

Model	OPA 560RLTFPQ-Z-S2
Configuration Item No. (Standard / Opposite Hand)	Horizontal Supply Air + Economiser 877-056-701 / 877-056-710
Configuration Item No. (Standard / Opposite Hand)	Downward Supply Air + Economiser 877-056-723 / 877-056-732
Cooling capacity (net) ¹	53.5 kW
Cooling capacity range (gross)	27.4 ~ 64.8 kW
Heating capacity ¹	57.0 kW
Heating capacity range	24.0 ~ 63.1 kW
Electrical input - cooling	17.9 kW
Electrical input - heating	19.1 kW
EER / AEER (cooling) ¹	2.99 / 2.98
COP / ACOP (heating) ¹	2.98 / 2.97
Unit Controller	UC8
Refrigerant	R32
Refrigerant Charge Minimum floor area (@2.4m below ceiling diffuser)	13.5 kg 97 m ²
Compressor oil type	POE 46 (NXG5020 or equivalent)
Compressor type	inverter scroll
Power supply ²	3 ph. 400 V ac 50 Hz + N + E
Compressor (3ph.) run amps ¹	22 A/ph
Compressor + VSD circuit breaker	50 A
Indoor fan motor size	EC plug 560 dia. 4.2kW
Nominal air flow ¹	2 600 l/s
Indoor fan motor (3ph.) - full load	6.5 A/ph.
Outdoor fan motor (3ph.) - full load	5.2 A/ph.
Outdoor fan max. static pressure @ 6 450 l/s	125 Pa
Control circuit breaker (internal)	2 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system) ¹	24 / 22/ 24 A
Max. running amps (total system)	40 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight c/w Economiser	831 kg
Shipping weight c/w Economiser	895 kg

Accessories:

Filters - rated EU4/G4 disposable	019-400-005 600x500x50 (x4) ³
Filters - rated EU4/G4 washable	019-000-034 600x500x50 (x4) ³
Drain tundish (set of 2)	060-000-653

Refer to temperzone for other options.

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)

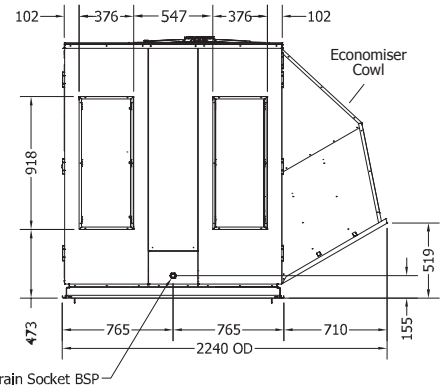
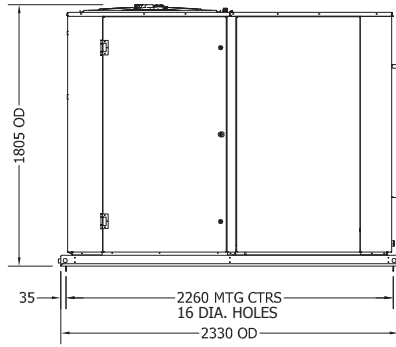
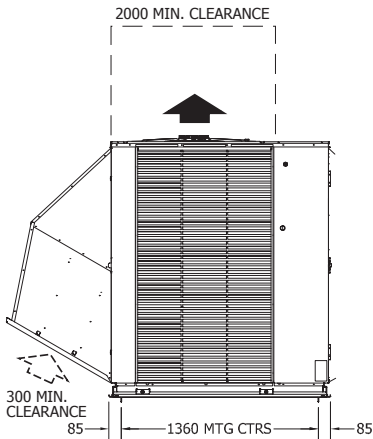
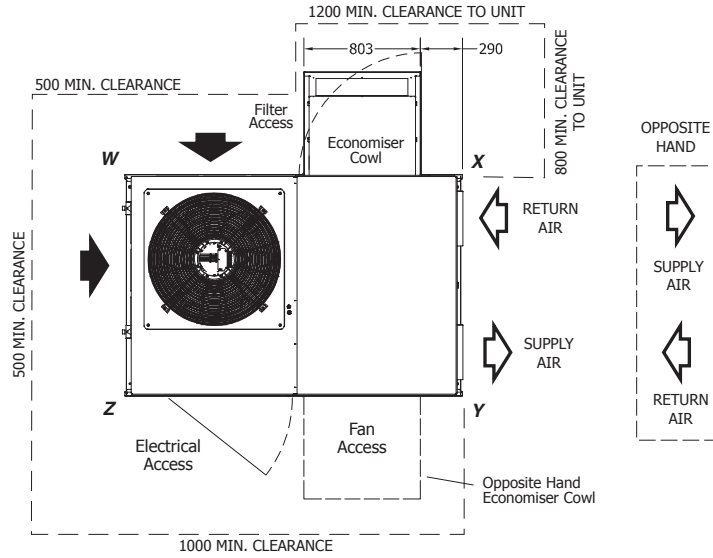


