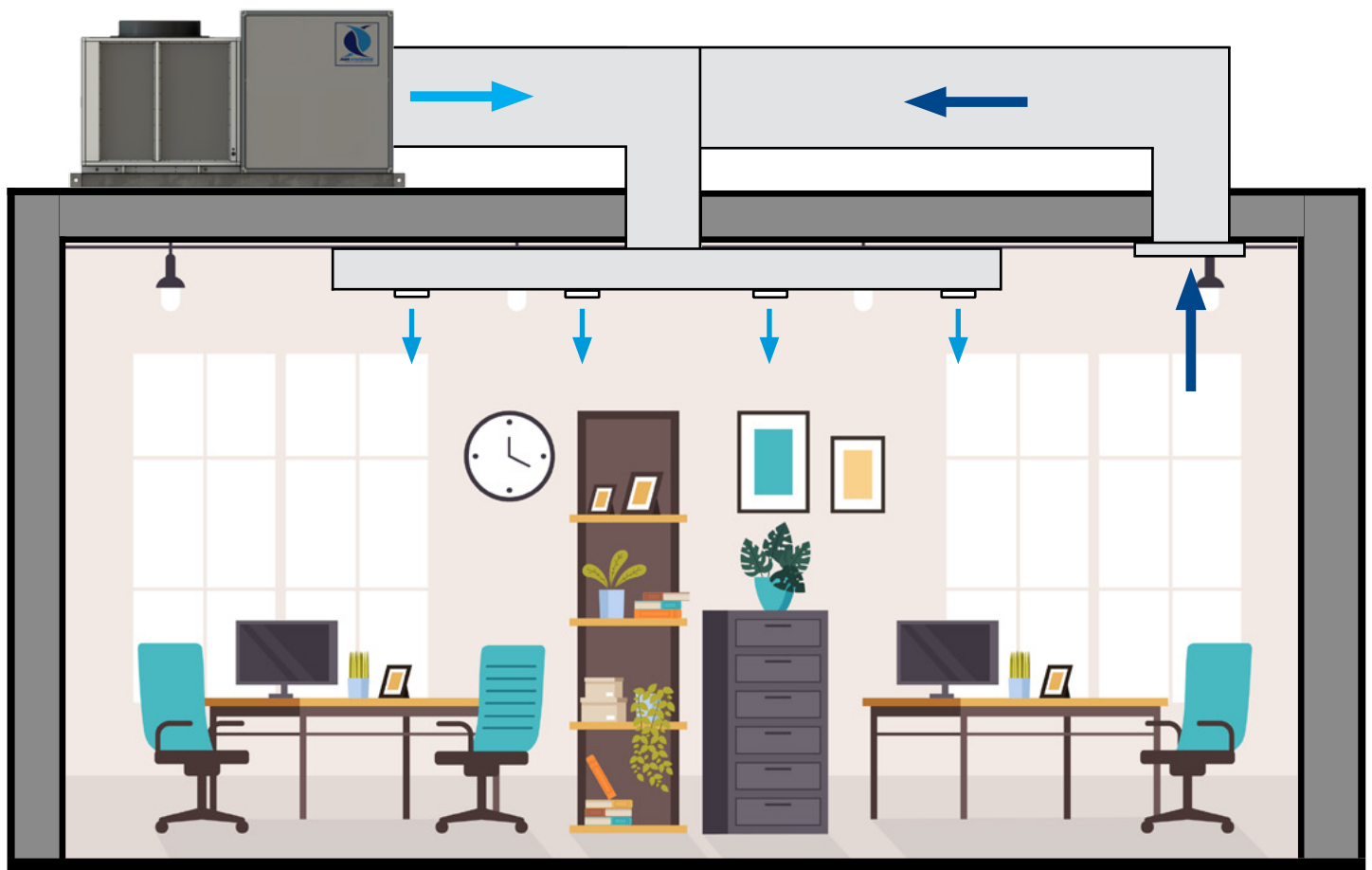




PH Range

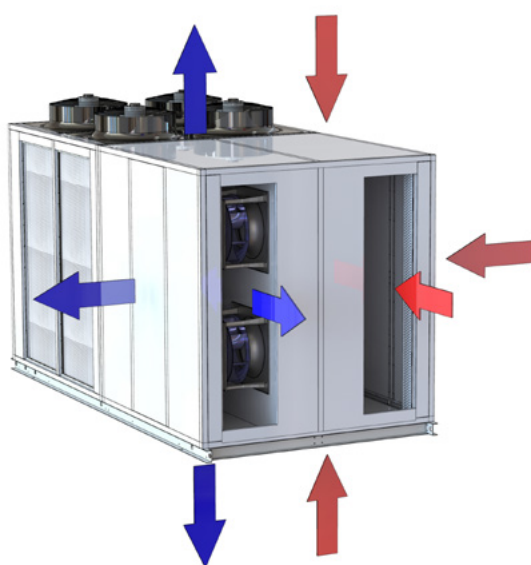
Air Cooled Packaged Units

How it Works

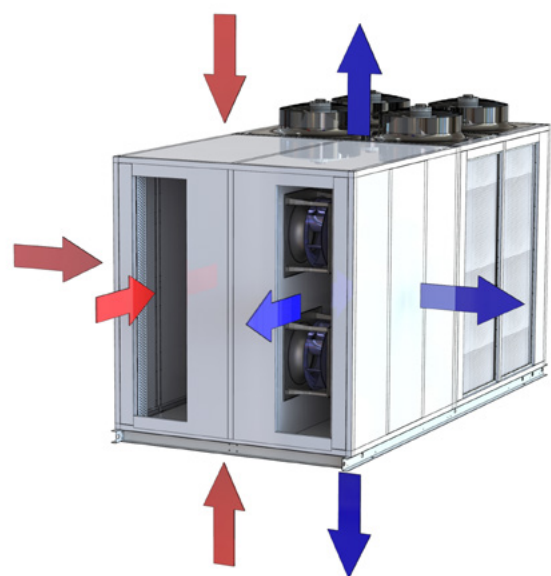


Flexible Duct Connections:

