



Thermodynamic water heater, combined with an automatic or humidity-controlled whole house extract unit. The air from bathrooms and kitchen is sent to a high efficient heat pump (Integrated into CETHEO). The system recovers the heat from the exhaust air via the whole house extract unit. The system delivers a very stable and high efficiency, reducing the energy consumption for the production of domestic hot water by up to 75%.

- High COP: 4,2 according to EN 255-3 (150 m3/h), 3.64 EN 16 147 (150 m3/h).
- Thermal and acoustic insulation: 28,4 dB(A) at 2 meters
- Whole House extract unit motor with very low power consumption: 17 W.
- Heat pump maximum power consumption: 400 W.
- Nominal power: 800 W (average).
- Nominal power: 1500W in Boost mode
- Heat pump and filter automatic bypass, reduces the whole house extract unit consumption and increases the life of the filter by up to 60%
- 'Boost' function reduces the time to heat the water.
- Provides hot water 24 hours a day
- Enameled steel tank of 187 liters
- Hot water for up to 6 people
- Volume of water available at +40°C: 244 liters.
- Absorbed power, within 24 hours, to maintain the set-point temperature.
- Anti-legionella cycle.
- Anti-corrosive system.
- Maximum water temperature, with heat pump, 61,5 °C.
- Maximum water temperature, in Boost and anti-legionella mode, 65 °C.

## FUNCTIONS

**WHOLE HOUSE EXTRACT UNIT  
SELF-REGULATING OR HUMIDITY-CONTROLLED**  
+  
**THERMODYNAMIC DOMESTIC WATER HEATER**

## Specific applications

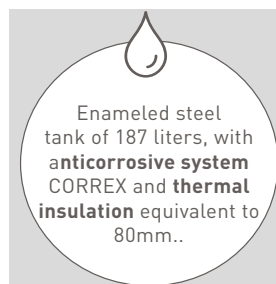


Single dwellings



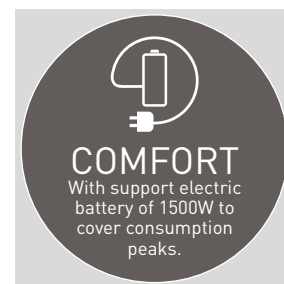
**Electrical appliance aesthetics**

Its smart design allows installation in any technical room of the dwelling.



Enameled steel tank of 187 liters, with anticorrosive system CORREX and thermal insulation equivalent to 80mm..

**Supply capacity for a 6 people family**



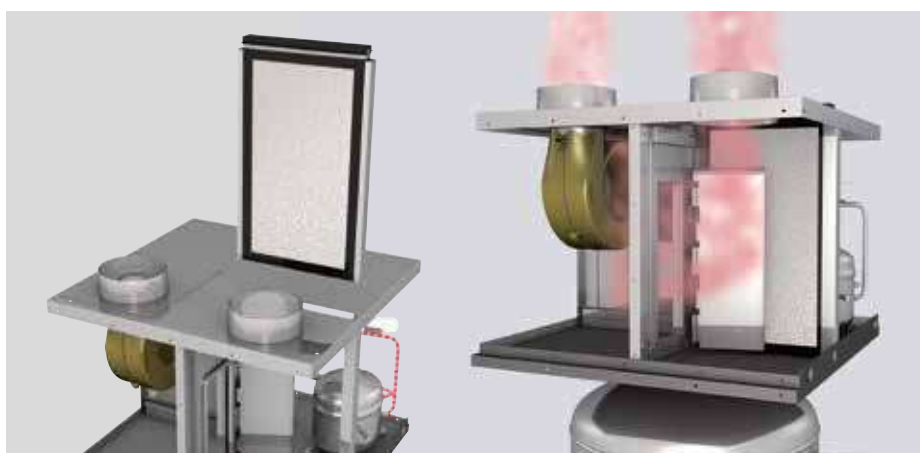
**COMFORT**  
 With support electric battery of 1500W to cover consumption peaks.



**Low noise level**  
 Inferior to 28,4 dB(A) at 2 meters.



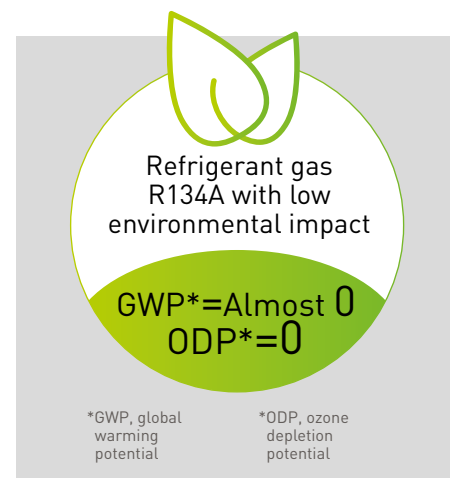
**Permanent operation**  
 24 hours.  
 365 days.



