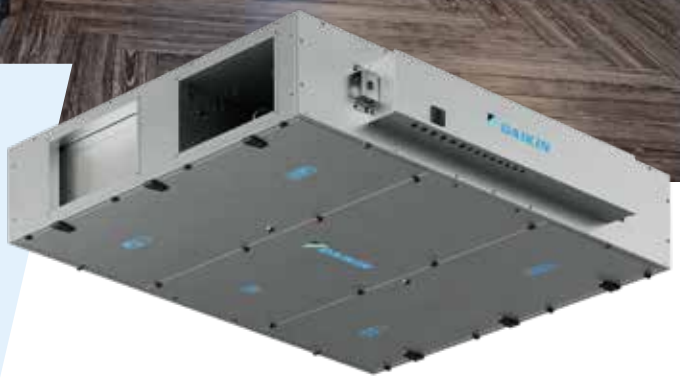
COMPACT L

HEAT RECOVERY UNIT



Decentralised ventilation solution for an outstanding indoor air quality

The range in numbers

2 product versions **6** sizes **100+** accessories **6** key benefits

Operating range

	Min	Max
Outdoor air temperature	-38°C	46°C

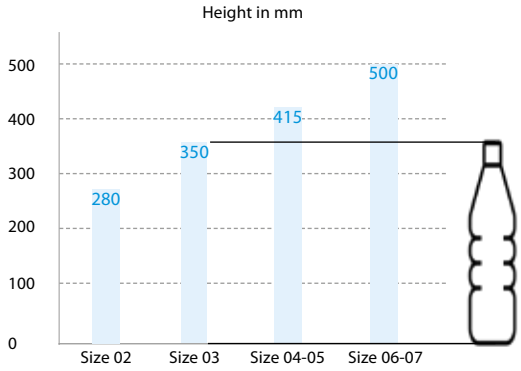
Product overview

Fresh air · Replacement technology · Plug and play · Lower CO_2 footprint · Heat recovery · Energy saving during operation · Certified system · Ceiling installation

The **Daikin Compact L range** is a Heat Recovery unit for false ceiling application , no installation space is required on the floor, with an optimized design for a reduced footprint.
It is available in six sizes, ranging from 150 to over 4000 cubic meters per hour. The Daikin Compact L offers a decentralized plug and play ventilation solution ideal for offices, restaurants, schools, and light commercial applications with a quick and easy installation and unit start start-up.
It is also **Eurovent and VDI6002 certified**. Compact L has outstanding airflow management, operating in either Constant Air Volume (CAV) or Variable Air Volume (VAV) modes for a high efficiency ventilation solution and low operating cost.

6 key product benefits

1 **Compactness.**
Designed with an extremely low height, ranging from just 280mm for Size 02 to 500mm for Size 07. It is suitable for the most limited spaces and is an excellent choice for projects where a compact unit is required.



Up to 1000 m^3/h at 350 mm, Size 03 has the height of a 1,5 L bottle, but Size 02 is even more lower.

2 **Indoor Environmental Quality impact**
By provinding outdoor fresh air with a double filtration stage on supply and return sides, Compact L ensures a healthy and safe environment. Water, DX, and electric coils, available as accessories, allow for the control of humidity levels and ambient temperature, improving Indoor Environmental Quality.

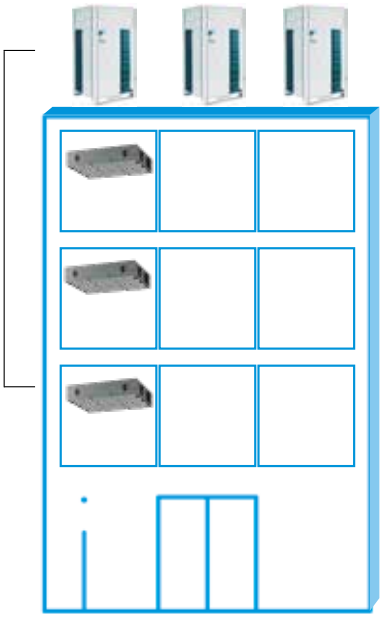
3 Certified design.
This range features Eurovent certification for the AHU program and is certified for the hygienic standard VDI6022 by a third party laboratory. Moreover, Compact L contributes to scoring points in several categories for the LEED, WELL, and BREEAM green building protocols.

