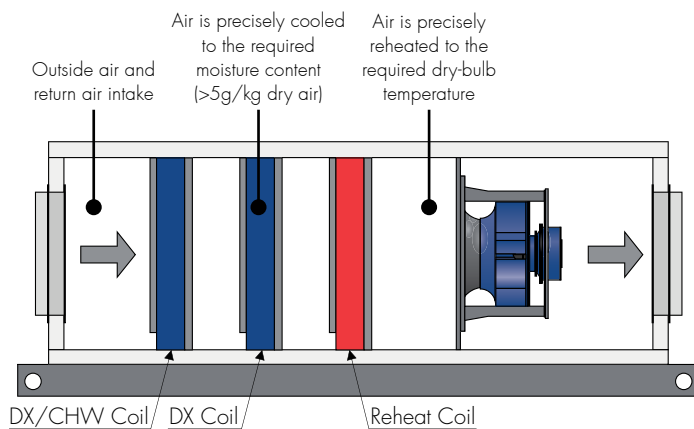
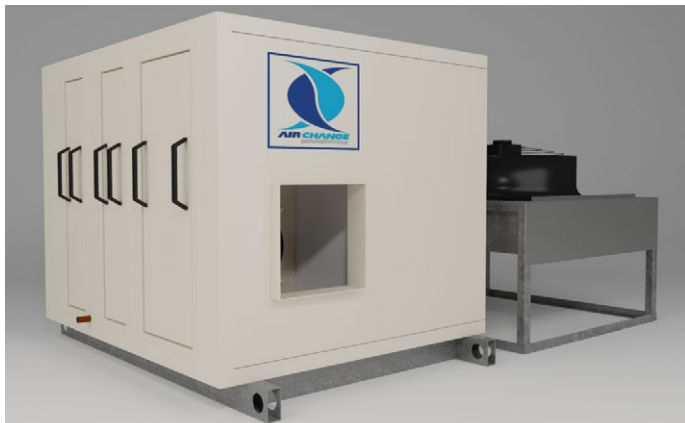


## PCU-N-LD 5

### Technical Data



Contact your Air Change representative for a psychrometric unit selection

### Airflow

Supply Air	500l/s (nominal)
Outside Air	0 - 100% as per project requirements

### Refrigeration

Cooling Capacity	Sized to project requirements
Supply Air Moisture Content	>5g/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 (Brushless DC Inverter)
Refrigerant	R-410A
Reverse Cycle	Available upon request

### Fans

Type	EC Plug
------	---------

Supply Air

Total Fans	x1 (nominal selection*)
Nominal Power	2.5kW (nominal selection*)
Fan Diameter	310mm (nominal selection*)
Fan Speed (max.)	3645RPM (nominal selection*)
Motor Efficiency Class	IE4
Ingress Protection Class	IP54
Impeller Construction	Non-metallic Composite
Max. External Static Press.	Approx. 1400Pa @ 500l/s
Speed Control	Integrated Constant Volume Control or via External Speed Signal

\* Supply air fan selection options are available.

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

### Fans

Type	EC Axial
------	----------

Condenser Air

Total Fans	x2 (nominal selection†)
Nominal Power	3.2kW ea. (nominal selection†)
Fan Diameter	630 mm (nominal selection†)
Fan Speed (max.)	1510RPM (nominal selection†)
Motor Efficiency Class	IE4
Ingress Protection Class	IP54
Speed Control	Integrated Head Pressure Control

### Electrical & Controls

Electrical Input	415V / 3ph / 50Hz
Full Load Amps	Refer to PCU-N-LD 5 electrical page
Controls	ClimaSync Control System included (refer to PCU ClimaSync page)

