

Model	OPA 1410RLTM4FPQD(-Z) Econex Pro
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	876-141-701 / 876-141-710
Unit c/w Economiser (Standard / Opposite Hand)	877-141-701 / 877-141-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	876-141-723 / 876-141-732
Unit c/w Economiser (Standard / Opposite Hand)	877-141-723 / 877-141-732
Cooling capacity (net) ¹	146 kW
Cooling capacity (gross) range	11.8 ~ 189 kW
Heating capacity ¹	145 kW
Heating capacity (gross) range	12.9 ~ 181 kW
Electrical input - cooling	45.1 kW
Electrical input - heating	43.2 kW
EER / AEER (cooling) ¹	3.24 / 3.22
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
Master Controller	<i>c.pCO</i>
Slave Controllers	UC8 (x4)
Refrigerant	R32
Refrigerant Charge	7.1 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 scroll (x4)
Power supply ²	3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps at rating cond.	14.7 A/ph. (x4)
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)	69 / 67 / 74 A
Max. running amps (total system)	116 / 111 / 121 A
RCD type recommended	type B, 30mA, 3 pole
Net weight	2064 kg
Shipping weight (excl. cowl)	2204 kg
Net weight c/w Economiser	2154 kg

Accessories:

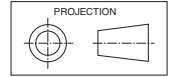
Remote wired Service Interface Device (<i>pGD1</i>)	201-000-379
Filters - rated EU4/G4 disposable	019-400-005 600x500x50 (x3) ³ 019-400-007 600x600x50 (x6)
Filters - rated EU4/G4 washable (NZ only)	019-000-034 600x500x50 (x3) ³ 019-000-031 600x600x50 (x6)

¹ Tested in accordance with AS/NZS 3823

² Voltage range: 380–440V

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

DIMENSIONS (mm)

