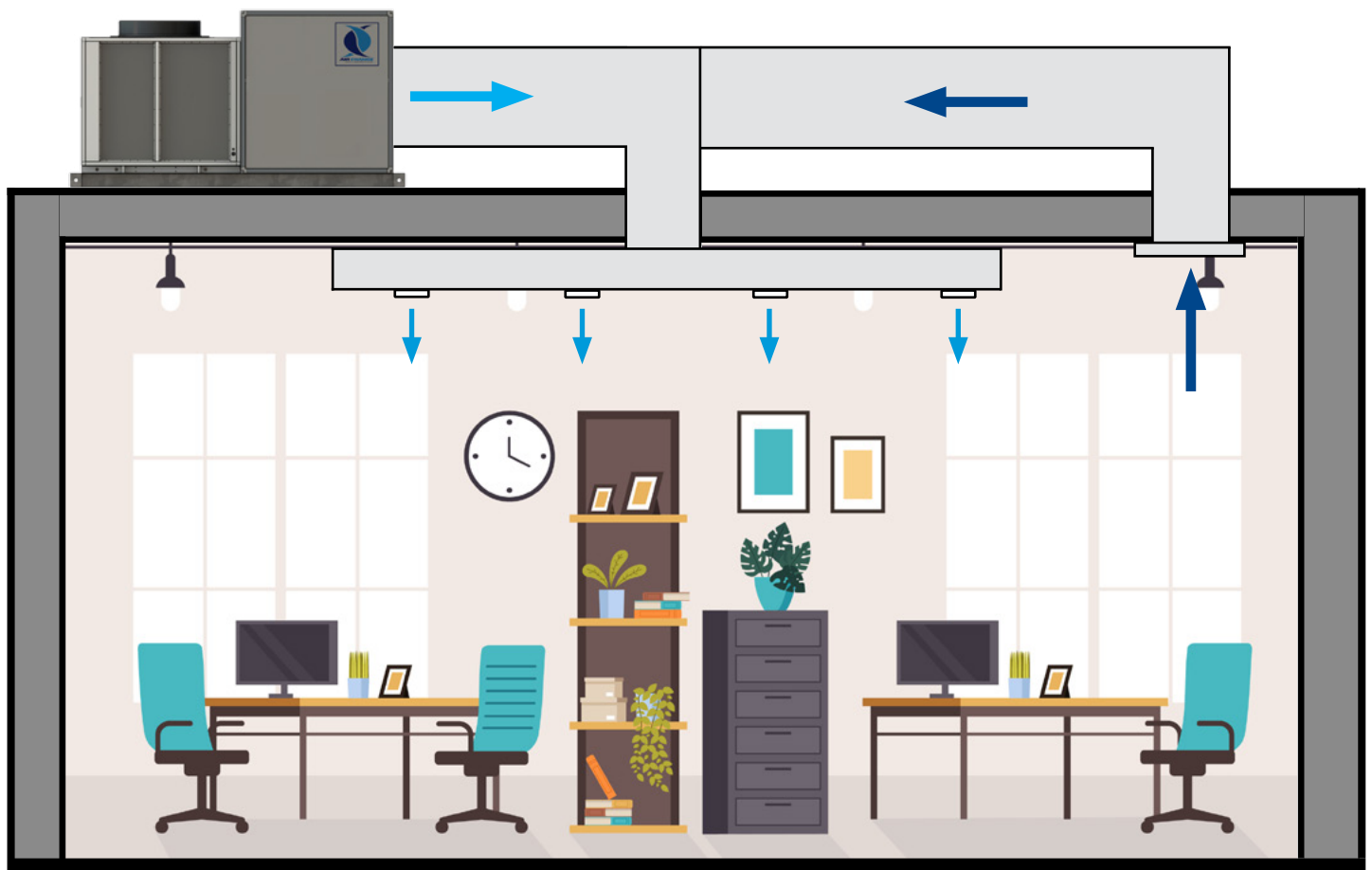




PH Range

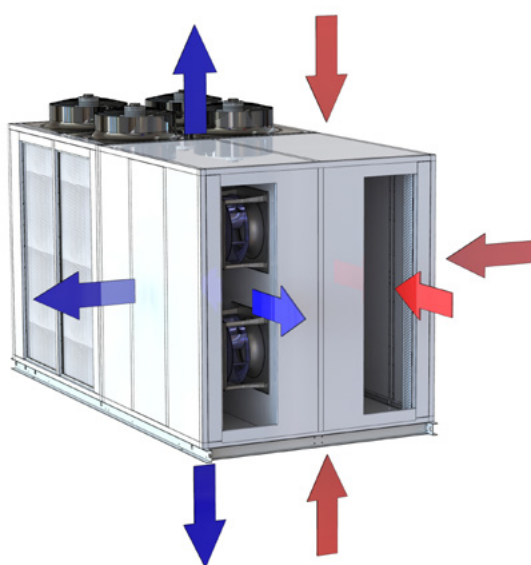
Air Cooled Packaged Units

How it Works

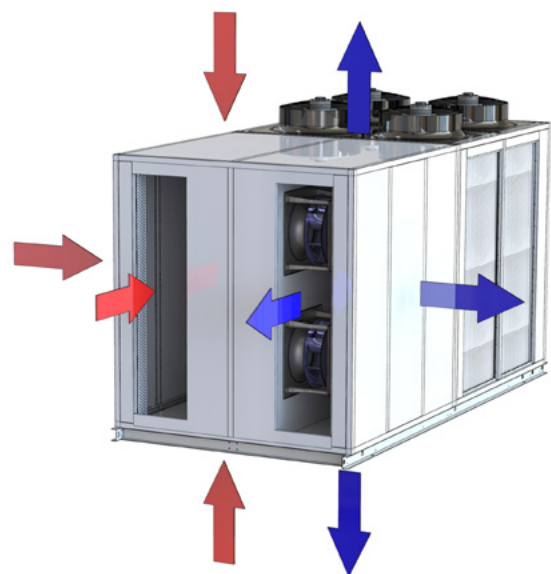


Flexible Duct Connections:

Spigots can be relocated to the side, top, or bottom of the unit (request upon order)

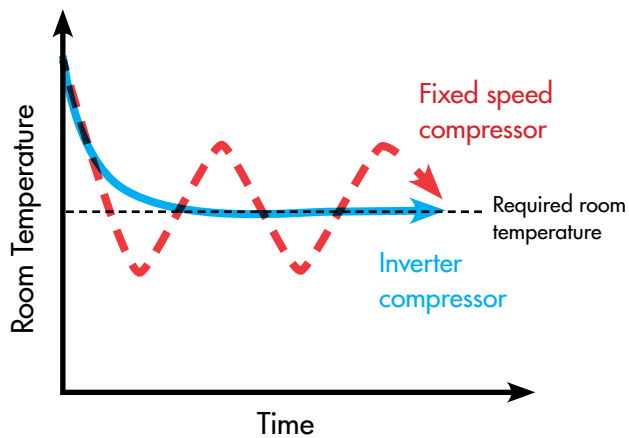


Standard Handing

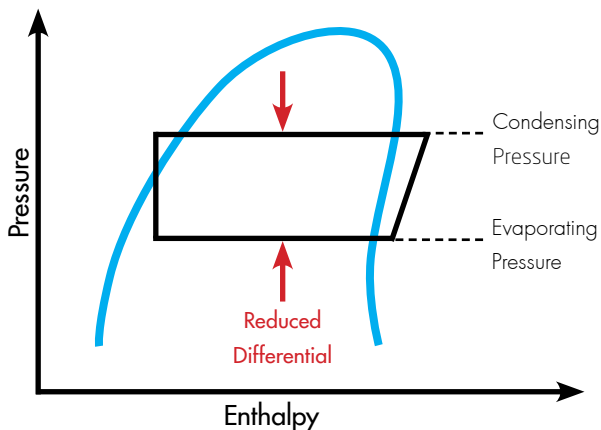


Reverse Handing

Features



Smooth and steady control of room temperature achieved by inverter compressors.