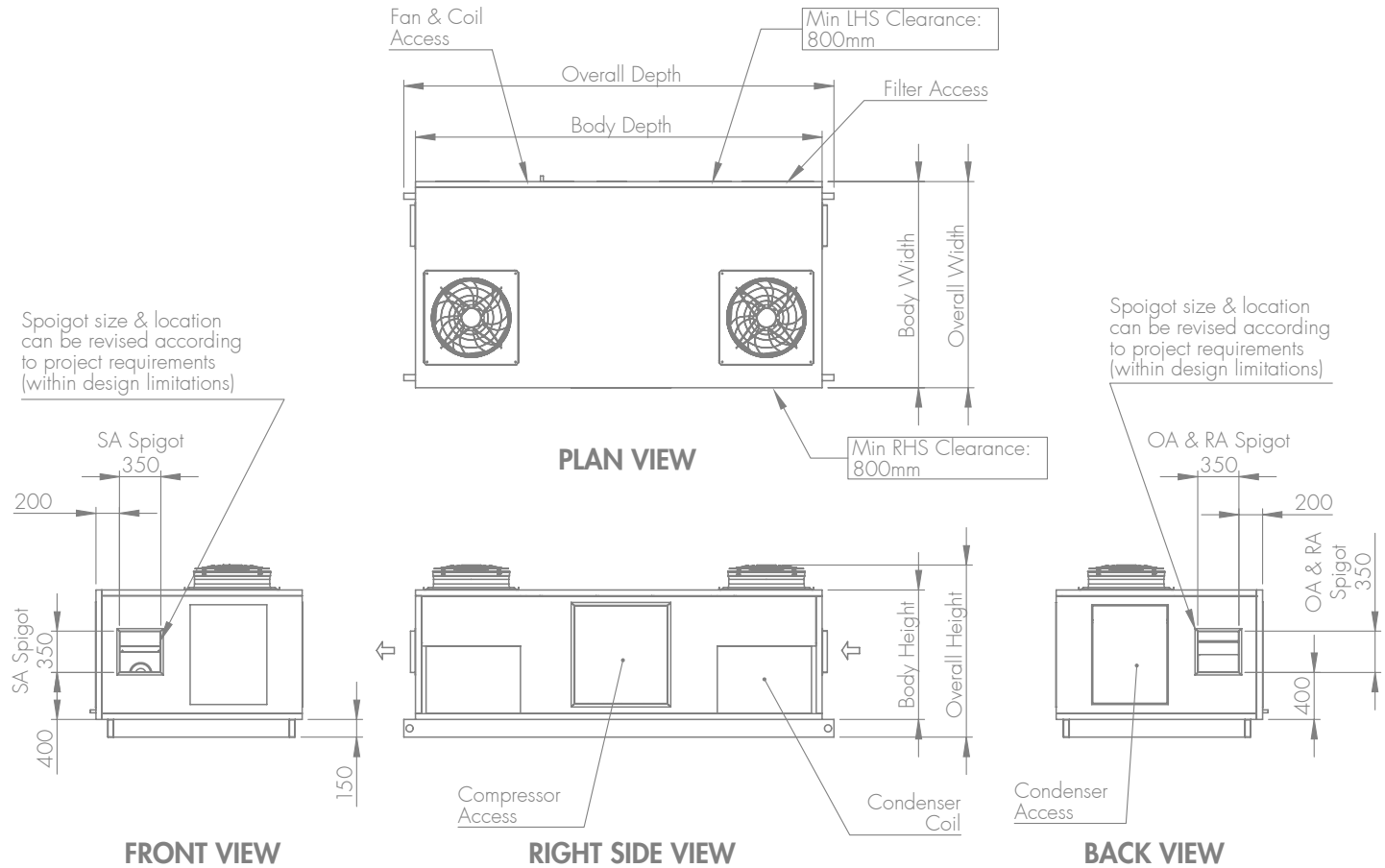
### Cabinet

Weatherproof	Yes
Panel Construction	50mm PIR Sandwich Panel (FM Approved 4880/4881 - Class 1)
Panel Finish	Colorbond "Surfmist"
Panel R-Value	2.63 K.m <sup>2</sup> /W
Panel Joiner Material	UV Resistant Polymer
Base Frame	Galvanised Steel RHS with Lifting Lugs
Condenser Configurations	Split or Packaged
Filter Section	Optional with Split Configuration Deep Bed included with Packaged Config.
Filtration Grade	As per project requirements

