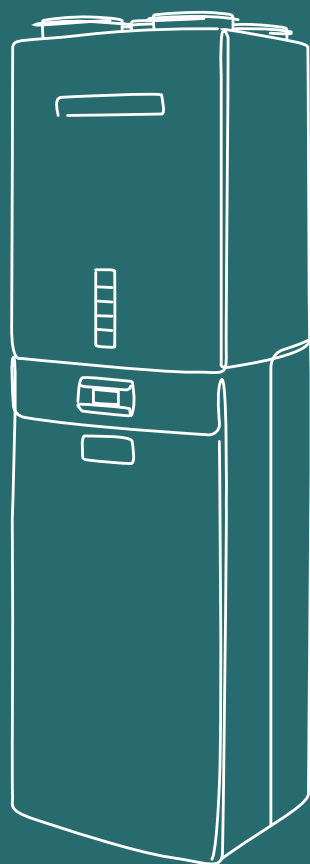




# COMPACT06

Above all breathe healthy

EN



 broferpura



# THE FUTURE IS BASED ON A FRAGILE BALANCE

**Global warming** represents a significant challenge that endangers the climate balance of our planet. Human activities, including energy consumption, are responsible for the emission of greenhouse gases, such as carbon dioxide and methane, which trap heat in the atmosphere and contribute to global warming. Analysis of energy needs shows that a significant percentage of final energy consumption is attributable to buildings, including homes, offices and shops.

**Energy efficiency** is a cost-effective way to tackle the problem by reducing greenhouse gas emissions. Improving energy efficiency brings economic benefits and local development. It is estimated that a punctual energy saving policy at European level could save up to 220 billion euros a year.

In Europe, 40% of total energy is absorbed by buildings and 2/3 is consumed by space heating

# OPPORTUNITIES COME FROM CHALLENGES

## E.P.B.D. DIRECTIVE

### Energy Performance of Building Directive

The 2002 EPBD directive requires Member States to introduce energy certification of buildings. EPBD II broadened the focus on nearly zero-energy buildings by improving minimum energy performance requirements. EPBD III requires Member States to transpose the directives on the energy performance of buildings and energy efficiency by 2020.

## N.Z.E.B. BUILDINGS

### Nearly Zero Energy Buildings

Since 2021, in Italy it has been mandatory to design buildings with almost zero consumption, with a high percentage of energy coming from renewable sources, such as solar photovoltaics, and the use of heat pumps.

# CRITICAL ISSUES WITH THE N.Z.E.B. BUILDINGS



The N.Z.E.B. buildings, with their hermetic building envelope, present some critical issues:

- **IMPERMEABILITY TO OUTSIDE AIR.** The absence of natural air flow limits the infiltration of outside air.
- **WORSENING OF INDOOR AIR QUALITY.** Poor ventilation causes high levels of pollutants such as volatile organic compounds and nitrogen dioxide, exceeding the limits set by the World Health Organization (WHO).

- **PRESENCE OF CHEMICAL POLLUTANTS.** There are harmful substances such as carbon monoxide, tobacco smoke, sulphur and nitrogen oxides, ozone, formaldehyde and pesticides.
- **IMPACT ON HEALTH.** These critical issues cause an increase in cases of respiratory diseases, such as asthma.

**It is essential to address these issues to ensure healthy indoor environments in N.Z.E.B. buildings and PRESERVE THE WELL-BEING OF PEOPLE.**





# SOLUTIONS FOR N.Z.E.B. BUILDING

To address the critical issues of N.Z.E.B. buildings, effective aeration and ventilation solutions are needed, which ensure a healthy and comfortable internal environment.

## **AERATION**

Aeration is a method of exchanging air by opening windows. It's a simple approach, but it can be limited in terms of air control and regulation.

## **VENTILATION**

Ventilation, on the other hand, offers a more complete system of air exchange, with controlled intake and extraction into the rooms.

