PH Range

Air Cooled Packaged Units

AIR CHANGE
DOAS & DEHUMIDIFICATION

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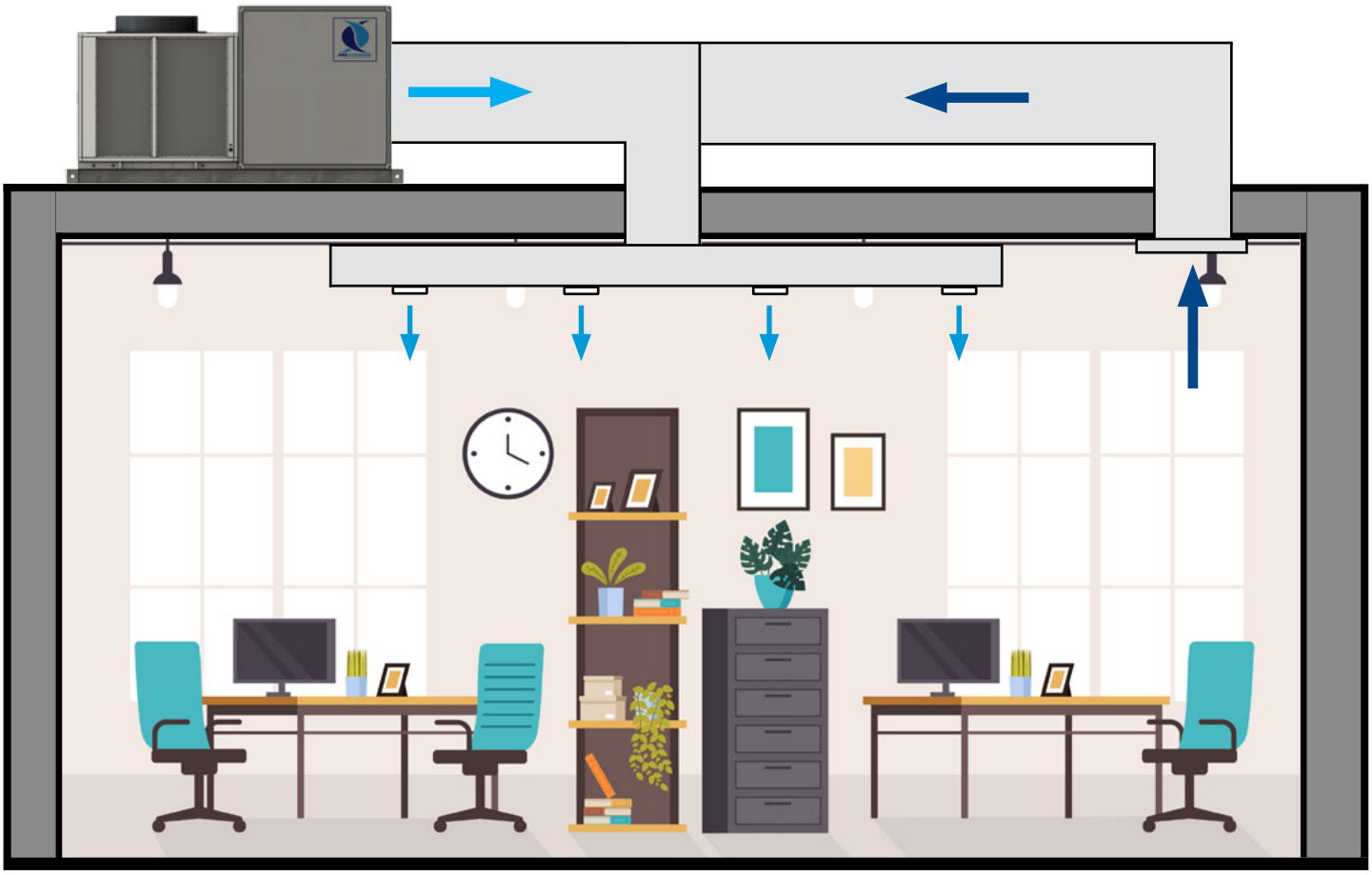
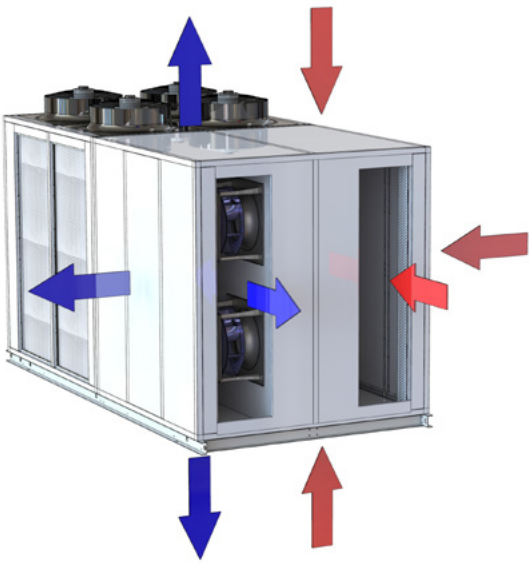
How it Works