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

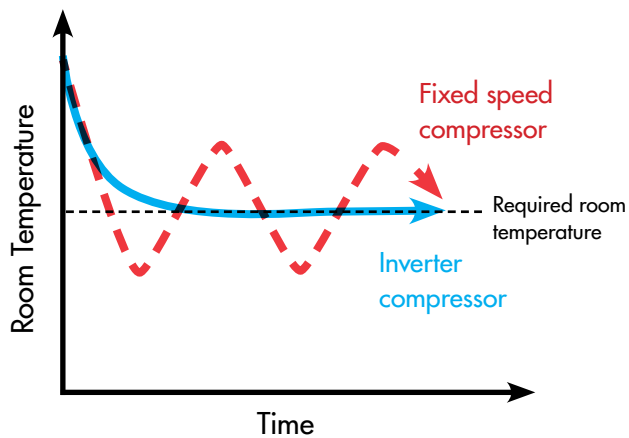


Standard Handing

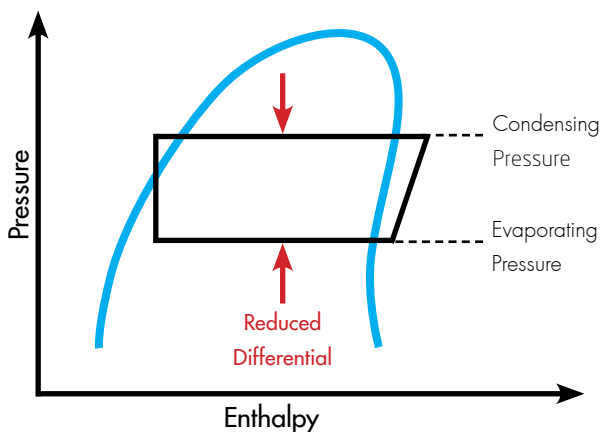


Reverse Handing

Features



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

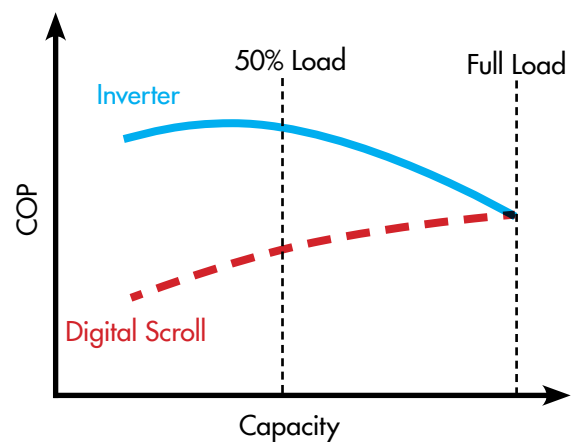


The reduced evaporating to condensing pressure