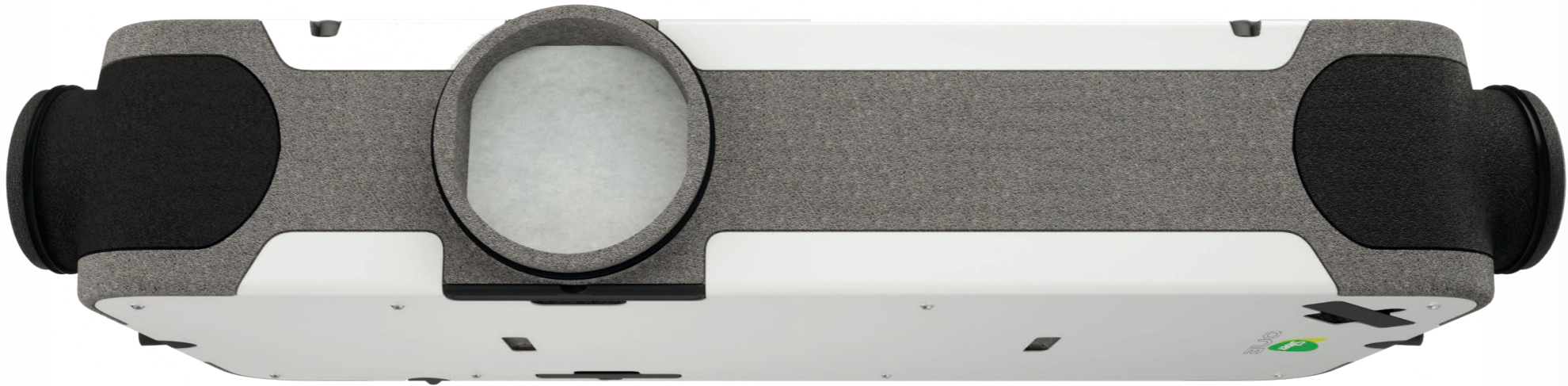


Siber

ONE

**FIRST COMPACT UNIT
OF RESIDENTIAL AIR
TREATMENT MARKET**



01. DESIGN

02. VERSATILITY

03. HIGH PERFORMANCE VENTILATION

04. EFFICIENT AIR CONDITIONING

05. CONTROL

06. A SINGLE UNIT

one

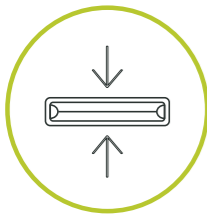
SIBER ONE

01 DESIGN



First compact residential AHU

Residential air handling unit. Compact unit that combines CMV with heat recovery and water coil for air conditioning or heating.



Ultra-compact design

Ultra-compact design with a reduced height of 27.5 cm



Hydronic system

It does not need to comply with the regulations on refrigerant concentration per room as it does not displace oxygen in the event of a leak.

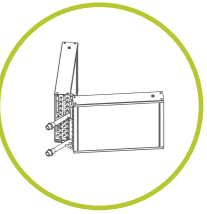


Easy access for maintenance



Water coil

Compact high-efficiency water coil for cooling and heating in Fan Coil mode



Air recirculation

Air recirculation for air conditioning in addition to ventilation

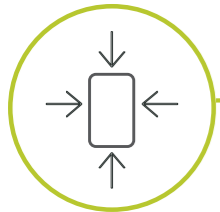


Smart design

Made of technical polymer and galvanised steel

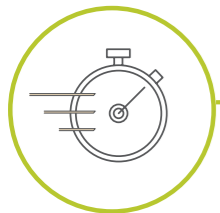


02 VERSATILITY



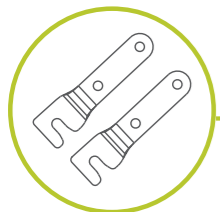
Compact system

Compact system, avoiding having to install both climate control and ventilation systems



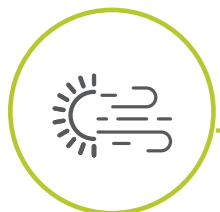
Plug and play

Quick, easy and flexible installation



Silent block

Simple attachment via four anti-vibration hooks, damping any vibrations to the structure.



Integration with other systems

Integration capability with other systems (underfloor heating and cooling, high- and low-temperature radiators, additional fan coil and DHW)



Universal connectivity

Can be connected to any aérothermal or geothermal production unit

Multiple configurations

Multiple air distribution configurations (star or spine network), climate control and/or ventilation...



