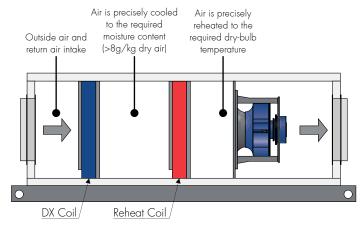
# **Technical Data**





Contact your Air Change representative for a psychrometric unit selection

Airflow		
Supply Air		4000 l/s (nominal)
Outside Air	0 - 10	00% as per project requirements
Refrigeration		
Cooling Capacity		Sized to project requirements
Supply Air Moistur	e Content	>8 g/kg dry air
Cooling Stage		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
Fans		
Туре		EC Plug
Total Fans		x4 (nominal selection*)
Nominal Power		2.5 kW ea. (nominal selection*)

<b>M</b>	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 Air	Motor Efficiency Class	IE4
ddn	Ingress Protection Class	IP54
מ	Impeller Construction	Non-metallic Composite
	Max. External Static Press	. Approx. 1150 Pa @ 4000 l/s
	Speed Control	Integrated Constant Volume Control
		or via External Speed Signal

 $<sup>^{\</sup>star}$  Supply air fan selection options are available.

Co.		
IS	🕠 Fans	
	Туре	EC Axial
	Total Fans	x4 (nominal selection <sup>†</sup> )
	Nominal Power	3.1 kW ea. (nominal selection <sup>†</sup> )
	Fan Diameter	800 mm (nominal selection <sup>†</sup> )
Ondones Air	Fan Speed (max.)	1100 RPM (nominal selection <sup>†</sup> )
-0	Motor Efficiency Class	IE4
3	Ingress Protection Class	IP54
	Speed Control	Integrated Head Pressure Control
4	Electrical & Contro	ols
	Electrical Input	415V / 3 ph / 50 Hz
	Full Load Amps	Refer to PCU-N-D 40 electrical page
	Controls	ClimaSync Control System included
		(refer to PCU ClimaSync page)

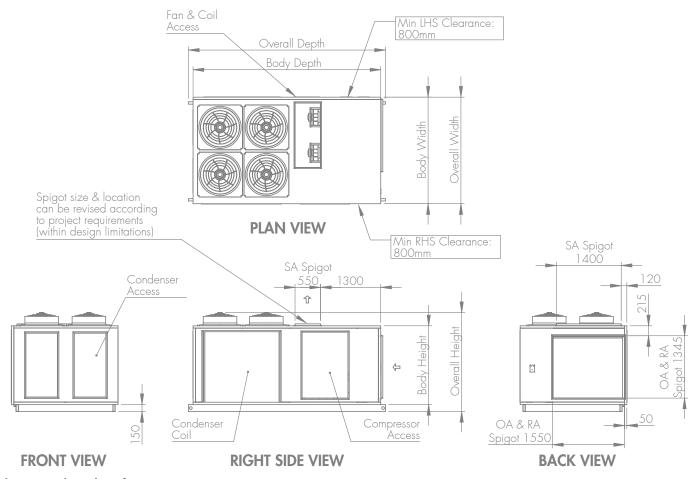
	(reier to PCO Climasync page)
Cabinet	
Weatherproof	Yes
Panel Construction	50 mm PIR Sandwich Panel
	(FM Approved 4880/4881 - Class 1)
Panel Finish	Colorbond "Surfmist"
Panel R-Value	$2.63\mathrm{K.m^2/W}$
Panel Joiner Material	UV Resistant Polymer
Base Frame	Galvanised Steel RHS with Lifting Lugs
Condenser Configurati	ions Split or Packaged
Filter Section	Optional with Split Configuration
	Optional with Packaged Configuration
Filtration Grade	As per project requirements

 $<sup>^{\</sup>dagger}$  Condenser fan selection is dependent on the required cooling capacity.

### **Dimensions**



#### Packaged Configuration (Optional Filter Section not Shown)\*



#### **Indicative Packaged Configuration Dimensions**

	Required Cooling Capacity					
	100kWr	140kWr	180kWr			
Overall Depth (mm)	3450	3950	4250			
Body Depth (mm)	3250	3750	4050			
Overall Width (mm)	2300	2300	2300			
Body Width (mm)	2300	2300	2300			
Overall Height (mm)	2150	2100	2150			
Body Height (mm)	1700	1700	1700			
Weight (kg)		2000				

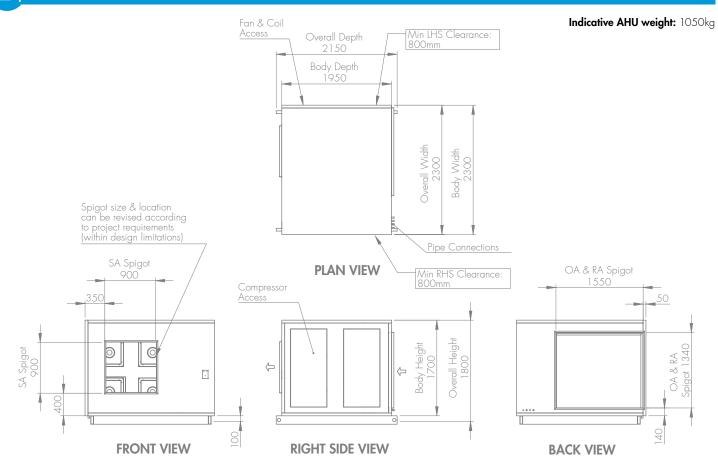
<sup>\*</sup> Dimensions and weight are subject to change, depending on the required cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.



