Air is precisely

reheated to the

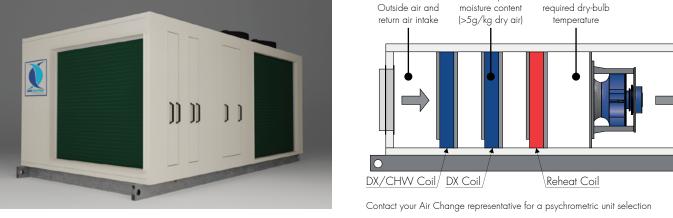
Air is precisely cooled

to the required

PCU-N-LD 40

Technical Data





\Rightarrow	Airflow		
	Supply Air		40001/s (nominal)
	Outside Air	0 - 10	00% as per project requirements
糕	Refrigeration		
	Cooling Capacity		Sized to project requirements
	Supply Air Moisture Co	ntent	>5 g/kg dry air
	Cooling Stage 1		DX or CHW Coil (modulating)
	Cooling Stage 2		DX Coil (modulating)
	Reheat Stage	Н	ot Gas Reheat Coil (modulating)
	Compressor Type		Variable Speed Scroll
			(BLDC or PMSM Inverter)
	Refrigerant		R-410A
	Reverse Cycle		Available upon request
ŋ,	Fans		
	Туре		EC Plug

9	Fans	
	Туре	EC Plug
	Total Fans	x4 (nominal selection*)
	Nominal Power	2.5 kW ea. (nominal selection*)
	Fan Diameter	350 mm (nominal selection*)
	Fan Speed (max.)	2970 RPM (nominal selection*)
Supply All	Motor Efficiency Class	IE4
ddo	Ingress Protection Class	IP54
מ	Impeller Construction	Non-metallic Composite
	Max. External Static Press	. Approx. 1000 Pa @ 4000 l/s
	Speed Control	Integrated Constant Volume Control
		or via External Speed Signal

* Supply air fan selection options are avo	ailable.
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[†] Condenser fan selection is dependent on the required DX cooling capacity.

	Fans					
	Туре	EC Axial				
	Total Fans	x4 (nominal selection [†])				
	Nominal Power	3.1 kW ea. (nominal selection [†])				
Α̈́	Fan Diameter	800 mm (nominal selection [†])				
Condenser Air	Fan Speed (max.)	1100 RPM (nominal selection [†])				
nde	Motor Efficiency Class	IE4				
3	Ingress Protection Class	IP54				
	Speed Control	Integrated Head Pressure Control				
4	Electrical & Contro	ols				
	Electrical Input	415V / 3 ph / 50Hz				
	Full Load Amps	Refer to PCU-N-LD 40 electrical page				
	Controls	ClimaSync Control System included				
		(refer to PCU ClimaSync page)				

	(leler to FCO Climasyric page)
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.m²/W
Panel Joiner Material	UV Resistant Polymer
Base Frame	Galvanised Steel RHS with Lifting Lugs
Condenser Configurati	ons Split or Packaged
Filter Section	Optional with Split Configuration
	Optional with Packaged Configuration
Filtration Grade	As per project requirements

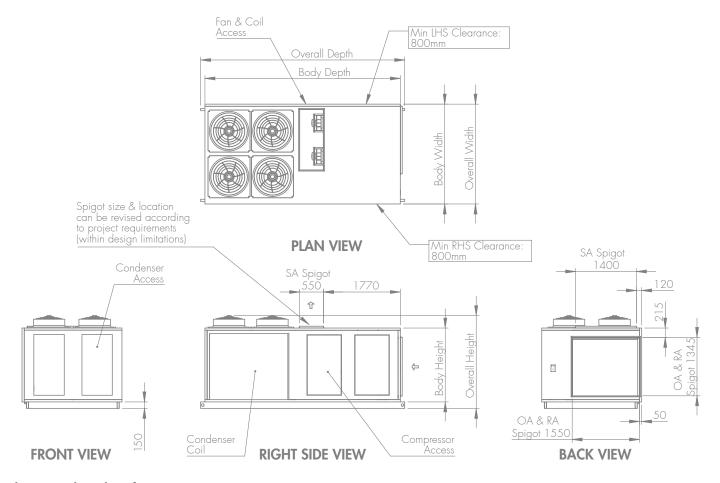




Dimensions



Packaged Configuration (Optional Filter Section Not Shown)*



Indicative Packaged Configuration Dimensions

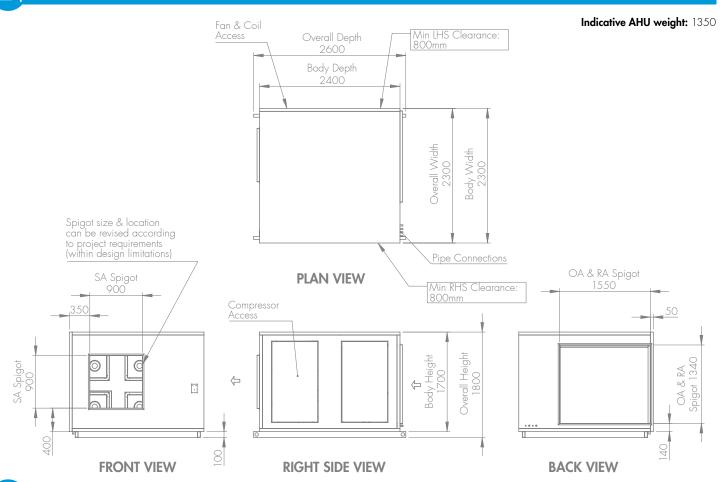
	Required DX Cooling Capacity						
	80 kWr (1 st stage CHW)	130 kWr (full DX system)	180 kWr (full DX system)				
Overall Depth (mm)	3750	4400	4700				
Body Depth (mm)	3550	4200	4500				
Overall Width (mm)	2300	2300	2300				
Body Width (mm)	2300	2300	2300				
Overall Height (mm)	2150	2250	2300				
Body Height (mm)	1700	1850	1850				
Weight (kg)		2250					

^{*} Dimensions and weight are subject to change, depending on the required DX cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.