Guide adjustment

The guides can be installed on all sides of the unit thanks to the versatile silent block hooks.



Position parallel to the ceiling

The unit does not need to be tilted in order to drain off condensates. Its design means it can be parallel to the ceiling without the need for a slant.



no 2% slant

Adjustable condensation drains

With 3 rotating drains, which can be adjusted in line with the facility.

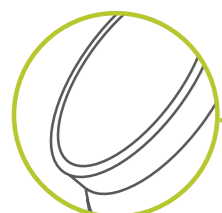


Orientable nozzles

Quick and easy connection modularity.



03 HIGH-PERFORMANCE VENTILATION



Maximum seal-tight integrity

The nozzles are designed to ensure maximum seal-tight integrity. Double symmetrical seal to ensure a tight fit between the duct and the unit.



Free cooling thanks to the automatic bypass

The bypass allows you to enjoy favourable indoor temperatures in both summer and winter, bypassing the heat exchanger. This is done automatically (configured at factory).



SFP

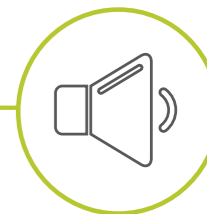
Low power consumption, Specific Fan Power

With low SFP (consumption per m³/h)



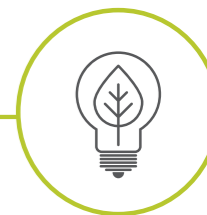
Silent operation

High-performance unit for a constant flow rate with minimal noise, ensuring acoustic comfort.



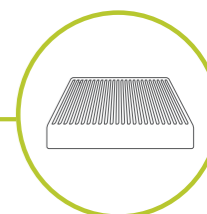
High energy efficiency

Unit designed with crossed flows consisting of a high-performance counter-flow heat exchanger.

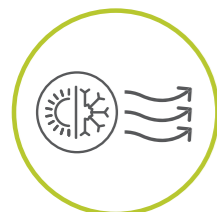
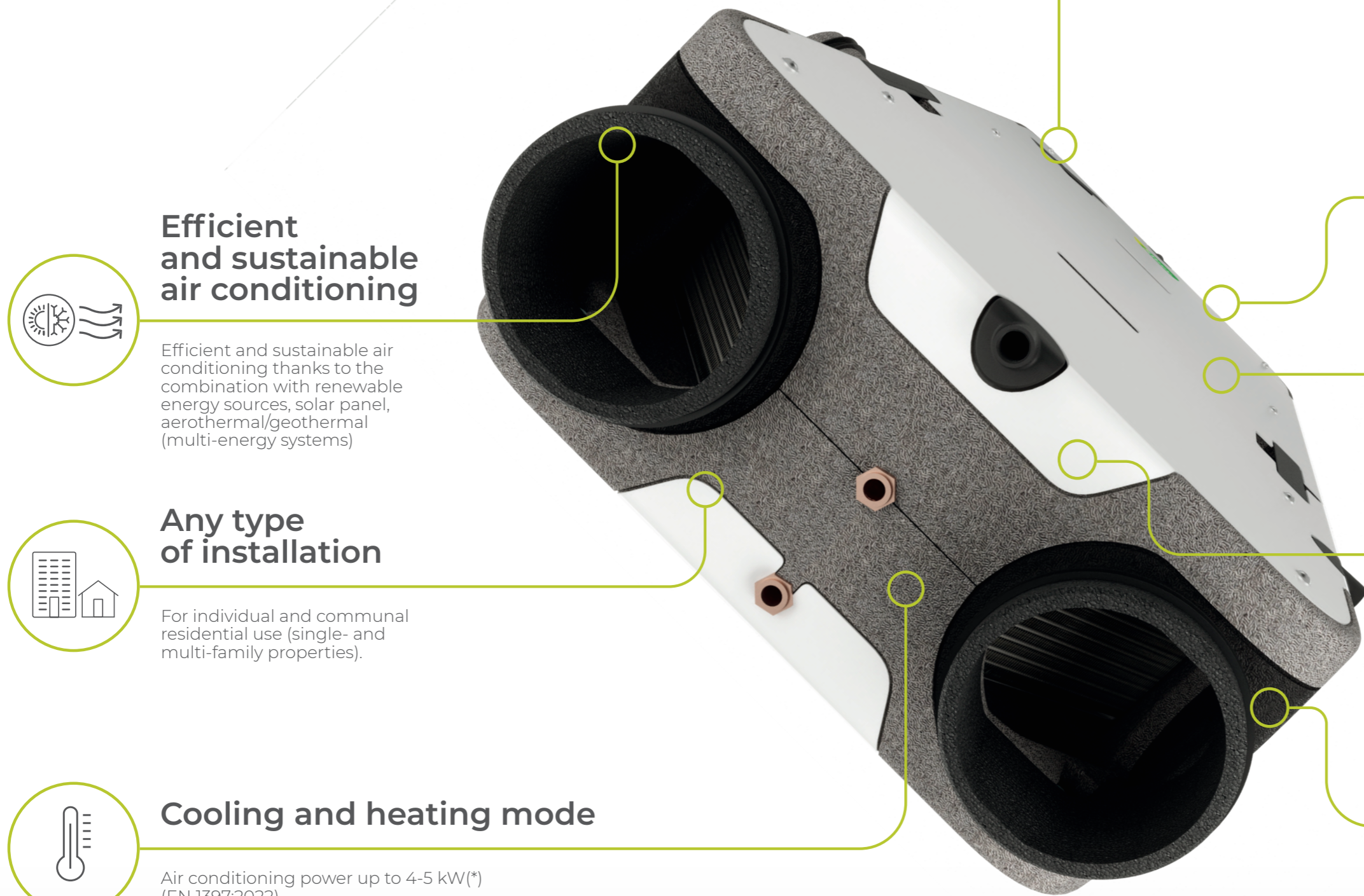