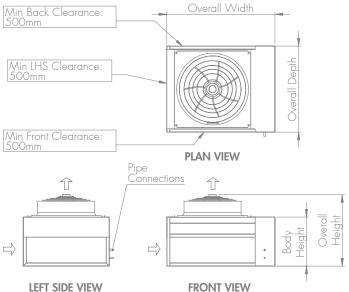
### **Dimensions**

### Difficusions

### Split Configuration AHU (Optional Filter Section Not Shown)\*



# Split Configuration Condensing Unit\*



#### **Indicative Condensing Unit Dimensions**

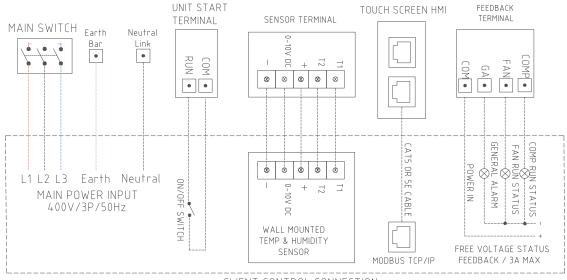
	Required Cooling Capacity					
	100kWr	140kWr	180kWr			
Overall Depth (mm)	2500	1600	1800			
Overall Width (mm)	2900	3300	3700			
Overall Height (mm)	1400	1400	1400			
Body Height (mm)	1100	1100	1100			
Weight (kg)		<i>7</i> 50				

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

### **Electrical**



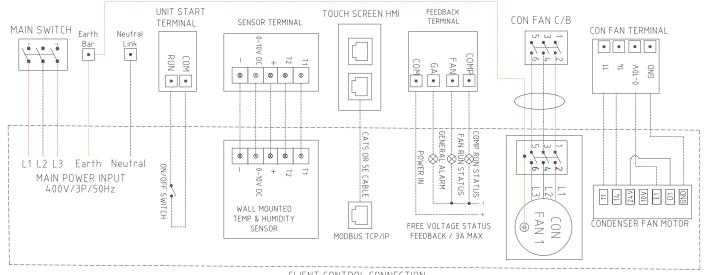
#### Wiring Diagram — Packaged Configuration\*



### CLIENT CONTROL CONNECTION



#### Wiring Diagram — Split Configuration\*



CLIENT CONTROL CONNECTION



### **Electrical Input**

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

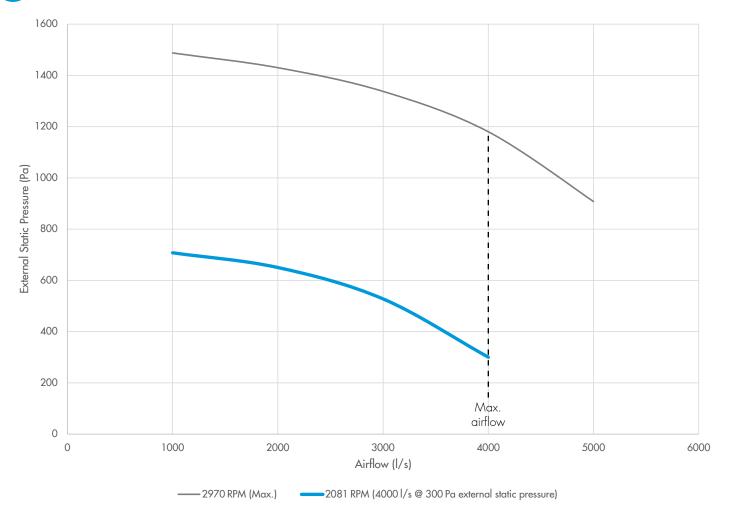
	Required Cooling Capacity						
	100kWr 140kWr 180kWr						
Voltage / Phases / Frequency	415V / 3ph / 50Hz	415V / 3ph / 50Hz	415V / 3ph / 50Hz				
Full Load Amps	91A	158A	158A				

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

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

### **Airflow & Noise**

# Supply Air Fan Curve\*



<sup>\*</sup> 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.

# 5) (? 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)	80	45	56	72	<i>7</i> 5	71	72	69	67
Non A-weighted (dB)	84	71	70	80	78	71	71	69	69
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	85	46	58	<i>7</i> 3	<i>7</i> 6	81	79	75	<i>7</i> 1
Non A-weighted (dB)	87	72	72	82	80	81	78	74	72

<sup>&</sup>lt;sup>†</sup> 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.

