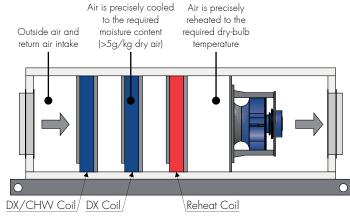
### **Technical Data**









Contact your Air Change representative for a psychrometric unit selection

	Airflow		
	Supply Air		2000 l/s (nominal)
-	Outside Air	0 - 10	0% as per project requirements
業	Refrigeration		
7	Cooling Capacity		Sized to project requirements
	Supply Air Moisture (	Content	>5 g/kg dry air
	Cooling Stage 1		DX or CHW Coil (modulating)
	Cooling Stage 2		DX Coil (modulating)
	Reheat Stage	Но	t Gas Reheat Coil (modulating)
	Compressor Type		Variable Speed Scroll
			(BLDC or PMSM Inverter)
	Refrigerant		R-410A
	Reverse Cycle		Available upon request
16.03	Fans		
	Туре		EC Plug
	Total Fans		x2 (nominal selection*)
	Nominal Power	2	2.5 kW ea. (nominal selection*)

90	Fans					
	Туре	EC Plug				
	Total Fans	x2 (nominal selection*)				
	Nominal Power	2.5 kW ea. (nominal selection*				
Fan Diameter		350mm (nominal selection*)				
	Fan Speed (max.)	2970 RPM (nominal selection*)				
Supply All	Motor Efficiency Class	IE4				
d d n	Ingress Protection Class	IP54				
n	Impeller Construction	Non-metallic Composite				
	Max. External Static Press	. Approx. 1050 Pa @ 2000 l/s				
	Speed Control	Integrated Constant Volume Control				
		or via External Speed Signal				

*	Supply	air	tan	selection	options	are	available.

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

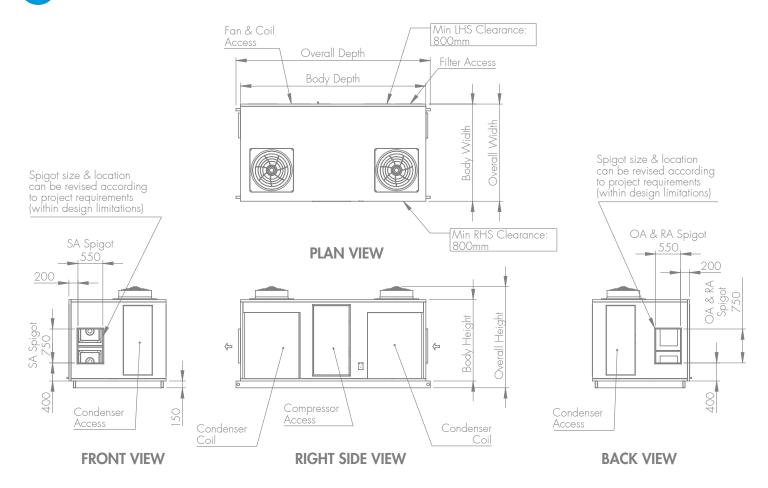
Cir.		
E	Fans	
	Туре	EC Axial
	Total Fans	x2 (nominal selection <sup>†</sup> )
	Nominal Power	3.1 kW ea. (nominal selection <sup>†</sup> )
. !	Fan Diameter	800 mm (nominal selection <sup>†</sup> )
Š	Fan Speed (max.)	1100 RPM (nominal selection <sup>†</sup> )
i V	Motor Efficiency Class	IE4
3	Ingress Protection Class	IP54
	Speed Control	Integrated Head Pressure Control
6	Electrical & Contr	ols
	Electrical Input	415V / 3 ph / 50Hz
	Full Load Amps	Refer to PCU-N-LD 20 electrical page
	Controls	ClimaSync Control System included
		(refer to PCU ClimaSync page)

	(refer to PCU 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 K.m²/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
Dee	p Bed included with Packaged Config.
Filtration Grade	As per project requirements

### **Dimensions**



#### Packaged Configuration (Filter Section for 550mm Deep Bed Filters Included)\*



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

	Required DX Cooling Capacity					
	40 kWr (1 <sup>st</sup> stage CHW)	70 kWr (full DX system)	120 kWr (full DX system)			
Overall Depth (mm)	3900	4300	4300			
Body Depth (mm)	3700	4100	4100			
Overall Width (mm)	2000	2000	2150			
Body Width (mm)	2000	2000	2150			
Overall Height (mm)	2200	2200	2250			
Body Height (mm)	1800	1800	1800			
Weight (kg)		1600				

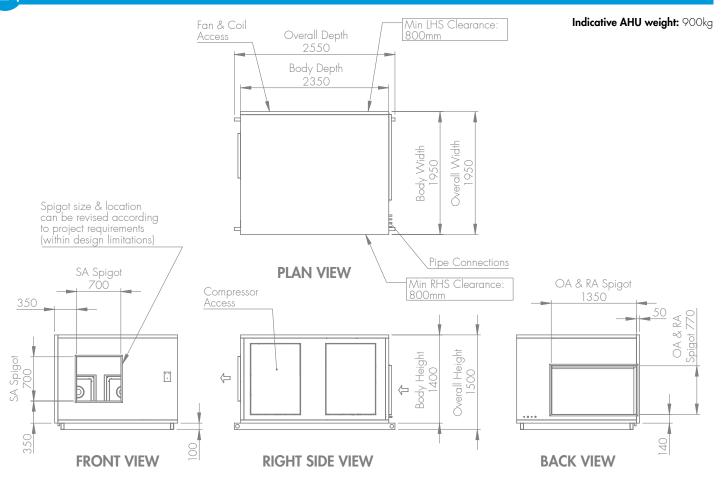
<sup>\*</sup> Dimensions and weight are subject to change, depending on the required DX cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.