Air purifier filters

Wide range of filters on 3 of the nozzles (input, discharge and return), guaranteeing indoor air quality.



04 EFFICIENT AIR CONDITIONING



Efficient and sustainable air conditioning

Efficient and sustainable air conditioning thanks to the combination with renewable energy sources, solar panel, aerothermal/geothermal (multi-energy systems)



Any type of installation

For individual and communal residential use (single- and multi-family properties).



Cooling and heating mode

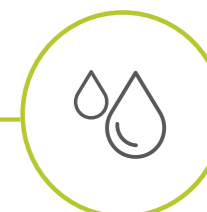
Air conditioning power up to 4-5 kW(*) (EN 1397:2022)

Climate distribution



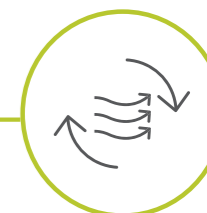
up to **600 m³/h**

Dehumidify mode



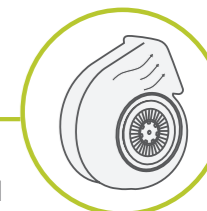
Reduced relative humidity

Efficient transfer



Efficient water-to-air temperature transfer

Brushless motors



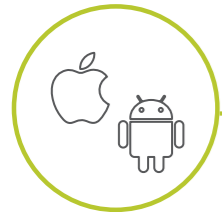
The ranges are available with variable speed motors regulated by an integrated EC driver, enabling efficient, adaptable operation.

Reduced heat pump power



Helps ensure energy savings by reducing the power output of the pumps.

05 CONTROL



APP

App for controlling and monitoring the unit



Remote access and monitoring

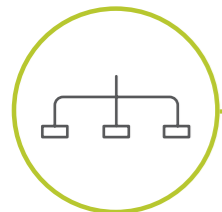


Smart Home connectivity

They can be adapted to any type of building or integrated into building management systems (BMS), either external or in-house