## PCU-N-LD 5

### Dimensions

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



### Indicative Packaged Configuration Dimensions

	Required DX Cooling Capacity		
	10kW <sub>r</sub> (1 <sup>st</sup> stage CHW)	20kW <sub>r</sub> (full DX system)	30kW <sub>r</sub> (full DX system)
Overall Depth (mm)	3650	3650	3650
Body Depth (mm)	3450	3450	3450
Overall Width (mm)	1650	1650	1750
Body Width (mm)	1650	1650	1750
Overall Height (mm)	1400	1400	1500
Body Height (mm)	1100	1100	1100
Weight (kg)	900		

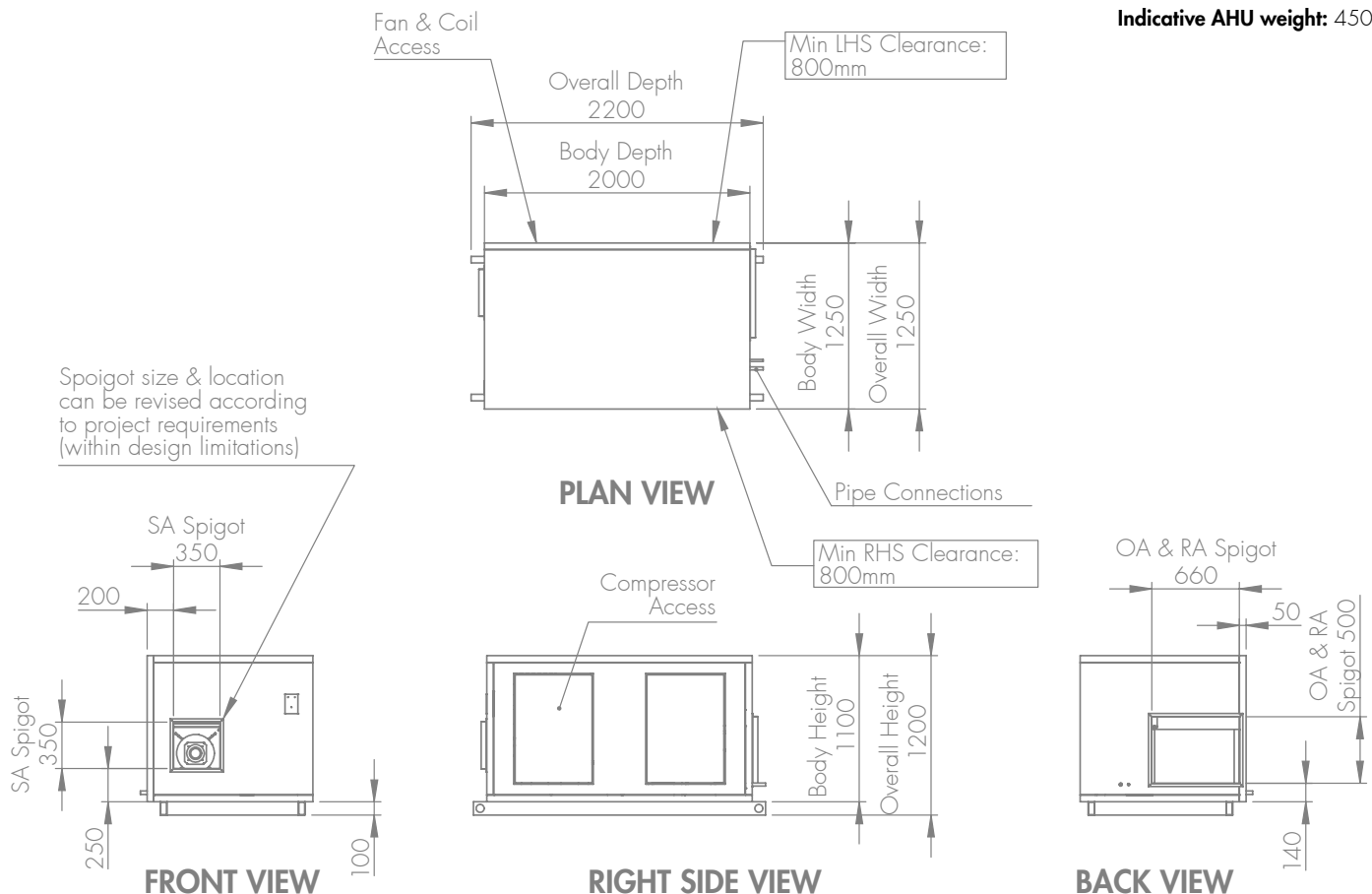
\* Dimensions and weight are subject to change, depending on the required DX cooling capacity, design conditions, and other project requirements. Refer to project certified drawings for finalised details.

