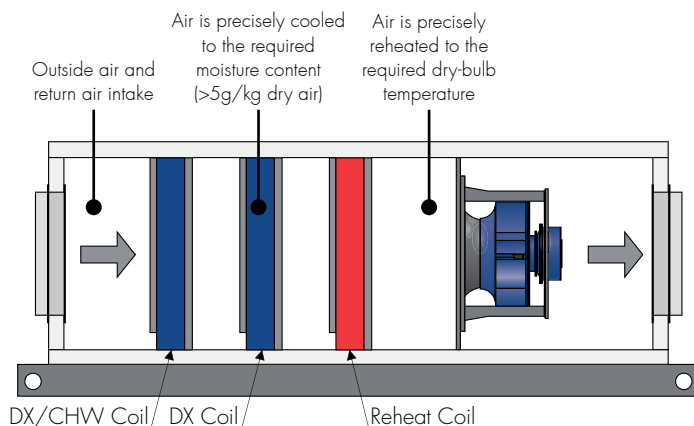


## PCU-N-LD 10

### Technical Data



Contact your Air Change representative for a psychrometric unit selection

#### Airflow

Supply Air	1000l/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 (BLDC or PMSM Inverter)
Refrigerant	R-410A
Reverse Cycle	Available upon request

#### Fans

Type	EC Plug
Total Fans	x1 (nominal selection*)
Nominal Power	2.5kW (nominal selection*)
Fan Diameter	350mm (nominal selection*)
Fan Speed (max.)	2970RPM (nominal selection*)
Motor Efficiency Class	IE4
Ingress Protection Class	IP54
Impeller Construction	Non-metallic Composite
Max. External Static Press.	Approx. 1100Pa @ 1000l/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
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 10 electrical page
Controls	ClimaSync Control System included (refer to PCU ClimaSync page)