**Easy access to filters.**

**Long-lasting filters**

Thanks to the patented by-pass system, which avoids the flow of air through the heat-pump when DHW is not produced.



Refrigerant gas R134A with low environmental impact

**GWP\*=Almost 0**  
**ODP\*=0**

\*GWP, global warming potential

\*ODP, ozone depletion potential

**Low environmental impact**

**PROGRAMMABLE CONTROL**

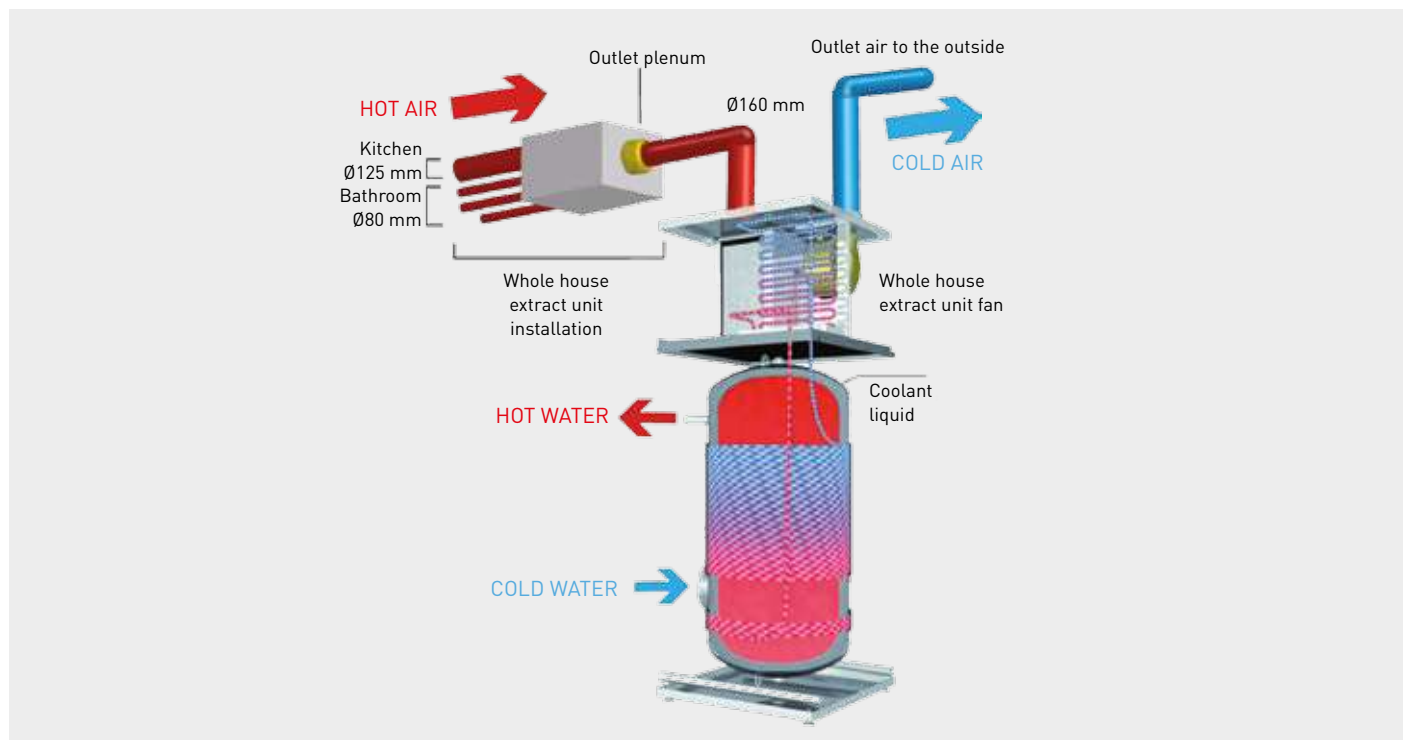


- Function mode (normal or hot domestic water).
- Time scheduling.
- Boost function.
- Domestic hot water temperature.
- Use of the whole house extract unit only with by-pass.
- Anti-legionella cycle



**Energy efficient.**  
**It uses a 75% of renewable energy**  
 Discharges less CO<sub>2</sub> into the atmosphere than a traditional solar+ boiler system.

**SCHEMATIC DIAGRAM OF OPERATION**



**TECHNICAL CHARACTERISTICS**

Model	Voltage (V)	Airflow (m³/h)		COP s/EN 255-3 150 m³/h	COP s/EN 16-147 150 m³/h	Max. Temperature LPHW		Power (W)			Sound power at 2m (dB(A))	Weight (kg)
		Minimum	Maximum			Heat pump	Electrical	Fan	Heat pump	Electrical		
CETHEO	230	30	265	4,2	3,64	61,5 °C	65 °C	40	400	1500	28,4	180

**VENTILATION MODE**



**VENTILATION + HEAT PUMP MODE**



The air, extracted by the fan, flows through the filter.

