DAIKIN APPLIED (UK) LTD

AIR CONDITIONING UNITS FOR LARGE SPACES

VERTICAL AND SPACE COOLER & HEATER



Nominal Capacity
Up to **30 kW**

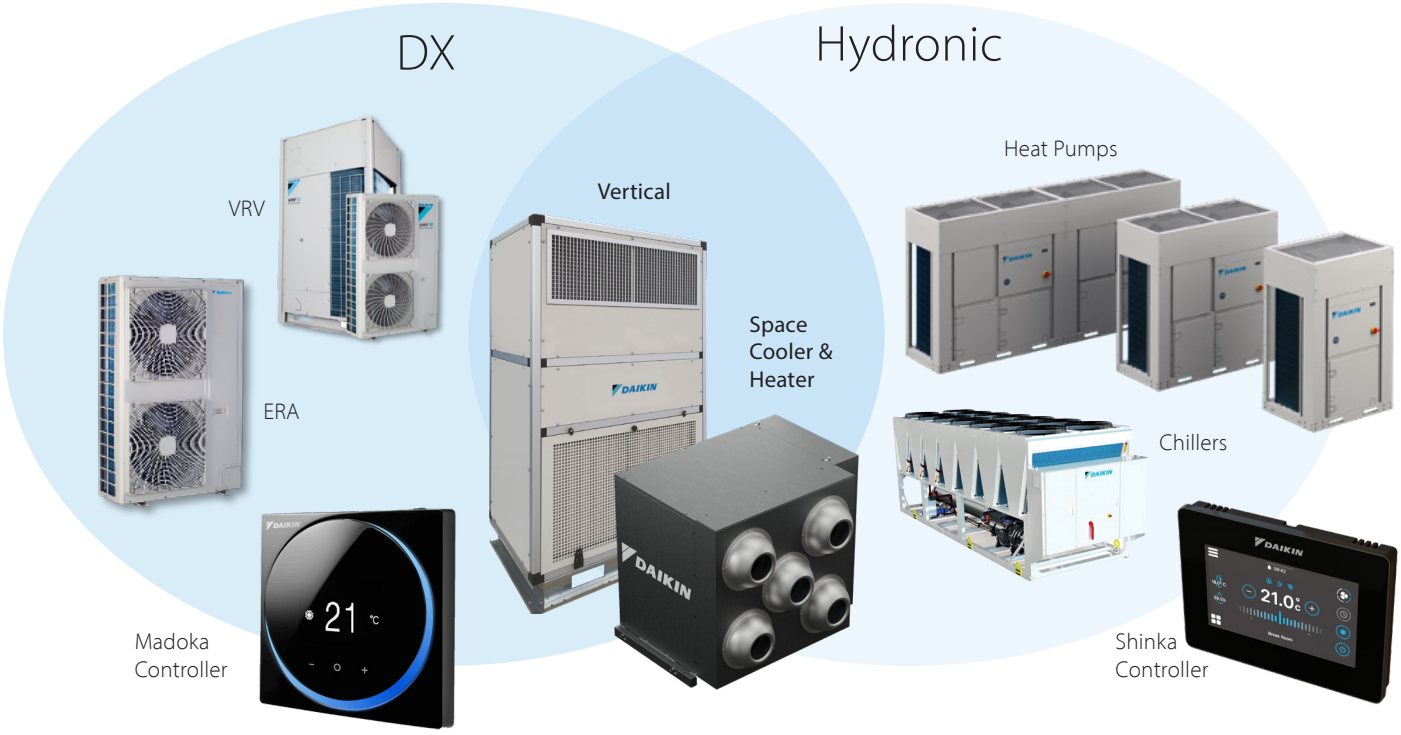
- AHUs
- Chillers
- Service
- Rentals
- Spares

Applied HVAC specialists for complex, large scale projects
Manufacturing AHUs, Chillers, and Heat Pumps for HVAC systems in the UK
Formerly McQuay

Choose the right solution for your building

Flexible system integration

Heating and cooling large spaces such as warehouses, logistics centers, manufacturing facilities, workshops and sports venues requires more than simply matching thermal capacity. High ceilings, large air volumes and obstacles such as racking systems or machinery can make uniform air distribution challenging. Daikin Vertical and Space Cooler & Heater represents the new Daikin solution for air conditioning of large spaces. They are available in both DX and Water configurations, offering flexible integration with VRV, ERA, chiller or heat pump systems for both new-build and retrofit projects.



Main benefits

Ideal for retrofit projects, it enables fast installation with minimal disruption, integrating seamlessly into existing buildings without major modifications.

Reducing carbon emissions while achieving sustainability goals without relying on a traditional boiler.

Flexible installation options: versatile floor, wall, or ceiling-mounted configurations adapt seamlessly to different spaces and building requirements.

