

# ACL52RCRTP

### **Technical Data**



### Airflow

	Supply Air	2300l/s (nominal)
	Return Air	2300l/s (nominal)
	Outside Air	100%
	Condenser Make-up Air	1500l/s
	Exhaust Air (RA + CMA)	3800l/s (nominal)
鱳	Refrigeration	
*	Reverse Cycle	Yes
	Cooling Capacity	52kWr (nominal)
	Heating Capacity	68kWr (nominal)
	Compressor Type	Dual Stage DOL (standard)
		BLDC Inverter (optional)
	Refrigerant	R-407C (Single Stage DOL)
		R-410A (BLDC Inverter option)

**Air-to-Air Heat Exchanger\*** 

HEX Type

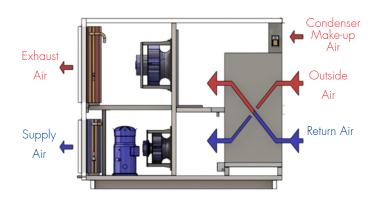
HEX Media

		Limitalp) of containing only
<b>"</b>	Fans (Nominal Sel	ection)
	Туре	EC Plug
	Total Fans	×2
	Nominal Power	2.5kW (each)
	Fan Diameter	350mm
	Fan Speed (max.)	2970RPM
Supply	Motor Efficiency Class	IE4
Su	Ingress Protection Class	IP54
	Impeller Construction	Non-metallic Composite
	Speed Control	Integrated Constant Volume Control
		or via External Speed Signal

Air-to-Air Counterflow Plate

Enthalpy or Sensible-Only

\* The plate heat exchangers are designed to operate to a maximum 300Pa pressure differential (inlet condition) between primary and secondary air streams.



Contact your Air Change representative for a psychrometric unit selection

6		Fans (Nominal S	election)
		Туре	EC Plug
		Total Fans	×2
		Nominal Power	3.6kW (each)
		Fan Diameter	450mm
	Air	Fan Speed (max.)	2260RPM
	Exhaust Air	Motor Efficiency Class	IE4
	Exhe	Ingress Protection Clas	s IP54
		Impeller Construction	Non-metallic Composite
		Speed Control	Integrated Constant Volume Control
			or via External Speed Signal
	7	Electrical & Cont	rols
	_	Electrical Input	415V / 3ph / 50Hz
		Full Load Amps	Refer to electrical page
		Controls	Low Level Interface (standard)
			ClimaSync Control System (optional)
	J.	Cabinet	
		Weatherproof	Yes
		Panel Construction	50 mm PIR Sandwich Panel
			(FM Approved 4880/4881 - Class 1)
		Panel Finish	Colorbond "Surfmist"
		Panel R-Value	2.63 K.m <sup>2</sup> /W
		Panel Joiner Material	UV Resistant Polymer
		Base Frame	Galvanised Steel with Lifting Lugs
		Filter Section	Not included
		(filte	rs to be mounted in RA & OA ductwork)
ľ		<b>Operating Mode</b>	
	_	Energy Recovery	Default
		Economy Cycle	HEX Bypass for Free Cooling (optional)
		Return Air Bypass	HEX Bypass for Recirculation (optional)