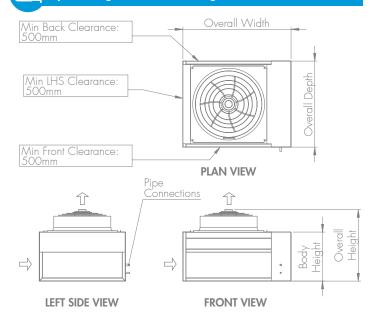


Dimensions

Split Configuration AHU (Optional Filter Section Not Shown)*



Split Configuration Condensing Unit*



Indicative Condensing Unit Dimensions

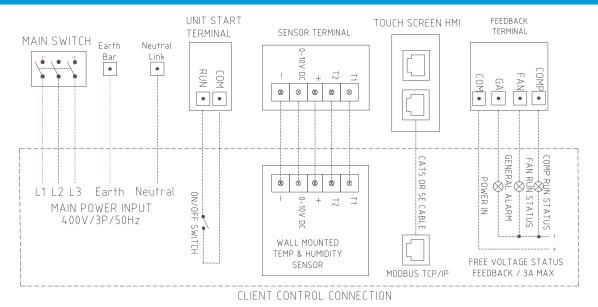
	Required DX Cooling Capacity						
	80 kWr (1 st stage CHW)	130 kWr (full DX system)	180 kWr (full DX system)				
Overall Depth (mm)	1500	1400	1550				
Overall Width (mm)	2300	3900	4600				
Overall Height (mm)	1400	1350	1400				
Body Height (mm)	1100	1100	1100				
Weight (kg)		900					

^{*} Dimensions and weight are subject to change, depending on the required DX cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.

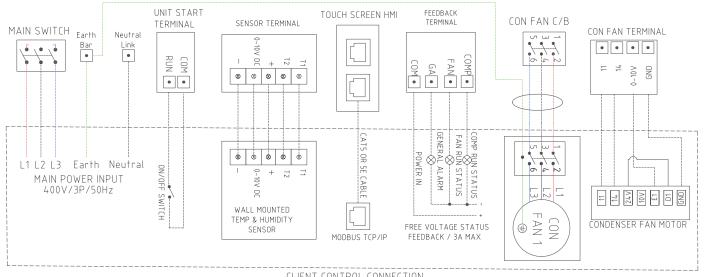
Electrical



Wiring Diagram — Packaged Configuration*



Wiring Diagram — Split Configuration*



CLIENT CONTROL CONNECTION



Electrical Input

Indicative Electrical Input details[†]

	Required DX Cooling Capacity					
	80 kWr (1st stage CHW)	130 kWr (full DX system)	180 kWr (full DX system)			
Voltage / Phases / Frequency	415V / 3ph / 50Hz	415 V / 3 ph / 50 Hz	415V / 3 ph / 50Hz			
Full Load Amps	86A	158 A	158 A			

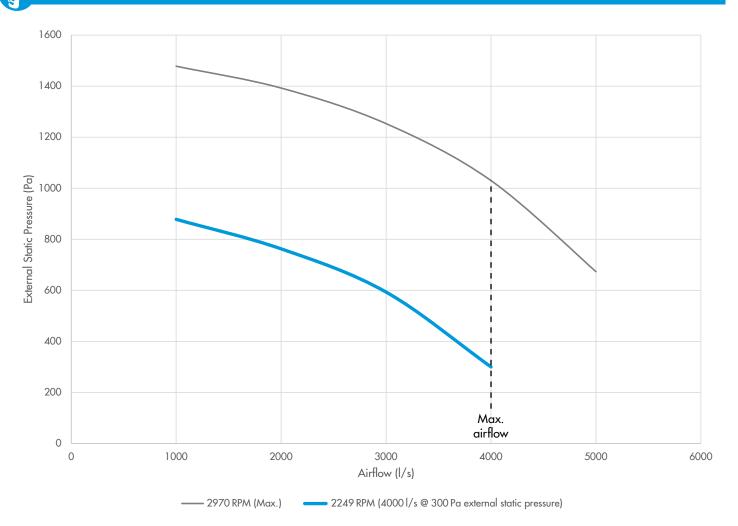
^{*}Connection details are subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

Power details are subject to change, depending on the required DX cooling capacity and other project requirements. Refer to project certified electrical diagrams for finalised details.



Airflow & Noise

Supply Air Fan Curve*



^{*} Fan curve makes allowance for internal pressure drop of unit (excluding filters). This pressure drop is subject to change, depending on project requirements. Supply air fan selection options are available.

Supply Air Fan Acoustics (Sound Power)†

4000l/s @ 300Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	82	45	55	76	<i>7</i> 6	<i>7</i> 3	75	<i>7</i> 1	68
Non A-weighted (dB)	86	71	70	84	79	<i>7</i> 3	74	<i>7</i> 0	69
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	87	47	58	77	77	83	81	77	72
Non A-weighted (dB)	89	73	73	85	80	83	80	<i>7</i> 6	73

[†] Noise data considers supply air fans only, excluding compressor noise and condenser fan noise. Noise attenuation by the cabinet is also not considered. Filter pressure drop to be factored into the 300Pa external static pressure.

