

<b>Model</b>	<b>OPA 2110RLTM4FPQD-I(Z) Econex Pro</b>
Configuration	Horizontal Supply Air
Reheat Model Item No. (Standard / Opposite Hand)	886-211-701 / 886-211-710
Unit c/w Economiser Item No. (Standard / Opposite Hand)	887-211-701 / 887-211-710
Configuration	Downward Supply Air
Reheat Model Item No. (Standard / Opposite Hand)	886-211-723 / 886-211-732
Unit c/w Economiser Item No. (Standard / Opposite Hand)	887-211-723 / 887-211-732
Cooling capacity (net) <sup>1</sup>	207 kW
Cooling capacity (gross) range	27 ~ 239 kW
Heating capacity <sup>1</sup>	203 kW
Heating capacity (gross) range	15 ~ 244 kW
Electrical input - cooling	67.3 kW
Electrical input - heating	57.4 kW
EER / AEER (cooling) <sup>1</sup>	3.07 / 3.06
COP / ACOP (heating) <sup>1</sup>	3.54 / 3.53
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 – reheat model	9.8 kg (sys. 1 & 4) / 10.8 kg (sys. 2 & 3)
Minimum floor area (@5m below ceiling diffuser)	11.8/14.3 m <sup>2</sup> /sys.
Compressor oil type	POE-46 (NXG5020 or equivalent)
Compressor type	Inverter scroll (x4)
Power supply <sup>2</sup>	3 ph. 400V ac 50Hz + N + E
Compressor (3ph.) run amps at rating cond.	22 A/ph. (x4)
Compressor circuit breaker	32 A (x4)
Indoor fan motor size	EC Plug 3.5kW (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)	111 A/ph.
Max. running amps (total system)	159 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight	2675 kg
Shipping weight (excl. cowl)	2734 kg
Net weight (c/w Economiser)	2765 kg

**Accessories:**

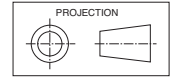
Remote wired Service Interface Display ( <i>pGDN1</i> )	201-000-867
Filters - rated EU4/G4 disposable	019-400-004 500x500x50 (x12) 019-400-005 600x500x50 (x4) <sup>3</sup>
Filters - rated EU4/G4 washable (NZ only)	019-000-033 500x500x50 (x12) 019-000-034 600x500x50 (x4) <sup>3</sup>

<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.