## PCU-N-LD 5

### Dimensions

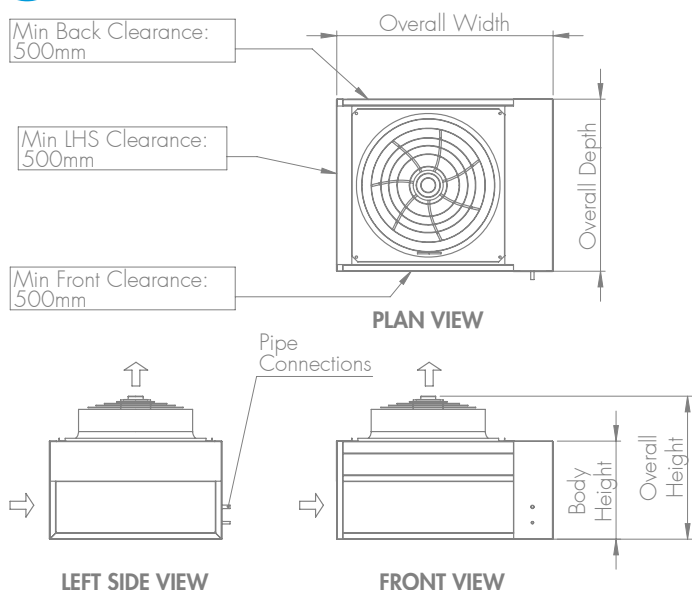
#### Split Configuration AHU (Optional Filter Section Not Shown)\*

Indicative AHU weight: 450kg



#### Split Configuration Condensing Unit\*

#### Indicative Condensing Unit Dimensions



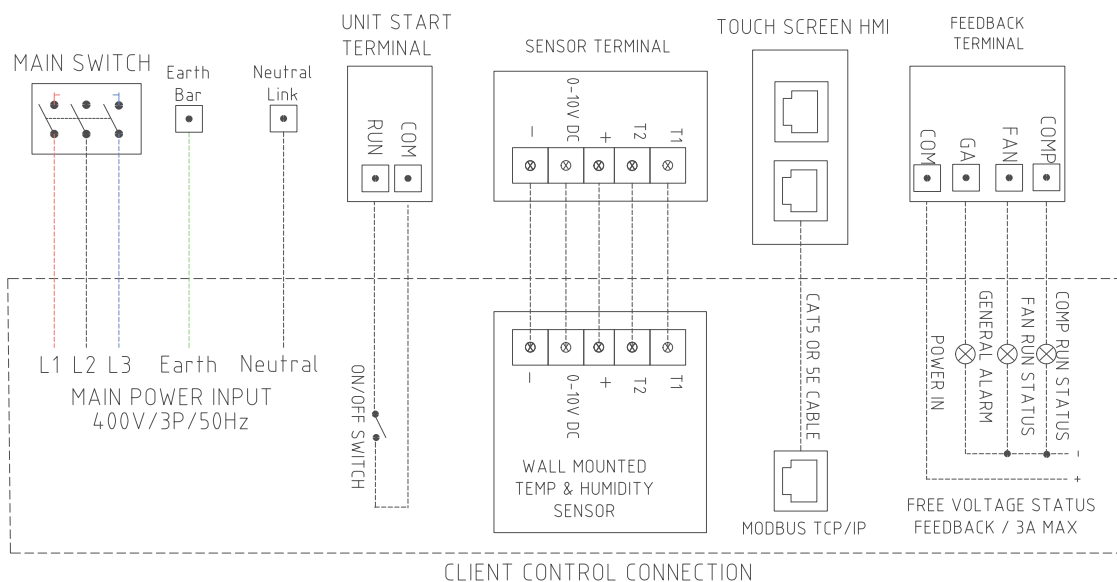
	Required DX Cooling Capacity		
	10kW <sub>r</sub> (1 <sup>st</sup> stage CHW)	20kW <sub>r</sub> (full DX system)	30kW <sub>r</sub> (full DX system)
<b>Overall Depth (mm)</b>	800	800	800
<b>Overall Width (mm)</b>	900	1800	2200
<b>Overall Height (mm)</b>	850	850	950
<b>Body Height (mm)</b>	700	700	700
<b>Weight (kg)</b>	250		