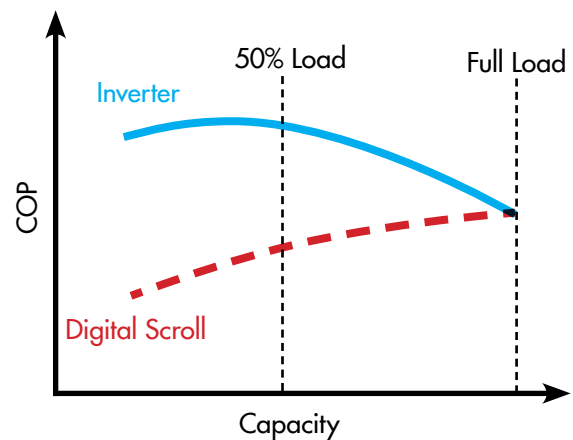


The reduced evaporating to condensing pressure differential during capacity turn-down of inverter compressors greatly improves efficiency.

BLDC Inverter Compressors (Option)

BLDC inverter compressors have a high efficiency permanent magnet motor that can be electronically speed controlled to modulate the refrigerant mass flow rate through the refrigeration circuit. The benefits are:

- Greater temperature control precision with capacity turn-down ratios of typically 5:1
- Significantly improved COP during capacity turn-down because of the reduced condensing to evaporating pressure differential. This results in large overall energy savings as air conditioners typically spend minimal time at design capacity
- Reduced compressor wear due to the largely diminished need for compressor on/off cycling
- Reduced stress on refrigeration pipework due to compressor soft-starting
- No spikes in current draw during compressor start-up due to soft-starting
- Reduced compressor noise during capacity turn-down
- The ability to be used in Variable Air Volume (VAV) installations



Indicative COP vs. capacity profiles of inverter and digital scroll compressors.

Features



Economy Cycle Dampers (Option)

Dampers can be integrated into the unit for the control of the required outside air and to provide free cooling for an Economy Cycle Mode when ambient conditions are suitable.

EC Supply and Condenser Fans

EC supply fans permit variable capacity airflow to the space when required offering optimal energy efficiency.