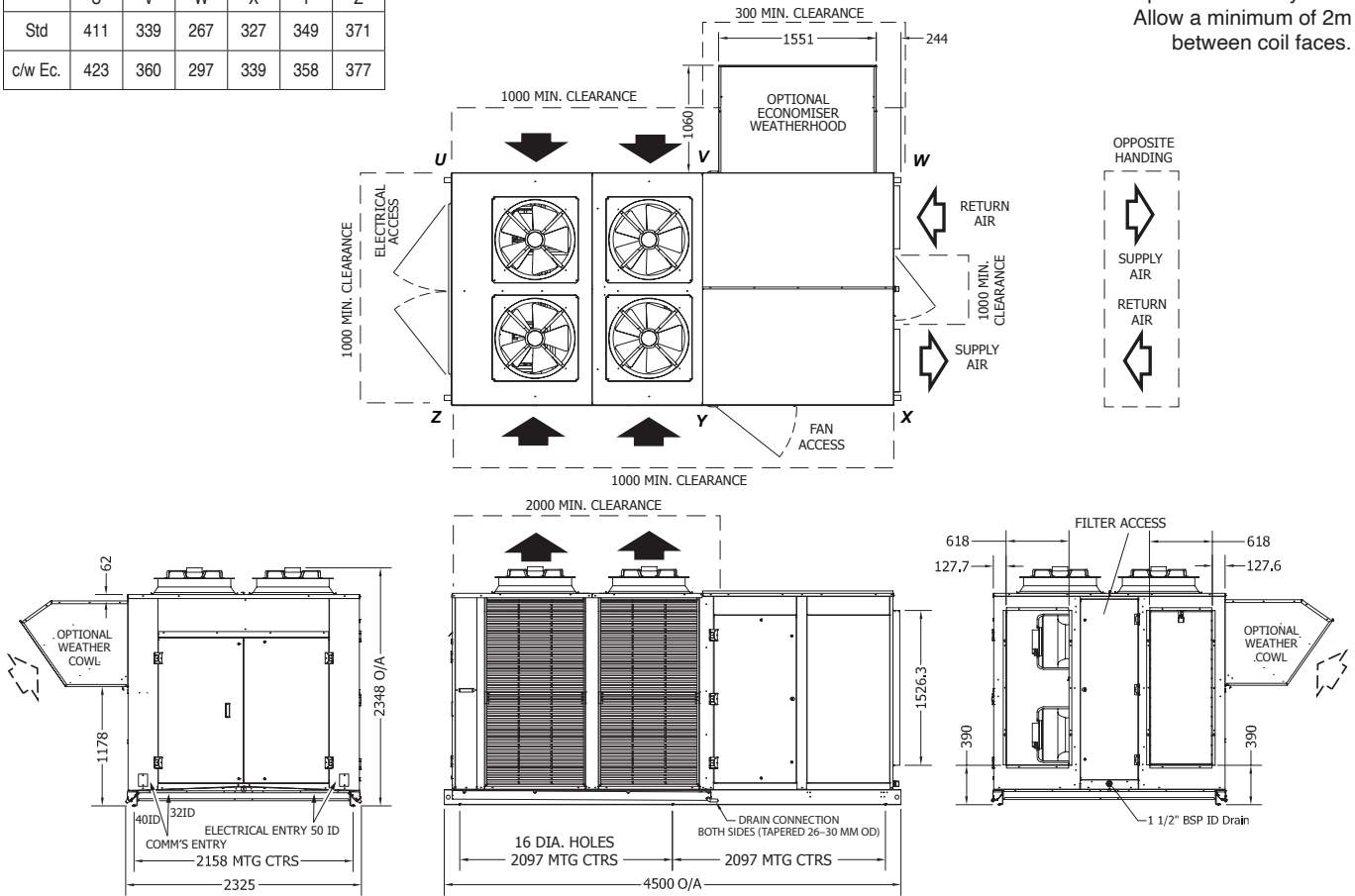


OPA 1410RLTM4FPQD01(-Z) Horizontal Supply / Standard Hand

	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

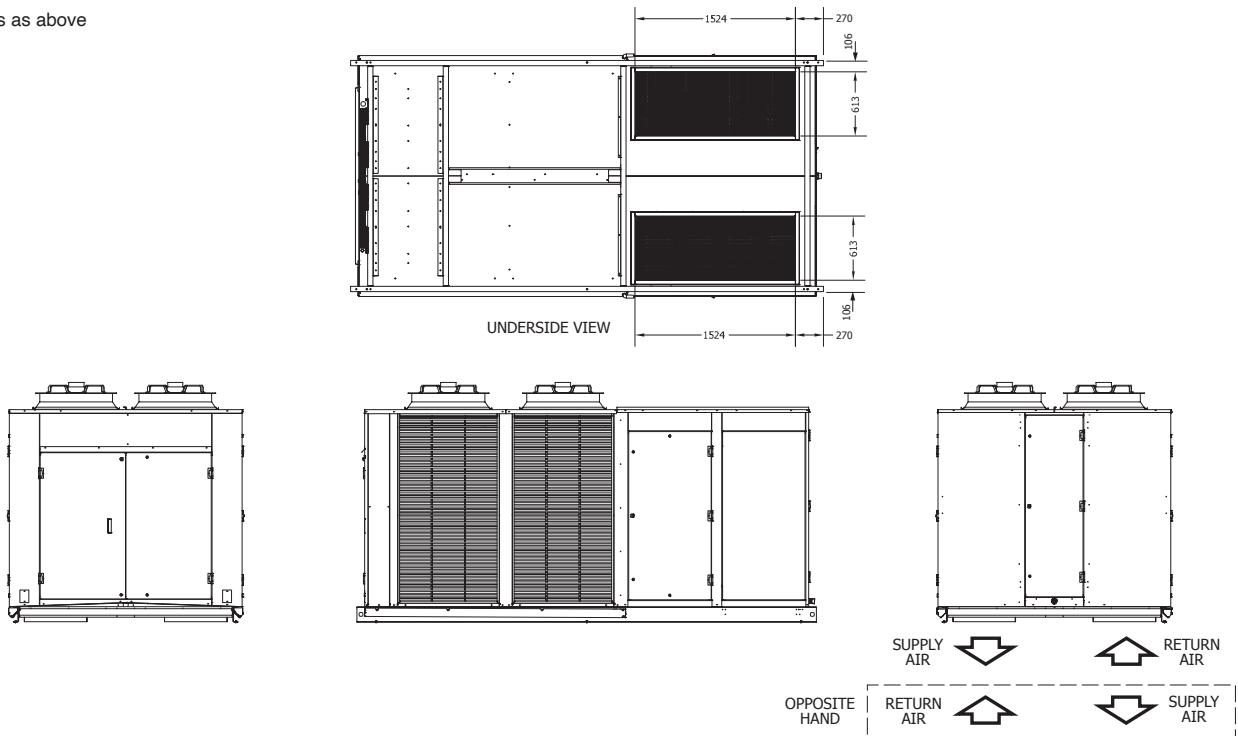