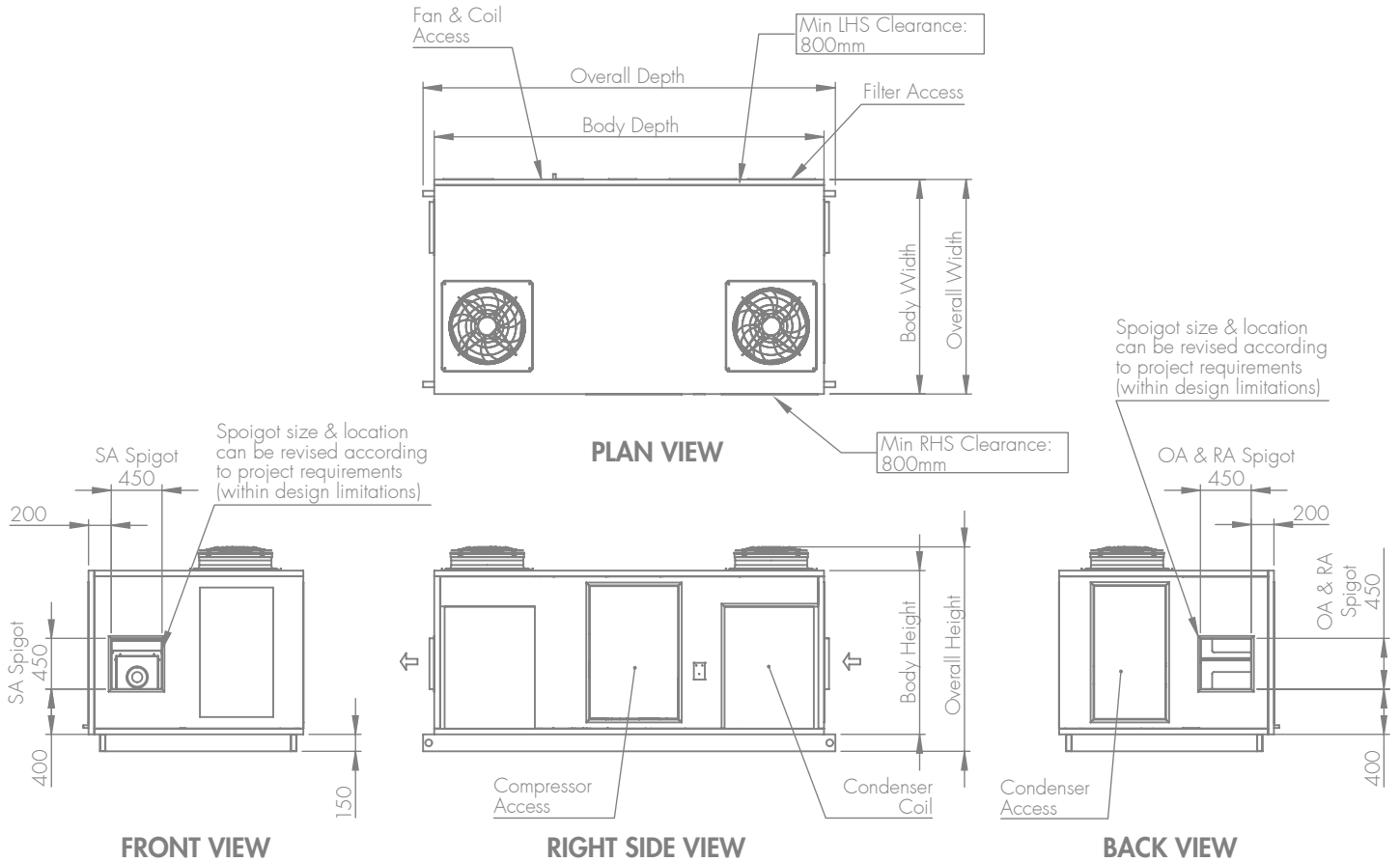
#### Cabinet

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 10

### Dimensions

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



### Indicative Packaged Configuration Dimensions

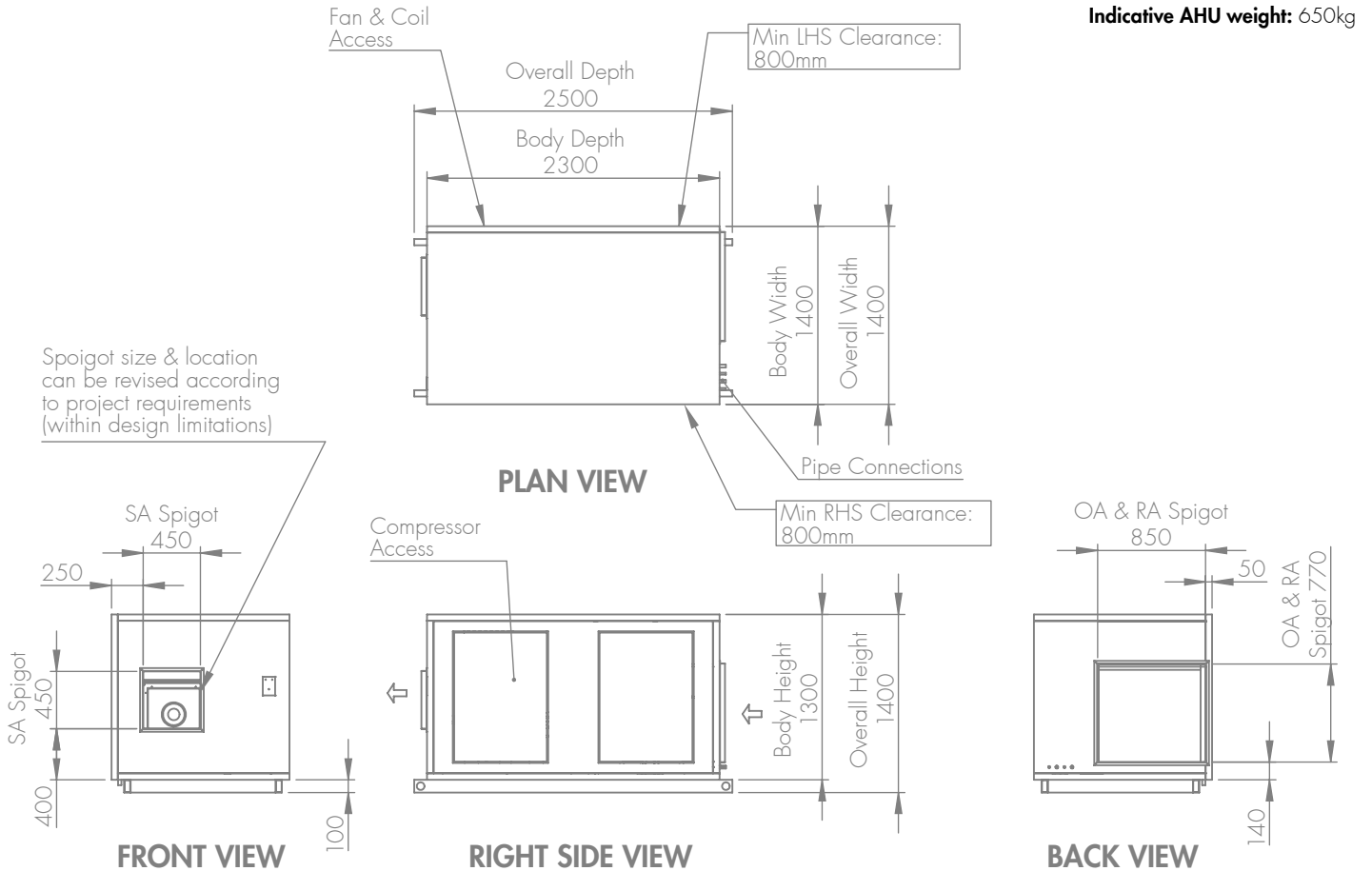
	Required DX Cooling Capacity		
	20 kW <sub>r</sub> (1 <sup>st</sup> stage CHW)	40 kW <sub>r</sub> (full DX system)	60 kW <sub>r</sub> (full DX system)
Overall Depth (mm)	3650	3650	3650
Body Depth (mm)	3450	3450	3450
Overall Width (mm)	1900	1900	1900
Body Width (mm)	1900	1900	1900
Overall Height (mm)	1600	1600	1850
Body Height (mm)	1200	1200	1450
Weight (kg)	1150		