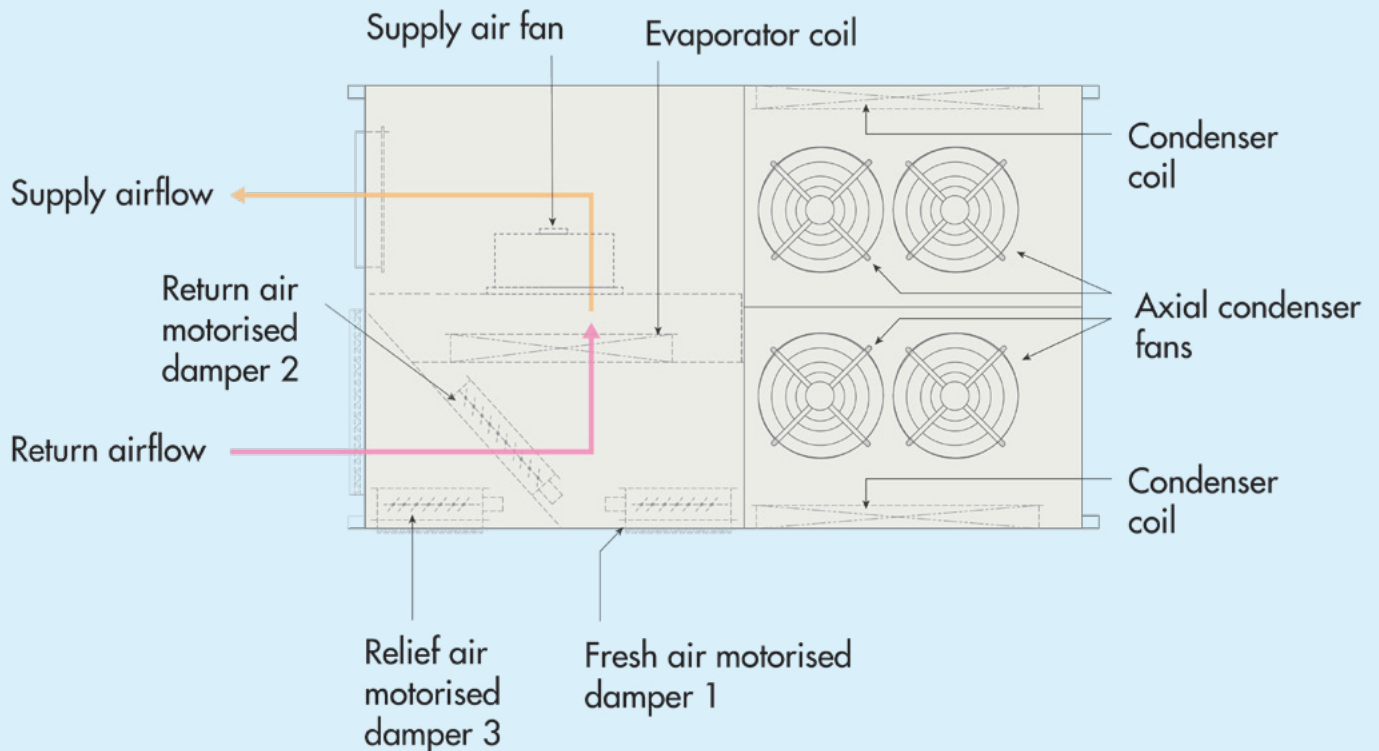
Variable capacity condenser fans provide head pressure control and increase the efficiency of the refrigeration circuit.



Economy Cycle (Option)