# DIMENSIONS (mm)

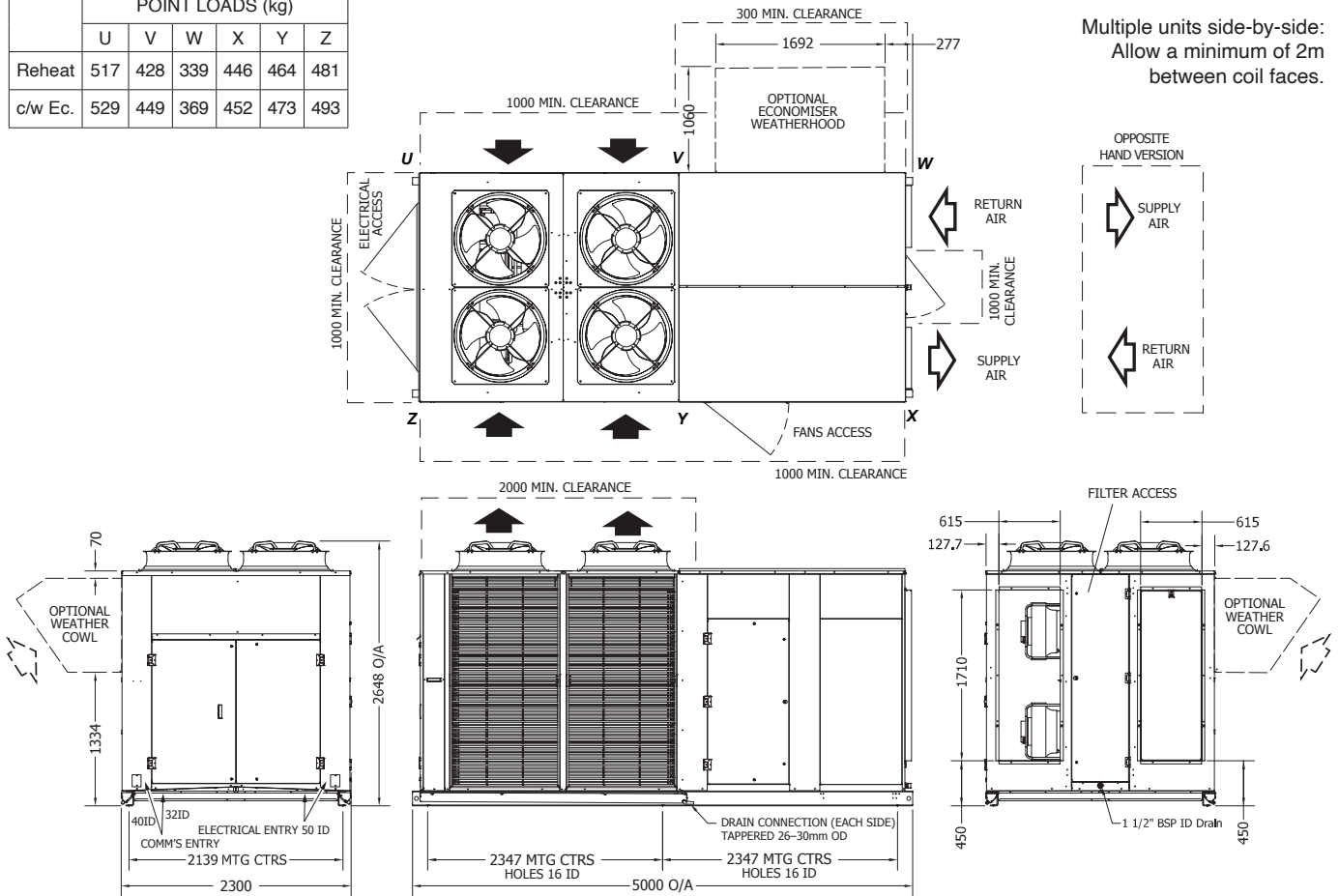


## OPA 2110RLTMFPQD01-I(Z) Horizontal Supply, Standard Hand

Not to Scale

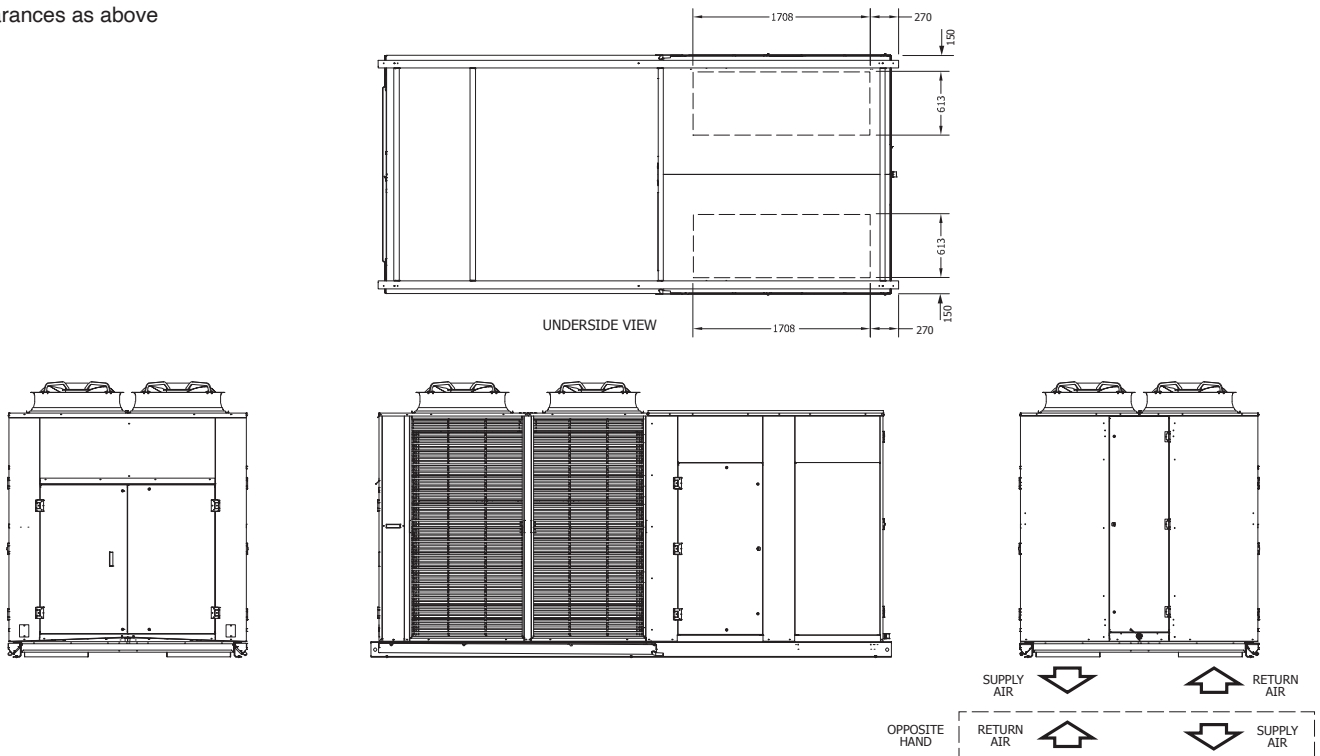
Multiple units side-by-side:  
Allow a minimum of 2m  
between coil faces.

	POINT LOADS (kg)					
	U	V	W	X	Y	Z
Reheat	517	428	339	446	464	481
c/w Ec.	529	449	369	452	473	493