Not to Scale

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



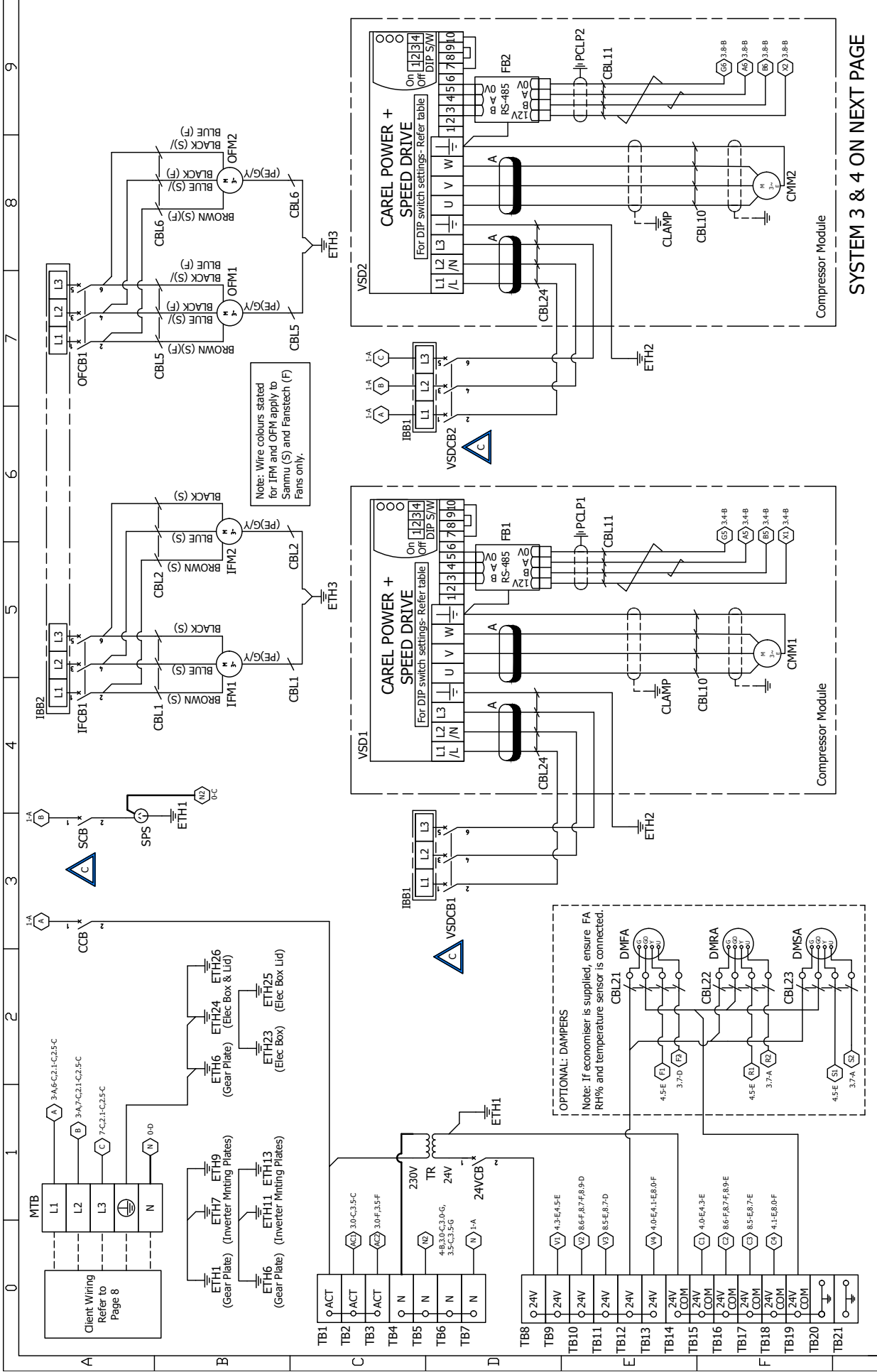
OPA 1410RLTM4FPQD23(-Z) Downward Supply / Standard Hand

