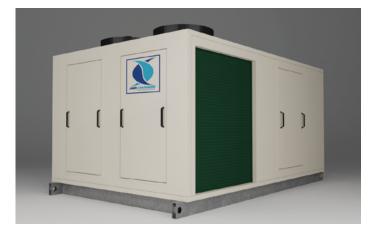
PCU-N-LD 30

Technical Data



	Airflow	
	Supply Air	30001/s (nominal)
	Outside Air	0 - 100% as per project requirements
	Refrigeration	
*	Cooling Capacity	Sized to project requirements
	Supply Air Moisture Cont	ent >5 g/kg dry air
	Cooling Stage 1	DX or CHW Coil (modulating)
	Cooling Stage 2	DX Coil (modulating)
	Reheat Stage	Hot Gas Reheat Coil (modulating)
	Compressor Type	Variable Speed Scroll
		(BLDC or PMSM Inverter)
	Refrigerant	R-410A
	Reverse Cycle	Available upon request
	🔊 Fans	
E	Туре	EC Plug
	Total Fans	x1 (nominal selection*)
	Nominal Power	5.0kW (nominal selection*)
	Fan Diameter	560 mm (nominal selection*)
	Fan Speed (max.)	1750 RPM (nominal selection*)
: Y : Y	Motor Efficiency Class	IE4
vin vlanič	Ingress Protection Class	IP54
0	Impeller Construction	Non-metallic Composite
	Max. External Static Press	s. Approx. 750Pa @ 30001/s
	Speed Control	Integrated Constant Volume Control
		or via External Speed Signal
		· •

Air is precisely cooled to the required moisture content (>5g/kg dry air) temperature temperature DX/CHW Coil/DX Coil/ Reheat Coil

Contact your Air Change representative for a psychrometric unit selection

	Fans					
	Туре	EC Axial				
	Total Fans	x4 (nominal selection [†])				
	Nominal Power	3.1 kW ea. (nominal selection [†])				
Air	Fan Diameter	800 mm (nominal selection [†])				
Condenser Air	Fan Speed (max.)	1100 RPM (nominal selection [†])				
nder	Motor Efficiency Class	IE4				
ပိ	Ingress Protection Class	IP54				
	Speed Control	Integrated Head Pressure Control				
4	Electrical & Contr	ols				
	Electrical Input	415V / 3ph / 50Hz				
	Full Load Amps	Refer to PCU-N-LD 30 electrical page				
	Controls	ClimaSync Control System included				
		(refer to PCU ClimaSync page)				
\mathbb{N}	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 RHS with Lifting Lugs				
	Condenser Configuration	ons Split or Packaged				
	Filter Section	Optional with Split Configuration				
		Optional with Packaged Configuration				
	Filtration Grade	As per project requirements				

* Supply air fan selection options are available.

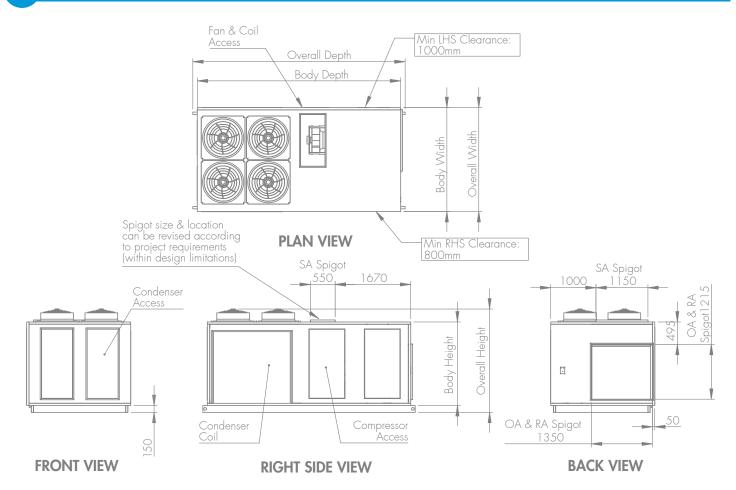
⁺ Condenser fan selection is dependent on the required DX cooling capacity.

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PCU-N-LD 30

Dimensions

Packaged Configuration (Optional Filter Section Not Shown)*



Indicative Packaged Configuration Dimensions

	Required DX Cooling Capacity					
	60 kWr (1 st stage CHW)	120 kWr (full DX system)	180 kWr (full DX system)			
Overall Depth (mm)	3600	4100	4700			
Body Depth (mm)	3400	3900	4500			
Overall Width (mm)	2100	2300	2300			
Body Width (mm)	2100	2300	2300			
Overall Height (mm)	2100	2250	2300			
Body Height (mm)	1700	1800	1850			
Weight (kg)		2250				

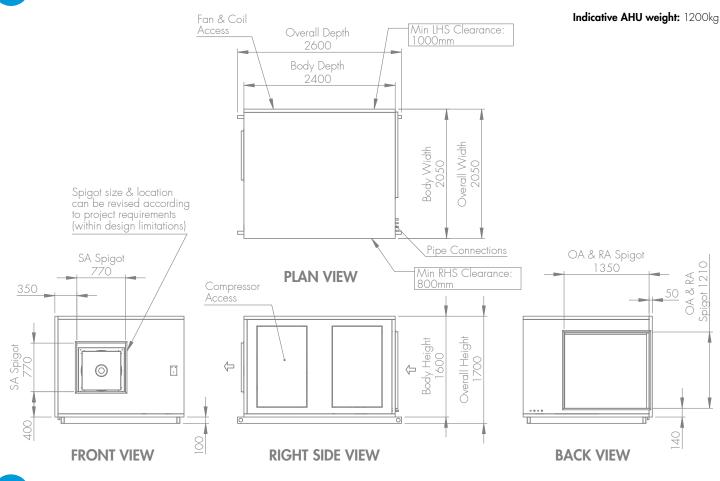
* Dimensions and weight are subject to change, depending on the required DX cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.