## OPA 2110RLTMFPQD23-I(Z) Downward Supply, Standard Hand

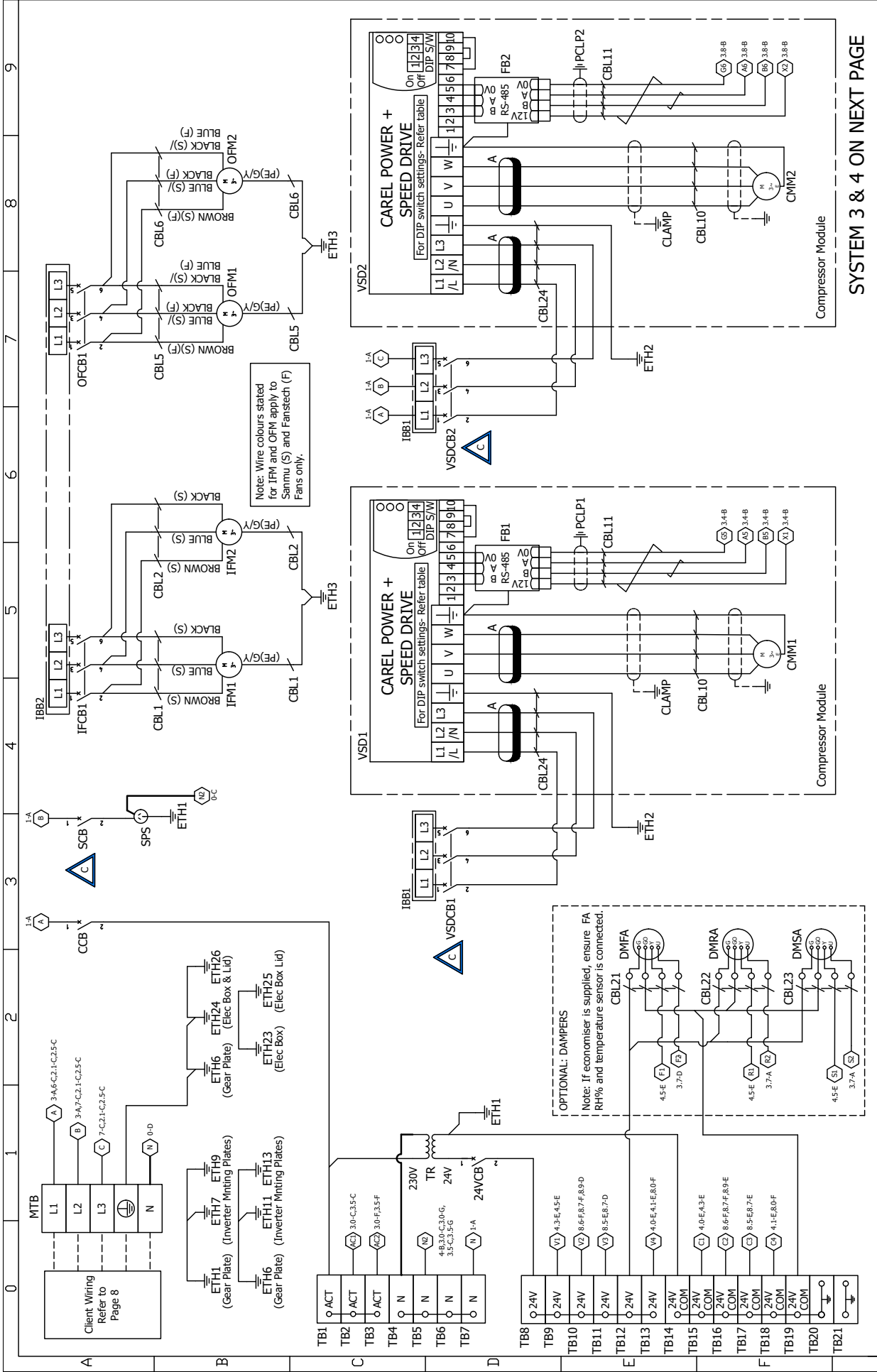
Clearances as above



### NOTE

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

# WIRING (1)



SYSTEM 3 & 4 ON NEXT PAGE

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

Technical information	*Refer Page 8
Rev:	C
Drawing No:	291-003-281
SHEET 1	OF 8

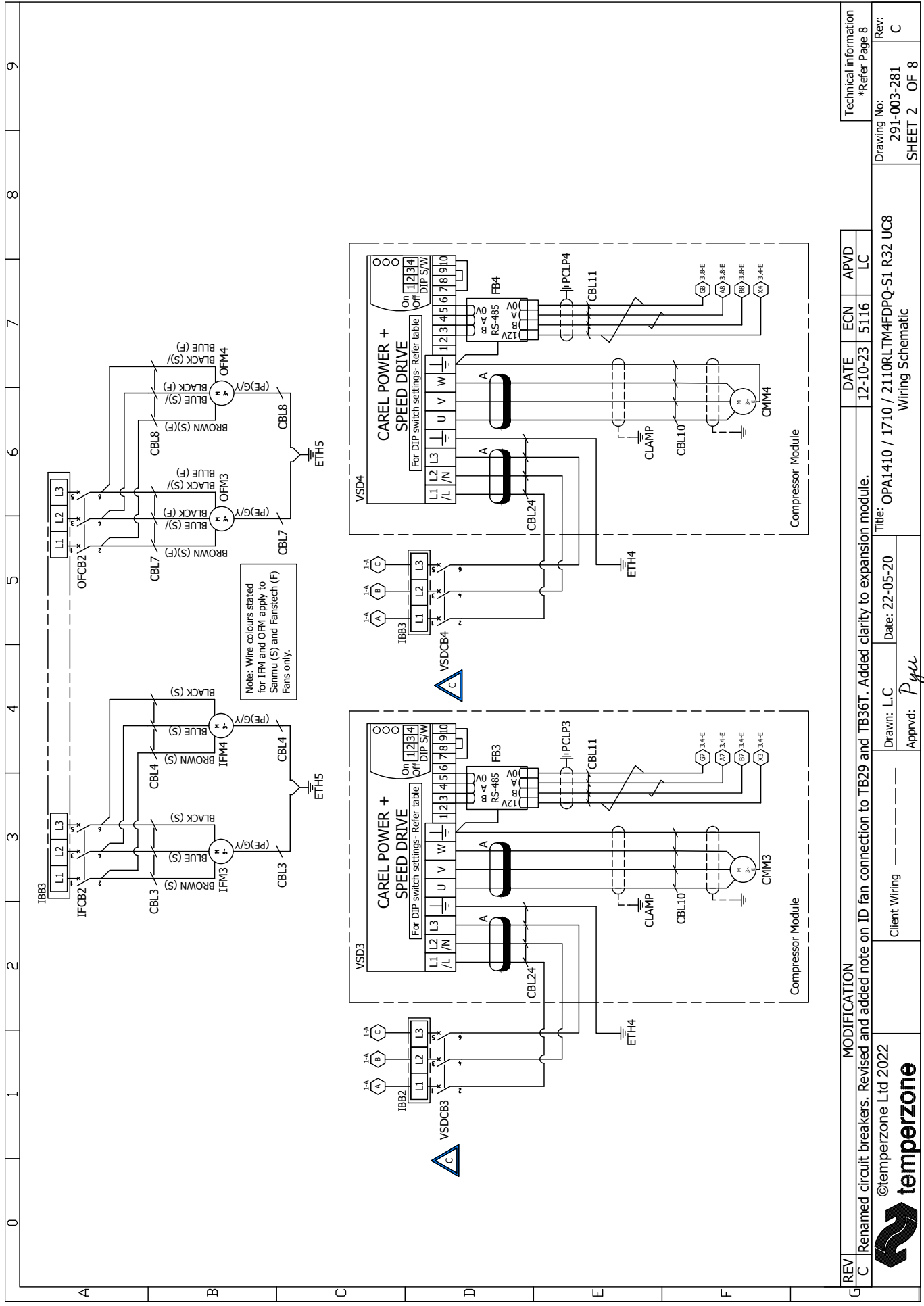
  

Drawn: L.C	Date: 22-05-20	Title: OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8
Approved: <i>Pyu</i>	Wiring Schematic	