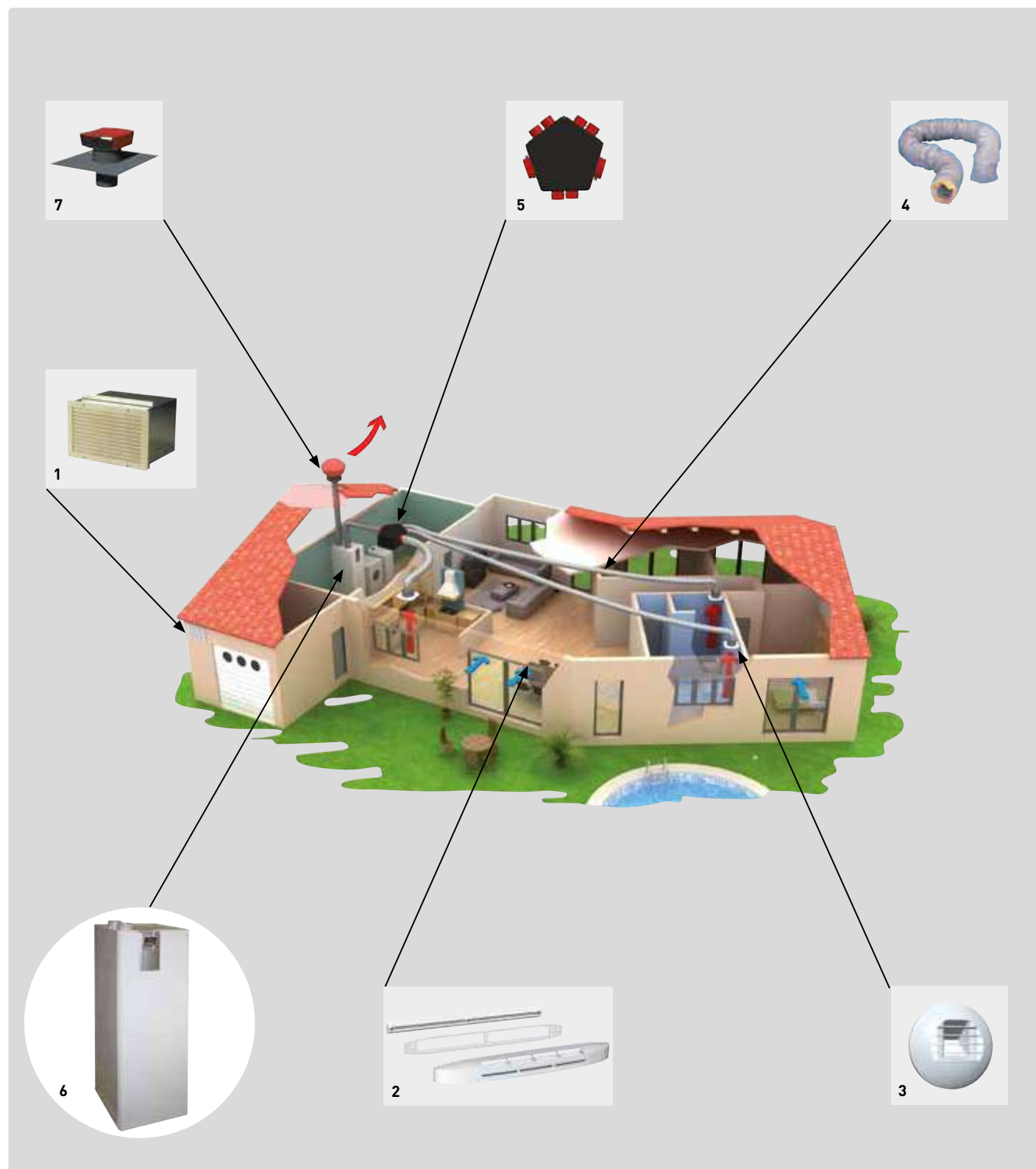


The air flows through the evaporator, giving up its heat energy.