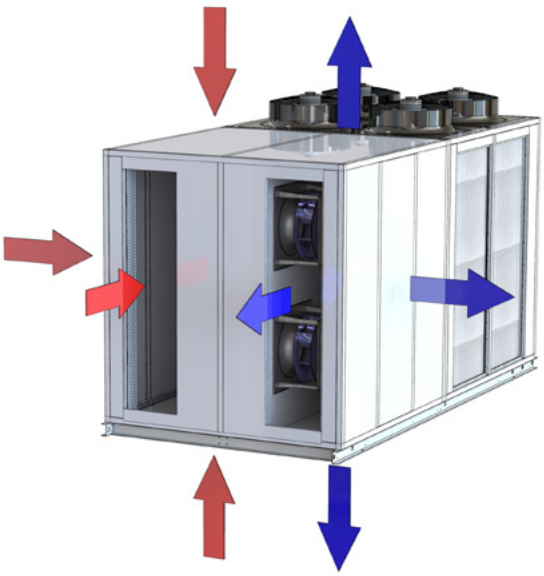


Flexible Duct Connections:

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



Standard Handing



Reverse Handing

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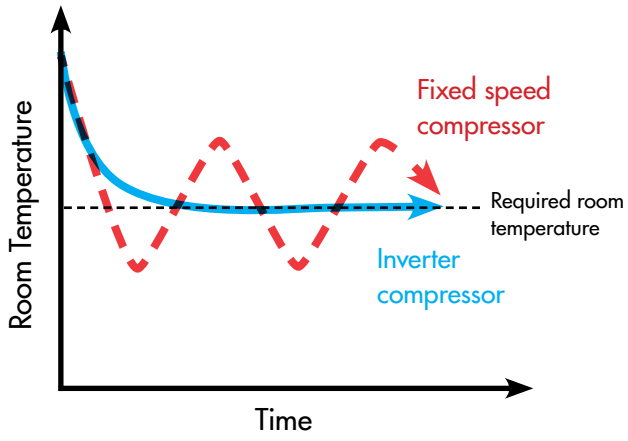
Features

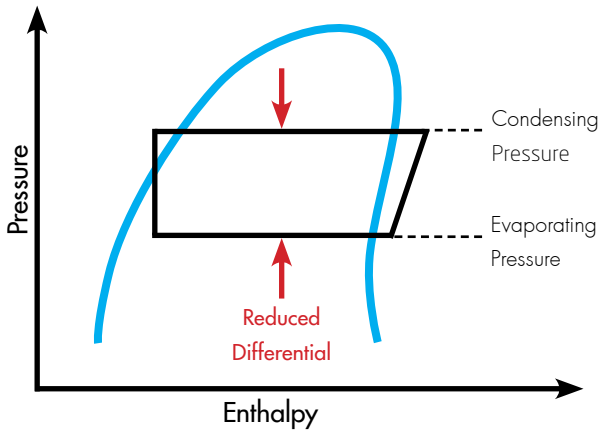


Smooth and steady control of room temperature achieved by inverter compressors.

