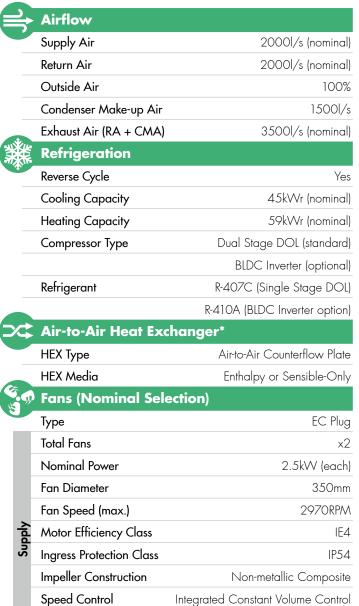


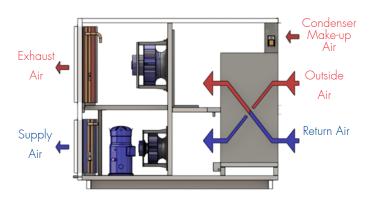
ROOFTOP PACKAGED UNITS

ACI45RCRTP

Technical Data







Contact your Air Change representative for a psychrometric unit selection

		,	,
(S)	g,	Fans (Nominal Sel	ection)
C		Туре	EC Plug
	Exhaust Air	Total Fans	×2
		Nominal Power	3.6kW (each)
		Fan Diameter	450 mm
		Fan Speed (max.)	2260RPM
		Motor Efficiency Class	IE4
		Ingress Protection Class	IP54
		Impeller Construction	Non-metallic Composite
		Speed Control	Integrated Constant Volume Control
			or via External Speed Signal
	7	Electrical & Contro	ls .
		Electrical Input	415 V / 3 ph / 50 Hz

Electrical & Control	ols
Electrical Input	415V / 3ph / 50Hz
Full Load Amps	Refer to electrical page
Controls	Low Level Interface (standard)
	ClimaSync Control System (optional)

	Cililiady lie Collifor dysicili (opiioliai)
Cabinet	
Weatherproof	Yes
Panel Construction	50 mm PIR Sandwich Panel
	(FM Approved 4880/4881 - Class 1)
Panel Finish	Colorbond "Surfmist"
Panel R-Value	$2.63\mathrm{K.m^2/W}$
Panel Joiner Materi	al UV Resistant Polymer
Base Frame	Galvanised Steel with Lifting Lugs
Filter Section	Not included
	ilters to be mounted in RA & OA ductwork!

	(fi	Iters to be mounted in RA & OA ductwork)
U.	Operating Mod	des
	Energy Recovery	Default
	Economy Cycle	HEX Bypass for Free Cooling (optional)
	Return Air Bypass	HEX Bypass for Recirculation (optional)

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.

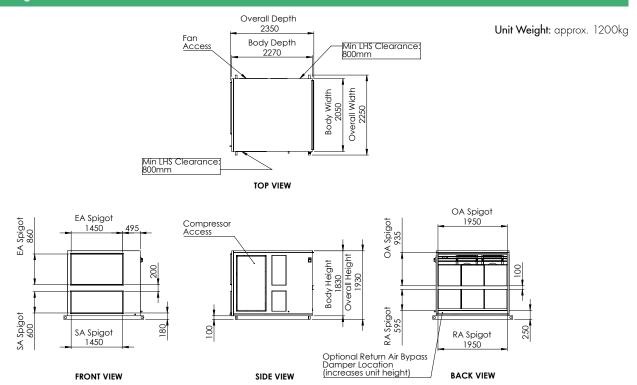


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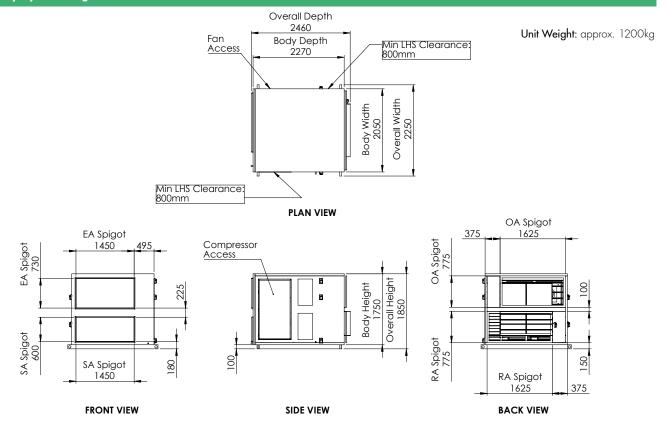
Dimensions