Available in DX and water version, compatible with all type of systems.

High energy efficiency: advanced Daikin technologies optimise performance across varying load conditions, reducing energy consumption and lowering operating costs.

Effective year-round comfort: powerful heating and cooling performance ensures consistent indoor comfort and reliable temperature control throughout every season.

Technical data

AAB - SPACE COOLER & HEATER + AVB - VERTICAL DX

		AAB25UA*D	AAB25UA*W	AVB25***D	AVB25***W
Nominal air flow	m³/h	4200	4200	4000	4000
Min air flow	m³/h	2500	2500	2000	2000
Max air flow	m³/h	5100	5100	5000	5000
Cooling capacity	kW	28.0 [1]	28.5 [3]	28.0 [1]	29.2 [5]
Heating capacity	kW	31.5 [2]	31.5 [4]	31.5 [2]	32.5 [4]
Lenght	mm	1240		1170	
Depth	mm	1060		750	
Height	mm	1100		1950	
Electrical data	Voltage	400V		400V	
	Phase	3ph		3ph	
	Frequency	50-60 Hz		50-60 Hz	

1. Return air: 27°C DB / 19°C WB. Outdoor air: 35°C DB.
2. Return air: 20°C DB. Outdoor air: 7°C DB / 6°C WB.
3. Water temperature: 7°/12°C. Return Air: 27°C 50%.
4. Water temperature: 45°C/40°C. Return Air: 15°C 70%.
5 Water temperature: 7°/12°C. Return Air: 29°C 50%.

Outdoor unit combination

Range		VRV4	VRV4	VRV5	ERA
Model		RYYQ10U	RXYSQ10TY1	RXYSA10A	ERA250AYF
Capacity	HP	10	10	10	10
Cooling capacity	kW	28	28	28	28
Heating Capacity	kW	31,5	31,5	31,5	31,5
SEER		6,8	6,3	6,9	7,3
SCOP		4,3	4,1	4,4	4,5
Refrigerant		R-410A	R-410A	R-32	R-32
Sound power level	dB(A)	79	76	74	74

Suggested heat pump combination

Model – Small Inverter Chiller		EWYE035 CZP-A1	EWYE060 CZP-A2	EWYK030 CZ P-A1	EWYK060 CZ P-A2
Cooling capacity [1]	kW	25.7	46.9	24.9	51.8
SEER [2]		4.66	4.42	5.25	5.21
Heating Capacity [3]	kW	34.3	59.6	30.2	58.7
SCOP low temperature [4]		4.38	3.87	4.68	4.52
Refrigerant		R-454C	R-454C	R-290	R-290
Sound power level [5]	dB(A)	83	86	84	88

1. Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C.
2. Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
3. Standard Rating Conditions for Air to water heat pumps according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 7°C at sea level; Indoor heat exchanger inlet water temperature 40°C, outlet water temperature 45°C.
4. Seasonal Coefficient of performance as defined in EN14825, part load condition in heating for Air-to-Water units, Low temperature application, variable outlet, variable flow.
5. Sound power level measured in accordance with ISO9614, according to EN14511:2 for cooling only mode water IN/OUT 12/7°C and 35°C Amb, full load operation and for heating only mode water IN/OUT 40/45°C and 7°C Amb, full load operation.

Daikin Vertical

Compact floor-standing comfort



The Daikin Vertical is a compact floor-standing solution designed for flexible system integration, simplified installation and reliable year-round comfort. Ideal when ceiling installation is not possible or practical, Daikin Vertical units fit easily into available spaces while minimising structural modifications, installation time and costs, making them particularly suitable for retrofit projects as well as new-build applications.

Key features

Nominal airflow:
4,000 m^3/h.

Heating capacity:
Up to 31.5 kW.

Cooling capacity:
Up to 28 kW.

Floor-standing installation.

Plug & Play installation:
Ready to perform from day one.

Flexible airflow configuration:
Designed to fit your application.

DX configuration

Maximum HVAC flexibility with VRV technology

Factory mounted **DX kit**



Hydronic configuration

Standard version with a **2-way water valve and modulating actuator**, factory-installed inside the unit

