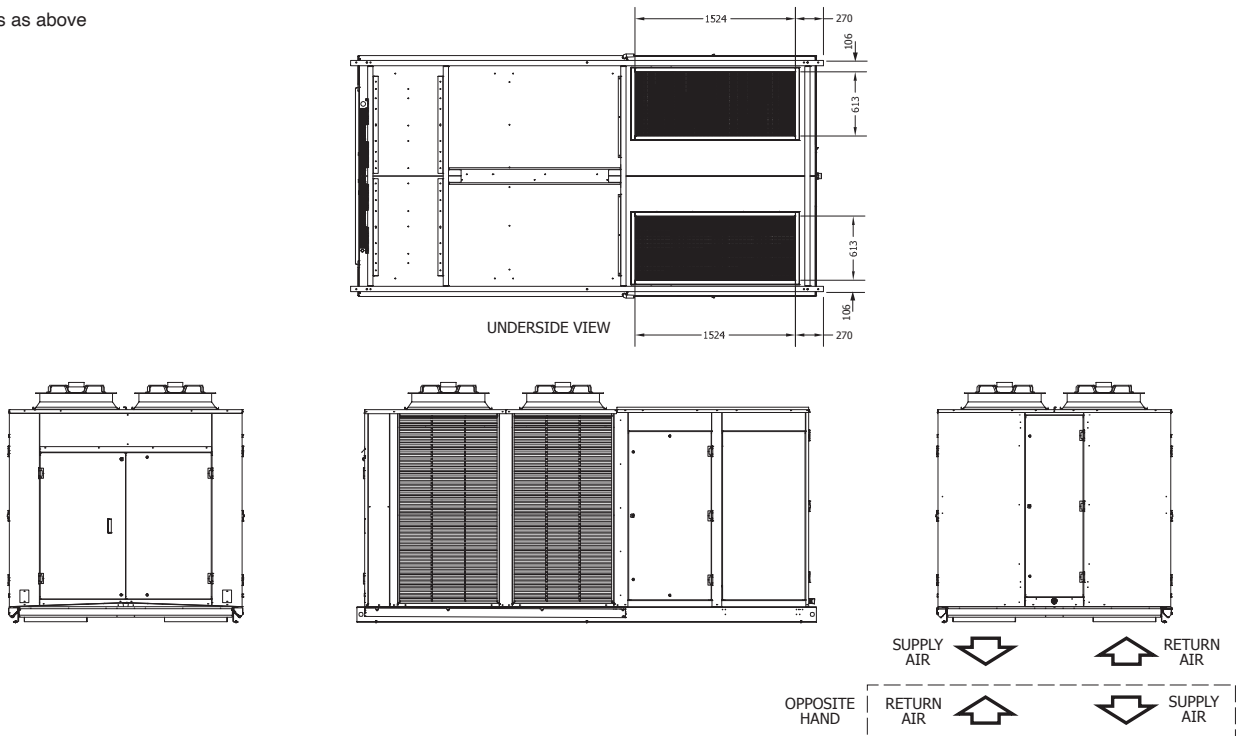
Multiple units side-by-side:
Allow a minimum of 2m
between coil faces.

	POINT LOADS (kg)					
	U	V	W	X	Y	Z
Std	411	339	267	327	349	371
c/w Ec.	423	360	297	339	358	377