\* 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.

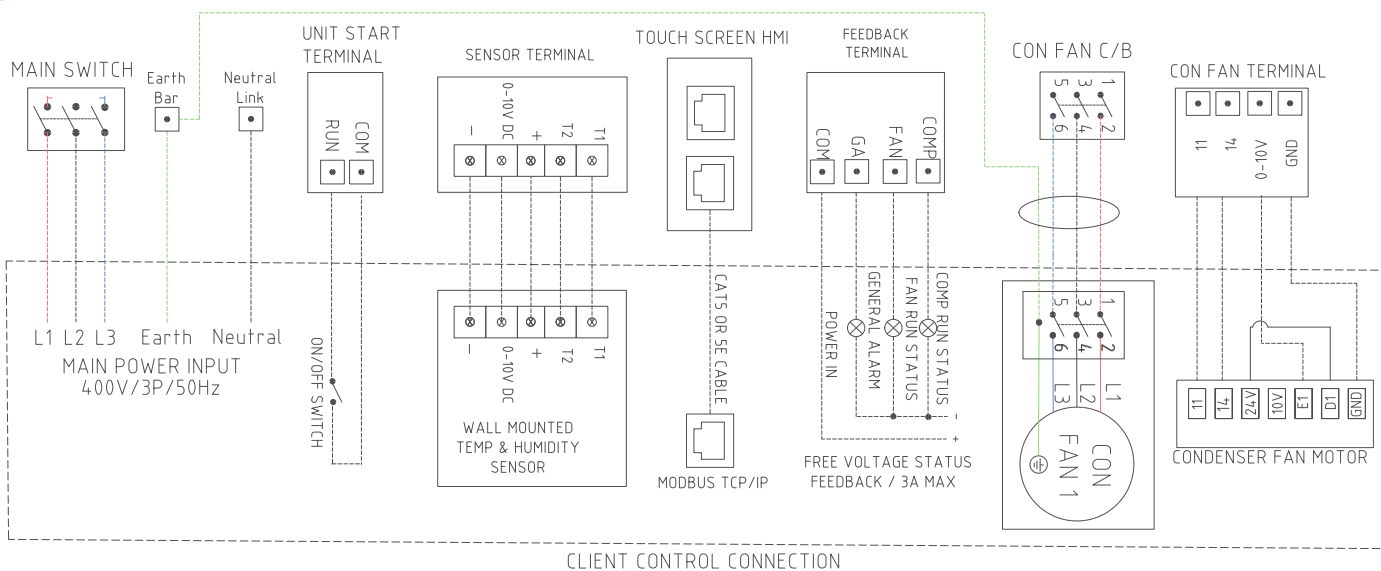
## PCU-N-LD 5

### Electrical

#### Wiring Diagram — Packaged Configuration\*



#### Wiring Diagram — Split Configuration\*



#### Electrical Input

##### Indicative Electrical Input details†

Voltage / Phases / Frequency	Required DX Cooling Capacity		
	10kW <sub>r</sub> (1st stage CHW)	20kW <sub>r</sub> (full DX system)	30kW <sub>r</sub> (full DX system)
Full Load Amps	415V / 3 ph / 50Hz	415V / 3 ph / 50Hz	415V / 3 ph / 50Hz
	23A	41A	48A