differential during capacity turn-down of inverter compressors greatly improves efficiency.

BLDC Inverter Compressors

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.

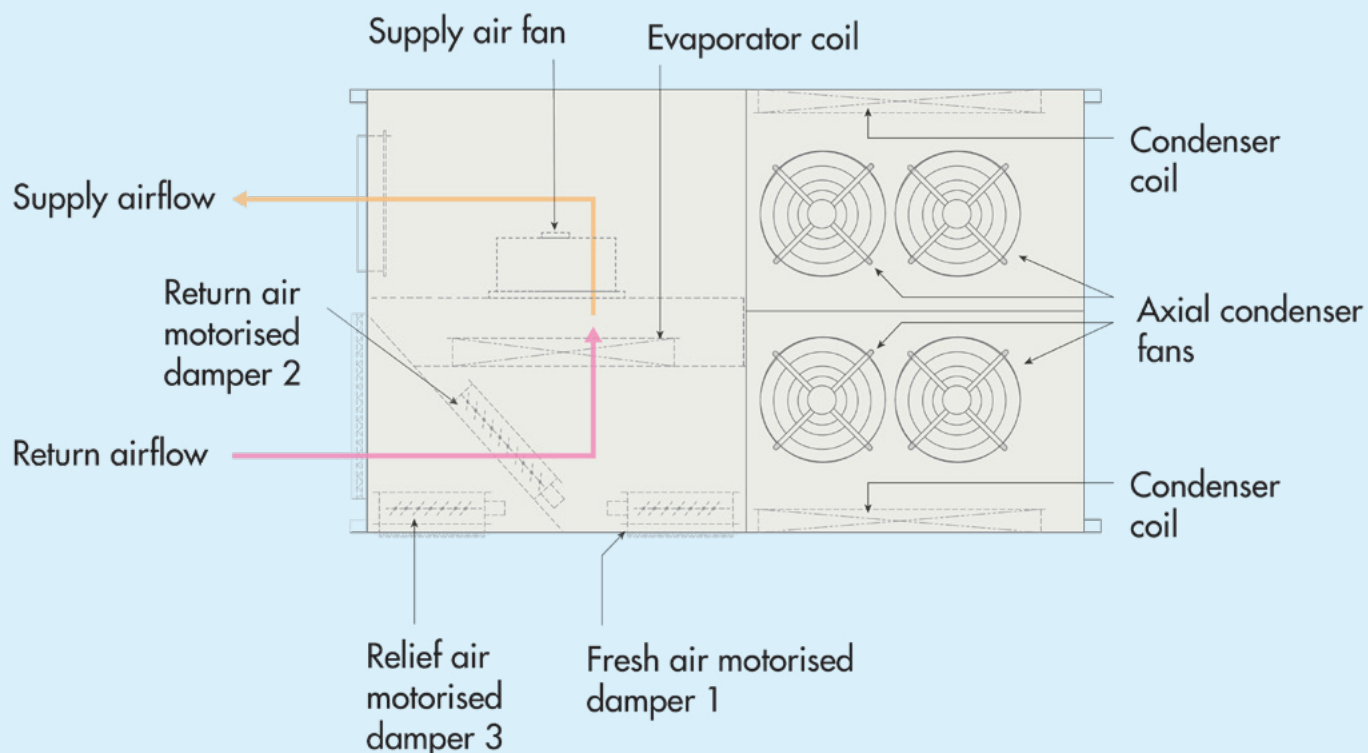
Variable capacity condenser fans provide head pressure control and increase the efficiency of the refrigeration circuit.