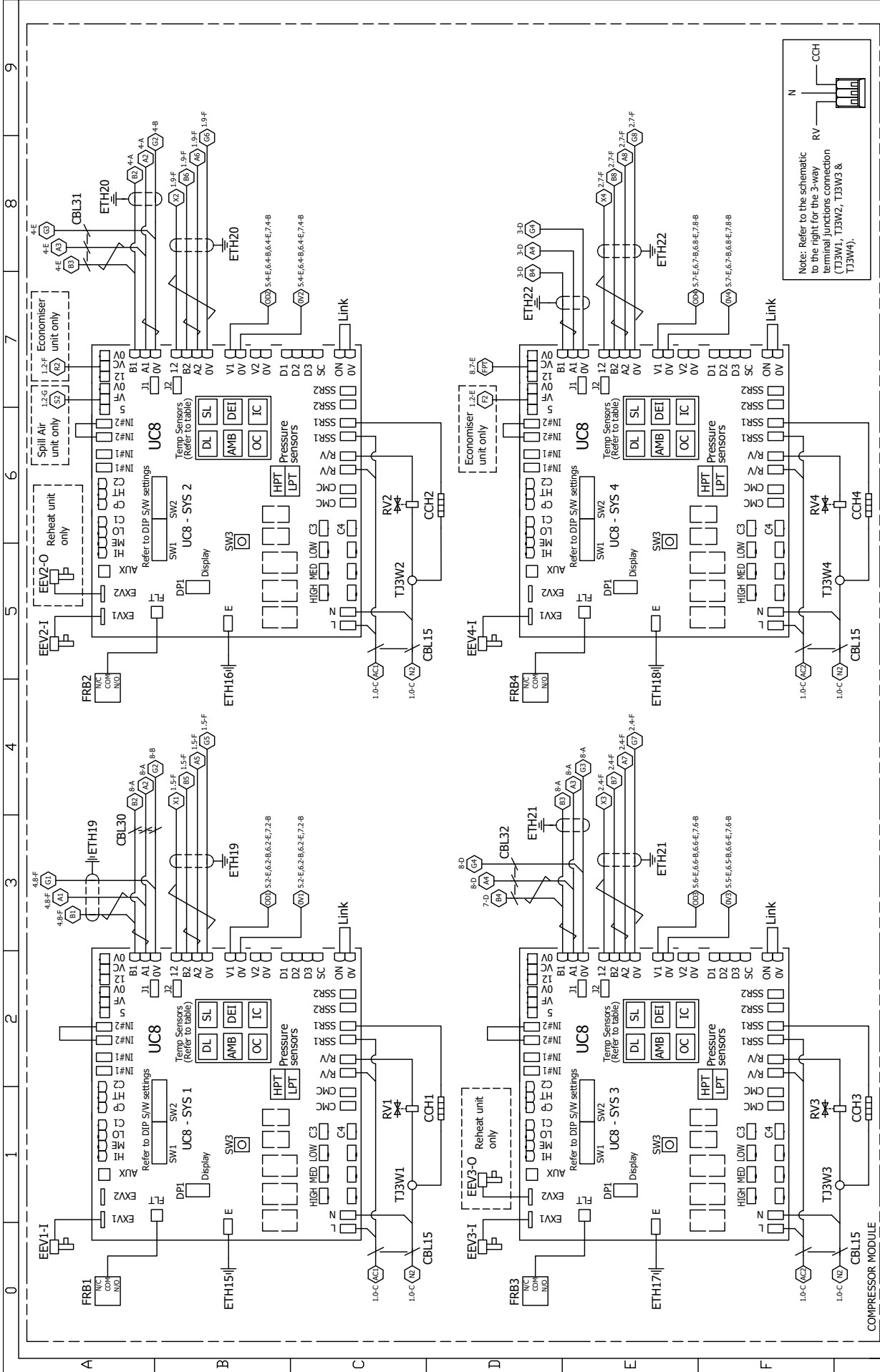
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Client Wiring



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		Drawing No: 291-003-281		Rev: C
		Client Wiring	Approved: <i>Pyu</i>	Wiring Schematic		SHEET 2 OF 8		

# WIRING (3)



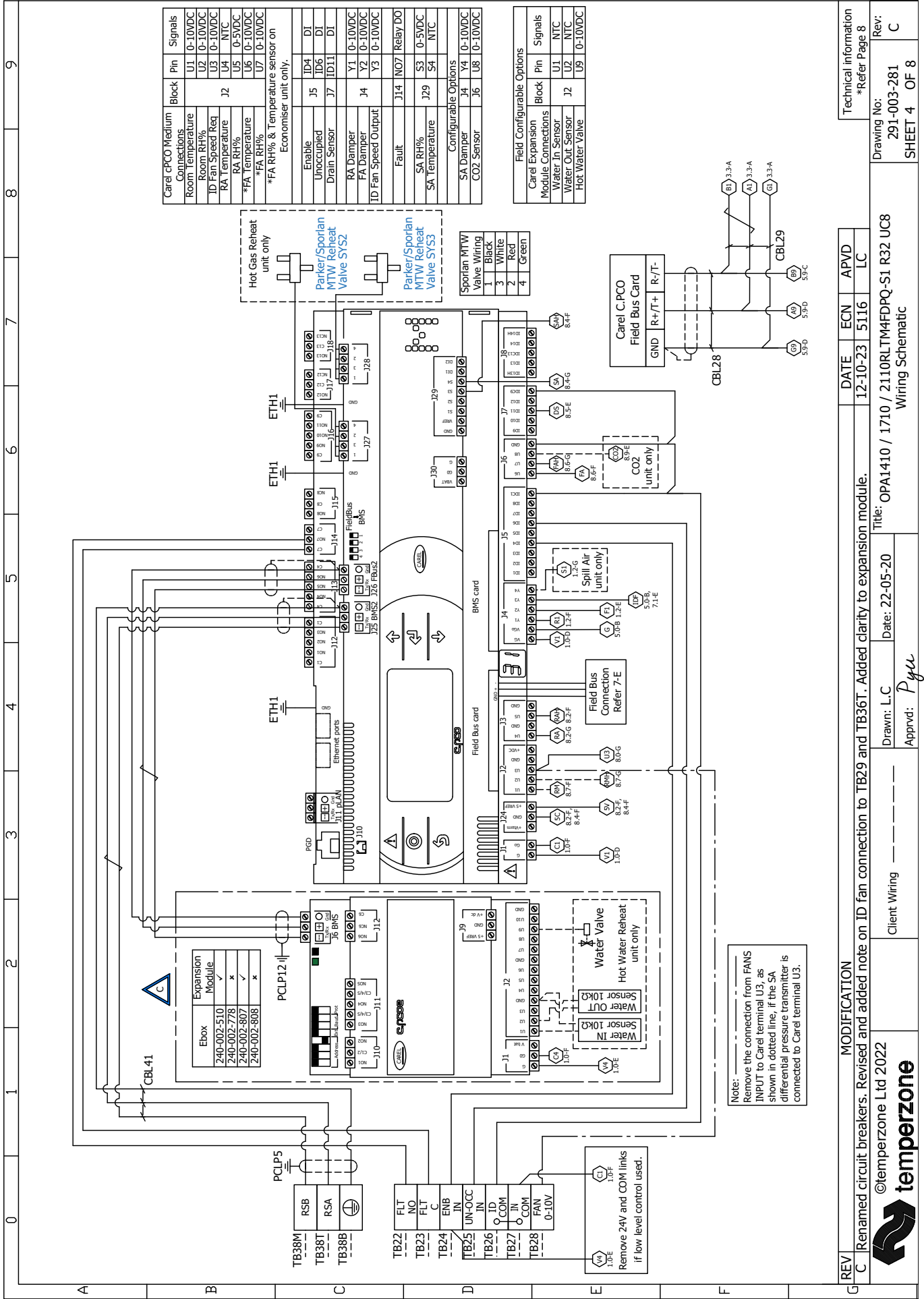
REV	MODIFICATION	DATE	ECN	APVD	LC
C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.	12-10-23	5116	LC	