Clearances as above



NOTE

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

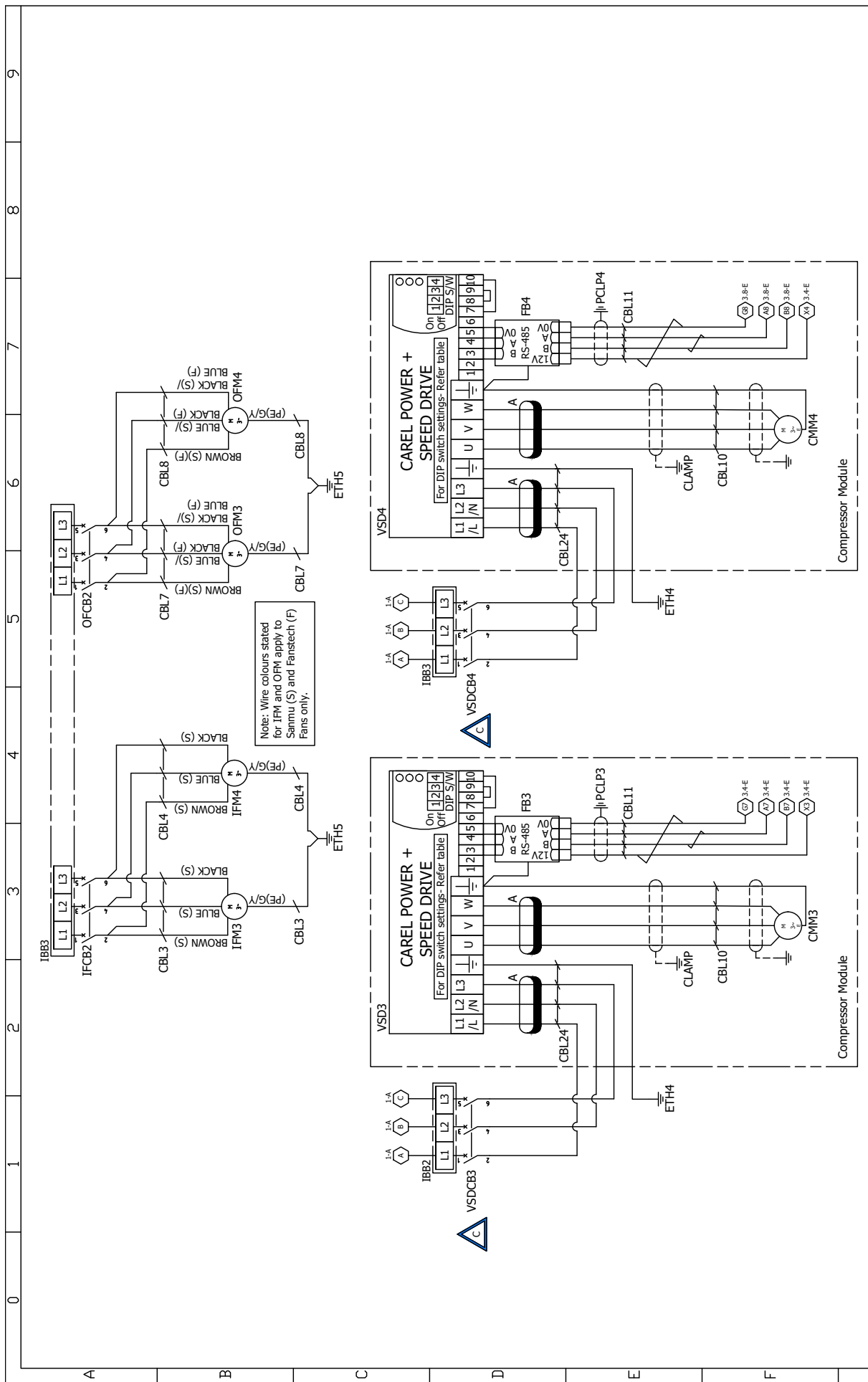


SYSTEM 3 & 4 ON NEXT PAGE

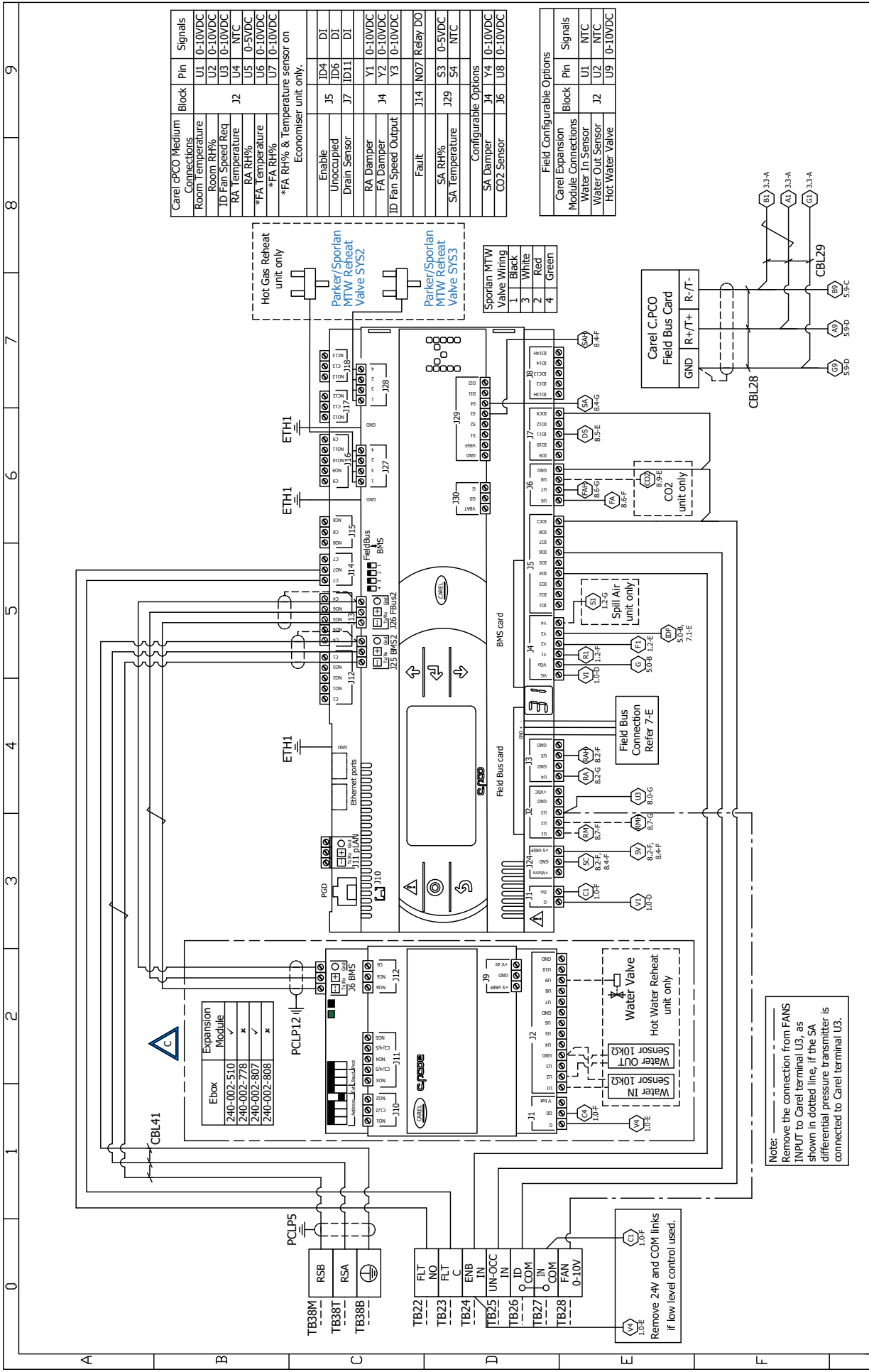
REV	C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.	DATE	12-10-23	ECN	5116	APVD	LC	Technical information *Refer Page 8		
Drawn:	L.C	Date:	22-05-20	Title:	OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8						
Client Wiring	Wiring Schematic										
Approved:	Pyu										
Rev:	C	Drawing No:	291-003-281							Sheet:	1 OF 8



