

Model	OPA 350RLTFPQ-S3
Configuration	Horizontal Supply Air
Item No. (Standard / Opposite Hand)	876-035-701 / 876-035-710
Unit c/w Fresh Air (OPA 350RLTFPQ-C)	878-035-701 / 878-035-710
Configuration	Downward Supply Air
Item No. (Standard / Opposite Hand)	876-035-723 / 876-035-732
Unit c/w Fresh Air (OPA 350RLTFPQ-C)	878-035-723 / 878-035-732
Cooling capacity (net) ¹	34.8 kW
Cooling capacity range (gross)	18.0 ~ 45.4 kW
Heating capacity ¹	37.0 kW
Heating capacity range	13.9 ~ 47.0 kW
Electrical input - cooling	11.1 kW
Electrical input - heating	11.5 kW
EER / AEER (cooling) ¹	3.15 / 3.14
COP / ACOP (heating) ¹	3.21 / 3.19
Unit Controller	UC8
Refrigerant	R32
Refrigerant Charge	10.5 kg
Minimum floor area (@2.4m below ceiling diffuser)	58.6 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	14 A/ph
Compressor + VSD circuit breaker	40 A
Indoor fan motor size	EC plug 500 dia. 3.58kW
Nominal air flow at rating conditions	1800 l/s
Indoor fan motor (3ph.) - full load	5.5 A/ph.
Outdoor fan motor (3ph.) - full load	4.6 A/ph.
Outdoor fan type	EC axial
Outdoor fan max. static pressure @ 3800 l/s	125 Pa
Control circuit breaker (internal)	2 A
Auxiliary power outlet (1ph.) overload setting	10 A
Running amps (total system) ¹	17.5 / 15.5 / 19.5 A
Max. running amps (total system)	35 A/ph.
RCD type recommended	type B, 30mA, 3 pole
Net weight	596 kg
Shipping weight	652 kg
Net Weight c/w Fresh Air Cowl option	604 kg

Accessories:

Filters - rated EU4/G4 disposable	019-400-001 600x300x50 (x1) ³ 019-400-005 600x500x50 (x2)
Filters - rated EU4/G4 washable	019-000-037 600x300x50 (x1) ³ 019-000-034 600x500x50 (x2)
Drain tundish (set of 2)	060-000-653

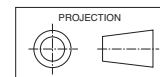
Optional Controls:

TZT-100 Room temperature controller	201-000-350
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Refer to temperzone for other options.

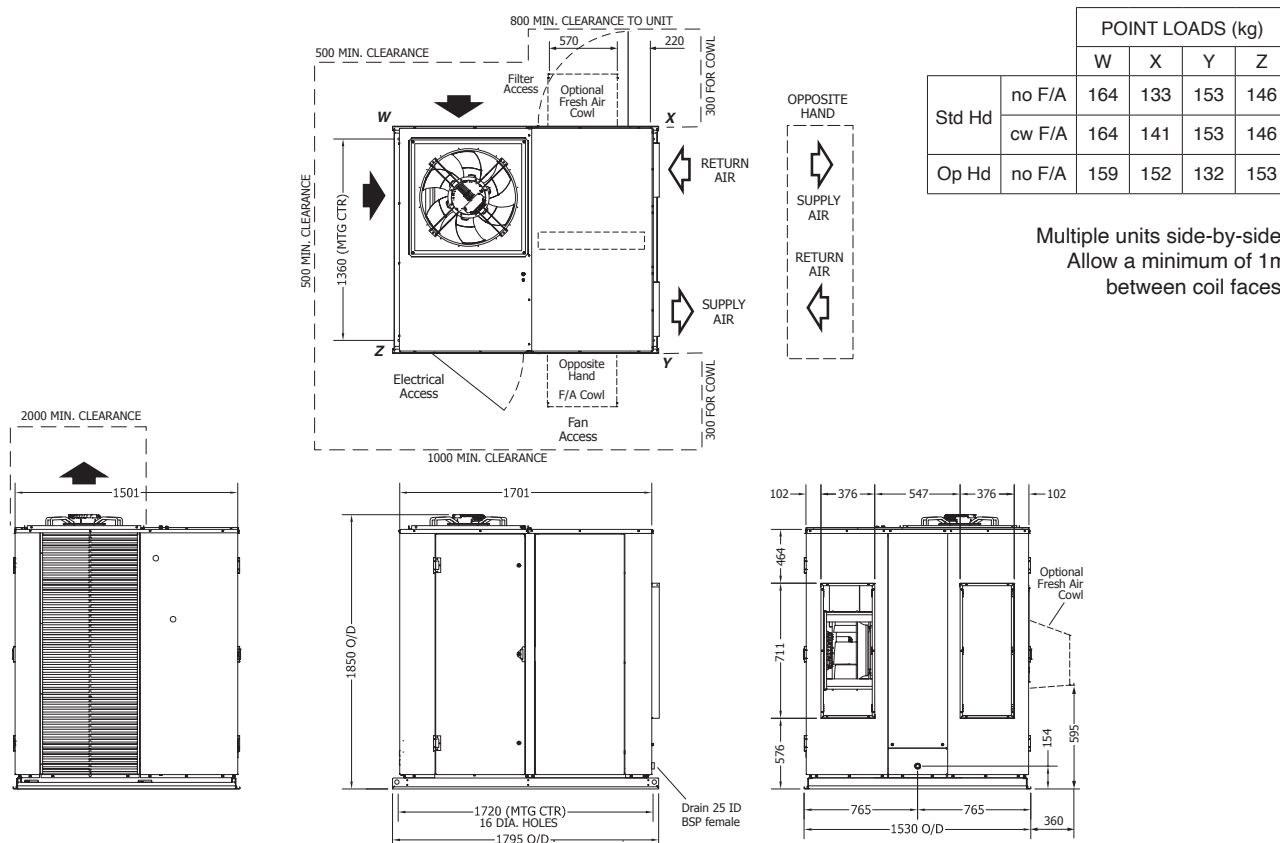
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¹ Tested in accordance with AS/NZS 3823² Voltage range: 376–440V³ Filter sizes are nominal; refer to Temperzone for actual measurements.