Economy Cycle (Option)

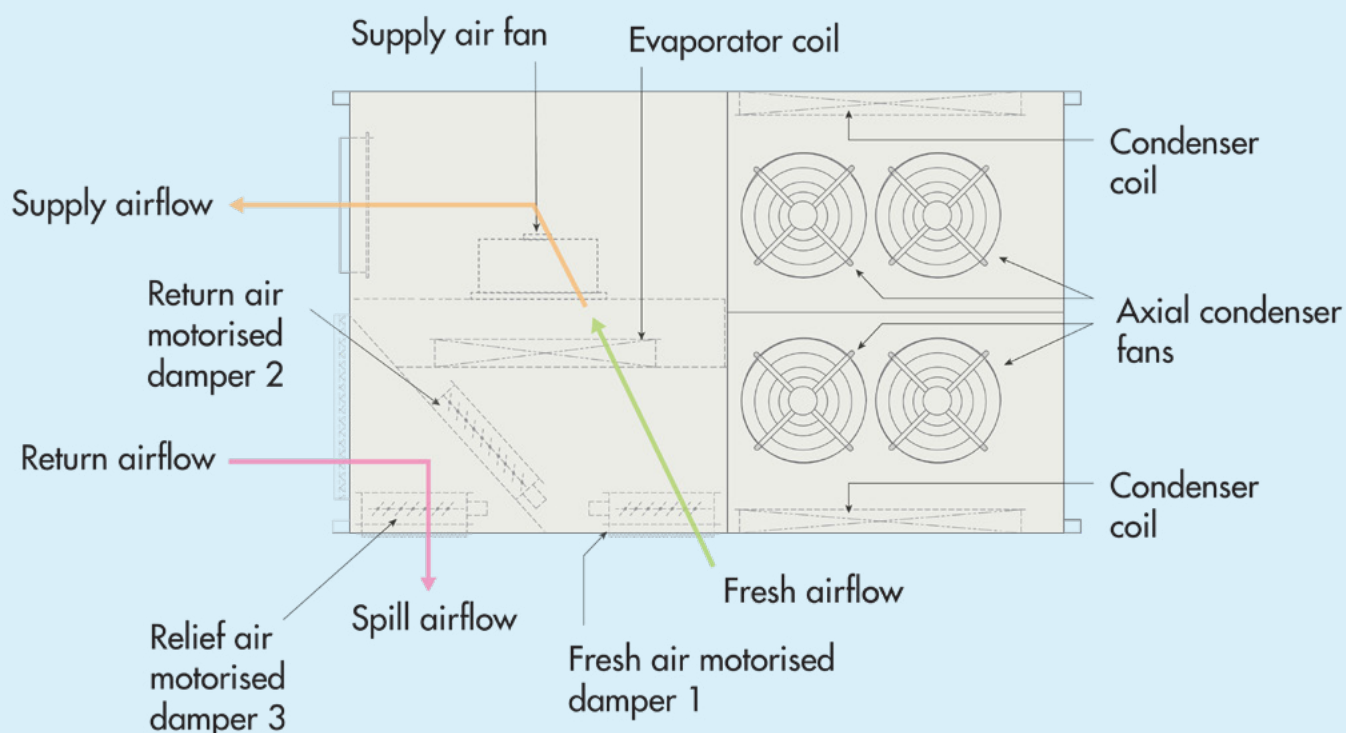
Normal Operation

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