Technical information	*Refer Page 8
Drawing No:	291-003-281
Rev:	C
Title:	OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8
Wiring Schematic	
Client Wiring	-----
Drawn: L.C	Date: 22-05-20
Apprvd: <i>Pyle</i>	
SHEET 3 OF 8	



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

Fieldbus BMS	Block	Pin	Signals
Enable	J5	ID4	DI
Unoccupied	ID6	DI	DI
Drain Sensor	J7	ID11	DI
RA Damper	Y1	0-10VDC	Y1 0-10VDC
FA Damper	Y2	0-10VDC	Y2 0-10VDC
ID Fan Speed Output	Y3	0-10VDC	Y3 0-10VDC
Fault	J14	NO7	Relay DO
SA RH%	J29	S3	0-5VDC
SA Temperature	S4	NTC	NTC

Fieldbus Card	Block	Pin	Signals
SA Damper	J4	Y4	0-10VDC
CO2 Sensor	J6	U8	0-10VDC

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

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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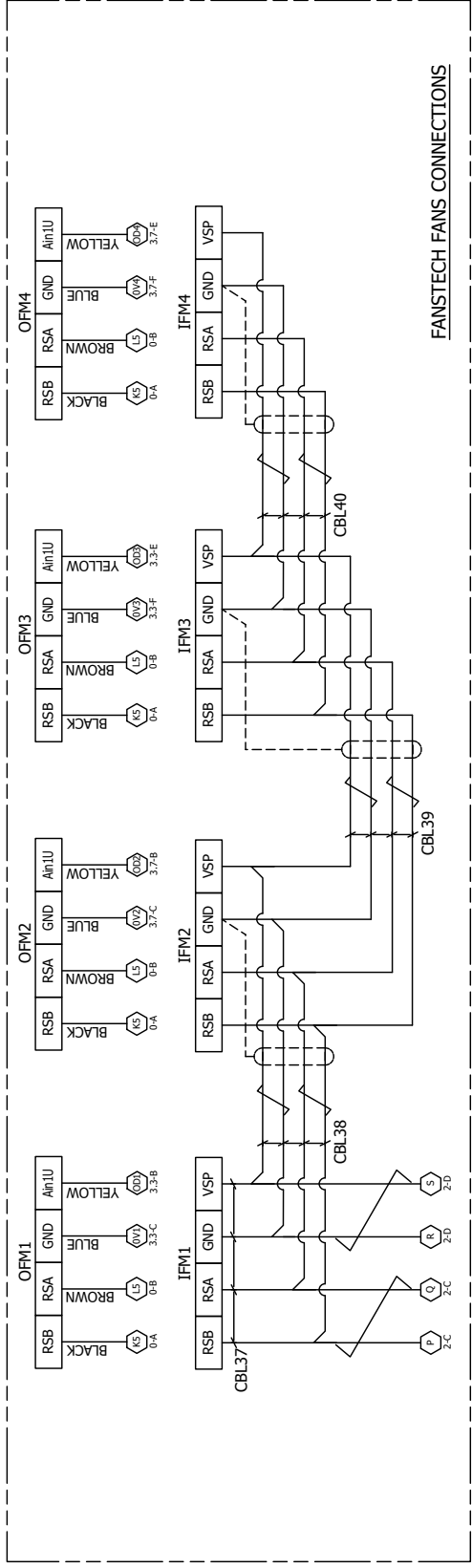
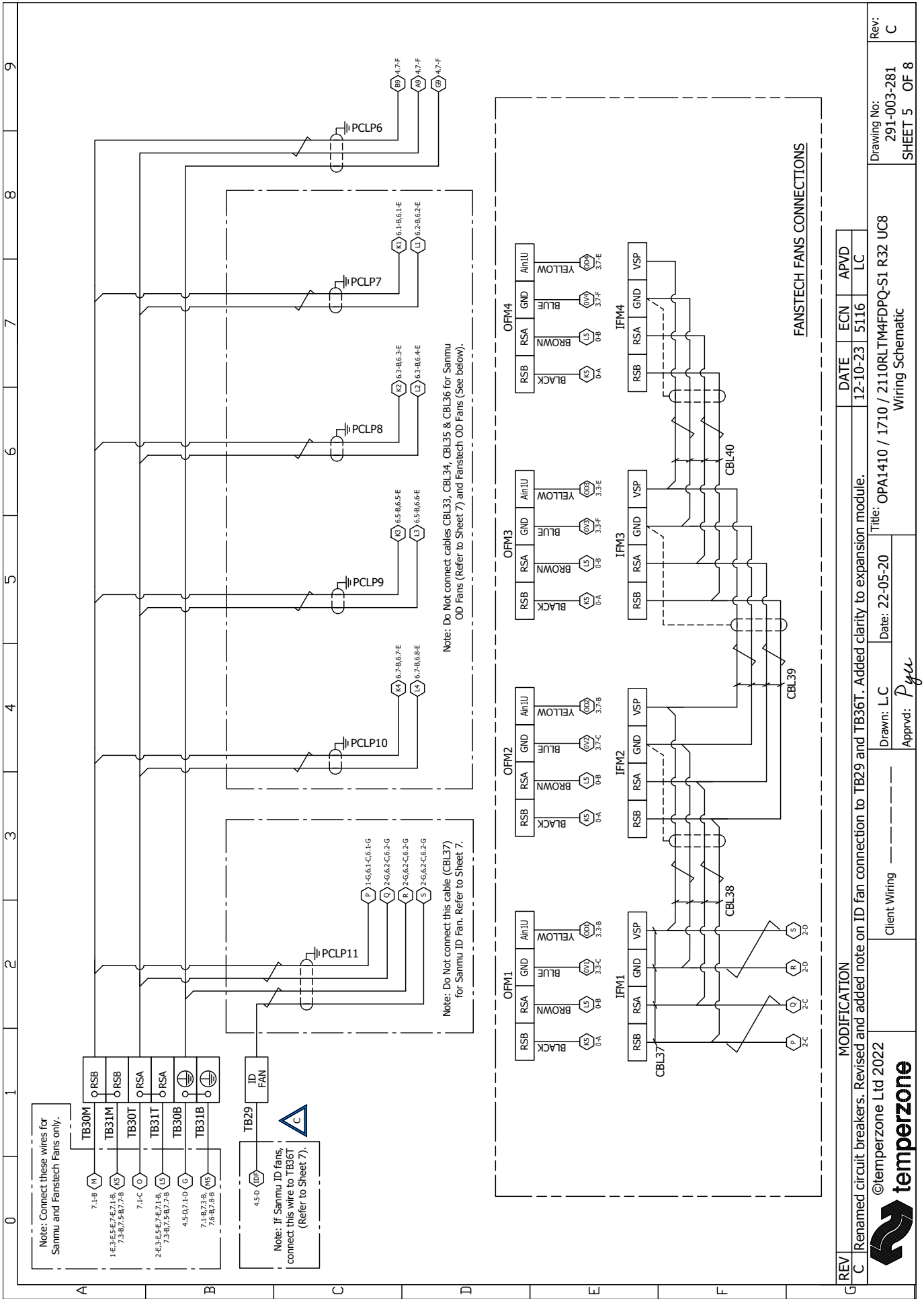