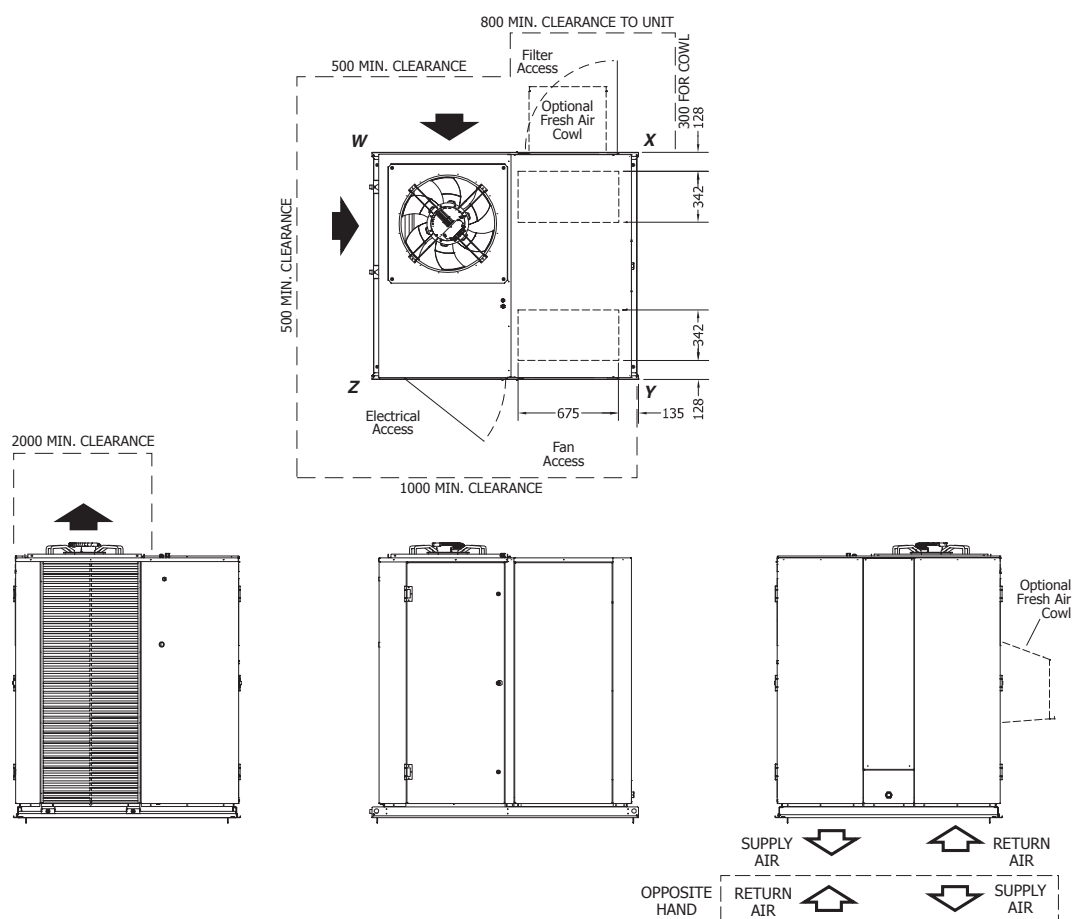


Not to Scale

OPA 350RLTFP01(-C)-S3 Standard Hand, Horizontal Supply



OPA 350RLTFP23(-C)-S3 Standard Hand, Downward Supply



NOTE

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



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	0	1	2	3	4	5	6	7	8	9										
A	<div>Client Wiring</div> <div><div><div><div><div></div><div>TB1</div></div><div><div>TB2</div><div>N</div></div></div><div><div><div>L1</div><div>L2</div><div>L3</div></div><div>MIS</div></div></div><div><div><div><div></div><div>x</div></div><div><div>x</div><div>x</div></div></div><div>Client External Protection and Isolator Switch</div></div></div>			<div>Customer BMS Input</div> <div><div><div><div></div><div>TB4</div></div><div><div>TB5</div><div>TB6</div><div>TB7</div><div>TB8</div></div></div><div><div><div>B1</div><div>A1</div><div>0V</div><div>12V</div></div><div><div><div></div><div></div><div></div></div></div></div><div>Connect cable screen to 'EARTH' terminal</div></div>			<div>Ferrites</div> <table><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> <div>Important Note! Ferrite 'A' on OD Fan circuit breaker for OPA 450 and 560 only.</div>		Part Number	Frequency Type	Number of Turns	A 012-001-074	High	1	B 012-001-094	Low	1	<div>24VCB</div> <div>24 Volt Circuit Breaker</div> <div>CCB</div> <div>Control Circuit Breaker</div> <div>CCH</div> <div>Crankcase Heater</div> <div>CM</div> <div>Compressor Motor</div> <div>DMF</div> <div>Damper Motor Fresh Air</div> <div>DMR</div> <div>Damper Motor Return Air</div> <div>EEV</div> <div>Electronic Expansion Valve</div> <div>EMIFB</div> <div>EMI Filter