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270

RA Spigot

2600

**BACK VIEW** 

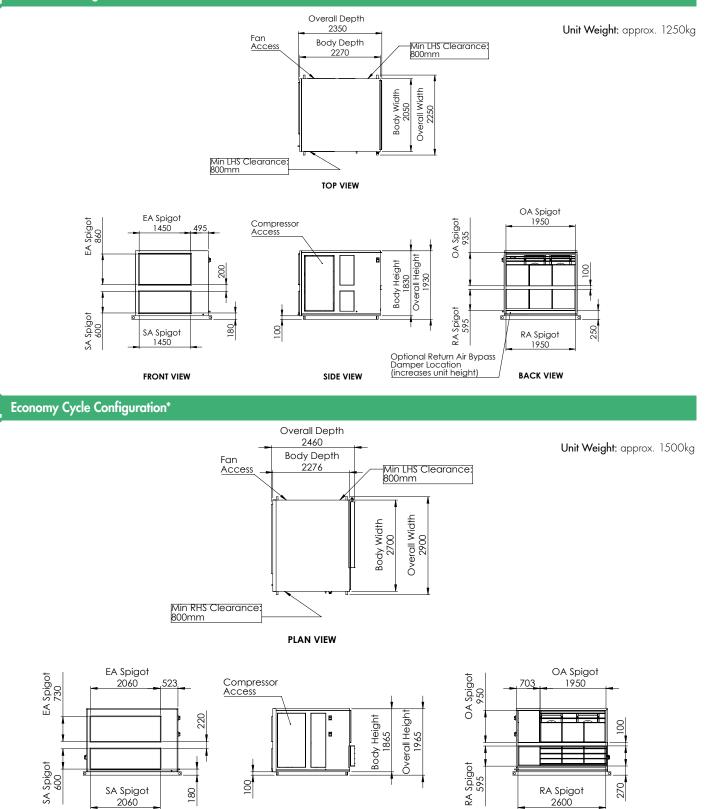
# CL52RCRTP

### **Dimensions**



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Standard Configuration\*



\* Dimensions and weight are subject to change, depending on project requirements (incl. compressor option). Refer to project certified drawings for finalised details.

SIDE VIEW

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SA Spigot

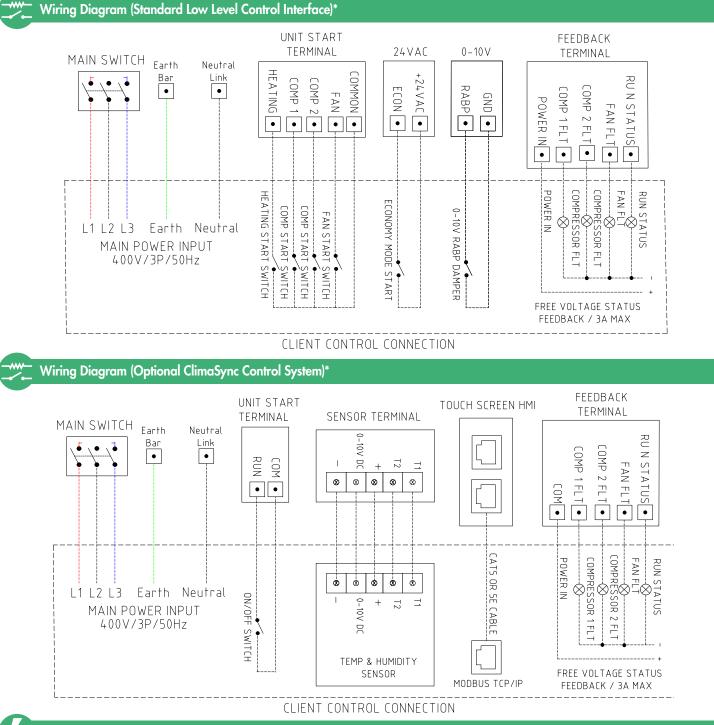
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FRONT VIEW



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### **Electrical**



### **Electrical Input**

### Indicative Electrical Input details<sup>†</sup>

	DOL Compressor (standard)	BLDC Inverter Compressor (optional)			
Voltage / Phases / Frequency	415V / 3ph / 50Hz	415V / 3ph / 50Hz			
Full Load Amps	51A	73A			

\* Connection details are subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

<sup>+</sup> Unit FLA is subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