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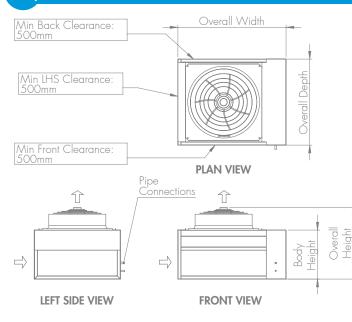
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Dimensions

Split Configuration AHU (Optional Filter Section Not Shown)*



Split Configuration Condensing Unit*



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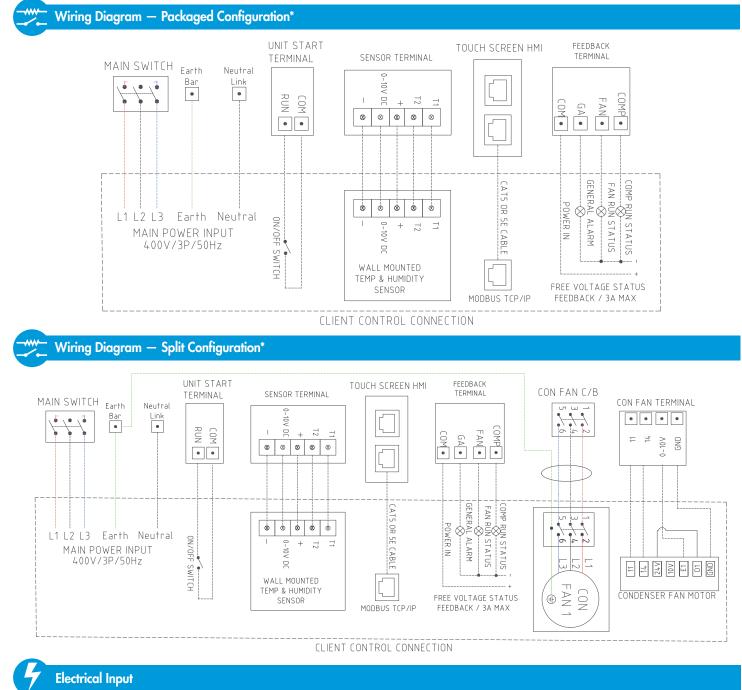
Indicative Condensing Unit Dimensions

	Required DX Cooling Capacity					
	60 kWr (1 st stage CHW)	120kWr (full DX system)	180 kWr (full DX system)			
Overall Depth (mm)	1400	1700	1550			
Overall Width (mm)	1900	3100	4600			
Overall Height (mm)	1400	1400	1400			
Body Height (mm)	1100	1100	1100			
Weight (kg)		850				

* 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.

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Electrical



Indicative Electrical Input details[†]

	Required DX Cooling Capacity				
	60kWr (1 st stage CHW)	120 kWr (full DX system)	180 kWr (full DX system)		
Voltage / Phases / Frequency	415V / 3ph / 50Hz	415V / 3ph / 50Hz	415V / 3ph / 50Hz		
Full Load Amps	80A	106 A	149 A		

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

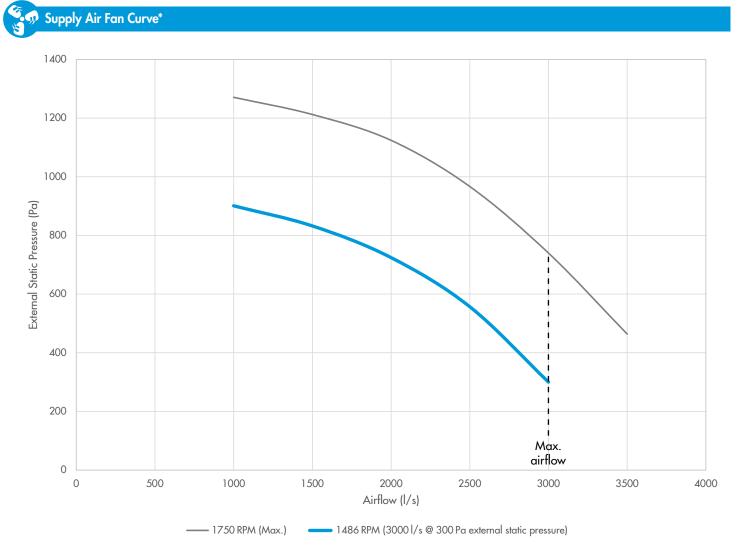
[†] Power details are subject to change, depending on the required DX cooling capacity and other project requirements. Refer to project certified electrical diagrams for finalised details.

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PCU-N-LD 30

Airflow & Noise



* 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)†

30001/s @ 300Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	78	43	66	71	72	71	70	69	64
Non A-weighted (dB)	84	68	80	79	76	71	69	68	65
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	85	47	71	75	80	79	76	74	69
Non A-weighted (dB)	89	73	85	83	82	80	74	73	69
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[†] 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.

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