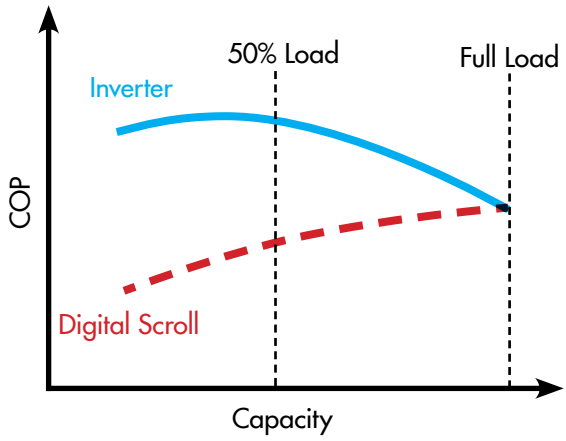
BLDC Inverter Compressors (Option)

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



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



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

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Features

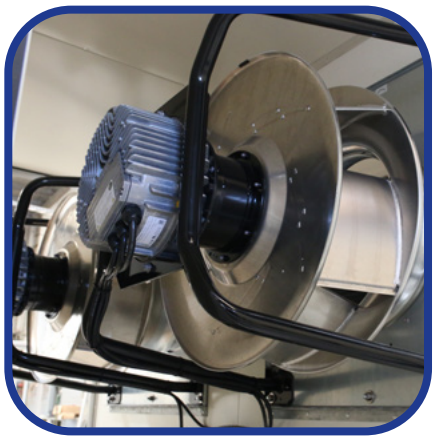
Economy Cycle Dampers (Option)

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.