Board</div> <div>ETH</div> <div>Earth</div> <div>FRB</div> <div>Fault Relay Board</div> <div>IFCB</div> <div>Indoor Fan Circuit Breaker</div> <div>IFM</div> <div>Indoor Fan Motor</div> <div>IBB</div> <div>Insulated Bus Bar</div> <div>MIS</div> <div>Main Isolator Switch</div> <div>OFCB</div> <div>Outdoor Fan Circuit Breaker</div> <div>OFM</div> <div>Outdoor Fan Motor</div> <div>PCLP</div> <div>P Clip</div> <div>RV</div> <div>Reversing Valve</div> <div>SCB</div> <div>Socket Circuit Breaker</div> <div>SPS</div> <div>Single Phase Socket</div> <div>TB</div> <div>Terminal Block</div> <div>TR</div> <div>Transformer</div> <div>UC8</div> <div>Unit Controller 8</div> <div>VSD</div> <div>Variable Speed Drive</div> <div>VSDCB</div> <div>Variable Speed Drive Circuit Breaker</div> <div>W</div> <div>Cable Marker</div>		
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Important Note!

Unit requires 24 hour power supply for control circuit and crankcase heaters

Sensors (S) / Transducers (T)

	Name	Type	Colour
DL	Discharge Temp	S	GREY
SL	Suction Temp	S	WHITE
AMB	Ambient Temp	S	YELLOW
DEI	De-ice Temp	S	BLUE
IC	De-ice Temp	S	BLUE
LPT	Suction Pressure	T	
HPT	High Pressure	T	

SAT-3 & TZT100 connection to UC8 terminals

UC8 terminals	SAT-3	TZT100 Terminals
12	12V	24
B2	B	B
A2	A	A
0V	GND	24C
Shield to 0V		

UC8 DIP switch settings

DIP switch	↑ On/Off ↓
1,2,4,6,7,10,14	On
All Others Off	Off

PSD DIP switch settings

DIP switch	↑ On/Off ↓
1, 4	On
2, 3	Off

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Client Wiring

Title:

OPA 250/350/450/560 RLTFPQ(-Z) UC8
Wiring Schematic

Date: 13-05-20

Drawn: A.W.G.
Appvd: BK

Drawing No:
291-003-263
SHEET 2 OF 2

Rev: C