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Client Wiring \_\_\_\_\_  
 Drawn: L.C  
 Date: 22-05-20  
 Approved: *Pyle*

Title: OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8  
 Wiring Schematic

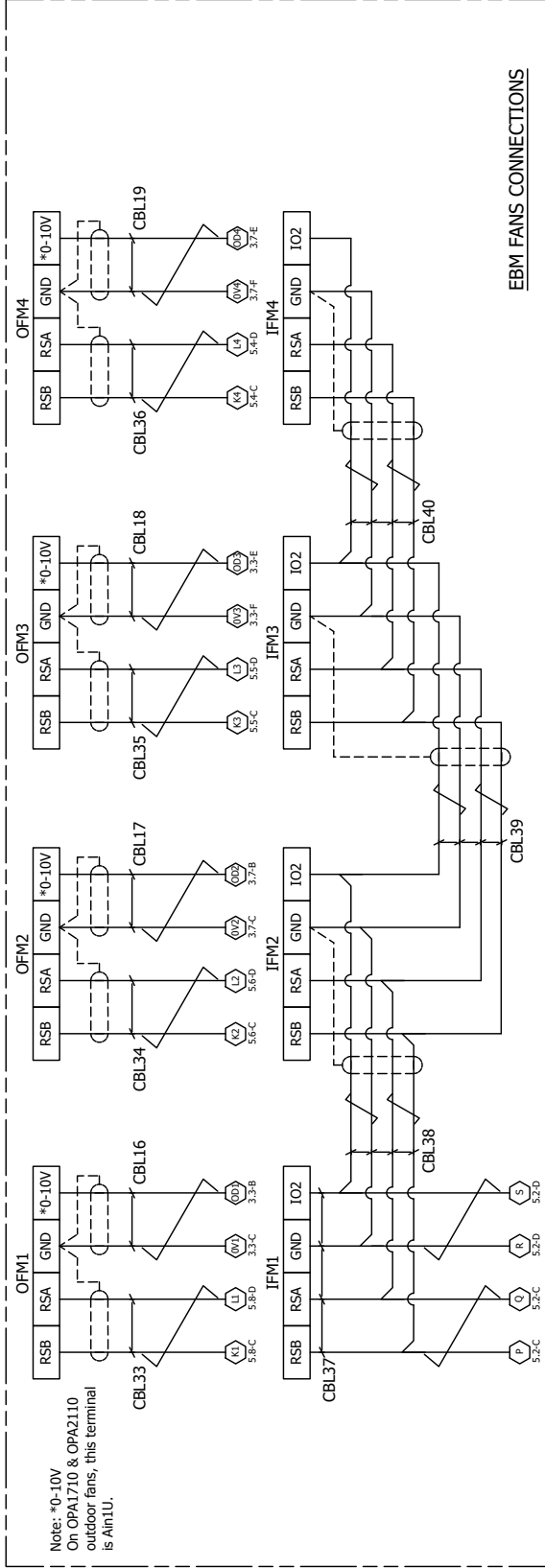
Drawing No: 291-003-281  
 Rev: C  
 SHEET 4 OF 8



