



DAIKIN Air Handling Unit Modular

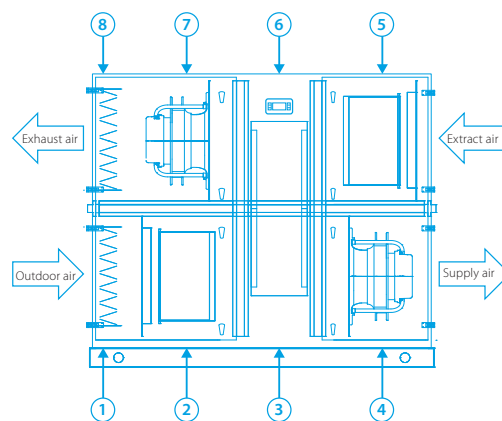


Compact ventilation unit with heat recovery

Energy efficiency and air quality

Daikin air handling units, with their plug-and-play design and inherent flexibility, can be configured and combined specifically to meet the exact requirements of any building, no matter what it is used for or who is to work there. Our systems are designed to be the most environmentally friendly and the most energy efficient on the market. This means they have a reduced ecological impact, while, at the same time, keeping costs down by minimising energy consumption.

When combined with the small physical footprint of the system, these features make our air handling units ideal for all markets.



Unit configuration :

1. Outdoor air damper
2. Filter supply
3. Heat recovery wheel
4. EC fan supply

5. Filter extract
6. HMI controls
7. EC fan exhaust
8. Damper exhaust

Efficient, economical and well balanced

Heat recovery solutions

They are not only modular and compact, the new series are extremely efficient and environmentally friendly too.

A rotary heat exchanger is supplied with the unit which ensures up to 85% temperature efficiency and up to 60% humidity efficiency.

A lifetime of savings

While investment and installation are important factors in the overall cost of an air handling unit, Modular series units are designed to minimise energy costs over their entire service lives. Features such as Constant Air Flow (CAV) or Pressure control (VAV), economy mode, night time operation and time scheduling all deliver considerable overall savings. Savings which ensure a rapid payback of the investment.

- › Air flow control by measuring at the inlet nozzle
- › Easy commissioning
- › Nominal air flow programmed at factory
- › Silent operation
- › premium efficiency motors with an IE4 rating
- › Eurovent certified.



Innovative and reliable technology

Unrivalled compatibility

Daikin's Modular series come in pre-defined sizes and are available as indoor or outdoor versions. This means that modular systems can be designed and installed in a variety of applications. And with an operating range of -25°C (-40°C with electric heaters) to +43°C, they are suitable for any European climate.

Daikin air handling units are wired at the factory and are also pre-commissioned, with each unit's software tuned and the set points already established. On site, all that is required is to plug the system into the power supply, connect any pipes and wires, and switch the unit on.

Like all Daikin air handling units, the Modular series are compatible with all common heating and cooling equipment. They are extremely user-friendly thanks to their full compatibility with ITM and all other Daikin equipment. In combination with Daikin chillers, ERQ and VRV condensing units, they offer a unique package assuring excellent heat recovery and indoor air quality, as well as high quality and reliability.

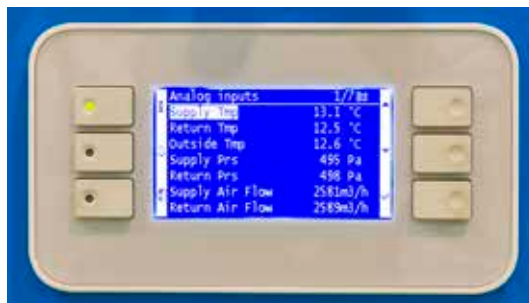
EC fan technology for greater operating efficiency
› Efficiency - IE4 motor efficiency level low power consumption

ASTRA Xpress selection tool

- › ASTRA Xpress offers a quick and accurate selection of the best AHU
- › Preset parameters will guide you to the optimum solution
- › High selection quality, thanks to the huge number of the pre-defined units embedded within the software.

Simple, quick installation

The series' Plug & Play design is more than just a convenient feature for installers. It also offers cost-saving benefits as there is no need for expensive adjustments before the unit is commissioned. Plug & Play makes everyone's life simpler, safer and more economical.



Always in full control

Optimal comfort

Intelligent control and monitoring

Intelligent Touch Manager II

Mini BMS with full integration across all product pillars.

- › Intuitive user interface
- › Direct access to indoor unit's main functions via touch screen or via web interface
- › Plug and play controls, Supply, Return or Ambient temperature control, CO₂ Air quality control

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems.

- › Interface for BMS system
- › Communication via BACnet protocol
- › Easy and fast installation
- › Monitoring - Easy monitoring through ITM II, Internet browser or through the ModBus or Bacnet communication module (Option).

In many conditions

Daikin's Modular series naturally have very well-insulated housings and high-performance heat recovery controls and components. In addition, smooth internal surfaces and a special noise reduction laminar straightener (NRLS), make them incredibly quiet in operation.

- › Variable Air Volume (VAV) and Constant Air Volume (CAV) system capability
- › Quieter unit - Thanks to the Noise Reduction Laminar Straightener accessory NRLS



D-AHU			1	2	3	4	5	6	7	8	9	10
Airflow		m ³ /h	1,200	1,700	2,700	4,100	5,500	6,100	7,000	9,100	11,500	15,000
Temp. efficiency winter		%	81.3	81.1	81.4	81.6	82.6	81.2	82.7	81.4	81.5	83.2
External static pressure	Nom.	Pa	200	200	200	200	200	200	200	200	200	200
Current	Nom.	A	2.66	3.90	6.30	2.98	4.00	4.74	4.76	5.54	8.72	10.2
Power input	Nom.	kW	0.62	0.89	1.50	1.98	2.68	2.96	3.30	3.76	5.48	7.04
SFPv		kW/m ³ /s	1.87	1.89	1.99	1.74	1.75	1.75	1.70	1.49	1.72	1.69
Electrical supply	Phase	ph	1	1	1	3+N	3+N	3+N	3+N	3+N	3+N	3+N
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
	Voltage	V	230	230	230	400	400	400	400	400	400	400
Dimensions unit	Length	mm	1,700	1,700	1,800	1,920	2,080	2,280	2,400	2,450	2,280	2,400
	Depth	mm	720	820	990	1,200	1,400	1,400	1,600	1,940	1,940	2,300
	Height overall	mm	1,320	1,320	1,540	1,740	1,740	1,920	1,920	2,180	2,460	2,570
Weight unit		kg	325	350	475	575	750	790	950	1,330	1,410	1,750
Sound level		Lp dB(A)*	40	42	42	45	46	44	43	43	45	45

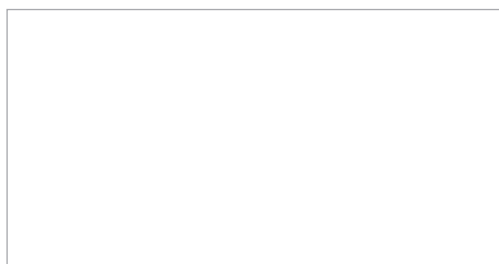
* Sound pressure level radiated from unit at 1 meter and according to ISO 3744 (supply outlet ducted)



Norms and standards.
DAIKIN Air Handling Unit
Modular is compliant
with:

- › EN 1886:2007
- › EN 13053:2011
- › EN 13779:2007
- › VDI 6022-1:2011
- › EN 15251:2007
- › EN 308:1997

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