

ACL82RCRTP

Technical Data



	Airflow	
	Supply Air	3700l/s (nominal)
	Return Air	3700l/s (nominal)
	Outside Air	100%
	Condenser Make-up Air	3000/s
	Exhaust Air (RA + CMA)	6700l/s (nominal)
*	Refrigeration	
	Reverse Cycle	Yes
	Cooling Capacity	82kWr (nominal)
	Heating Capacity	107kWr (nominal)
	Compressor Type	Dual Stage DOL (standard)
		BLDC Inverter (optional)
	- (.	
	Refrigerant	R-407C (Single Stage DOL)

Air-to-Air Heat Exchanger*

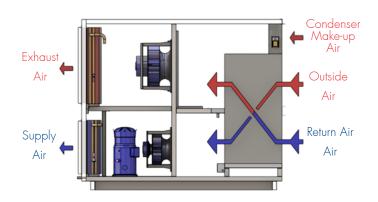
HEX Media

HEX Type Air-to-Air Counterflow Plate Enthalpy or Sensible-Only

Fans (Nominal Selection)

		· · · · · · · · · · · · · · · · · · ·
	Туре	EC Plug
	Total Fans	Зх
	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

* 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

0	Ĩ.,,	Fans (Nominal Se	election)
		Туре	EC Plug
		Total Fans	2x
		Nominal Power	5.0kW (each)
		Fan Diameter	560mm
	Air	Fan Speed (max.)	1750RPM
	Exhaust Air	Motor Efficiency Class	IE4
	Exh	Ingress Protection Class	IP54
		Impeller Construction	Non-metallic Composite
		Speed Control	Integrated Constant Volume Control
			or via External Speed Signal
	7	Electrical & Contr	ols
		Electrical Input	415V / 3ph / 50Hz
		Full Load Amps	Refer to electrical page
		Controls	Low Level Interface (standard)
			ClimaSync TM Control System (optional)
ſ	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 ² /W
		Panel Joiner Material	UV Resistant Polymer
		Base Frame	Galvanised Steel with Lifting Lugs
		Filter Section	Not included
			s to be mounted in RA & OA ductwork)
ľ	5	Operating Modes	
	_	Energy Recovery	Default
			HEX Bypass for Free Cooling (optional)
		Return Air Bypass	HEX Bypass for Recirculation (optional)

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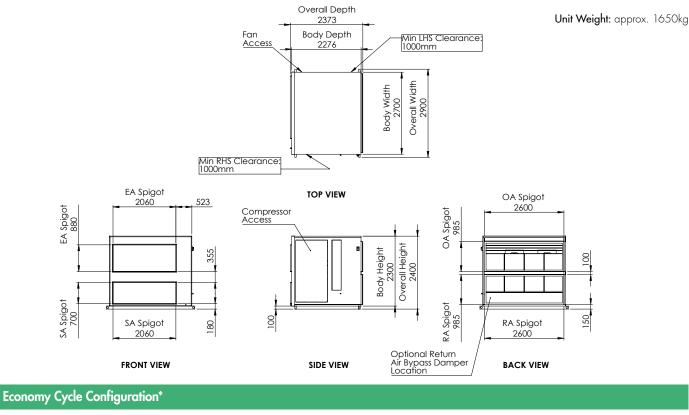
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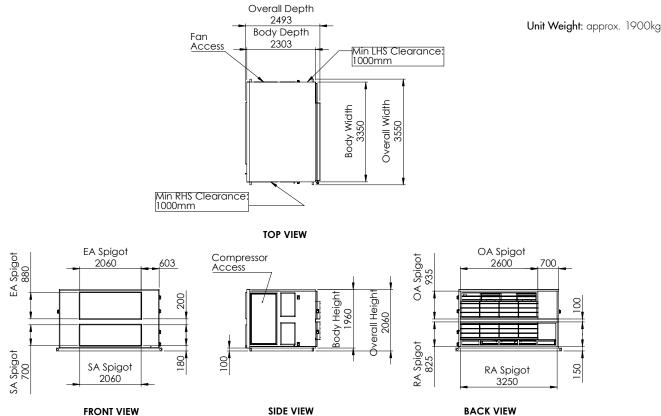
Dimensions