Intuitive control



Modbus as standard

Modbus incorporated as standard in the unit

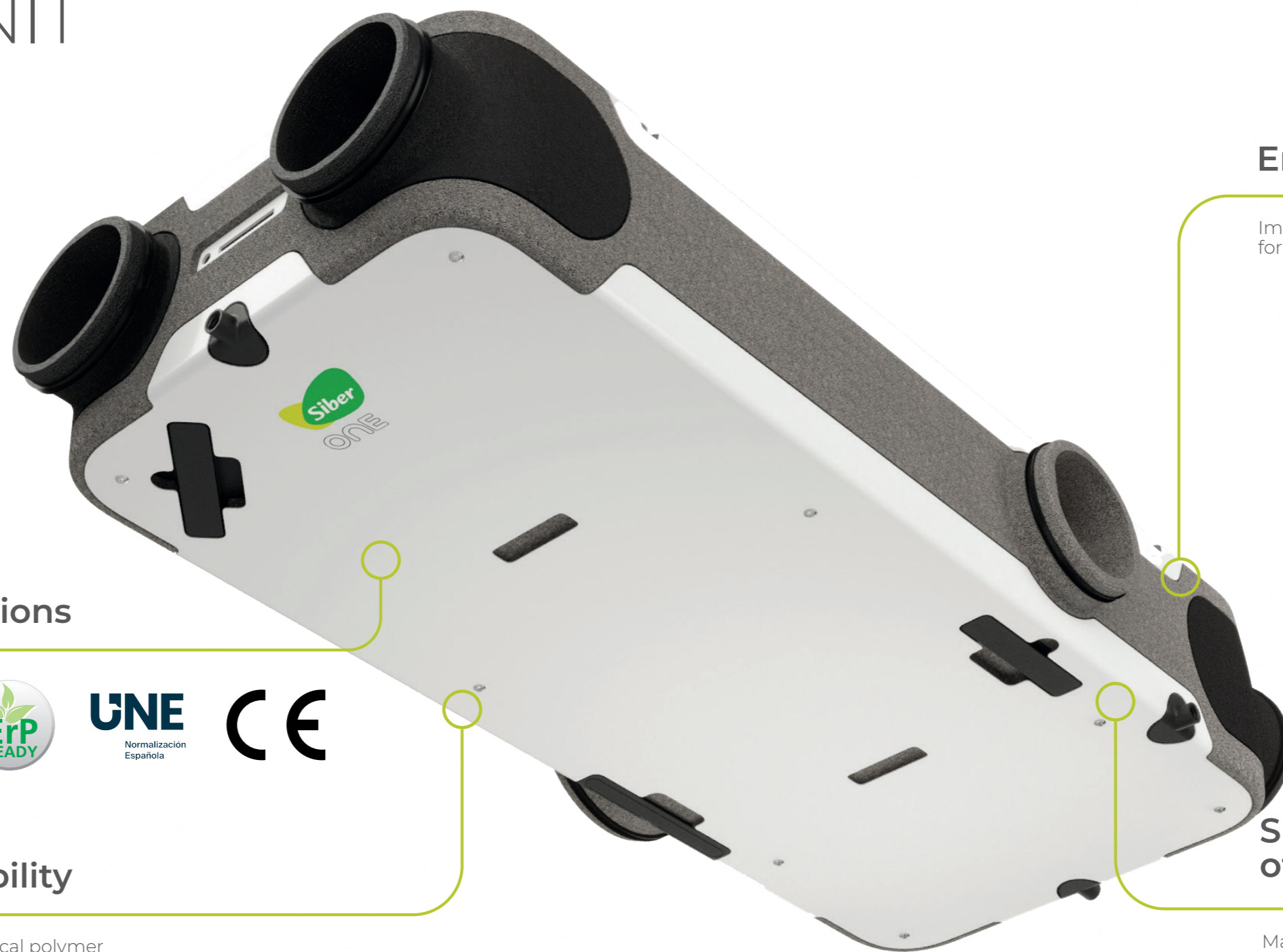


Ambient unit control

Room unit control compatible with any hydronic system (individual or communal heat pump, whether aerothermal, geothermal or chiller) for operation in cooling or heating mode with controlled ventilation 24/7.



06 A SINGLE UNIT



Energy rating

Improved energy rating for the property

A+

Certifications



*Certification underway



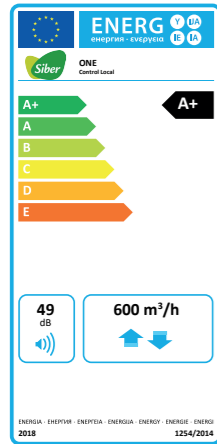
Sustainability

Made from technical polymer and galvanised steel, reducing resource consumption and harm to the planet.

Single point of contact

Making it easier to manage commissioning, balancing, maintenance, after-sales, compliance with technical codes, contributions based on the Regulation on Thermal Installations in Buildings (RITE).