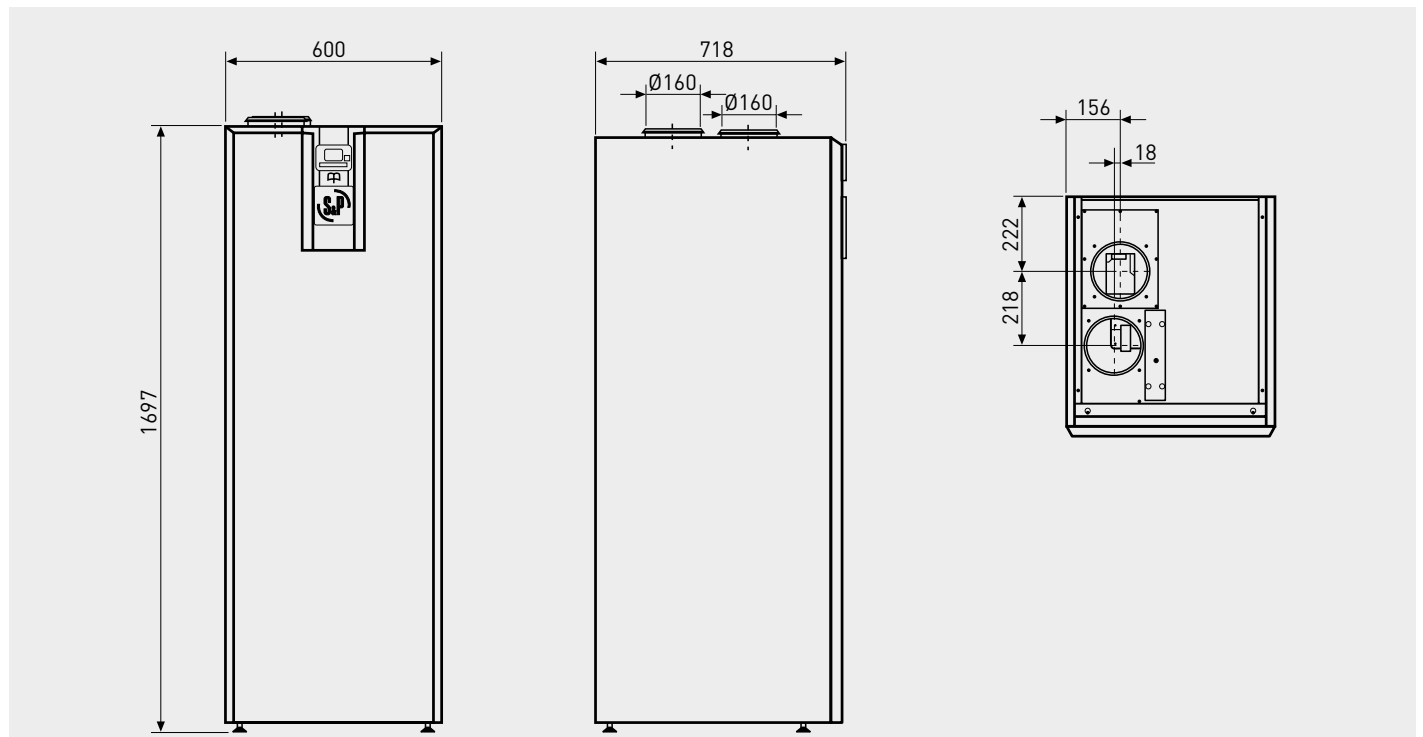
The fan extracts the air to outside.

**CETHEO SERIES - CENTRALISED SYSTEM AUTO / HUMIDITY-CONTROLLED + DOMESTIC HOT WATER**



1. TAP air intake
2. ECA-HY humidity-controlled air inlet
3. BEH humidity-controlled extract grille
4. PVC or rectangular plastic ducts.
5. Outlet plenum
6. CETHEO: whole house extract unit with heat pump to produce domestic hot water.
7. CT roof cowl.

**DIMENSIONS (mm)**



**ACCESSORIES**

	<p><b>BAR</b> Self-adjusting exhaust valves.</p>		<p><b>BEHC, BEHS and BEHW</b> Humidity-controlled exhaust valves.</p>		<p><b>EC and ECA</b> Standard and acoustic, self-adjusting air inlets.</p>
	<p><b>EC-HY and ECA-HY</b> Standard and acoustic humidity-controlled air inlets.</p>		<p><b>GP ISO</b> PVC flexible duct. Ø 80, 125, 160.</p>		<p><b>TUB PLA</b> Rectangular ducts made of self-extinguishing plastic. 55 x 220 mm and 55 x 110 mm.</p>
	<p><b>CT-160</b> Roof cowls. Ø 160 mm.</p>		<p><b>PAF 160</b> Circular discharge grille on the wall with a Ø 160 mm connection.</p>		<p><b>ADRF 100/80</b> Reduction elements to connect rigid ducts from Ø 100 to Ø 80.</p>
	<p><b>PLENUM UNI EXT 6+1</b> Insulated extraction plenum of 125/ 150-160mm diameter, 1 Kitchen spigot of 125mm diameter and up to 6 sanitary spigots of 80mm diameter.</p>				