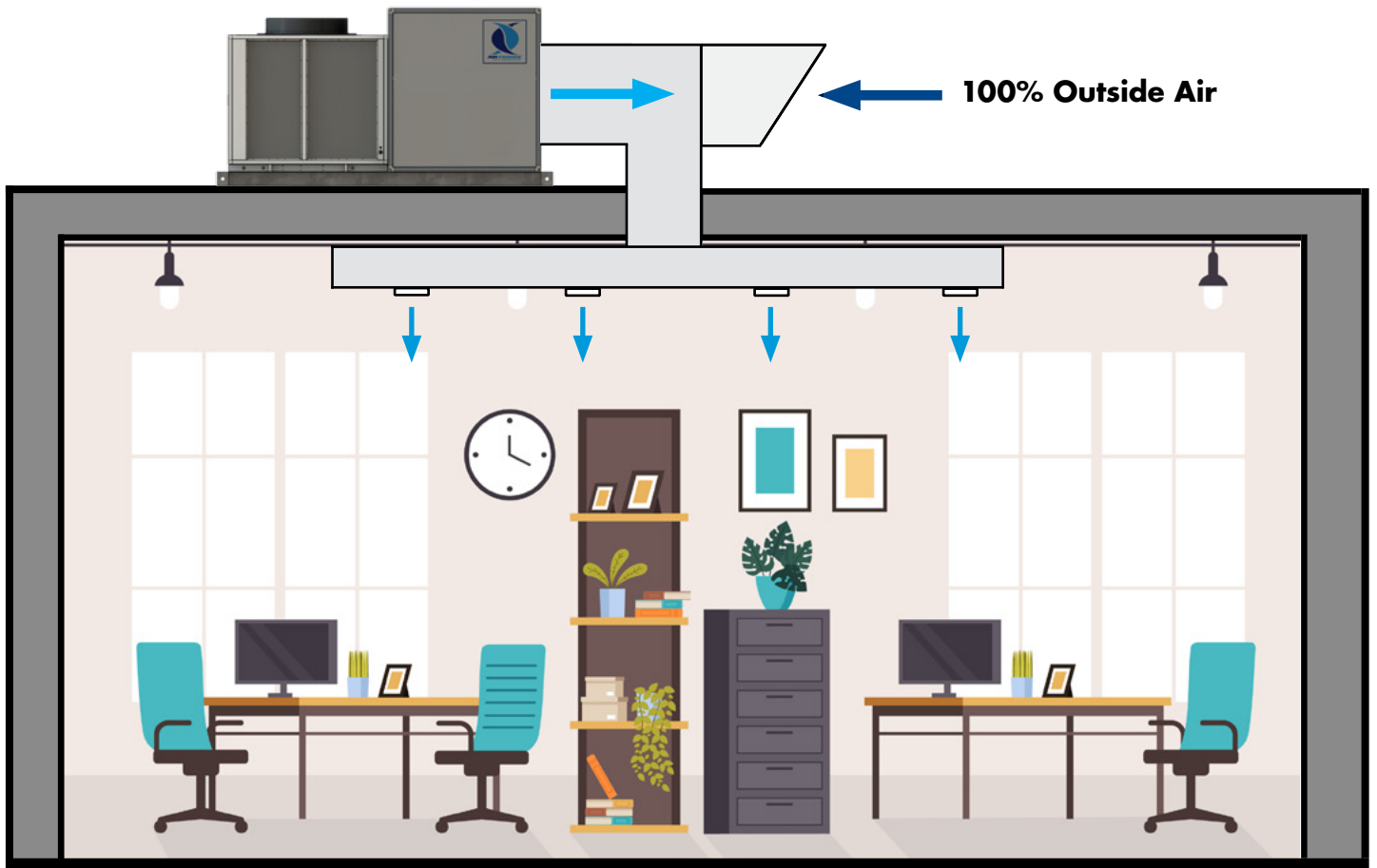


Economy Cycle Mode

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.