SIBER® ONE



Technology
HRV Controlled Mechanical Ventilation

System
Individualised

Projects
New-build or refurbishment projects

Buildings
Multi- or single-family buildings

Flow rate
max. 200 m³/h ventilation
max. 600 m³/h climate control and ventilation



ADVANTAGES

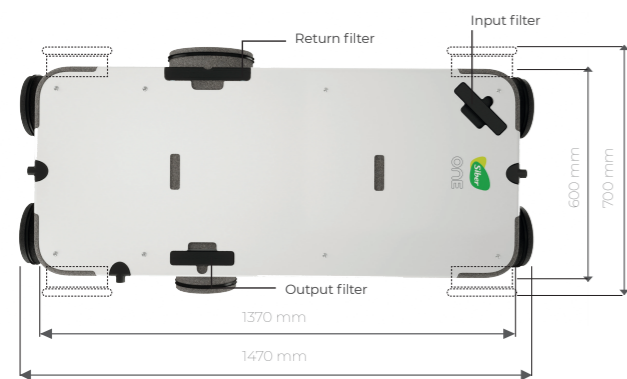
- Air conditioning power of up to 4-5 kW(*) (EN 1397:2022)
- High recovery performance
- Silent operation
- Free-cooling, 100% automatic ventilation bypass
- Water coil with 3 rows of piping
- Half-inch water connection system
- Quick and easy installation
- Adjustable nozzles for maximum seal-tight integrity
- Triple drain, adjustable
- Fastener guides with silent block hooks

Compact individual residential air handling unit (AHU) per property.

Ventilation unit that combines heat recovery with recirculation and a built-in thermal conditioning system.

This dual combination ensures optimal comfort through a single unit and air duct system, maximising the efficiency of the installation and the equipment within the residential property.

DIMENSIONS



Main advantages

Very low profile - Height of 27.5 cm
Maximum flow rate in ventilation: 600 m³/h.
ModBus connectivity included.
Ambient unit control included.
Compatible with any heat pump.

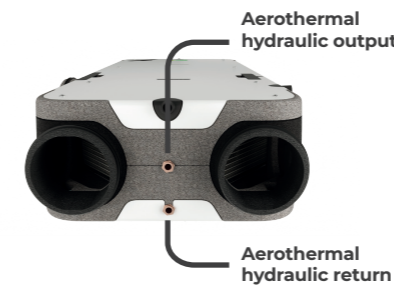
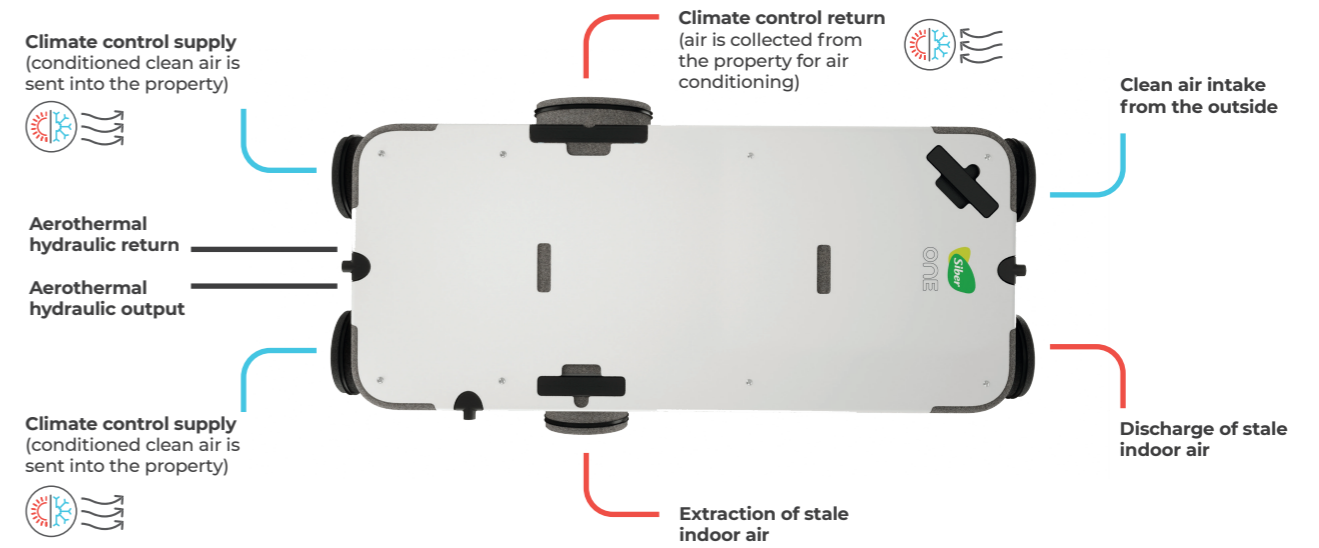
CONTROL ADD-ON FOR AMBIENT UNIT INCLUDED