OPA 560RLTFP01-Z-S2 Standard Hand, Horizontal Supply

Not to Scale

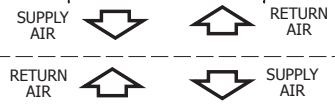
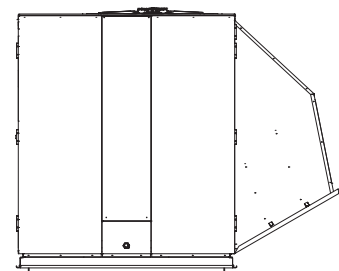
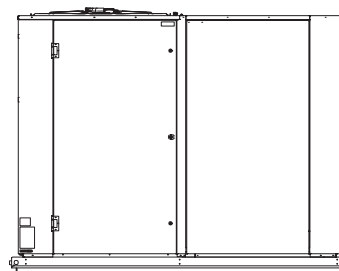
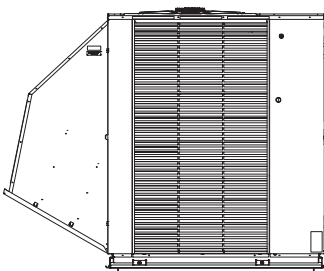
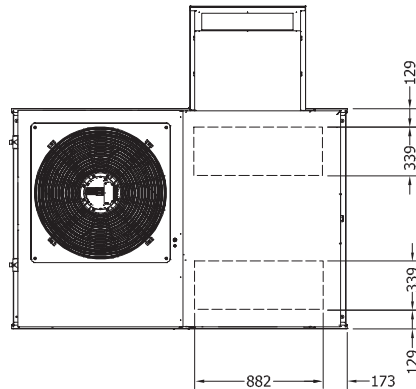
Multiple units side-by-side:
Allow a minimum of 1m
between coil faces.

	POINT LOADS (kg)			
	W	X	Y	Z
Std Hd cw Ec	189	206	209	218
Op Hd cw Ec	189	209	206	218