OPA 1410RLTM1FPQD23(-Z) Downward Supply / Standard Hand

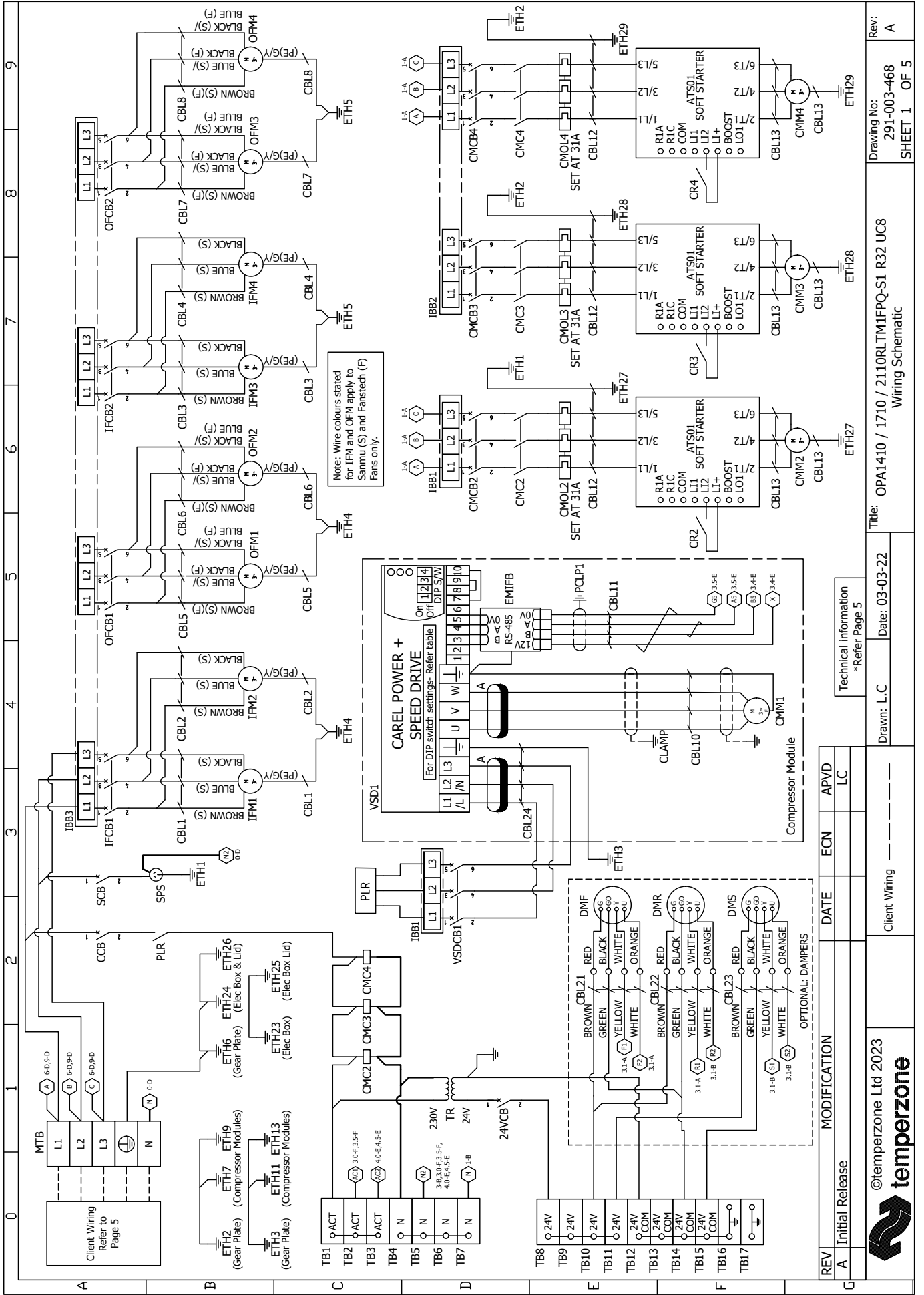
Clearances as above



NOTE

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

WIRING (1)



REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC

Client Wiring

Technical information
*Refer Page 5

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

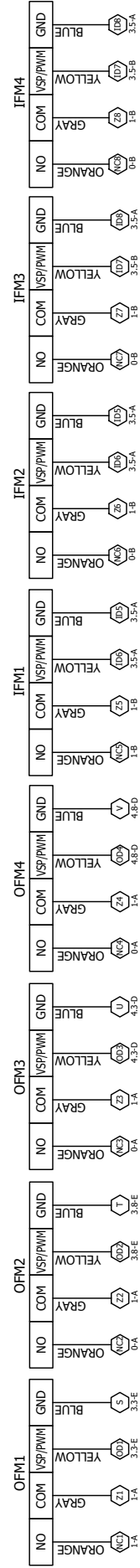
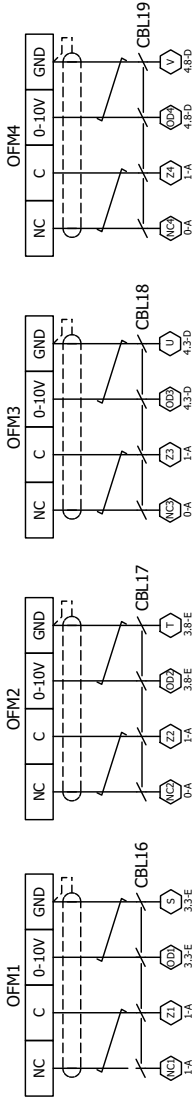
Title: OPA1410 / 1710 / 2110RLTM:FPQ-S1 R32 UC8
Wiring Schematic