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REV	MODIFICATION				DATE	ECN	APVD	Technical information
	C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.				12-10-23	5116	LC
©temperzone Ltd 2022		Drawn: L.C	Date: 22-05-20	Title: OPA1410 / 1710 / 2110RLTM4FDPO-S1 R32 UC8		Wiring Schematic		Drawing No: 291-003-281
temperzone		Client Wiring		Apprvd: <i>Pylu</i>		SHEET 2 OF 8		Rev: C



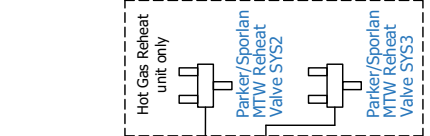
Carel dPCO Medium Connections	Block	Pin	Signals
Room Temperature	U1	0-10VDC	U1
Room RH%	U2	0-10VDC	U2
ID Fan Speed Req	U3	0-10VDC	U3
RA Temperature	U4	0-10VDC	U4
RA RH%	U5	0-5VDC	U5
*FA Temperature	U6	0-10VDC	U6
*FA RH%	U7	0-10VDC	U7

*FA RH% & Temperature sensor on Economiser unit only.

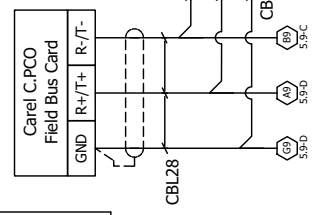
Enable	ID4	DI
Unoccupied	J5	DI
Drain Sensor	J7	DI
RA Damper	Y1	0-10VDC
FA Damper	Y2	0-10VDC
ID Fan Speed Output	Y3	0-10VDC
Fault	J14	NO7 Relay DO
SA RH%	J29	S3 0-5VDC
SA Temperature	S4	NTC

Configurable Options	
SA Damper	J4 Y4 0-10VDC
CO2 Sensor	J6 U8 0-10VDC

Field Configurable Options	
Carel Expansion Module Connections	Block Pin Signals
Water In Sensor	U1 U2 NTC
Water Out Sensor	U1 U2 NTC
Hot Water Valve	U9 U9 0-10VDC



Sporlan MTW Valve Wiring	
1	Black
2	White
3	Red
4	Green



Note:
 Remove the connection from FANS INPUT to Carel terminal U3, as shown in dotted line, if the SA differential pressure transmitter is connected to Carel terminal U3.