Eurovent Classification According to EN 1886		
Thermal bridging factor	TB2	TB2
Thermal transmittance of casing	T3	T3
Casing mechanical strength	D1	D1
Casing air leakage	L2/L2	L2
Filter bypass leakage	ePM1 80% (F9)	F9

4 **Adaptability & Scalability.**

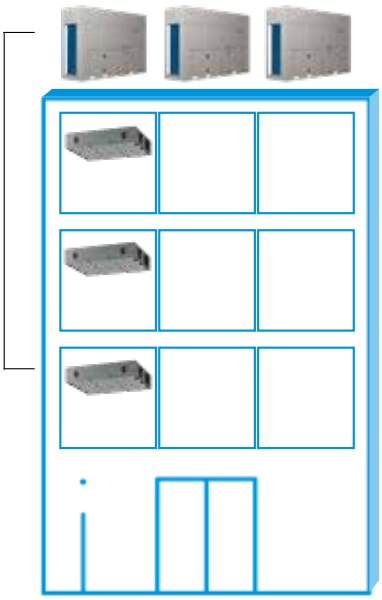
This unit can meet different project requirements thanks to its wide range of accessories, which can be selected according to specific needs. Compact L has a flexible design that allows it to be used in both DX and hydronic configurations.

DX system



- Possibility of integrating the AHU with several condensing units, including those using R-32 and R R-410A refrigerant.
- A widely used system that allows the Compact L to be integrated into existing installations.

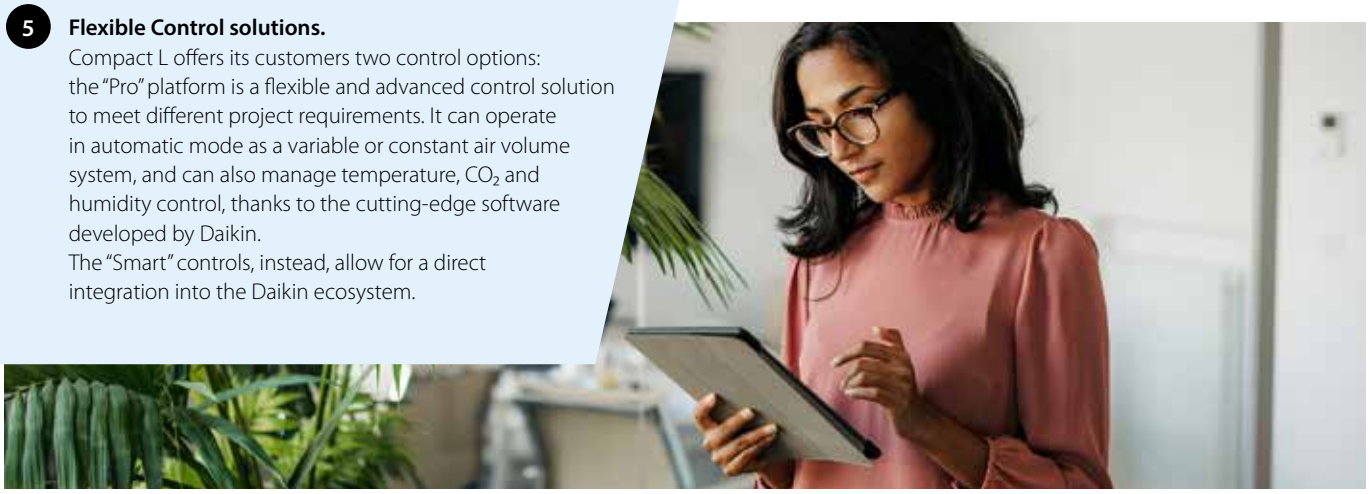
Hydronic system



- Supply of hot water up to 70°C.
- A reliable system as only water circulates in the building.
- A wide range of refrigerants available and compressor technologies.