Shinka Controller for an advanced control interface

Hydronic & DX configurations

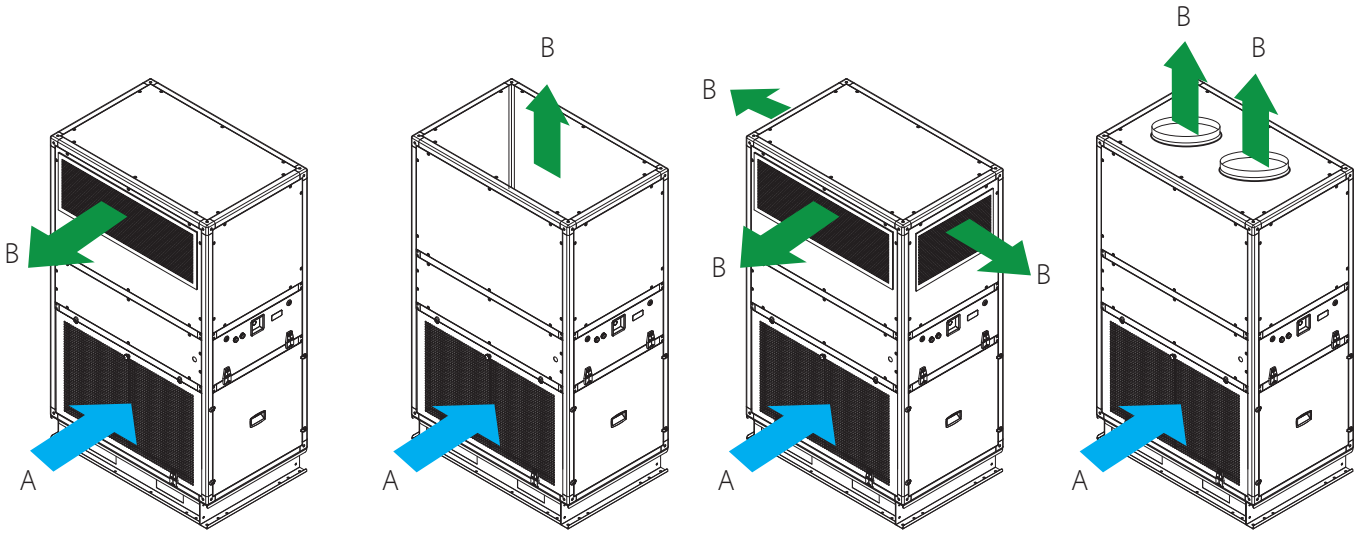
No ductwork, **lower installation costs**

Accurate temperature control year-round

Unit configuration

A: Return air

B: Supply air



Front grille (optional)

Base version (open top)

Front & side grilles (optional)

Circular spigots (optional)

Space Cooler & Heater

High-performance climate control for large spaces



Powerful air distribution and flexible wall- or ceiling-mounted installation ensure reliable, year-round comfort across large commercial, industrial, logistics and sports environments. By positioning the units above the operating area, valuable floor space remains completely free for activities, machinery, logistics routes and storage. High airflow and adjustable discharge nozzles ensure effective, targeted air distribution across large, high-ceiling spaces, improving both comfort and overall system efficiency.

Key features

Nominal airflow:
4200 m^3/h.

Air throw:
Up to 50 m.

Cooling capacity:
Up to 31 kW.

Wall or **ceiling mounted.**

Available with **air distribution nozzles to optimise airflow**, ensuring enhanced comfort. A supply air grille configuration is available, offering a cost-effective solution without compromising functionality.

Zero floor footprint:
Ideal for retrofit projects, the wall-mounted design preserves valuable floor space while enabling seamless integration into existing buildings.



Fully Integrated Daikin Solution:
In combination with the Daikin Small Inverter Chiller, delivering a complete and reliable hydronic system.

Advanced Control with Shinka:
Equipped with the Shinka Controller for intelligent system management, enhanced comfort, and optimised operation.

Flexible Water Flow Control:
Optional 2-way and 3-way water valves to meet different installation and system requirements.