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Standard Configuration*





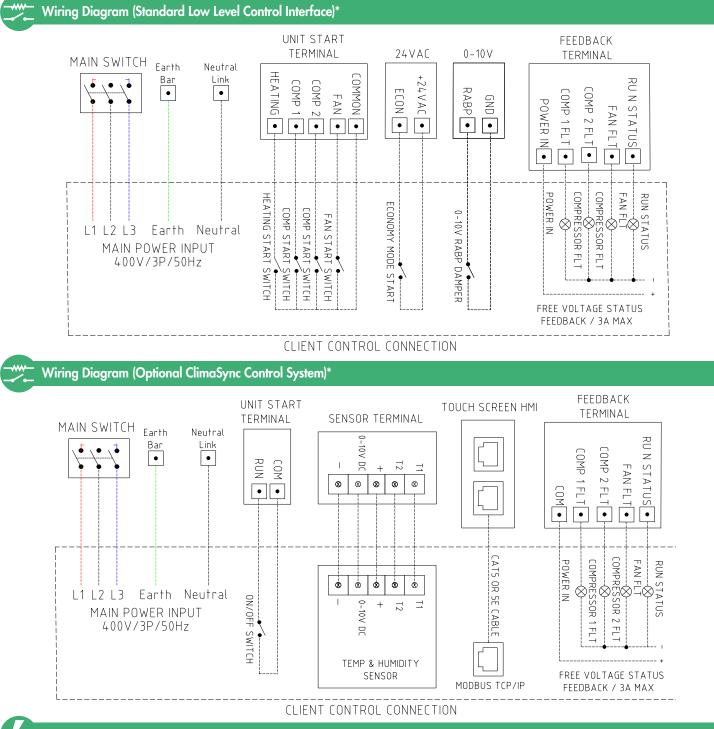
* Dimensions and weight are subject to change, depending on project requirements (incl. compressor option). Refer to project certified drawings for finalised details.

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Electrical



Electrical Input

Indicative Electrical Input details[†]

	DOL Compressor (standard)	BLDC Inverter Compressor (optional)			
Voltage / Phases / Frequency	415V / 3ph / 50Hz	415V / 3ph / 50Hz			
Full Load Amps	74A	89A			

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

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

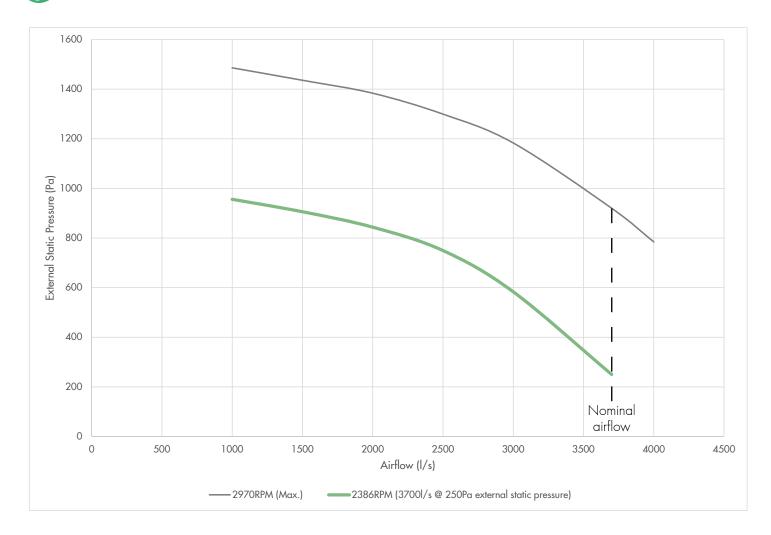
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Airflow & Noise

💀 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)[†]

3700l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	82	48	56	76	77	74	75	72	72
Non A-weighted (dB)	87	74	72	84	80	74	74	71	74
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	88	49	58	76	78	84	82	78	75
Non A-weighted (dB)	90	74	74	84	81	84	81	77	76

* 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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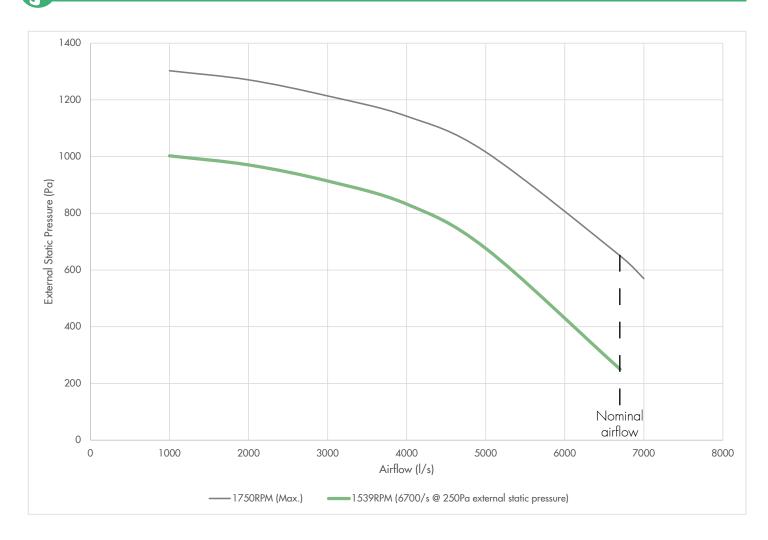
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Airflow & Noise

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)[†]

6700l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	85	51	70	77	79	77	76	76	73
Non A-weighted (dB)	90	76	84	86	83	77	74	75	74
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	90	53	73	81	85	85	80	79	76
Non A-weighted (dB)	95	79	87	91	88	85	79	79	77

* 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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