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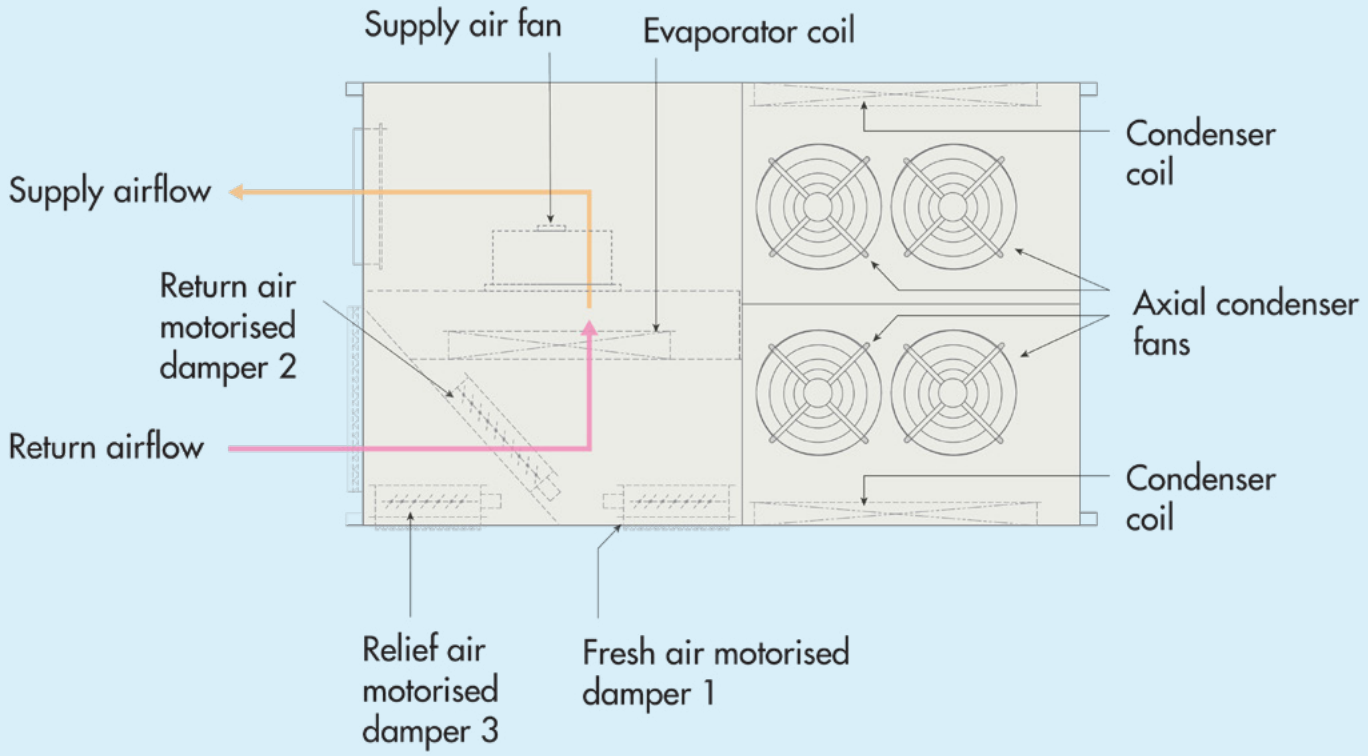
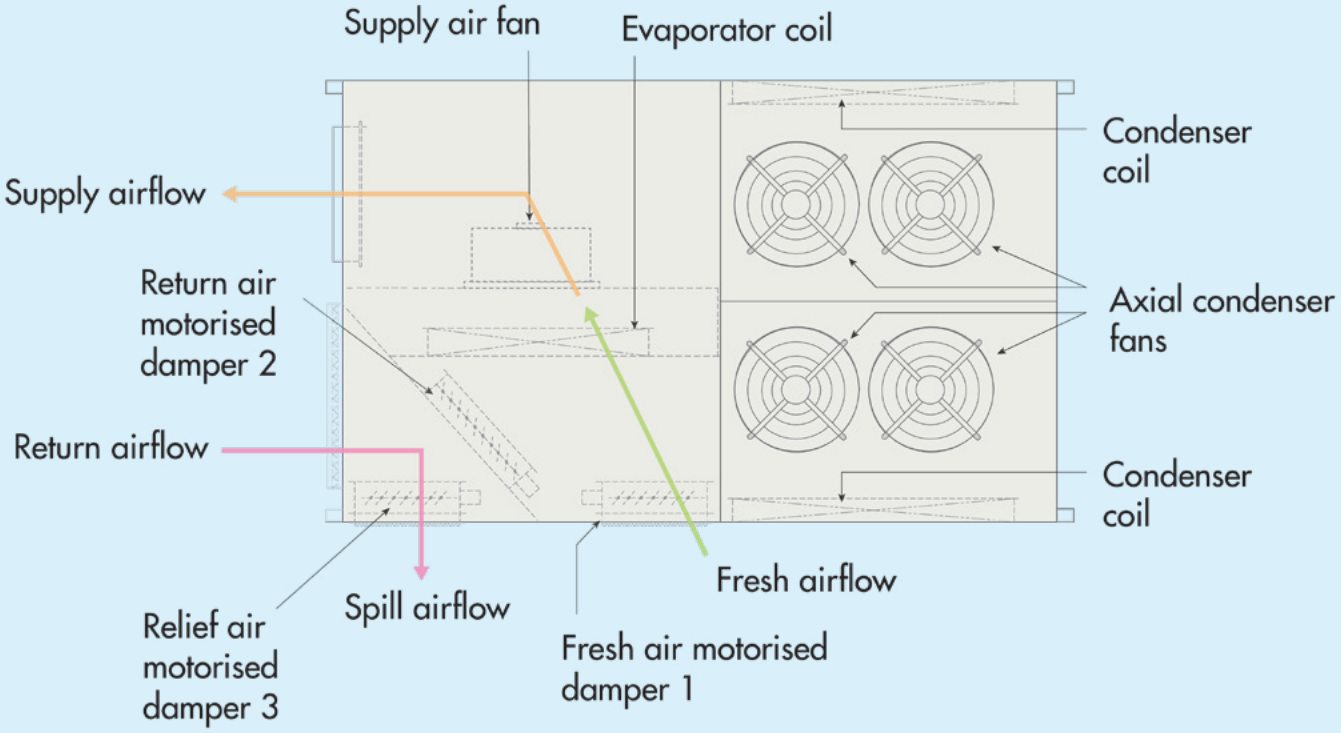
Economy Cycle (Option)