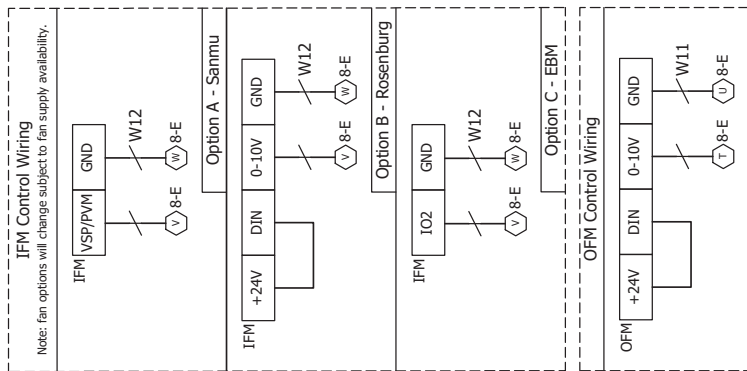
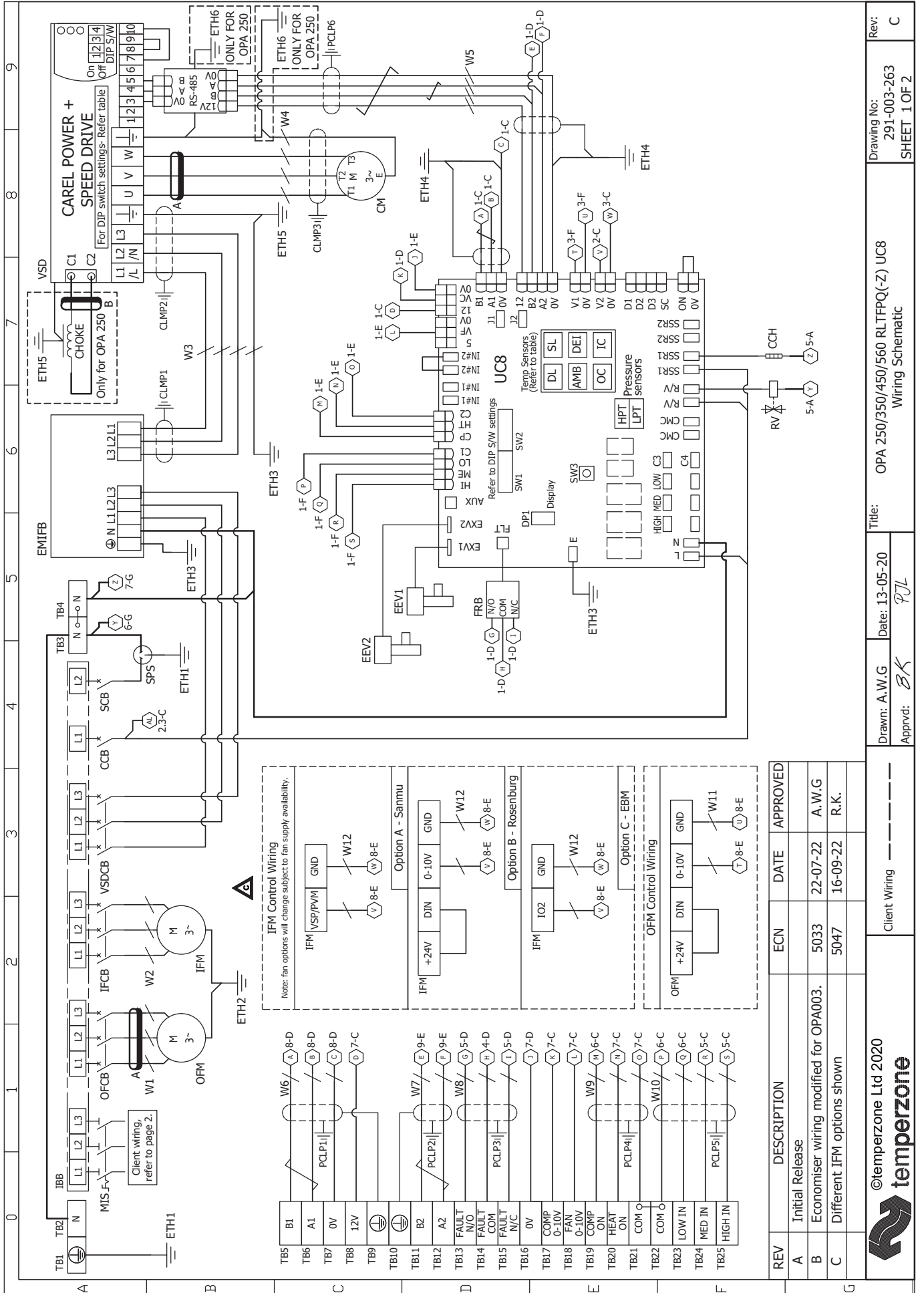
OPA 560RLTFP23-Z-S2 Standard Hand, Downward Supply

Clearances as above



NOTE

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



REV	DESCRIPTION	ECN	DATE	APPROVED
A	Initial Release			
B	Economiser wiring modified for OPA003.	5033	22-07-22	A.W.G
C	Different IFM options shown	5047	16-09-22	R.K.