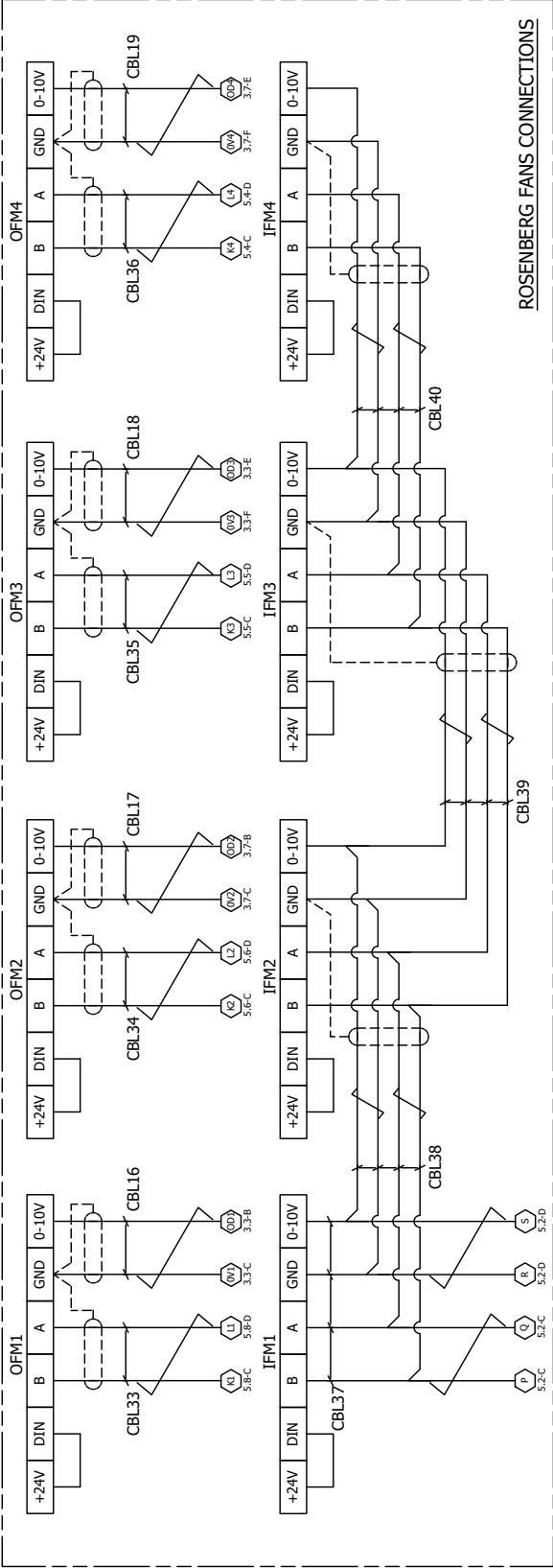
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©temperzone Ltd 2022			Drawn: L.C	Date: 22-05-20	Title: OPA1410 / 1710 / 2110RLTM4DPQ-S1 R32 UC8	
			Client Wiring	Approvd: <i>Pyy</i>	Wiring Schematic	
			Drawing No: 291-003-281		Rev: C	
			SHEET 5		OF 8	

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.



EBM FANS CONNECTIONS



ROSENBERG FANS CONNECTIONS

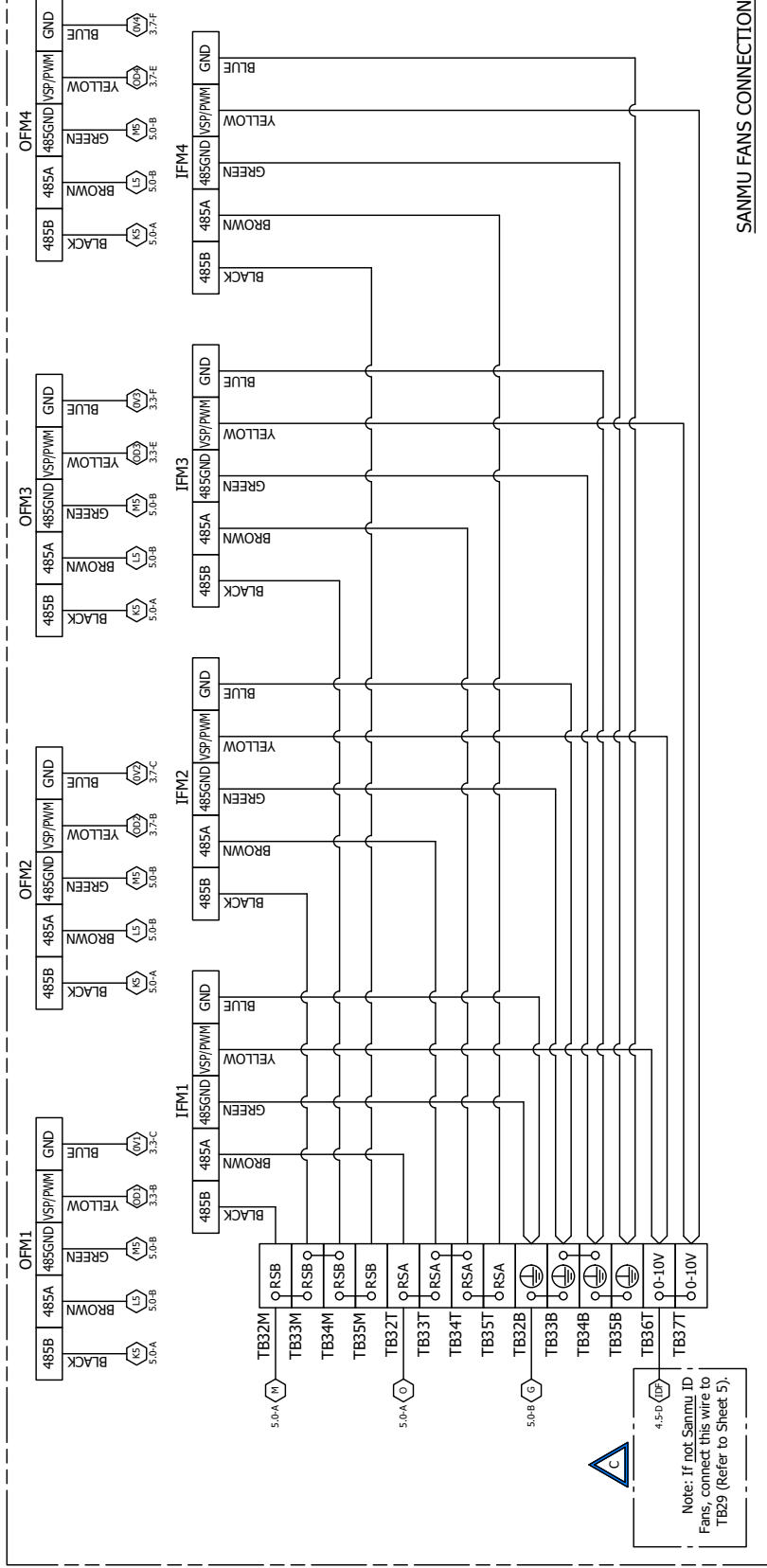
REV	MODIFICATION			DATE	ECN	APVD
C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.			12-10-23	5116	LC
©temperzone Ltd 2022				Drawn: L.C	Date: 22-05-20	Title: OPA1410 / 1710 / 2110RLTM4FDPO-S1 R32 UC8
Client Wiring				Wiring Schematic		
				Drawing No: 291-003-281 SHEET 6 OF 8		
				Rev: C		