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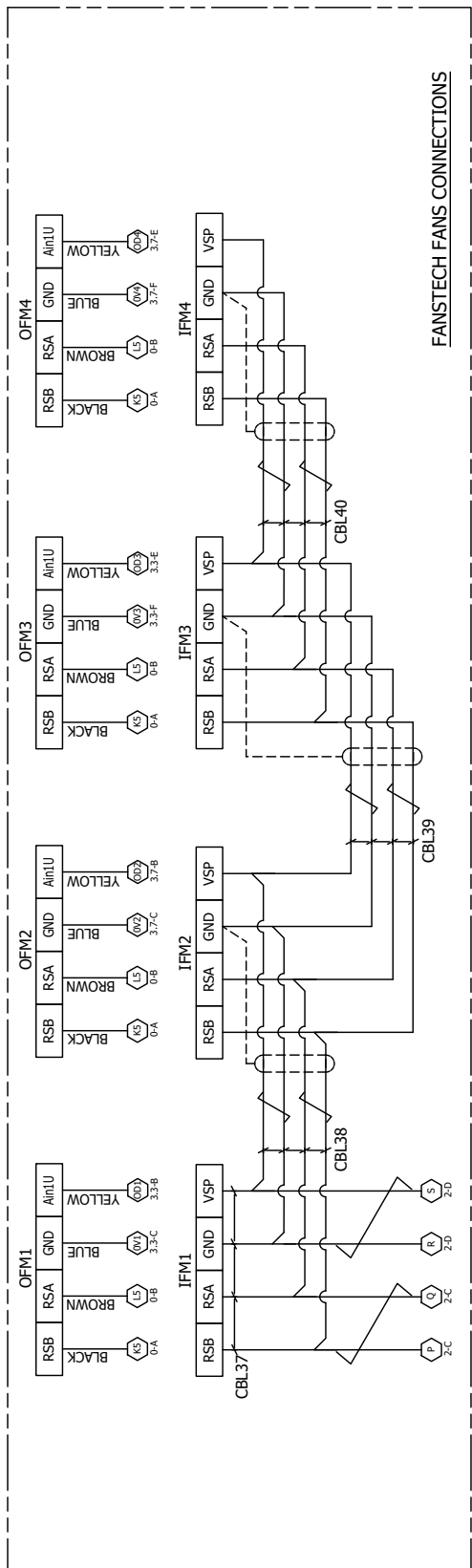
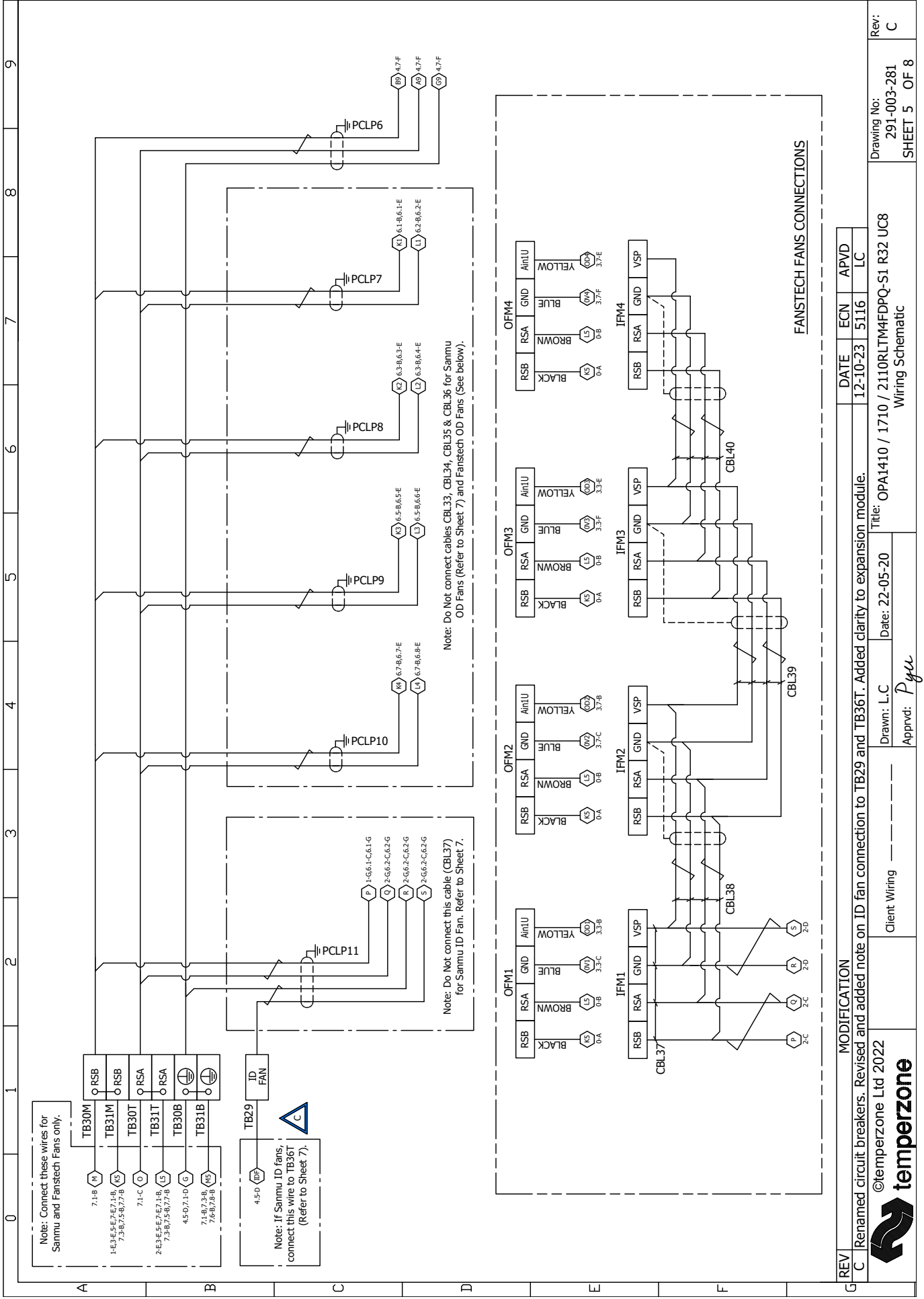
Drawing No:	291-003-281	Rev:	C
Client Wiring	_____	Sheet	4 OF 8

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Title: OPA1410 / 1710 / 2110RLTM4FDPO-S1 R32 UC8
 Wiring Schematic