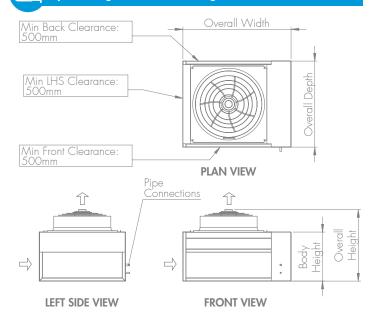
### **Dimensions**

#### Difficitsions

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



## Split Configuration Condensing Unit\*



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

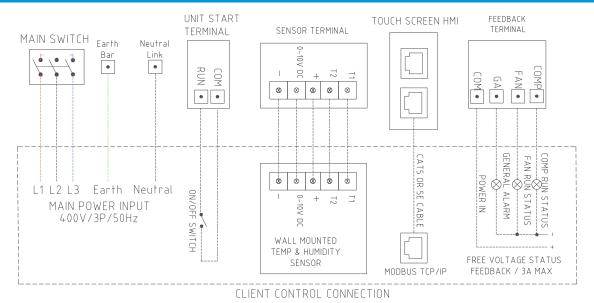
	Required DX Cooling Capacity					
	40 kWr (1 <sup>st</sup> stage CHW)	70 kWr (full DX system)	120 kWr (full DX system)			
Overall Depth (mm)	1550	1550	1700			
Overall Width (mm)	1250	2500	3000			
Overall Height (mm)	1350	1350	1400			
Body Height (mm)	1100	1100	1100			
Weight (kg)		600				

<sup>\*</sup> 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.

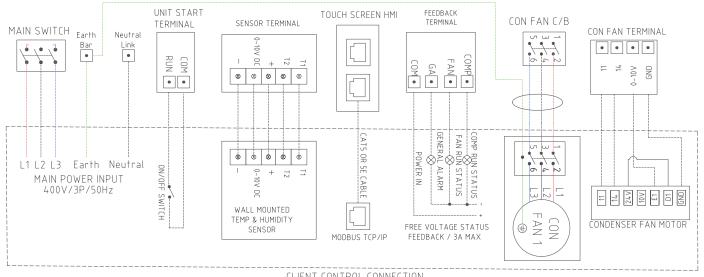
### **Electrical**



#### Wiring Diagram — Packaged Configuration\*



## Wiring Diagram — Split Configuration\*



CLIENT CONTROL CONNECTION



#### **Electrical Input**

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

	Required DX Cooling Capacity				
	40 kWr (1st stage CHW)	70 kWr (full DX system)	120 kWr (full DX system)		
Voltage / Phases / Frequency	415 V / 3 ph / 50 Hz	415V / 3 ph / 50Hz	415 V / 3 ph / 50 Hz		
Full Load Amps	47 A	85A	106A		

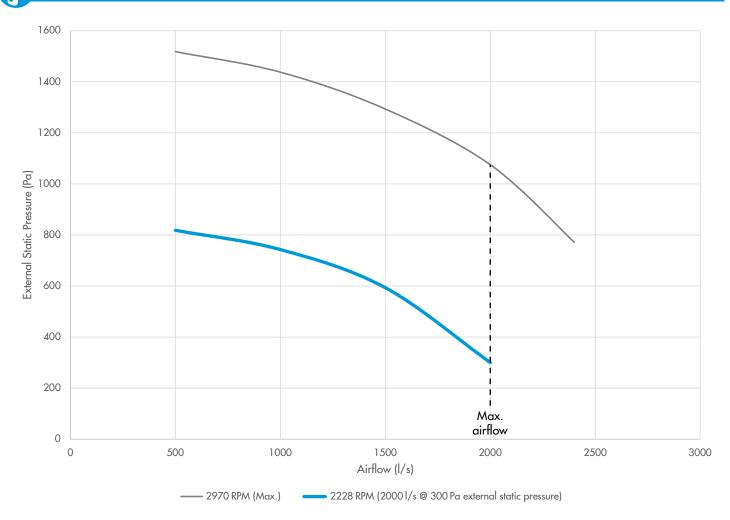
<sup>\*</sup> Connection details are subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

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



### 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.

## Supply Air Fan Acoustics (Sound Power)†

2000l/s @ 300Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	77	42	52	70	71	69	71	68	64
Non A-weighted (dB)	81	67	67	78	75	69	<i>7</i> 0	67	65
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	83	44	54	72	74	79	<i>7</i> 8	73	68
Non A-weighted (dB)	85	69	69	81	77	79	77	72	69
4 5 1 4 1 4 4 1	1	1 1 1.				A.1	. 1 .1	1 1	

<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.