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

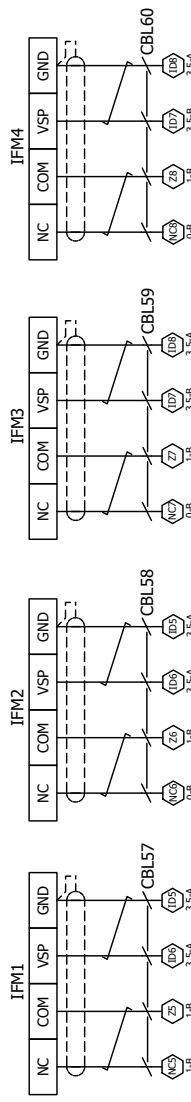
NOTE: THE FOLLOWING FANS CONNECTIONS APPLY, DEPENDING ON THE MAKE OF FANS INSTALLED IN THE UNIT.

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.



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



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Client Wiring

Drawn: L.C

Date: 03-03-22

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

Technical information
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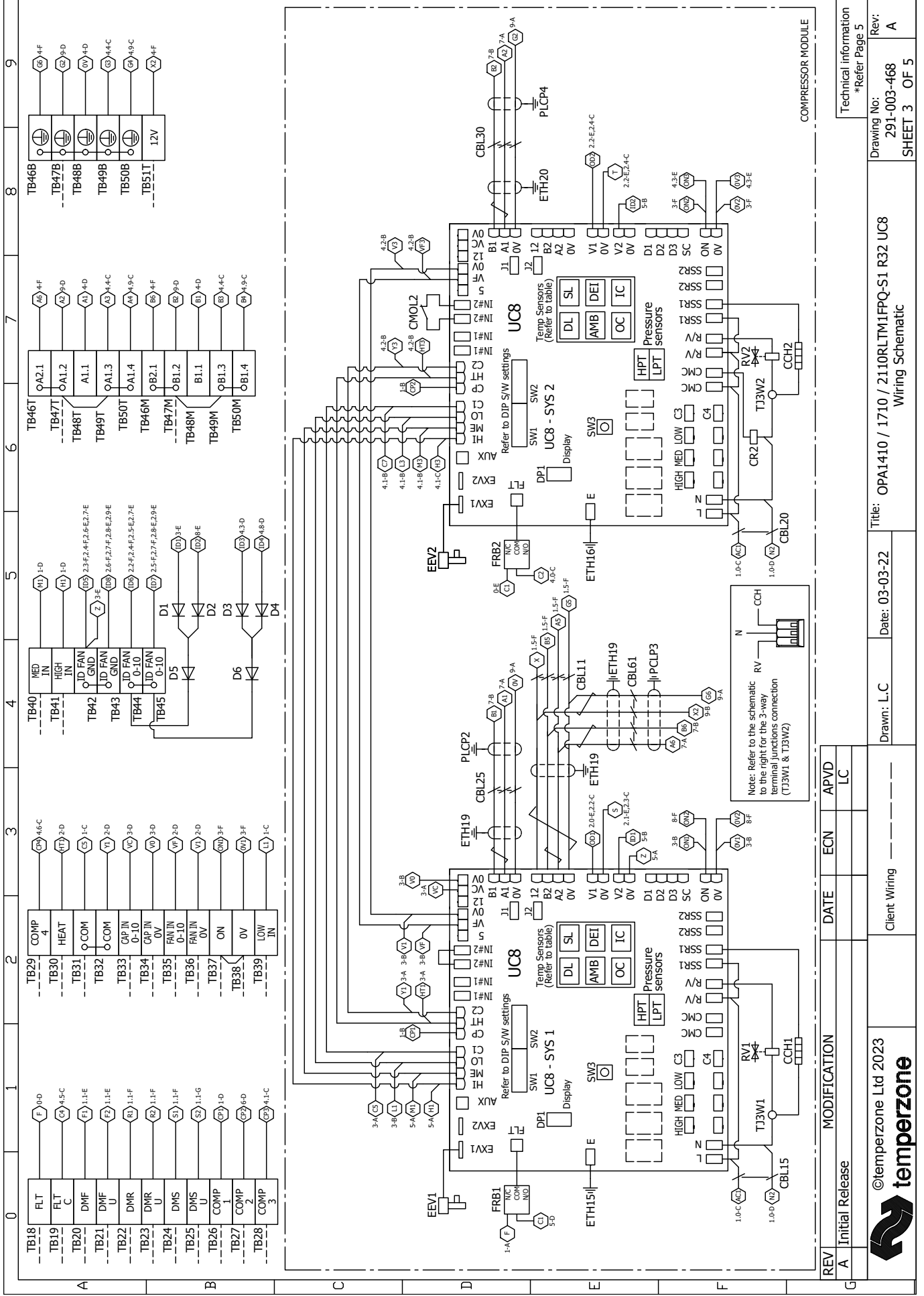
Drawing No: 291-003-468
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Rev: A