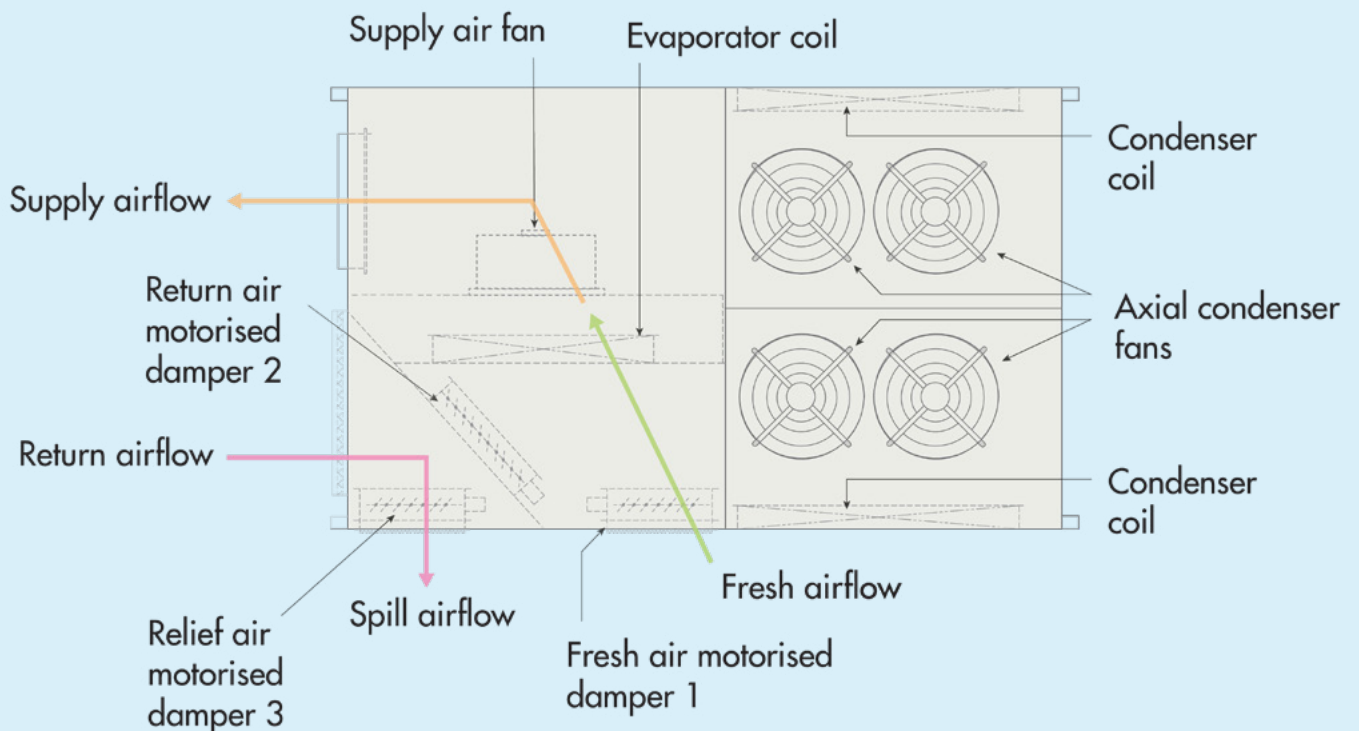
Normal Operation

Fresh air motorised damper 1 - Closed
Return air motorised damper 2 - Open
Relief air motorised damper 3 - Closed