©temperzone Ltd 2020

Client Wiring -----
 Title: OPA 250/350/450/560 RLTFPQ(-Z) UC8
 Drawing No: 291-003-263
 SHEET 1 OF 2

Drawn: A.W.G
 Date: 13-05-20
 P.J.L.
 Approved: B.K.

Rev: C

0	1	2	3	4	5	6	7	8	9																																																																																																																															
A	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Client Wiring</p> <p style="text-align: center;">Client External Protection and Isolator Switch</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Customer BMS Input</p> <p style="text-align: center;">Connect cable screen to 'EARTH' terminal</p> </div>		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Ferrites</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Part Number</th> <th>Frequency Type</th> <th>Number of Turns</th> </tr> </thead> <tbody> <tr> <td>A 012-001-074</td> <td>High</td> <td>1</td> </tr> <tr> <td>B 012-001-094</td> <td>Low</td> <td>1</td> </tr> </tbody> </table> <p style="text-align: center;">Important Note! Ferrite 'A' on OD Fan circuit breaker for OPA 450 and 560 only.</p> </div>		Part Number	Frequency Type	Number of Turns	A 012-001-074	High	1	B 012-001-094	Low	1	<div style="border: 1px solid black; padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">24VCB</td> <td>24 Volt Circuit Breaker</td> </tr> <tr> <td>CCB</td> <td>Control Circuit Breaker</td> </tr> <tr> <td>CHH</td> <td>Crankcase Heater</td> </tr> <tr> <td>CM</td> <td>Compressor Motor</td> </tr> <tr> <td>DMF</td> <td>Damper Motor Fresh Air</td> </tr> <tr> <td>DMR</td> <td>Damper Motor Return Air</td> </tr> <tr> <td>EEV</td> <td>Electronic Expansion Valve</td> </tr> <tr> <td>EMIFB</td> <td>EMI Filter Board</td> </tr> <tr> <td>ETH</td> <td>Earth</td> </tr> <tr> <td>FRB</td> <td>Fault Relay Board</td> </tr> <tr> <td>IFCB</td> <td>Indoor Fan Circuit Breaker</td> </tr> <tr> <td>IFM</td> <td>Indoor Fan Motor</td> </tr> <tr> <td>IBB</td> <td>Insulated Bus Bar</td> </tr> <tr> <td>MIS</td> <td>Main Isolator Switch</td> </tr> <tr> <td>OFCB</td> <td>Outdoor Fan Circuit Breaker</td> </tr> <tr> <td>OFM</td> <td>Outdoor Fan Motor</td> </tr> <tr> <td>PCLP</td> <td>P Clip</td> </tr> <tr> <td>RV</td> <td>Reversing Valve</td> </tr> <tr> <td>SCB</td> <td>Socket Circuit Breaker</td> </tr> <tr> <td>SPS</td> <td>Single Phase Socket</td> </tr> <tr> <td>TB</td> <td>Terminal Block</td> </tr> <tr> <td>TR</td> <td>Transformer</td> </tr> <tr> <td>UC8</td> <td>Unit Controller 8</td> </tr> <tr> <td>VSD</td> <td>Variable Speed Drive</td> </tr> <tr> <td>VSDCB</td> <td>Variable Speed Drive Circuit Breaker</td> </tr> <tr> <td>W</td> <td>Cable Marker</td> </tr> </table> </div>	24VCB	24 Volt Circuit Breaker	CCB	Control Circuit Breaker	CHH	Crankcase Heater	CM	Compressor Motor	DMF	Damper Motor Fresh Air	DMR	Damper Motor Return Air	EEV	Electronic Expansion Valve	EMIFB	EMI Filter Board	ETH	Earth	FRB	Fault Relay Board	IFCB	Indoor Fan Circuit Breaker	IFM	Indoor Fan Motor	IBB	Insulated Bus Bar	MIS	Main Isolator Switch	OFCB	Outdoor Fan Circuit Breaker	OFM	Outdoor Fan Motor	PCLP	P Clip	RV	Reversing Valve	SCB	Socket Circuit Breaker	SPS	Single Phase Socket	TB	Terminal Block	TR	Transformer	UC8	Unit Controller 8	VSD	Variable Speed Drive	VSDCB	Variable Speed Drive Circuit Breaker	W	Cable Marker	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Important Note! Unit requires 24 hour power supply for control circuit and crankcase heaters</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Economiser Option</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Sensors (S) / Transducers (T)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DL</th> <th>Name</th> <th>Type</th> <th>Colour</th> </tr> </thead> <tbody> <tr> <td>SL</td> <td>Discharge Temp</td> <td>S</td> <td>GREY</td> </tr> <tr> <td>AMB</td> <td>Suction Temp</td> <td>S</td> <td>WHITE</td> </tr> <tr> <td>DEI</td> <td>Ambient Temp</td> <td>S</td> <td>YELLOW</td> </tr> <tr> <td>IC</td> <td>De-ice Temp</td> <td>S</td> <td>BLUE</td> </tr> <tr> <td>LPT</td> <td>De-ice Temp</td> <td>S</td> <td>BLUE</td> </tr> <tr> <td>HPT</td> <td>Suction Pressure</td> <td>T</td> <td></td> </tr> <tr> <td></td> <td>High Pressure</td> <td>T</td> <td></td> </tr> </tbody> </table> </div>	DL	Name	Type	Colour	SL	Discharge Temp	S	GREY	AMB	Suction Temp	S	WHITE	DEI	Ambient Temp	S	YELLOW	IC	De-ice Temp	S	BLUE	LPT	De-ice Temp	S	BLUE	HPT	Suction Pressure	T			High Pressure	T		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">SAT-3 & TZT100 connection to UC8 terminals</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>UC8 terminals</th> <th>SAT-3</th> <th>TZT100 Terminals</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>12V</td> <td>24</td> </tr> <tr> <td>B2</td> <td>B</td> <td>B</td> </tr> <tr> <td>A2</td> <td>A</td> <td>A</td> </tr> <tr> <td>0V</td> <td>GND</td> <td>24C</td> </tr> <tr> <td>Shield to 0V</td> <td></td> <td></td> </tr> </tbody> </table> </div>	UC8 terminals	SAT-3	TZT100 Terminals	12	12V	24	B2	B	B	A2	A	A	0V	GND	24C	Shield to 0V			<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">UC8 DIP switch settings</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DIP switch</th> <th>↑ On/Off ↓</th> </tr> </thead> <tbody> <tr> <td>1,2,4,6,7,10,14</td> <td>On</td> </tr> <tr> <td>All Others Off</td> <td>Off</td> </tr> </tbody> </table> </div>	DIP switch	↑ On/Off ↓	1,2,4,6,7,10,14	On	All Others Off	Off	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">PSD DIP switch settings</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DIP switch</th> <th>↑ On/Off ↓</th> </tr> </thead> <tbody> <tr> <td>1, 4</td> <td>On</td> </tr> <tr> <td>2, 3</td> <td>Off</td> </tr> </tbody> </table> </div>	DIP switch	↑ On/Off ↓	1, 4	On	2, 3	Off