\* 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.

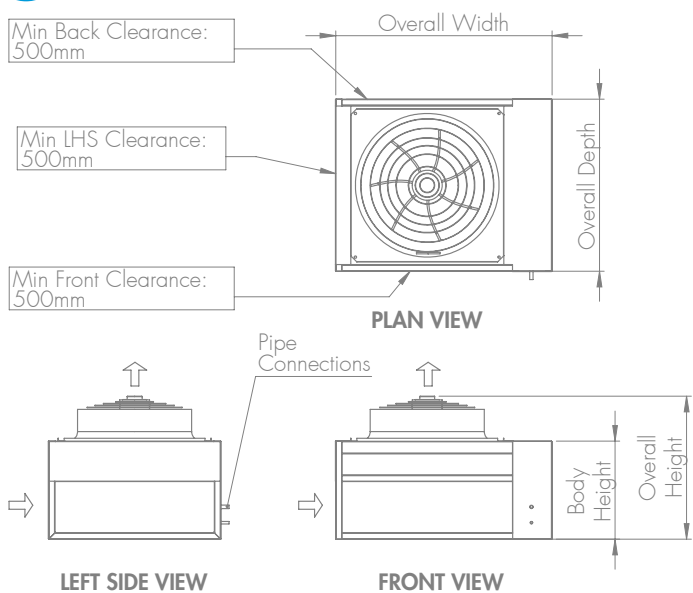
## PCU-N-LD 10

### Dimensions

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



#### Split Configuration Condensing Unit\*



#### Indicative Condensing Unit Dimensions

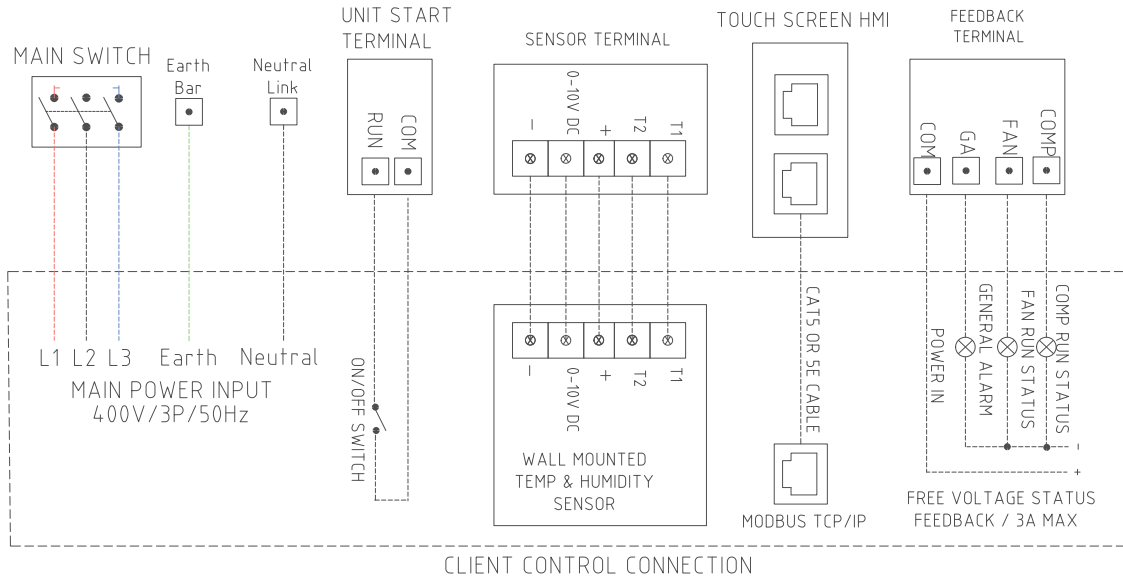
	Required DX Cooling Capacity		
	20 kW <sub>r</sub> (1 <sup>st</sup> stage CHW)	40 kW <sub>r</sub> (full DX system)	60 kW <sub>r</sub> (full DX system)
<b>Overall Depth (mm)</b>	1000	1000	1250
<b>Overall Width (mm)</b>	1100	2200	2400
<b>Overall Height (mm)</b>	950	950	1350
<b>Body Height (mm)</b>	700	700	1100
<b>Weight (kg)</b>	350		