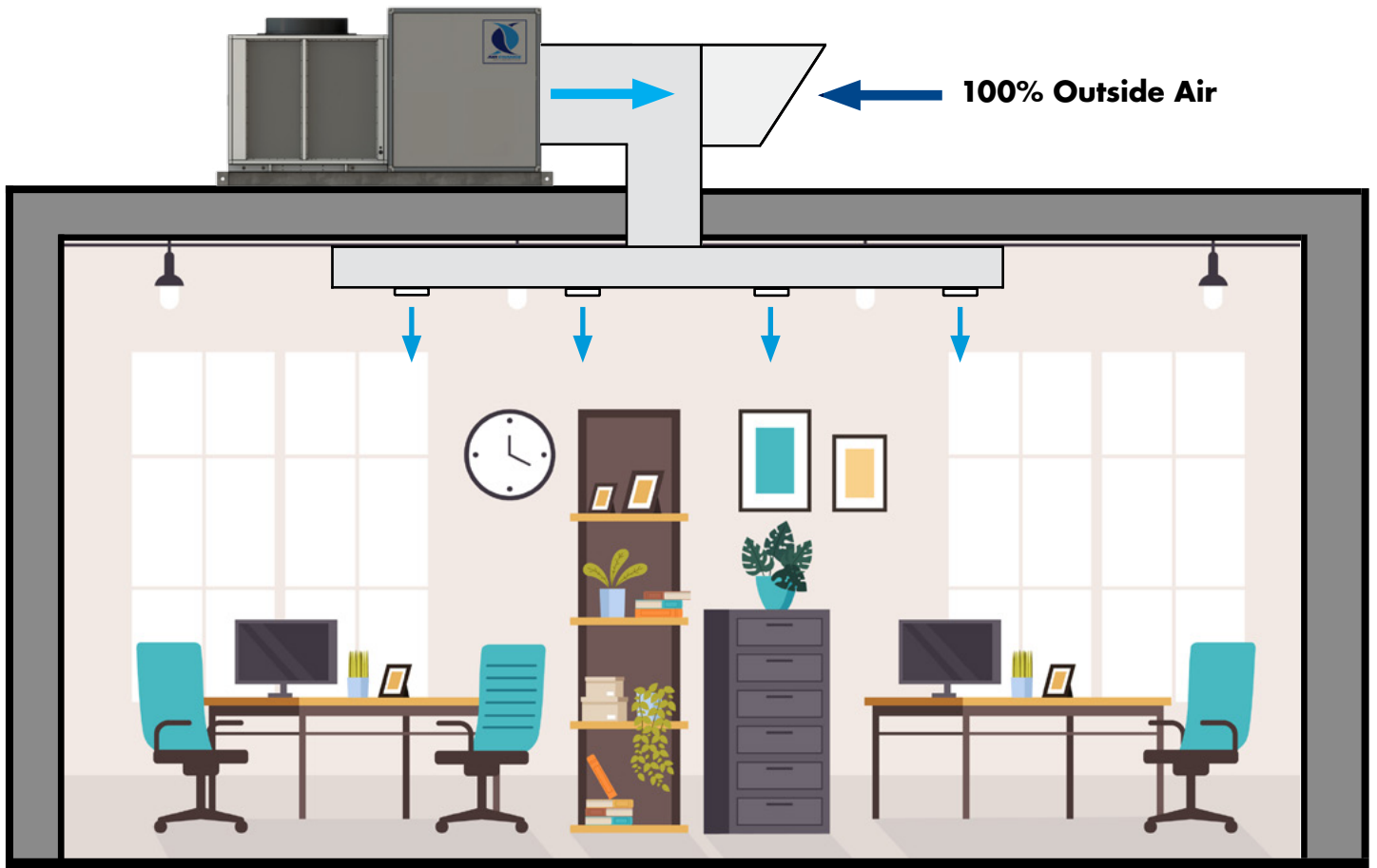


Economy Cycle Mode

Fresh air motorised damper 1 - Open
Return air motorised damper 2 - Closed
Relief air motorised damper 3 - Open



100% Outside Air Conditioning (Upgrade)