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



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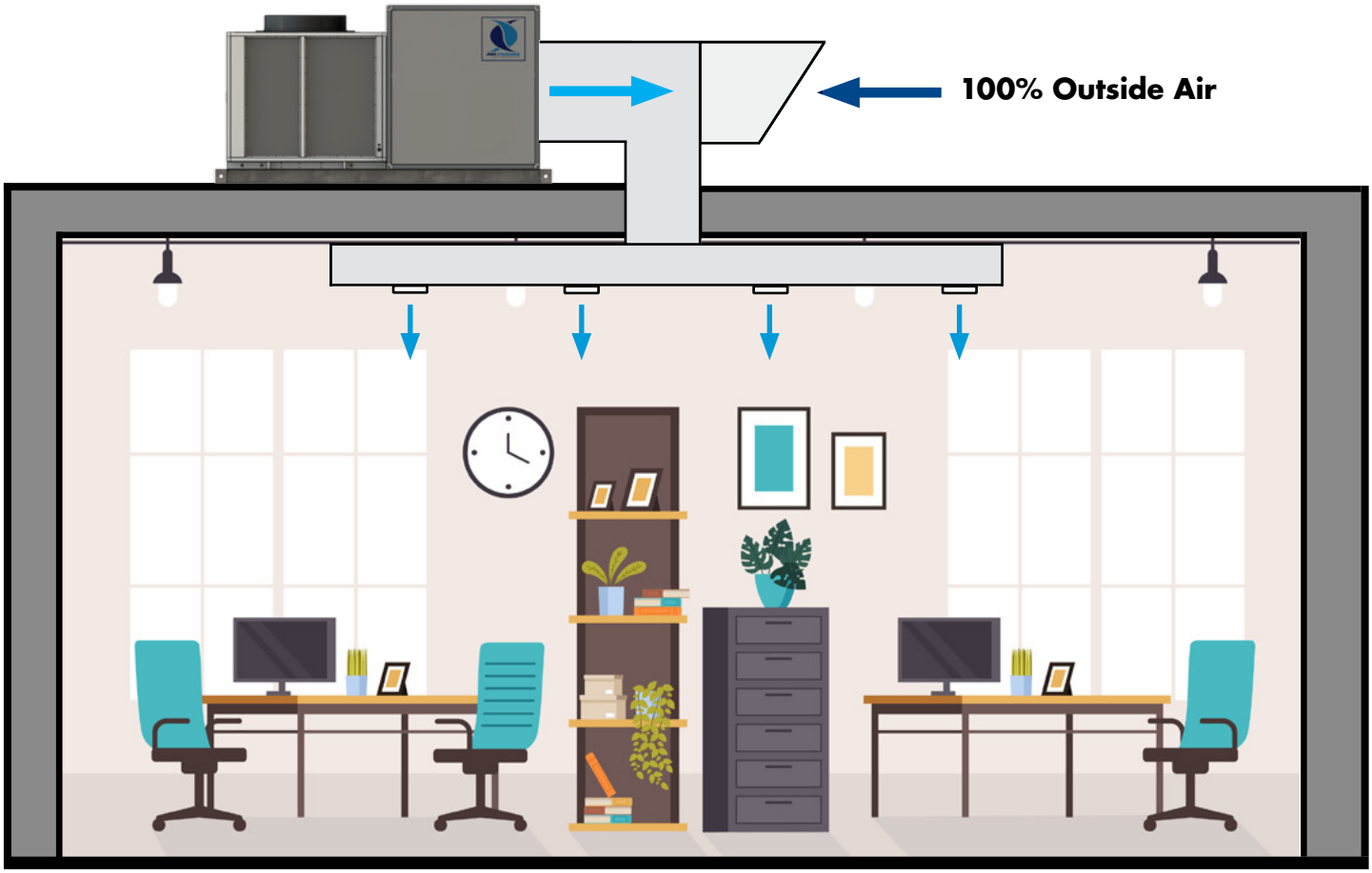
100% Outside Air Conditioning (Upgrade)



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.