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WIRING (3)

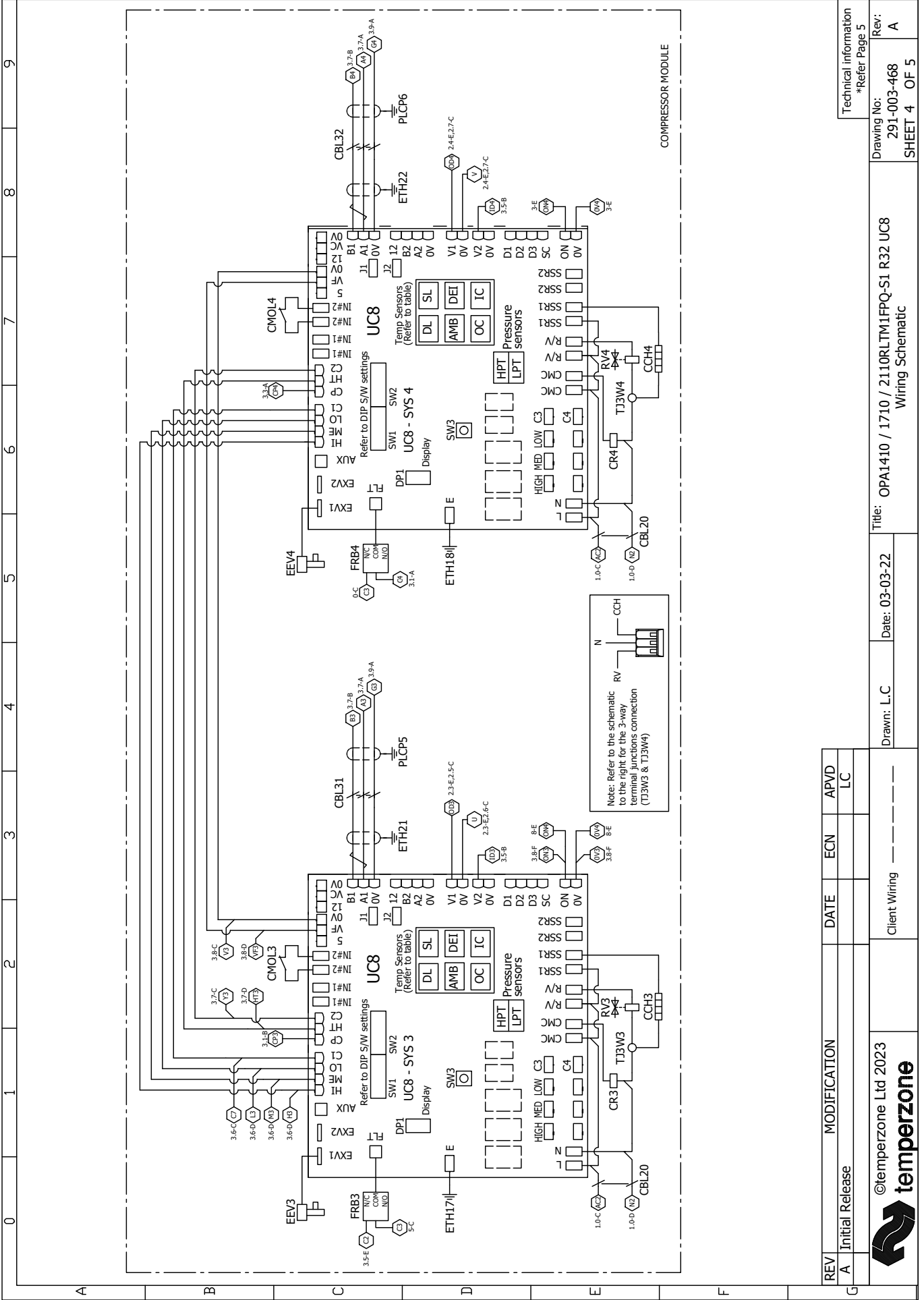


REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC

Technical information *Refer Page 5	Technical information Rev: A
Drawing No: 291-003-468	Rev: A
Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8 Wiring Schematic	
Drawn: L.C	Date: 03-03-22
Client Wiring	
SHEET 3 OF 5	



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REV	MODIFICATION	DATE	ECN	APVD
A	Initial Release			LC

Technical information *Refer Page 5	Technical information *Refer Page 5
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temperzone	temperzone
Client Wiring	Client Wiring
Date: 03-03-22	Date: 03-03-22
Drawn: L.C	Drawn: L.C
Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8 Wiring Schematic	Title: OPA1410 / 1710 / 2110RLTM1FPQ-S1 R32 UC8 Wiring Schematic
Drawing No: 291-003-468 SHEET 4 OF 5	Drawing No: 291-003-468 SHEET 4 OF 5
Rev: A	Rev: A

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<p>Important Notes:</p> <ul style="list-style-type: none"> 24 Hour power required (on L1) for control circuit and crankcase heaters Portable RCD shall be used with single phase socket. Phase Loss Relay <ul style="list-style-type: none"> PWR (Green) Indicator lits when power is being supplied. RY (Yellow) Indicator lits when relay is operating. 	