Air Change air cooled packaged units can be upgraded to condition 100% outside air.

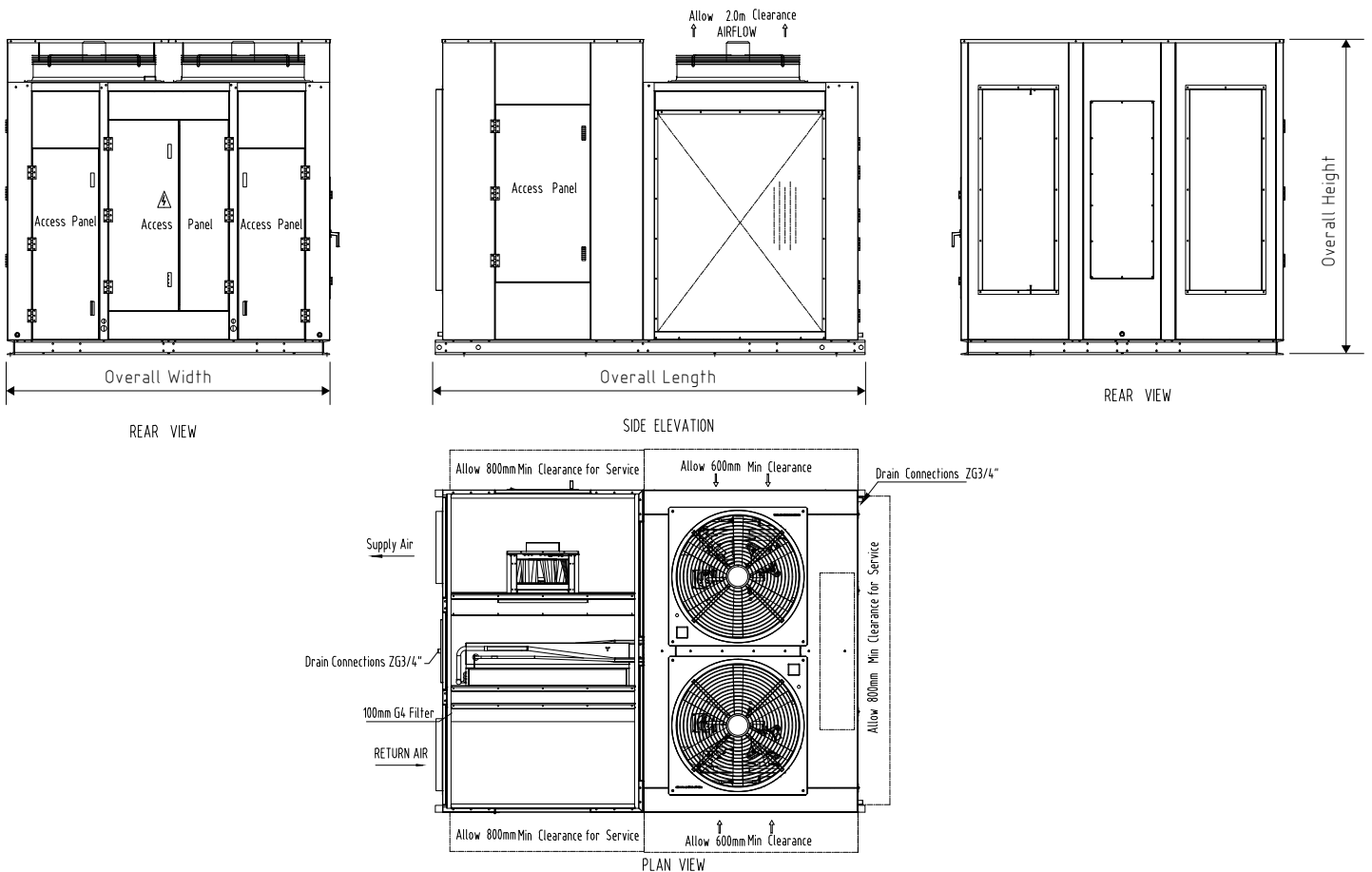
This provides a solution for outside air pretreatment or direct ventilation of indoor spaces.