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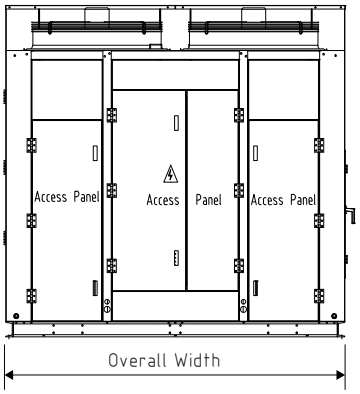
Technical Data

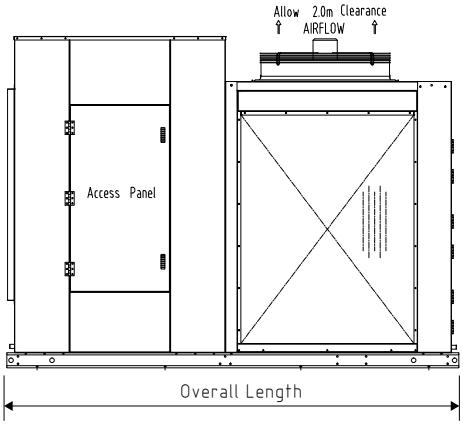
	PHS							PH					
Model Number:	**10**	**15**	**18**	**20**	**25**	**30**	**35**	**40**	**45**	**56**	**80**	**100**	**>100**
Capacity													
Total Cooling (kW)	9.3	14.8	17.1	20.5	23.8	30.6	34.8	39.1	44.6	55.1	80.4	102.2	
Sensible Cooling (kW)	8	13	14.4	16.3	19.1	24.9	28.3	31.5	36.4	44.5	65.5	82.9	
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													Contact Air Change for details on larger units
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:

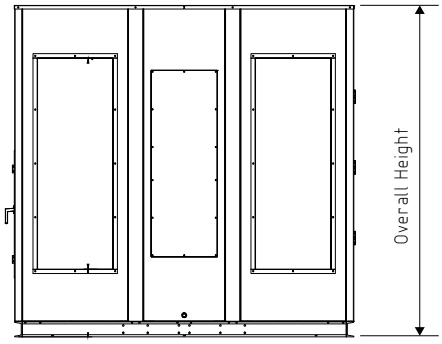
- Tech data is subject to change. Refer to project certified documentation for finalised details.
- Cooling capacity based on: OA 35/24°C, RA 27/19°C. Heating capacity based on: OA 7°C, RA 20°C.



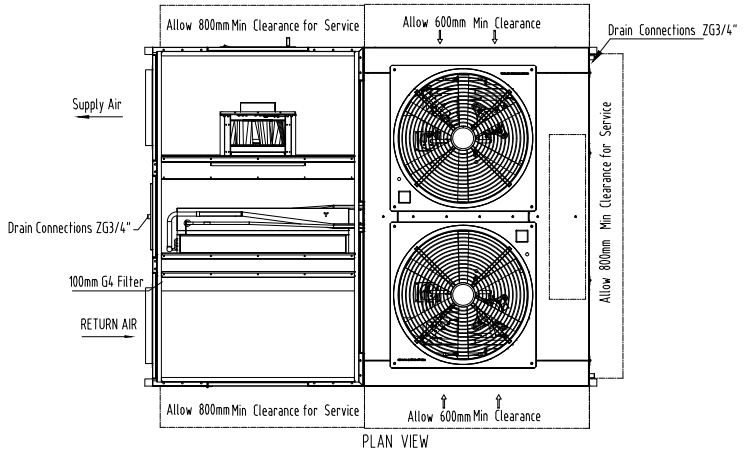
REAR VIEW



SIDE ELEVATION



REAR VIEW



PLAN VIEW

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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) 3891 1974
Email sales.qld@airchange.com.au

Victoria

Suite 3A, 529 Burwood Rd, Hawthorn VIC 3122
Phone (03) 9482 1010
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
Unit 17, 16 Sustainable Ave, Bibra Lake WA 6163
Phone (08) 9418 2448
Email paul@industrialair.com.au
Website www.industrialairwa.com.au

North Queensland

Capricorn Air Conditioning
13 Mackley St, Garbutt QLD 4814
Phone (07) 4775 5222
Email sam2@capaircon.com.au

Tasmania

Major Air - Launceston
76 York St, Launceston TAS 7250
Phone (03) 6344 6888
Website www.majorair.com.au

Major Air - Hobart
Unit 2, 10 Lampton Ave,
Derwent Park TAS 7009
Phone (03) 6273 6455
Website www.majorair.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@smardt-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

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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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