\* 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.

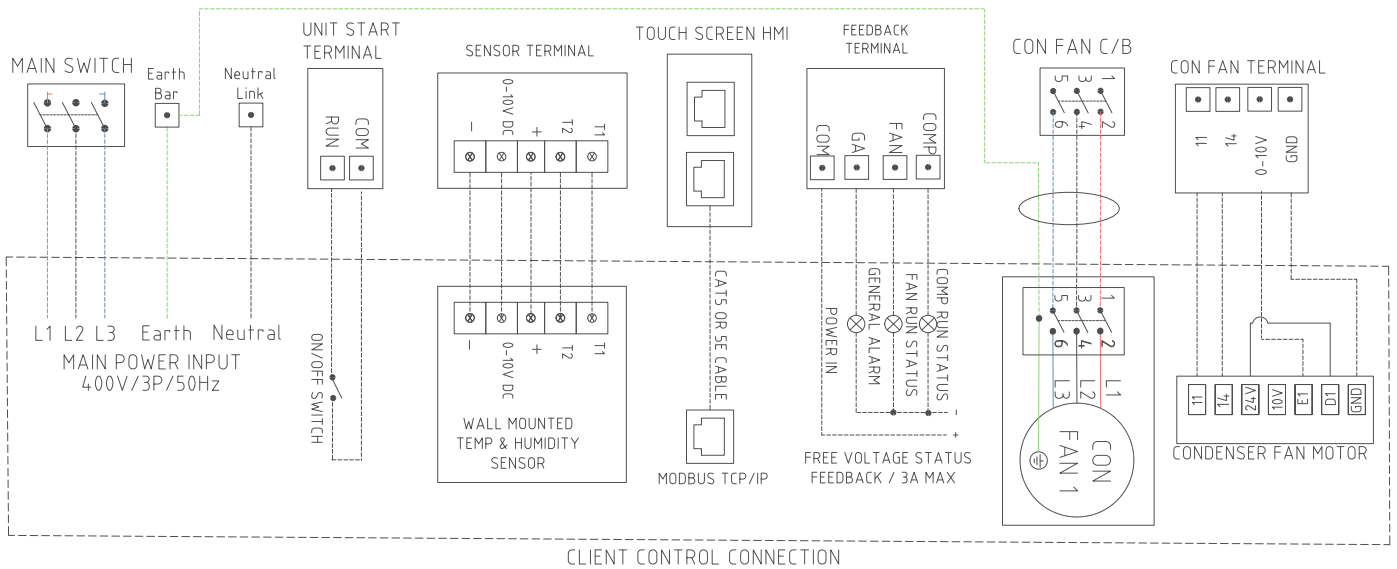
## PCU-N-LD 10

### Electrical

#### Wiring Diagram — Packaged Configuration\*



#### Wiring Diagram — Split Configuration\*



#### Electrical Input

##### Indicative Electrical Input details†

Voltage / Phases / Frequency	Required DX Cooling Capacity		
	20 kW <sub>r</sub> (1 <sup>st</sup> stage CHW)	40 kW <sub>r</sub> (full DX system)	60 kW <sub>r</sub> (full DX system)
Full Load Amps	415V / 3 ph / 50Hz	415V / 3 ph / 50Hz	415V / 3 ph / 50Hz
	26A	48A	68A