<p>COMPRESSOR UCB DIP SWITCHES ON</p> <table border="1"> <tr><td>SYS 1</td><td>INVERTER</td><td>1, 4, 6, 7, 10, 14</td></tr> <tr><td>SYS 2</td><td>FIXED CAPACITY</td><td>1, 4, 6, 7, 10, 11, 14</td></tr> <tr><td>SYS 3</td><td>FIXED CAPACITY</td><td>1, 4, 6, 7, 10, 12, 14</td></tr> <tr><td>SYS 4</td><td>FIXED CAPACITY</td><td>1, 4, 6, 7, 10, 11, 12, 14</td></tr> </table> <p>Ferrites</p> <table border="1"> <tr><th>Part Number</th><th>Frequency Type</th><th>Number of Turns</th></tr> <tr><td>A</td><td>012-001-074</td><td>High</td></tr> <tr><td></td><td></td><td>1</td></tr> </table>	SYS 1	INVERTER	1, 4, 6, 7, 10, 14	SYS 2	FIXED CAPACITY	1, 4, 6, 7, 10, 11, 14	SYS 3	FIXED CAPACITY	1, 4, 6, 7, 10, 12, 14	SYS 4	FIXED CAPACITY	1, 4, 6, 7, 10, 11, 12, 14	Part Number	Frequency Type	Number of Turns	A	012-001-074	High			1	<p>Client Wiring</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>	<p>Client Wiring</p> <p>Use ≤ 24V/1A, not 230V</p> <p>TO / FROM CUSTOMER'S SUPPLY / CONTROL</p>																																																												
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