Part Number	Frequency Type	Number of Turns																																																																																																																																						
A 012-001-074	High	1																																																																																																																																						
B 012-001-094	Low	1																																																																																																																																						
24VCB	24 Volt Circuit Breaker																																																																																																																																							
CCB	Control Circuit Breaker																																																																																																																																							
CHH	Crankcase Heater																																																																																																																																							
CM	Compressor Motor																																																																																																																																							
DMF	Damper Motor Fresh Air																																																																																																																																							
DMR	Damper Motor Return Air																																																																																																																																							
EEV	Electronic Expansion Valve																																																																																																																																							
EMIFB	EMI Filter Board																																																																																																																																							
ETH	Earth																																																																																																																																							
FRB	Fault Relay Board																																																																																																																																							
IFCB	Indoor Fan Circuit Breaker																																																																																																																																							
IFM	Indoor Fan Motor																																																																																																																																							
IBB	Insulated Bus Bar																																																																																																																																							
MIS	Main Isolator Switch																																																																																																																																							
OFCB	Outdoor Fan Circuit Breaker																																																																																																																																							
OFM	Outdoor Fan Motor																																																																																																																																							
PCLP	P Clip																																																																																																																																							
RV	Reversing Valve																																																																																																																																							
SCB	Socket Circuit Breaker																																																																																																																																							
SPS	Single Phase Socket																																																																																																																																							
TB	Terminal Block																																																																																																																																							
TR	Transformer																																																																																																																																							
UC8	Unit Controller 8																																																																																																																																							
VSD	Variable Speed Drive																																																																																																																																							
VSDCB	Variable Speed Drive Circuit Breaker																																																																																																																																							
W	Cable Marker																																																																																																																																							
DL	Name	Type	Colour																																																																																																																																					
SL	Discharge Temp	S	GREY																																																																																																																																					
AMB	Suction Temp	S	WHITE																																																																																																																																					
DEI	Ambient Temp	S	YELLOW																																																																																																																																					
IC	De-ice Temp	S	BLUE																																																																																																																																					
LPT	De-ice Temp	S	BLUE																																																																																																																																					
HPT	Suction Pressure	T																																																																																																																																						