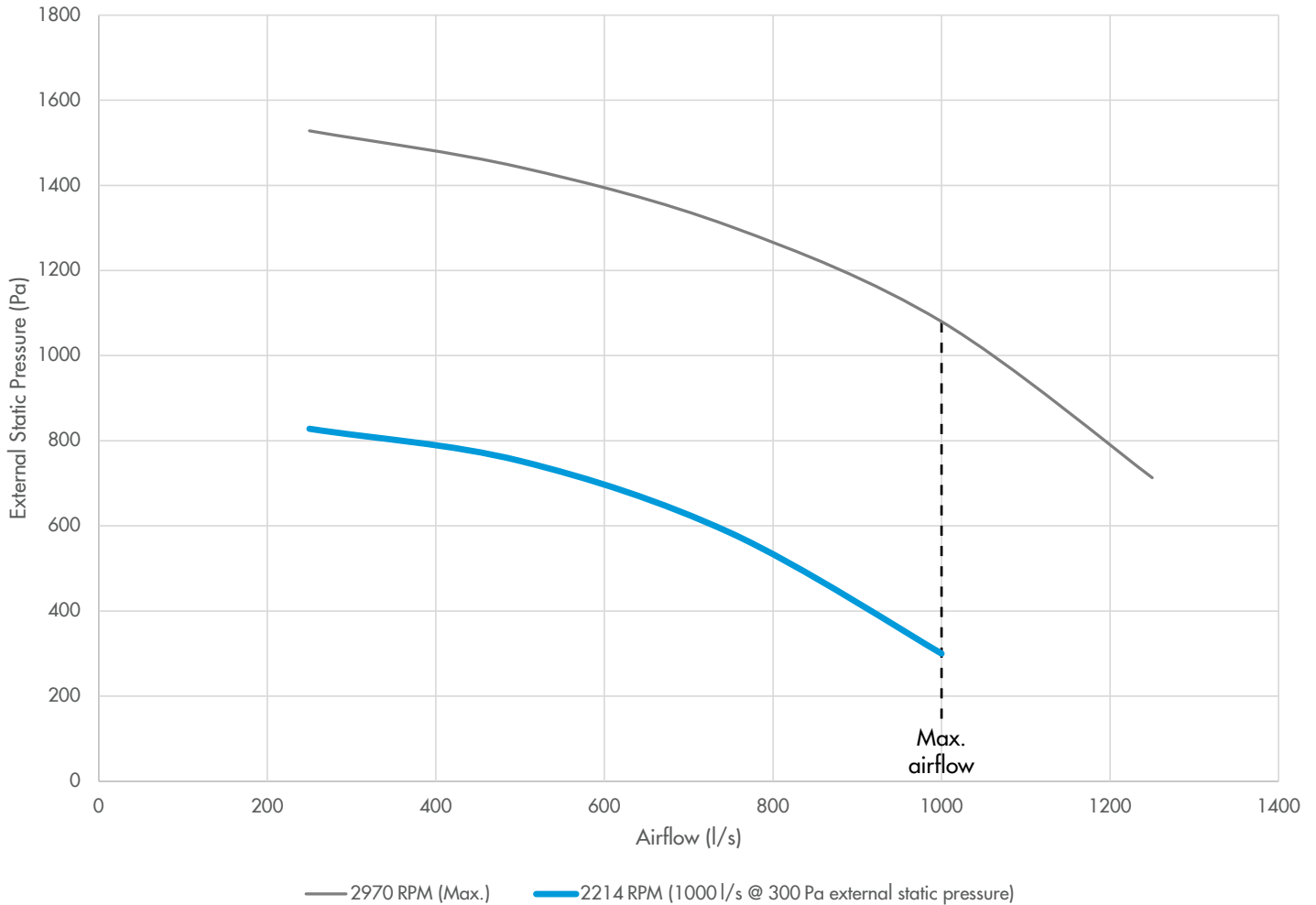
\* Connection details are subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

† 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 10

### 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)†

1000l/s @ 300Pa External Static Pressure									
Inlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	73	37	47	64	67	65	67	63	60
Non A-weighted (dB)	76	62	62	73	70	65	65	62	61
Outlet									
Frequency (Hz)	sum	63	125	250	500	1000	2000	4000	8000
A-weighted (dB)	80	41	51	68	70	76	74	70	65
Non A-weighted (dB)	82	66	66	76	73	76	73	69	66

† 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.