# OUR ANSWER IS COMPACT06



COMPACT06 is the innovative solution for nearly zero-energy buildings. An aeraulic heat pump that concentrates all of the functions of an autonomous system in a single unit, offering global comfort and maximum efficiency.

COMPACT06 offers global comfort, energy efficiency and better indoor air quality, allowing you to improve buildings both from an energy and an economic point of view.

# FUNCTIONALITY



## SANITISATION

Continuous purification of the air from pollutants



## VMC

Extraction of air with pollutants and humidity - Intake of clean air from the outside



## HEATING

Intake of hot air into the rooms with design diffusers



## COOLING

Intake of fresh air into the rooms with design diffusers



## HUMIDIFICATION AND DEHUMIDIFICATION

Summer and winter control of the ambient humidity level



## DOMESTIC HOT WATER

Availability of domestic hot water throughout the house

# PLUS



## A SINGLE INTERLOCUTOR

A building managed by a single technological system allows you to have a single interlocutor with which to interface.



## ENVIRONMENTAL COMFORT

Once the desired temperature has been set, the system will extend it to all of the rooms in the home, improving overall comfort.



## QUICK INSTALLATION

The system takes up to 48 hours to install.



## ECONOMIC SAVING

Drastic reduction of overall costs, including those relating to the system, electricity consumption and maintenance.



## FACILITATED SITE MANAGEMENT

A single plant means specialised and dedicated personnel and also allows for the planning of the works, avoiding crowding of the site.



## GREATER SUSTAINABILITY

COMPACT06 makes it possible to achieve low electricity consumption and to replace the use of fossil fuels through the adoption of clean sources, such as a photovoltaic system.



# A SMART SOLUTION

COMPACT06 contains multiple smart solutions in a single aggregate unit, making it unique in the current landscape of autonomous systems.

## POST HEATING MULTIFUNCTION SYSTEM (P.H.M.S.)

- Controls the supply air temperature in winter flow and summer dehumidification mode.
- Recovers hot energy to heat the domestic water and post-heat the supply air.
- Provides security and burst mode features.

## DEFROST DYNAMIC MANAGEMENT (D.D.M.)

- Performs dynamically controlled defrosting to optimise efficiency.

## ENLARGED FINNED PACK HEAT EXCHANGERS COMPLETE WITH MICRO-CALIBRATED AIR DISTRIBUTOR

- Reduce load losses and fan consumption.
- Offer high performance even in extreme external conditions.

## CONDENSATION HEAT RECOVERY (C.H.R.)

- Recovers the condensation heat for the DHW storage, reducing energy consumption of the fans.
- Produces domestic hot water with low consumption.
- Heats the room efficiently during the winter season.

# MOBILE

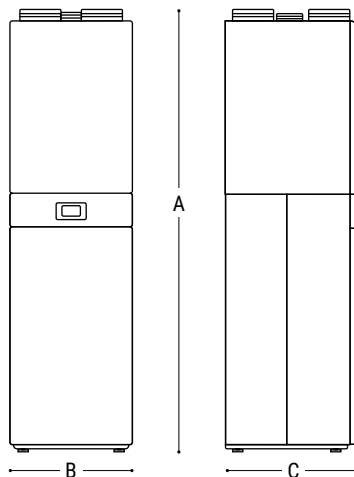


## COMPACT06 MOBILE APP

The app allows you to conveniently connect and manage your COMPACT06 compact aggregate from a smartphone or tablet. Through the app, you can easily change all of the following parameters: room temperature, room humidity, domestic hot water temperature and fresh air flow. Furthermore, you'll be able to find out all of the environmental conditions of the house in real time, promptly receiving any alarms and anomalies.



# TECHNICAL DATA

**MAXIMUM AIR FLOW**

600 m<sup>3</sup>/h

**SUMMER POTENTIAL**

5.15 kW (outdoor air 35°C)

**WINTER POTENTIAL**

5.3 kW (outdoor air -5°C)

**MEASURES**

A: 2100 mm

B: 600 mm

C: 650 mm

**TOTAL LOAD WEIGHT**

370 kg (200 kg D.H.W.)



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