Hydronic configuration



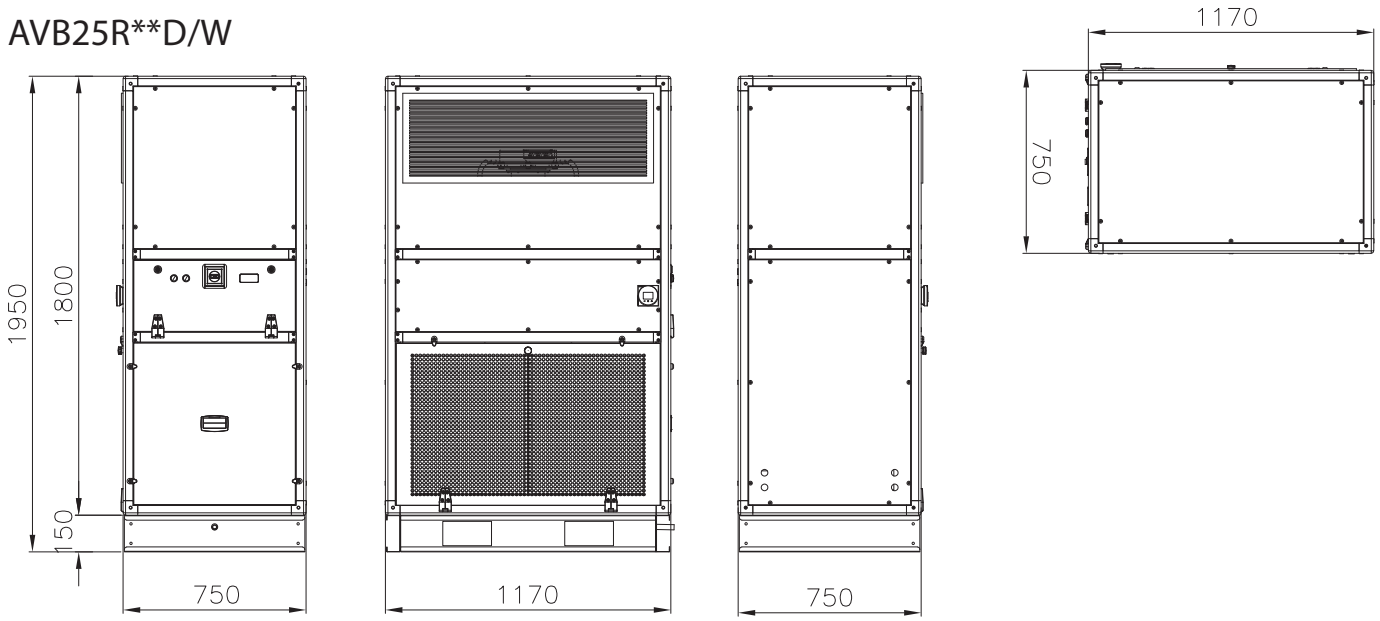
Fully Integrated Daikin Solution:
Seamless integration with Daikin VRV or ERA condensing units, offering a complete and reliable DX system.

Smart Control with Madoka:
Intuitive room thermostat for easy unit management, enhanced comfort, and intelligent operation.

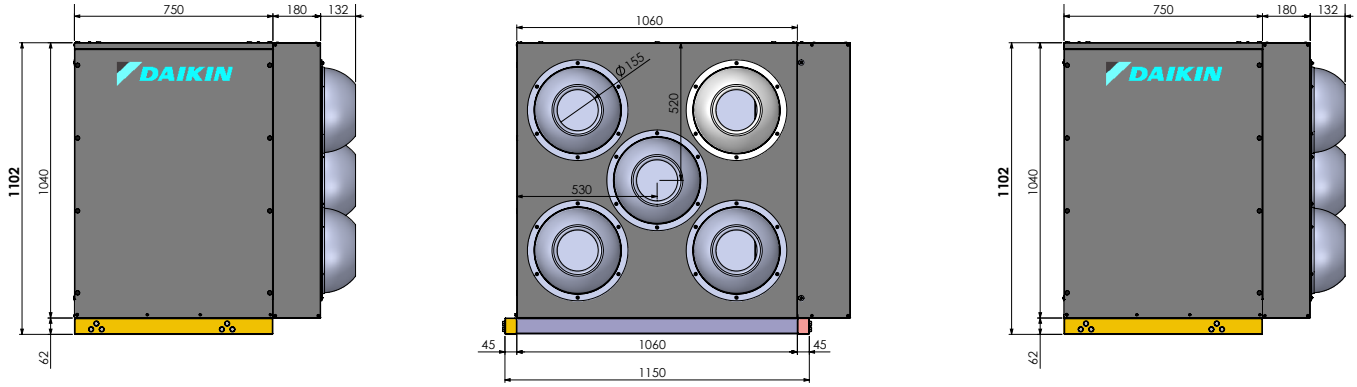
DX configuration

Factory-Installed DX Kit:
Pre-installed inside the unit to simplify on-site installation, reduce installation time, and ensure seamless system integration.

AVB25R**D/W



AAB25UAND/W



Accessories

Material	Description	Product	Version
AVA25FGA	Front panel with grille	Vertical	Water and DX
AVA25SGA	Side panel with grille (x2)	Vertical	Water and DX
AVA25TSA	Top panel with circular spigots	Vertical	Water and DX
ATV07CW2A	2way water valve	Vertical & Space Cooler and Heater	Water
ATV06CW3A	3way water valve	Vertical & Space Cooler and Heater	Water
ATE00AMVA	Modulating actuator for water valve	Vertical & Space Cooler and Heater	Water
SHINKATOUCHWA/BA	Shinka touch (white/black)	Vertical & Space Cooler and Heater	Water
BRC1H52W7/K7/S7	Madoka controller (white/black/silver)	Vertical & Space Cooler and Heater	DX
BRC1KPD51W/K	Madoka Plus controller (white/black)	Vertical & Space Cooler and Heater	DX

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