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

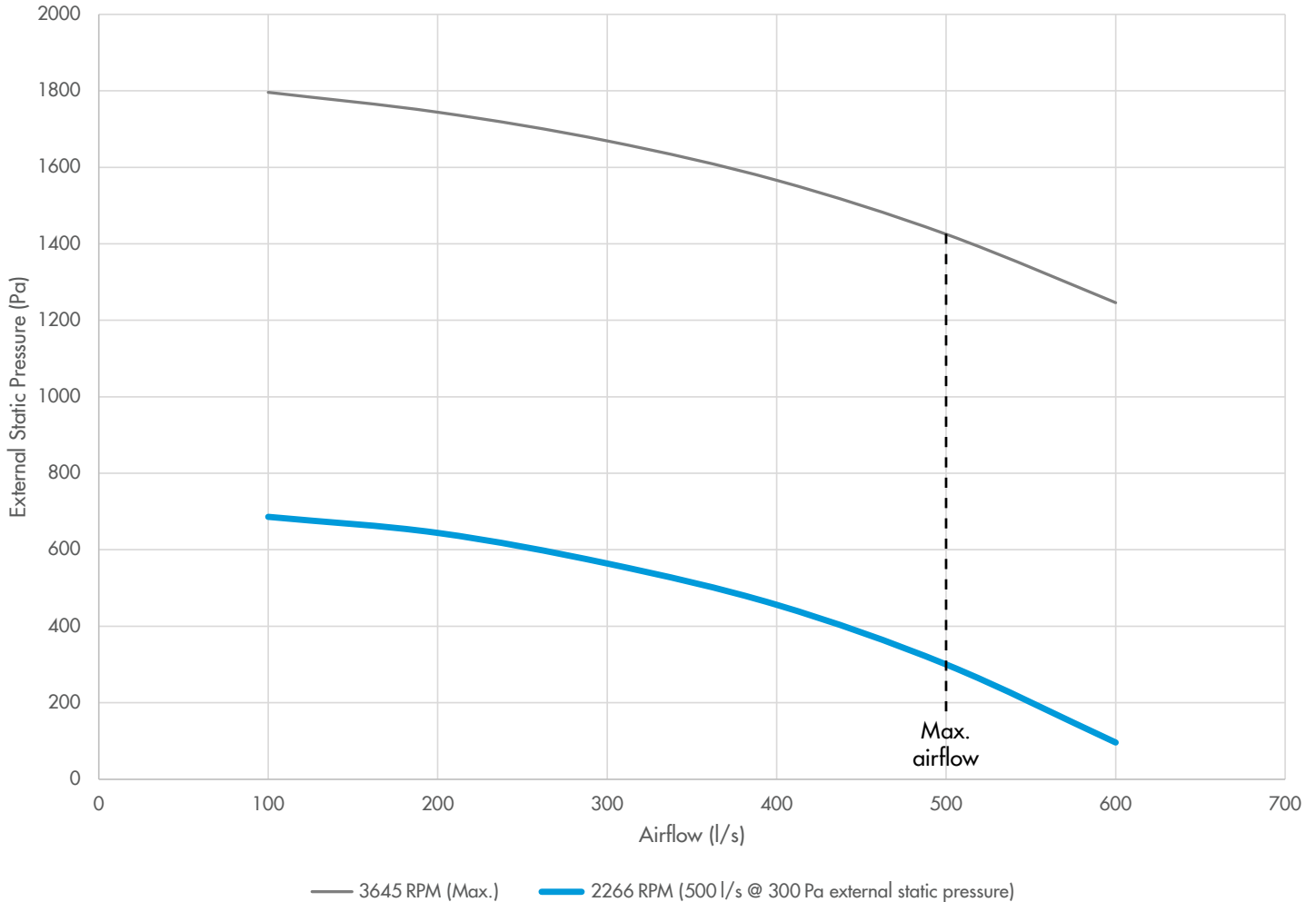
† Power details are subject to change, depending on the required DX cooling capacity and other project requirements. Refer to project certified electrical diagrams for finalised details.

## PCU-N-LD 5

### 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)†

500l/s @ 300Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	72	43	51	63	65	65	66	63	56
Non A-weighted (dB)	76	69	66	72	68	65	65	62	57
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	79	45	54	68	69	75	75	70	63
Non A-weighted (dB)	82	70	69	76	72	75	74	69	64

† 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.