Approved: *Pyu*



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.



SANMU FANS CONNECTIONS

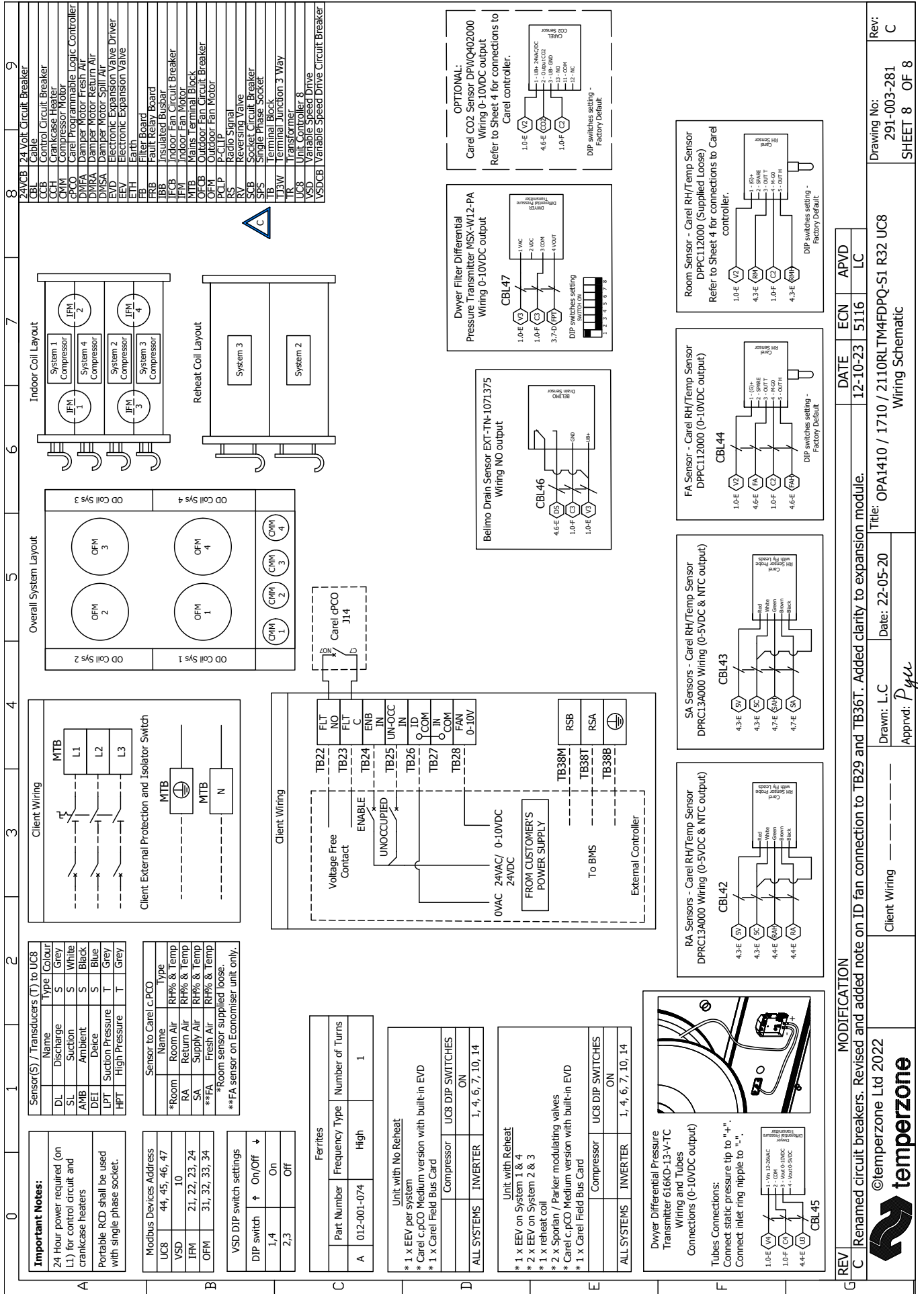
REV	MODIFICATION	DATE	ECN	APVD
C	Renamed circuit breakers. Revised and added note on ID fan connection to TB29 and TB36T. Added clarity to expansion module.	12-10-23	5116	LC

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Client Wiring \_\_\_\_\_  
 Drawn: L.C  
 Date: 22-05-20  
 Title: OPA1410 / 1710 / 2110RLTM4FDPO-S1 R32 UC8  
 Wiring Schematic

Rev: C  
 Drawing No: 291-003-281  
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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

Client Wiring

Drawn: L.C

Date: 22-05-20

Approved: *Pylu*

Title: OPA1410 / 1710 / 2110RLTM4FDPQ-S1 R32 UC8

Wiring Schematic

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Rev: C

Drawing No: 291-003-281

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