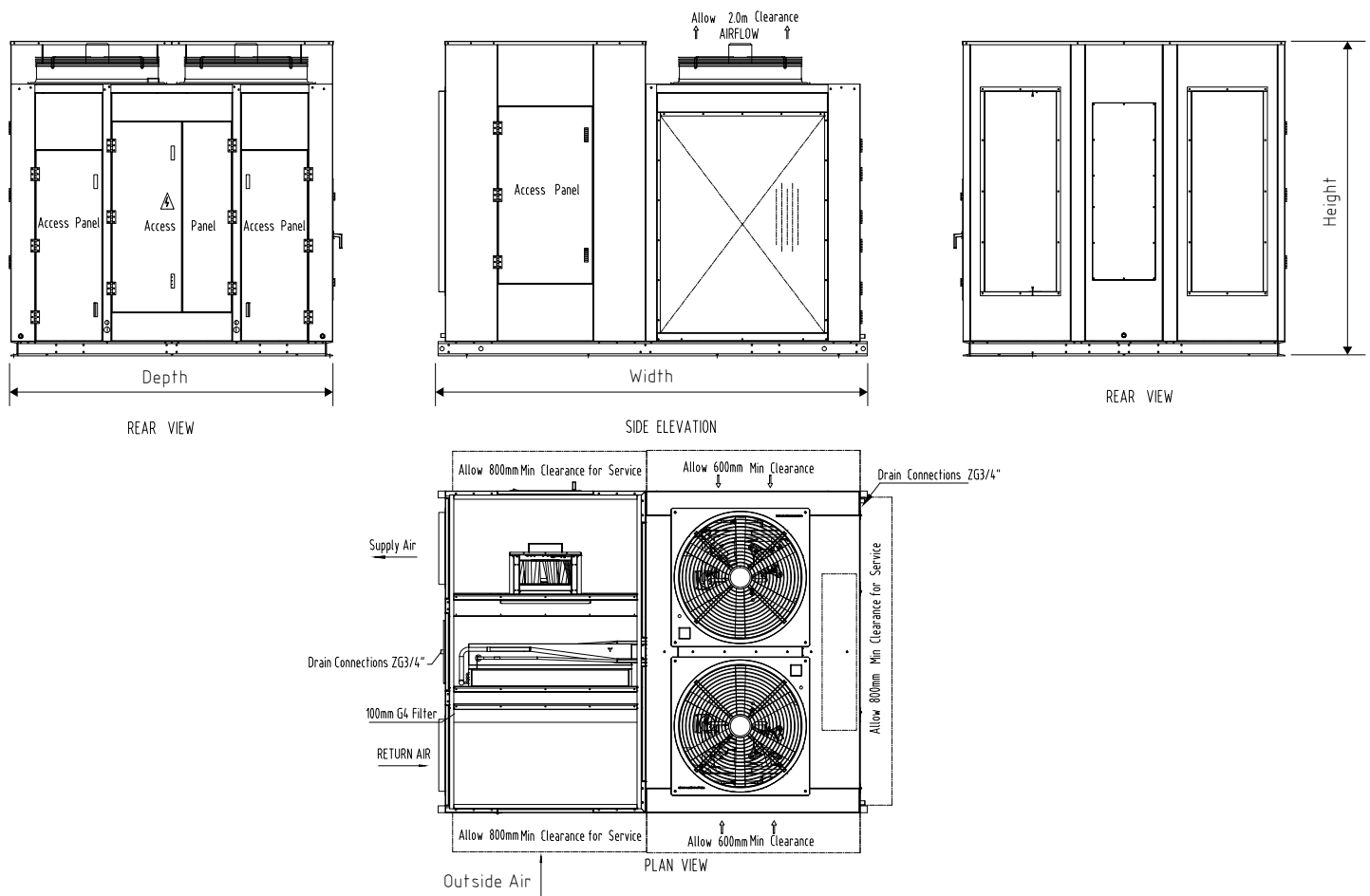
This provides a solution for outside air pretreatment or direct ventilation of indoor spaces.