	High Pressure	T																																																																																																																																						
UC8 terminals	SAT-3	TZT100 Terminals																																																																																																																																						
12	12V	24																																																																																																																																						
B2	B	B																																																																																																																																						
A2	A	A																																																																																																																																						
0V	GND	24C																																																																																																																																						
Shield to 0V																																																																																																																																								
DIP switch	↑ On/Off ↓																																																																																																																																							
1,2,4,6,7,10,14	On																																																																																																																																							
All Others Off	Off																																																																																																																																							
DIP switch	↑ On/Off ↓																																																																																																																																							
1, 4	On																																																																																																																																							
2, 3	Off																																																																																																																																							
B																																																																																																																																								
C																																																																																																																																								
D																																																																																																																																								
E																																																																																																																																								
F																																																																																																																																								
G																																																																																																																																								
			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>EON</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Initial Release</td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>Economiser wiring modified for OPA003.</td> <td>5033</td> <td>22-07-22</td> <td>A.W.G</td> </tr> <tr> <td>C</td> <td>Different IFM options shown</td> <td>5047</td> <td>16-09-22</td> <td>R.K.</td> </tr> </tbody> </table>		REV	DESCRIPTION	EON	DATE	APPROVED	A	Initial Release				B	Economiser wiring modified for OPA003.	5033	22-07-22	A.W.G	C	Different IFM options shown	5047	16-09-22	R.K.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Drawn: A.W.G</td> <td style="width: 50%;">Date: 13-05-20</td> </tr> <tr> <td>Appvd: <i>BK</i></td> <td style="text-align: center;"><i>PUL</i></td> </tr> </table>		Drawn: A.W.G	Date: 13-05-20	Appvd: <i>BK</i>	<i>PUL</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> Title: OPA 250/350/450/560 RLTFPQ(-Z) UC8 Wiring Schematic </td> <td style="width: 50%; text-align: center;"> Drawing No: 291-003-263 SHEET 2 OF 2 </td> </tr> </table>		Title: OPA 250/350/450/560 RLTFPQ(-Z) UC8 Wiring Schematic	Drawing No: 291-003-263 SHEET 2 OF 2																																																																																																						
REV	DESCRIPTION	EON	DATE	APPROVED																																																																																																																																				
A	Initial Release																																																																																																																																							
B	Economiser wiring modified for OPA003.	5033	22-07-22	A.W.G																																																																																																																																				
C	Different IFM options shown	5047	16-09-22	R.K.																																																																																																																																				
Drawn: A.W.G	Date: 13-05-20																																																																																																																																							
Appvd: <i>BK</i>	<i>PUL</i>																																																																																																																																							
Title: OPA 250/350/450/560 RLTFPQ(-Z) UC8 Wiring Schematic	Drawing No: 291-003-263 SHEET 2 OF 2																																																																																																																																							
			Client Wiring -----																																																																																																																																					
			©temperzone Ltd 2020 																																																																																																																																					