Ambient unit control

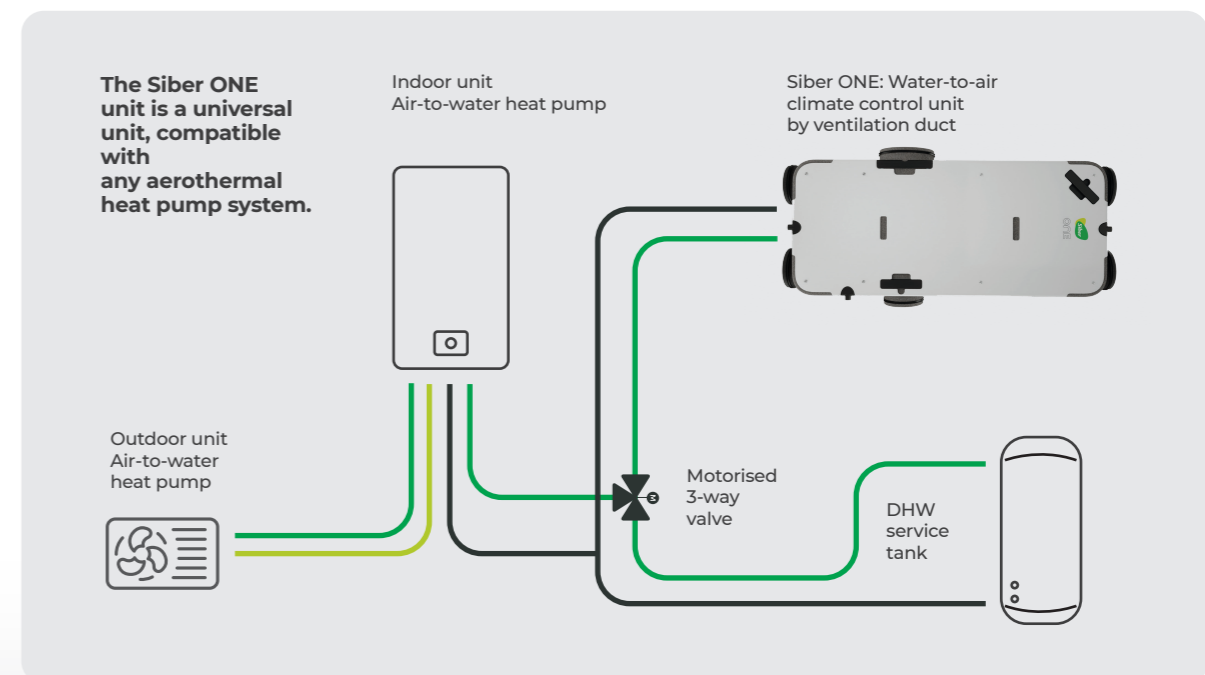


- AC/DC 24 V power supply
- 160 x 128 pixel touchscreen
- ModBus communication protocol
- Built-in temperature sensor
- Built-in humidity sensor