Technical Data

PHS				PH				
Model Number:	10	20	30	40	60	80	100	>100
Capacity								Contact Air Change for details on larger units
Cooling (kW)	10	20	30	40	60	80	100	
Heating (kW)	13	26	39	52	78	104	130	
Airflow								
Outside Air	Up to 100%							
Nominal Supply Airflow (l/s)	550	1100	1700	2200	3300	4300	5500	
Power								
Power Supply (V / Ph / Hz)	415/3/50							
Full Load Amps (A)	14	22	29	31	47	66	82	
Compressors								
Compressor Type	BLDC Inverter							
Refrigerant	R410A or R32							
Fans								
Indoor Type	EC Plug							
Outdoor Type	EC Axial							
Overall Dimensions	All units are custom-made to suit individual projects, dimensions are indicative and subject to change							
Width (mm)	1630	1730	2100	2450	2550	2900	3300	
Depth (mm)	1700	1700	1900	2250	2250	2250	2250	
Height (mm)	1200	1400	1400	1600	1950	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.
- All units are custom-made to order and specification.



Contact Us

Air Change Australia

New South Wales (Head Office)

11 Broadhurst Rd, Ingleburn NSW 2565

Phone (02) 8774 1400

Email sales@airchange.com.au

Queensland

Unit 3, 78 Logan Rd,
Woolloongabba QLD 4102

Phone (07) 3414 3942

Email sales.qld@airchange.com.au

Victoria

Level 17, Tower 4 Collins Square,
727 Collins Street, Melbourne VIC 3008

Phone 0455 068 132

Email sales.vic@airchange.com.au

Australian Distributors

South Australia & Northern Territory

Industrial Air

14 Princess St, Beverley SA 5009

Phone (08) 8354 0088

Email info@industrialair.com.au

Website www.industrialair.com.au

Western Australia

Industrial Air

24 Wynyard St, Belmont WA 6104

Phone (08) 9418 2448

Email lenny@industrialair.com.au

Website www.industrialairwa.com.au

Air Change South East Asia

Malaysia

No 61, Jalan i-Park 1/1
Perindustrian i-Park 81000 Bandar
Indahpura, Johor

Phone (+60) 7662 6299

New Zealand Distributors

Cooke Industries

31 Station Rd, Penrose, Auckland 1061

Phone +64 (0)9 579 2185

Email sales@cookeindustries.co.nz

Website www.cookeindustries.co.nz

South East Asian Distributors

Thailand

Synergine (Thailand) Co.Ltd

18/6 Sukhumvit 22
Sukhumvit Rd, Khlong Toey
Bangkok 10110

Phone (+66) 851487312

Email w.manprasit@synergine.com.hk

Indonesia

PT Smart Chiller Systems

CEO Suites, One Pacific Place Tower
15th Floor, Jl. Jen. Sudirman Kav. 52-53
12190 Jakarta

Email mp@smartd-indonesia.com

Phone (+62) 21 2550 2413

Singapore

Energy Supplies & Engineering (S) Pte Ltd

61 Bukit Batok Crescent, #03-07B Heng
Loong Building, Singapore 658078

Contact 1- Desmond Tan

Email desmond@esengrg.com

Phone (+65) 9736 9956

Contact 2- Andrew Nah

Email andrew@esengrg.com

Phone (+65) 9771 8186



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.

www.airchange.com.au

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Multi Award Winning Technology

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AIRAH "Product of the Year" Winner 2017
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