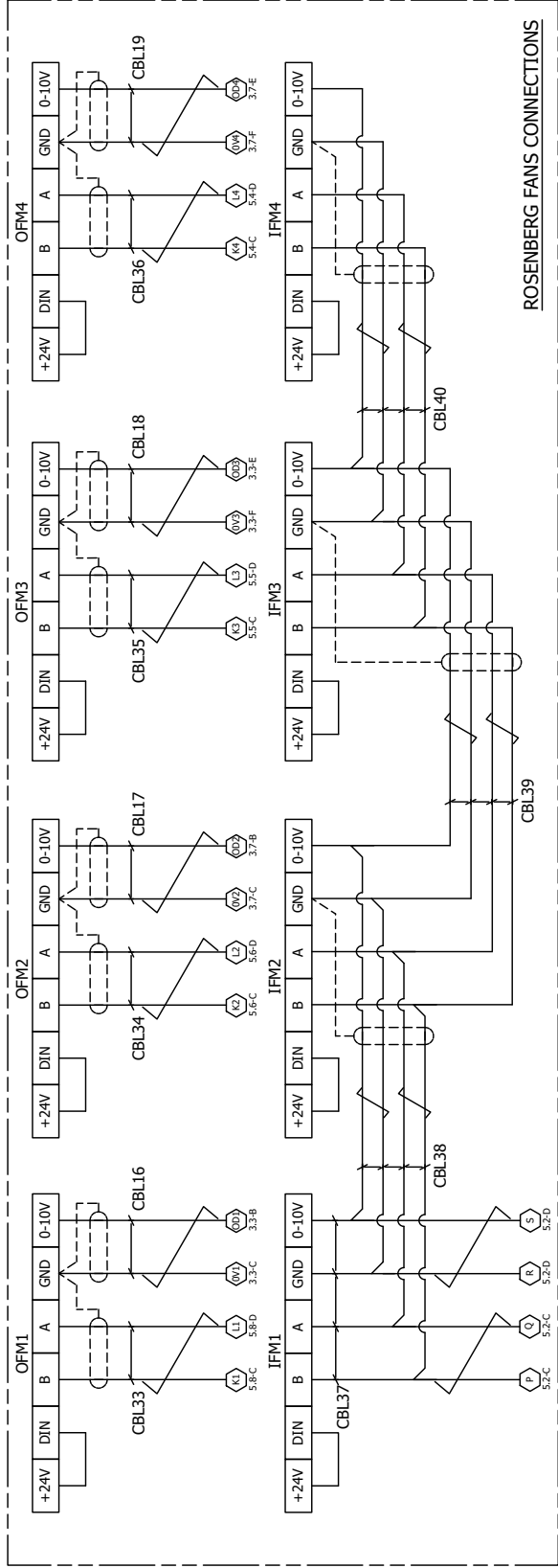
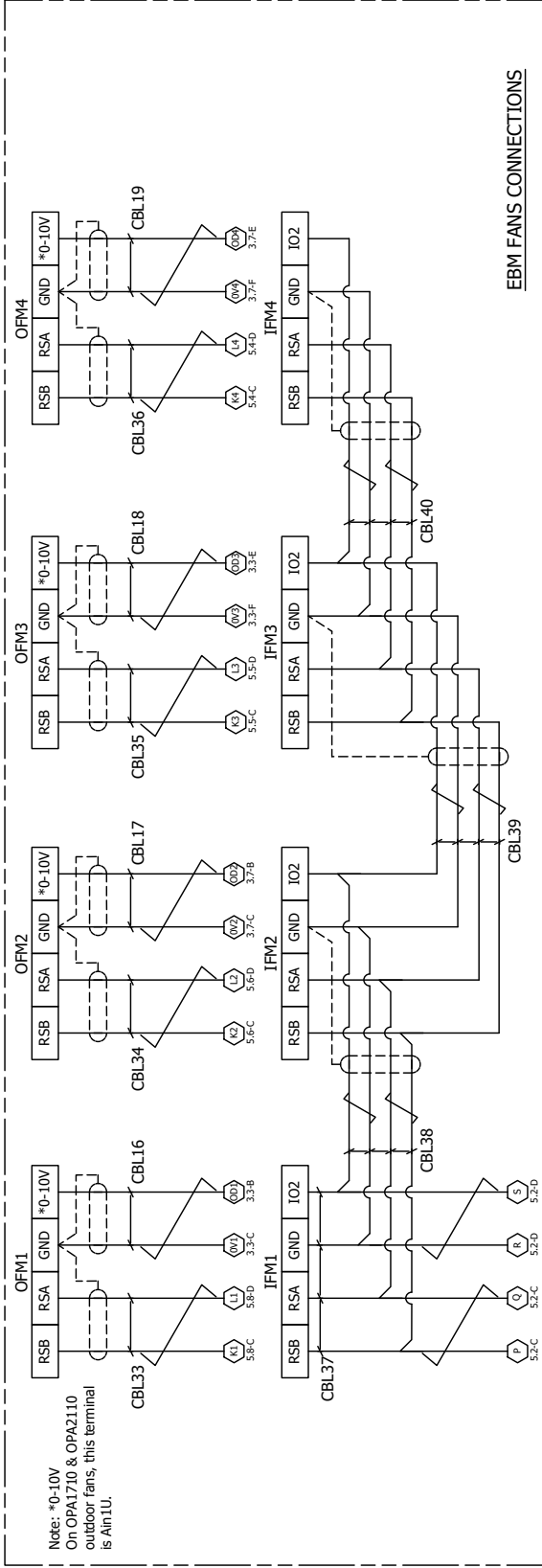
Drawn: L.C
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©temperzone Ltd 2022			Client Wiring			Rev: C		
temperzone			SHEET 5			OF 8		