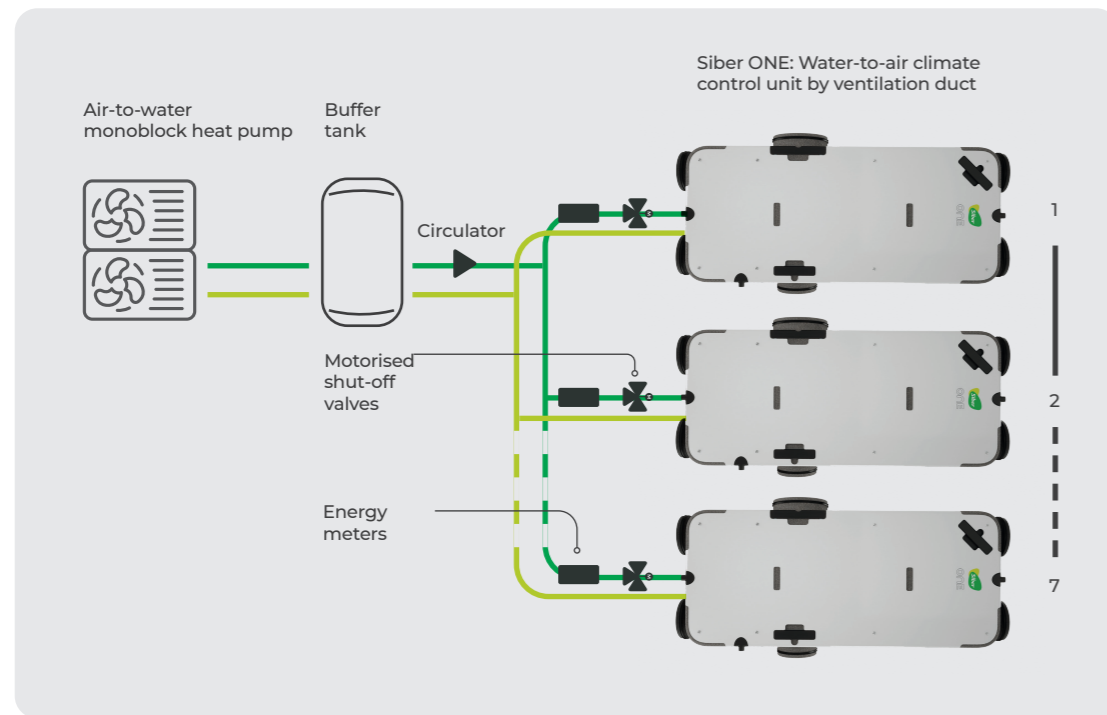
VENTILATION - AIR CONDITIONING FLOWS



EXAMPLE OF A TYPICAL INDIVIDUAL HYDRAULIC CONFIGURATION



EXAMPLE OF A TYPICAL CENTRALISED HYDRAULIC CONFIGURATION



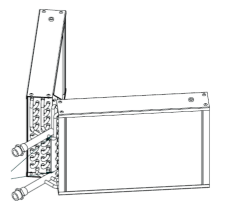
TECHNICAL CHARACTERISTICS

SIBER® ONE	
Supply voltage	230/ 50 Hz
Protection class	IP 44
Dimensions (LxWxD)	1370 x600x275mm
Connection diameter	Ø 180
Condensate drain diameter	1/2"
Weight	45 kg
Filter class	Coarse 65% (G4)

THERMAL PERFORMANCE

The coil's innovative design and geometry ensure that the unit achieves a high heat exchange efficiency, as can be seen in the table below, which shows that, under various operating temperatures, the air temperature closely matches the water input temperature from the aerothermal system, indicating that practically all of the coil's thermal potential is used.

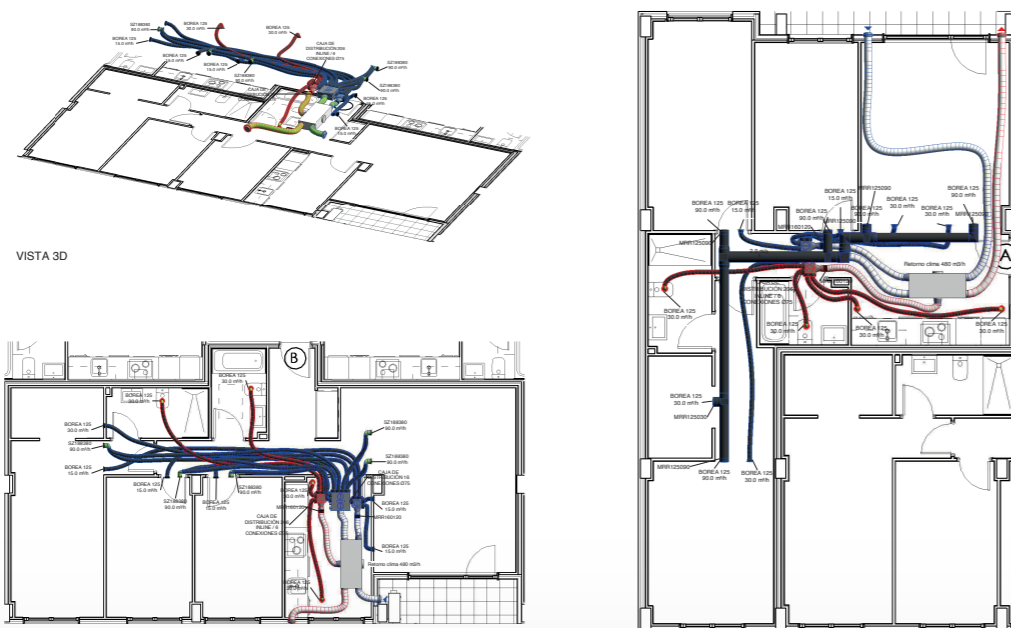
SIBER® ONE thermal performance							
	T _{in} water (°C)	T _{out} water (°C)	Q _{water} (l/min)	Power (kW)	Q _{air} (m³/h)	T _{in} air (°C)	T _{out} air (°C)
Heating	45	40	12	4/5(*)	764	20	38,7
Refrigeración	7	12	11	3/4(*)	602	27,7	13,3