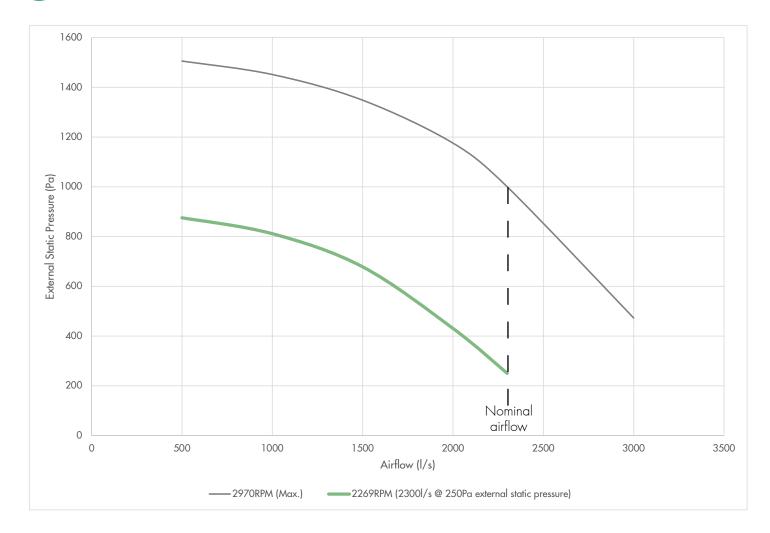
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**Airflow & Noise** 

### 🔊 Supply Air Fan Curve\*



\* Fan curve makes allowance for internal pressure drop of unit. This pressure drop is subject to change, depending on project requirements. Supply air fan selection options are available.

### Supply Air Fan Acoustics (Sound Power)<sup>†</sup>

2300l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	78	44	52	72	73	70	71	68	67
Non A-weighted (dB)	83	70	67	81	76	70	70	67	69
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	84	45	55	72	74	80	78	74	71
Non A-weighted (dB)	86	70	70	81	77	80	77	73	72

\* Noise data considers supply air fans only, without attenuation by the cabinet. Filter drop to be factored into the 250Pa external static pressure allowance.

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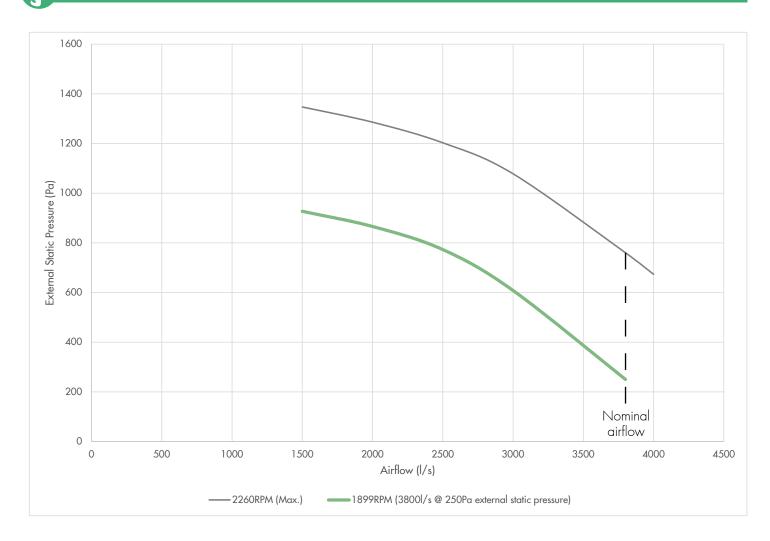
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**Airflow & Noise** 

郊 Exhaust Air Fan Curve (incl. Condenser Make-up Air)\*



\* Fan curve makes allowance for internal pressure drop of unit. This pressure drop is subject to change, depending on project requirements. Exhaust air fan selection options are available.

### Exhaust Air Fan Acoustics (Sound Power)<sup>†</sup>

3800l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	83	53	63	75	78	76	74	69	69
Non A-weighted (dB)	88	79	78	84	82	76	73	68	70
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	90	53	66	78	82	86	84	80	75
Non A-weighted (dB)	93	79	81	87	86	86	83	79	76

\* Noise data considers exhaust air fans only, without attenuation by the cabinet. Filter drop to be factored into the 250Pa external static pressure allowance.

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