5 **Flexible Control solutions.**

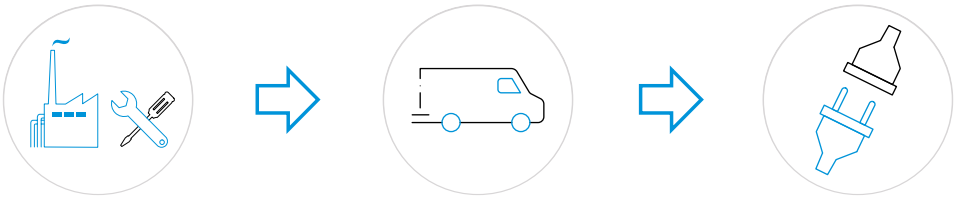
Compact L offers its customers two control options: the "Pro" platform is a flexible and advanced control solution to meet different project requirements. It can operate in automatic mode as a variable or constant air volume system, and can also manage temperature, CO_2 and humidity control, thanks to the cutting-edge software developed by Daikin.
The "Smart" controls, instead, allow for a direct integration into the Daikin ecosystem.



6 **Efficiency and Ease of Installation.**

This unit range is pre-configured and pre-assembled, designed for easy installation and commissioning. It requires less installation time and technical support, reducing downtime. Additionally, it is advantageous for the end user due to its low operational costs, thanks to its efficient and high-quality design, which significantly reduces energy consumption.

Quick installation with no additional configuration required



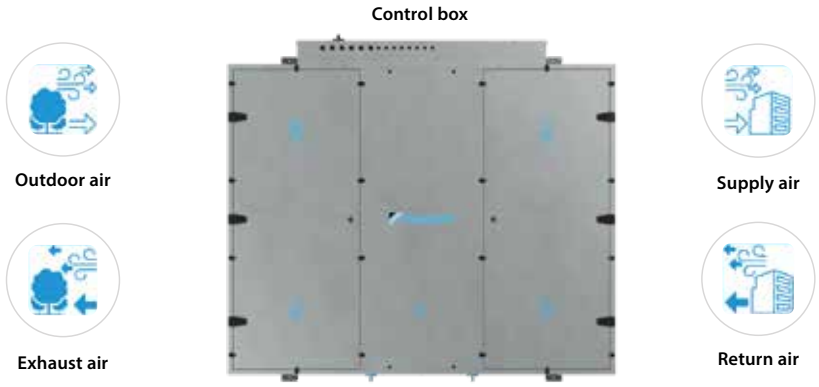
Factory pre-mounted, assembled & programmed

Unit delivery

The installer plugs in

Product options and accessories

Thanks to the wide list of accessories, Compact L satisfies all customer needs.



List of options and accessories for each area:

Outdoor air

- Electric preheater
- Water preheating coil
- Water valve and modulating
- Frost switch
- Additional second filtration
- Sound attenuator
- External damper
- Flexible joints
- Duct transition

Supply air

- DX coil (cooling and heating)
- Water coil (cooling and heating)
- Droplet Eliminator
- Electric heater
- Water heating coil
- Water valve and modulating actuator
- Frost switch
- Sound attenuator
- External damper
- Flexible joints
- Duct transition

Control box

- CO_2 probe
- RH probe
- Temperature sensor
- Modbus interface
- BACnet interface
- VAV control kit

Exhaust air

- Sound attenuator
- External damper
- Flexible joints
- Duct transition

Return air

- Sound attenuator
- External damper
- Flexible joints
- Duct transition
- Additional second filtration

Product technical data

Material name		ALB02*C*	ALB03*C*	ALB04*C*	ALB05*C*	ALB06*C*	ALB07*C*
Nominal air flow	m^3/h	300	600	1200	1500	2500	3000
Phase	ph	1					
Frequency	Hz	50					
Voltage	V	220 - 240					
Ampere	A	16					
Length	mm	1660	1800	2000	2000	2000	2000
Width	mm	920	1100	1600	1600	2000	2000
Height	mm	280	350	415	415	500	500
Net weight	kg	115	170	255	265	310	320
Gross weight	kg	125	180	270	280	325	335
Duct dimensions	mm	250	400	500	500	700	700
Duct dimensions	mm	150	200	300	300	400	400

(1) ALB02*C* refers to all configuration available for Compact L size 02 (Smart or Pro version and right or left handing)

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