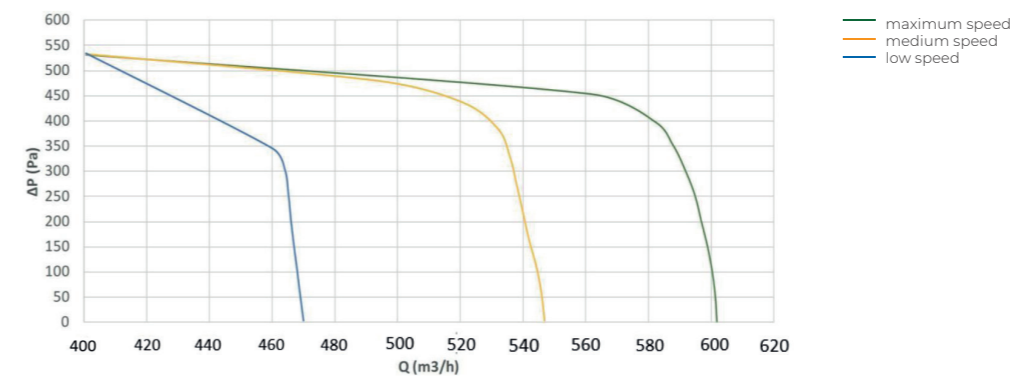
(*) under official certification process

EXAMPLE OF THE VENTILATION AND AIR CONDITIONING DUCT SYSTEM

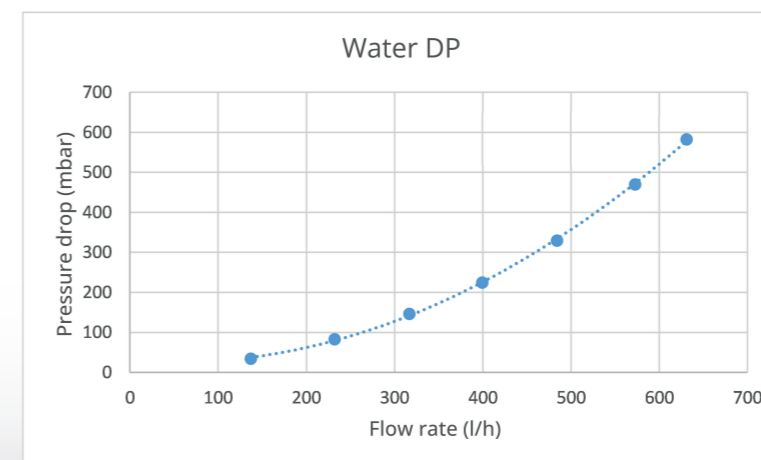
- Extraction Network
- Supply Network

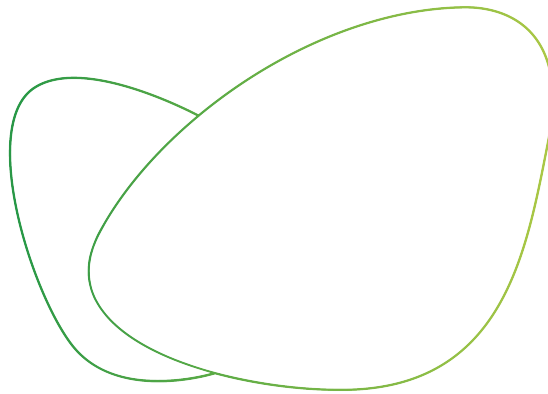


CHARACTERISTIC CURVE



HYDRAULIC PRESSURE DROP





Siber

Siber Zone, S.L.U.

HEADQUARTERS

Headquarters
Logistics Center - Showroom
Factory - Training Center

Apdo. de Correos n. 9
C/ Can Macia n. 2
08520 Les Franqueses del Vallès
Barcelona-España

LOGISTICS AND TRAINING CENTER

Offices - Logistics Center
Showroom - Training Center

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28850 Torrejón de Ardoz
Madrid-España
Barcelona-España

INNOVATION CENTER

Logistics Center - Factory
R+D+I Center - Demolab
academic/practical
for professionals

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