Technical Data

	PHS							PH					
Model Number:	10	15	18	20	25	30	35	40	45	56	80	100	>100
Capacity													Contact Air Change for details on larger units
Total Cooling (kW)	9.3	14.8	17.1	20.5	23.8	30.6	34.8	39.1	44.6	55.1	80.4	102.2	
Sensible Cooling (kW)	8	13	14.4	16.3	19.1	24.9	28.3	31.5	36.4	44.5	65.5	82.9	
Heating (kW)	9.4	14.6	17.5	20.7	24.2	30.6	34.2	38.4	44.2	55.6	81.5	98.5	
Airflow													
Nominal (l/s)	555	850	1000	1110	1390	1800	2000	2200	2700	3000	4300	5500	
Power													
Power Supply (V/Ph/Hz)	240/1/50	415/3/50											
Full Load Amps (A)	26	12.6	14.6	17.4	22.4	27	28.7	30.8	37.2	47.7	66.2	85.2	
Compressors													
Compressor Type	Fixed Speed Scroll (standard) or BLDC Inverter (option)												
Refrigerant	R410A or R407C												
Fans													
Indoor Type	Forward Curve Centrifugal or EC Plug												
Outdoor Type	Axial												
Overall Dimensions													
Length (mm)	1730	1830	1830	1830	2200	2200	2250	2250	2650	2650	3400	3400	
Width (mm)	1660	1700	1700	1700	1900	1900	2250	2250	2250	2250	2250	2250	
Height (mm)	1180	1380	1380	1380	1380	1380	1800	1800	1932	1932	2200	2200	

Notes:

- Tech data is subject to change. Refer to project certified documentation for finalised details.
- Cooling capacity based on: OA 35/24°C, RA 27/19°C. Heating capacity based on: OA 7°C, RA 20°C.



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For more than 20 years, Air Change has provided unique equipment and engineering solutions for local and international clients using our internationally patented heat and energy recovery technology. During that time, we have developed a comprehensive range of energy efficient products to deliver controlled indoor climate conditions satisfying the requirements of all project stakeholders: the developer, the design engineer, and the building's owner and occupants.

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