0 1 2 3 4 5 6 7 8 9

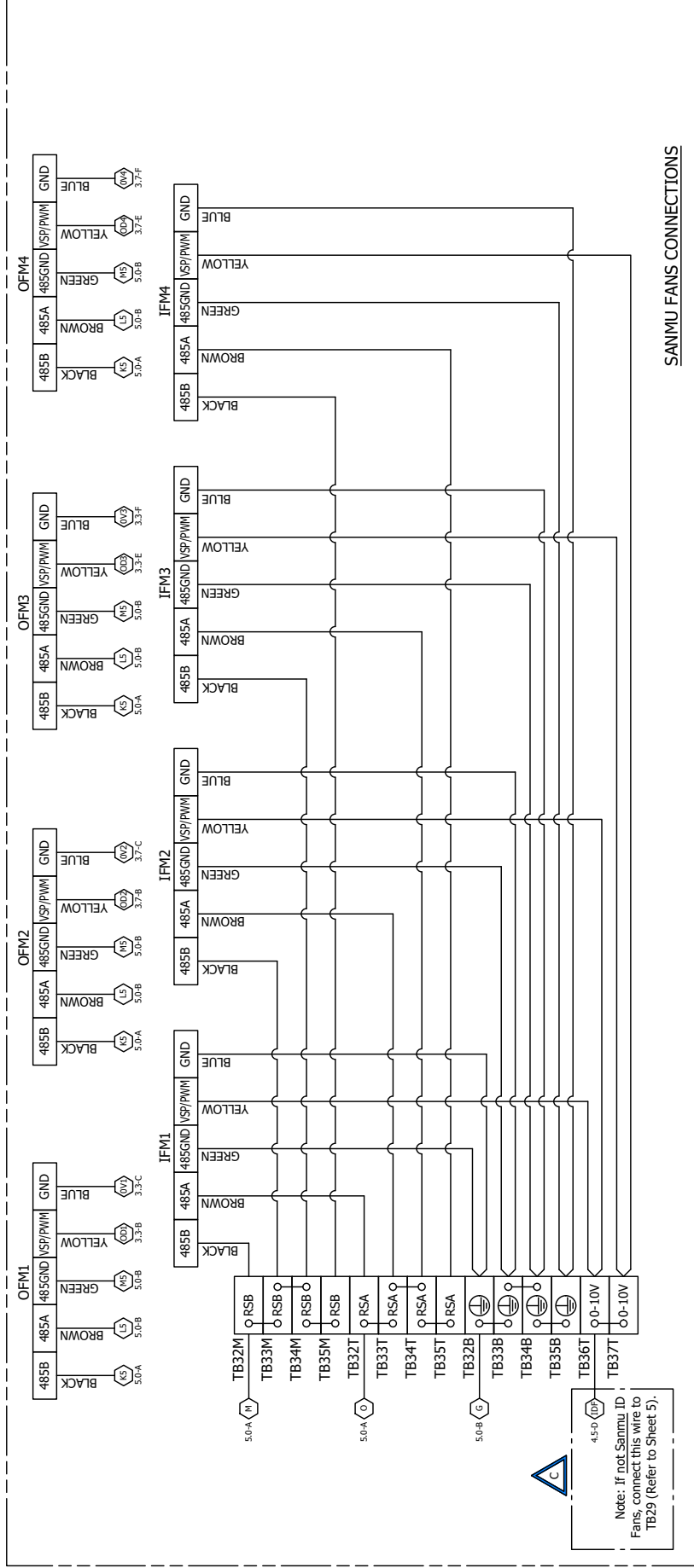
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				Approved: <i>Pgu</i>		Rev: C
						Drawing No: 291-003-281
						SHEET 6 OF 8

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SANIMU FANS CONNECTIONS

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Client Wiring: _____

Drawn: L.C | Date: 22-05-20 | Title: OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8 Wiring Schematic

Approved: *Pgll*

Rev: Drawing No: 291-003-281 SHEET 7 OF 8 C



0	1	2	3	4	5	6	7	8	9																																																														
<p>Important Notes: 24 Hour power required (on DL) for control circuit and crankcase heaters Portable RCD shall be used with single phase socket.</p>																																																																							
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<p>Wiring Diagrams:</p> <ul style="list-style-type: none"> Belimo Drain Sensor EXT-TN-1071375: Wiring NO output. Connections: 1.0-E (V), 1.0-F (C), 3.7-0 (FF), 1.0-E (V). Dwyer Filter Differential Pressure Transmitter MSX-W12-PA: Wiring 0-10VDC output. Connections: 1.0-E (V), 1.0-F (C), 3.7-0 (FF), 1.0-E (V). Room Sensor - Carel RH/Temp Sensor DPPC112000: Wiring (Supplied Loose). Refer to Sheet 4 for connections to Carel controller. Connections: 1.0-E (V), 4.3-E (R), 1.0-F (C), 4.3-E (R). FA Sensor - Carel RH/Temp Sensor DPPC112000: Wiring (0-10VDC output). Refer to Sheet 4 for connections to Carel controller. Connections: 1.0-E (V), 4.6-E (R), 1.0-F (C), 4.6-E (R). SA Sensors - Carel RH/Temp Sensor DPPC13A000: Wiring (0-5VDC & MTC output). Connections: 4.3-E (V), 4.3-E (R), 4.7-E (A), 4.7-E (B). RA Sensors - Carel RH/Temp Sensor DPPC13A000: Wiring (0-5VDC & MTC output). Connections: 4.3-E (V), 4.3-E (R), 4.4-E (R), 4.4-E (R). 																																																																							
<p>OPTIONAL:</p> <ul style="list-style-type: none"> Carel CO2 Sensor-DPWQ402000 Wiring 0-10VDC output. Refer to Sheet 4 for connections to Carel controller. Connections: 1.0-E (V), 4.6-E (R), 1.0-F (C). <p>DIP switches setting - Factory Default</p>																																																																							
<table border="1"> <thead> <tr> <th>REV</th> <th>MODIFICATION</th> <th>DATE</th> <th>ECN</th> <th>APVD</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.</td> <td>12-10-23</td> <td>5116</td> <td>LC</td> </tr> </tbody> </table> <p>Client Wiring _____</p> <p>Date: 22-05-20</p> <p>Drawn: LC</p> <p>Approved: <i>Pylu</i></p> <p>Title: OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8 Wiring Schematic</p> <p>Drawing No: 291-003-281</p> <p>Rev: C</p> <p>SHEET 8 OF 8</p>										REV	MODIFICATION	DATE	ECN	APVD	C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.	12-10-23	5116	LC																																																				
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