0

Standard Configuration*



Economy Cycle Configuration*



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

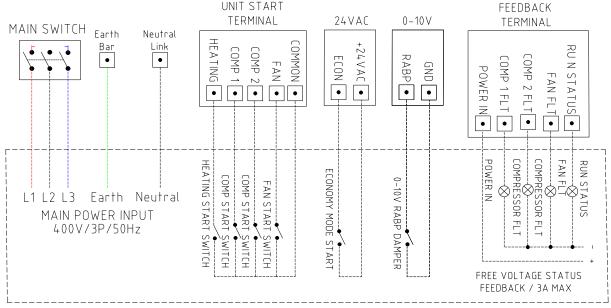


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Electrical



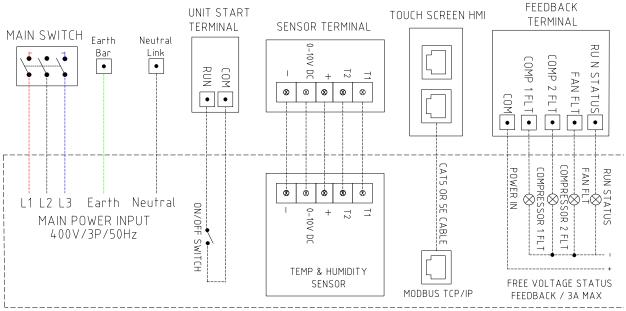
Wiring Diagram (Standard Low Level Control Interface)*



CLIENT CONTROL CONNECTION



Wiring Diagram (Optional ClimaSync Control System)*



CLIENT CONTROL CONNECTION



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	46A	53A			

^{*} 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.

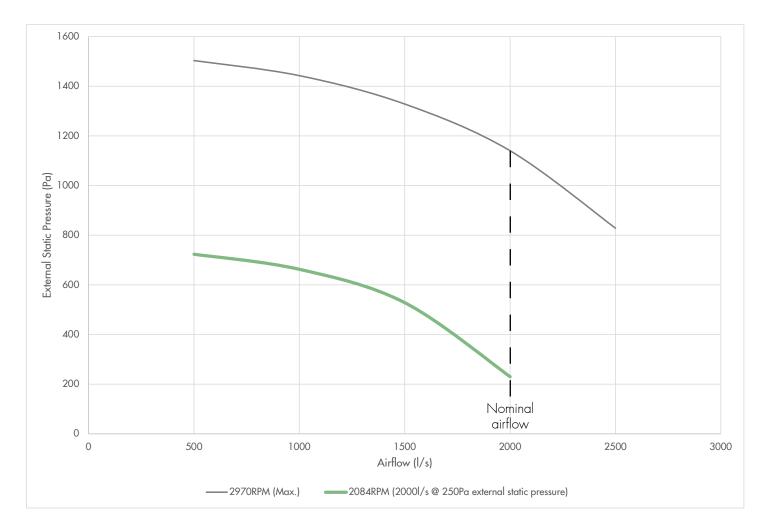


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Airflow & Noise



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.

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Supply Air Fan Acoustics (Sound Power)†

2000l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	<i>7</i> 5	41	52	66	70	67	69	66	63
Non A-weighted (dB)	79	67	66	75	73	68	68	65	65
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	81	43	54	69	73	<i>7</i> 8	76	72	67
Non A-weighted (dB)	83	68	69	78	76	<i>7</i> 8	75	<i>7</i> 1	68

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

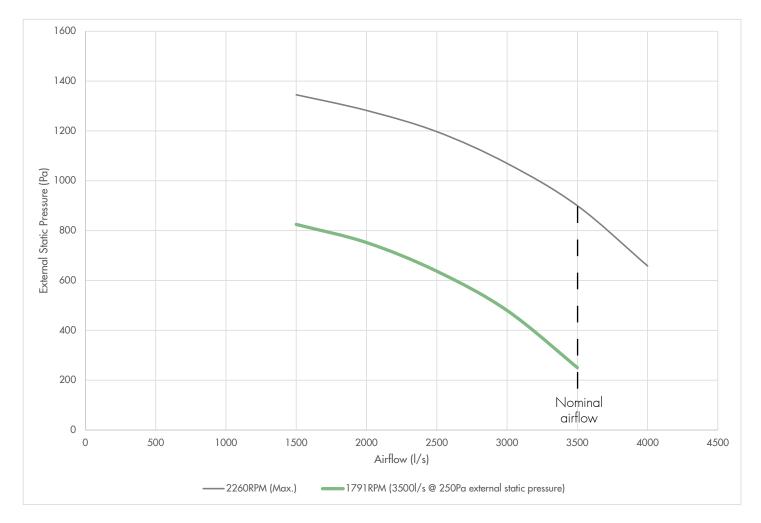


ACL45RCRTP

Airflow & Noise



🕠 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)†

3500l/s @ 250Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	81	51	62	73	77	74	72	68	66
Non A-weighted (dB)	87	77	77	82	81	74	71	67	67
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	88	51	65	77	81	84	83	<i>7</i> 8	72
Non A-weighted (dB)	91	77	80	86	84	84	81	77	73

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