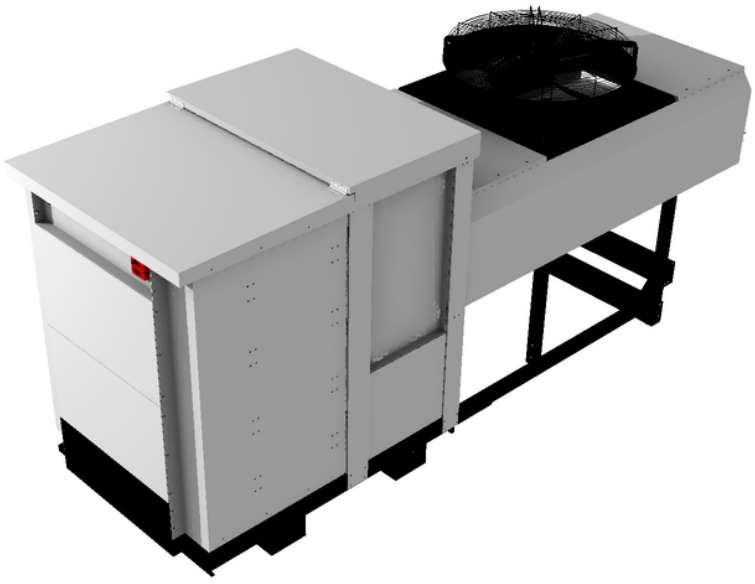
DESIGNER AND MANUFACTURER OF HEAT PUMPS

VEOTHERM
Innovative Energy

Your energy solution

Collective - Housing - Industry - Commerce - Health - Agriculture - Hospitality - Swimming pool

Live differently to preserve the world of tomorow



THE ALL IN ONE HEAT PUMP

outdoor version from 30 - 320 kW

Air conditioning/heating/domestic hot water/heated towel bar/pool

MADE IN FRANCE

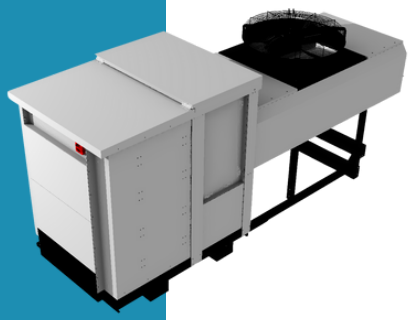
-35°C Outdoor air without electric backup

ecological refrigerant

Features and Benefits
outdoor version from 30 - 320 kW

climate change is leading to a profound revolution in heating and air conditioning systems in order to **radically reduce their CO2 emissions.** There is therefore **a need to adapt** to new regulations in order to **preserve the environment** in which we live together.
We therefore provide you with **an efficient economical and ecological solution** to meet your needs. Thus, VEOTHERM heat pumps are the most elegant replacement mode to preserve the world of tomorrow.

- **Innovative one-piece solution:**
  designed to be mainly installed outdoor
- **Simultaneous production:**
  Heating, Air conditioning, DHW (Domestic Hot Water),
  Thermal energy storage (MCP).
- **Products intended for**
  Collective housing, hotels, tertiary buildings, swimming pools...



OUTDOOR AIR WITHOUT ELECTRIC BACK-UP
-35°C
+55°C

HEATING FLOW MAX T°
80°C

CHILLED WATER OUTPUT MIN T°
5°C

MAX DHW T°
80°C

Performance factor
6

The + VEOTHERM
Licences

- Robustness.
- Energy class A++
- Free DHW in air conditioning mode.
- 3 independent hydraulic circuits.
- No additional electrical resistance.
- Operating range -35°C to +55°C.
- Ecological refrigerant R1234YF (GWP<1).
- Low sound levels from 42dBA.
- No release of CO2 or other pollutants.
- Compatible with a photovoltaic power supply.
- Material-based thermal energy storage phase change.
- Maintenance of heat production during defrosting

Expansion of
GUARANTEE
5 to 10 YEARS

MADE IN FRANCE

Possible configurations :

Products	Heat	Air conditioner	DHW (Domestic hot water)*	MCP storage	Water storage	Pool	1st hydraulic circuit	2nd hydraulic circuit	3rd hydraulic circuit**	Altitude***	Chilled water -15°C	Connected
V30	✓	✓	●	●	●	●	✓	●	●	●	●	✓
V40	✓	✓	●	●	●	●	✓	●	●	●	●	✓
V65	✓	✓	●	●	●	●	✓	●	●	●	●	✓
V80	✓	✓	●	●	●	●	✓	●	●	●	●	✓
V160	✓	✓	●	●	●	●	✓	●	●	●	●	✓
V320	✓	✓	●	●	●	●	✓	●	●	●	●	✓

✓ Series ● Option *ECS: dedicated ECS exchanger **3rd circuit: waste heat recovery ***Altitude: performance conservation altitude

Heat

Air conditioner

DHW Domestic Hot Water

MCP storage

Water storage

Heater pool

Mountain option

Frozen water

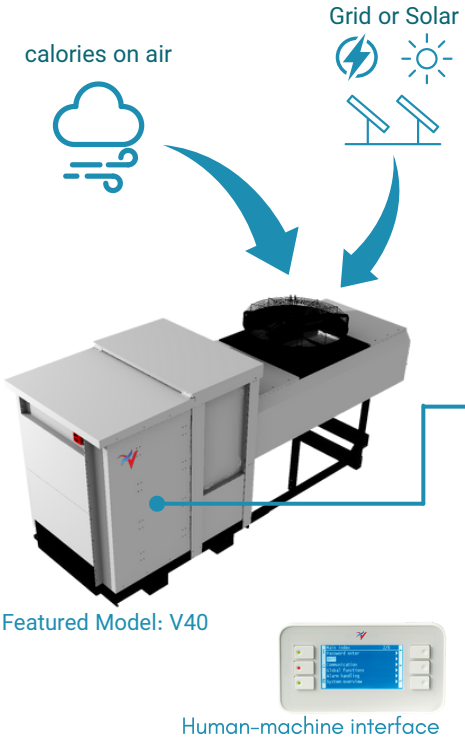
Connected

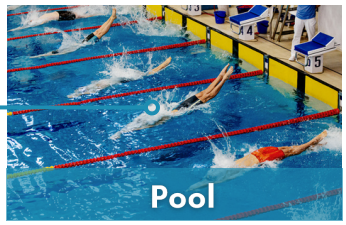
Reparable

Fonctionnement d'une pompe à chaleur

AIR / WATER heat pumps For total serenity

The Veotherm heat pump is designed to be mainly installed outdoors. It meets most of the energy needs for collective housing, hotels, swimming pools or tertiary buildings... The use of this renewable energy source with Veotherm's patented system achieves very high performance. It also makes it possible to maintain the production of heat on the two circuits during the defrosting phases and with its two hydraulic circuits, it makes it possible to generate heating or air conditioning on a water vector, and to produce Domestic Hot Water, in simultaneous or not. This system thus makes it possible to benefit from the production of Domestic Hot Water (and/or the heating of a swimming pool) for free in air conditioning mode. The production of Domestic Hot Water (DHW) is semi-instantaneous, thanks to the patented energy storage system based on Phase Change Materials (PCM).





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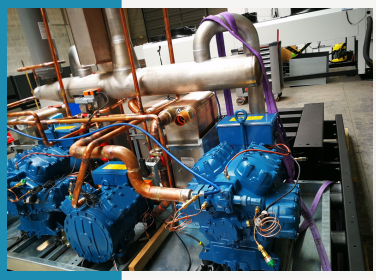
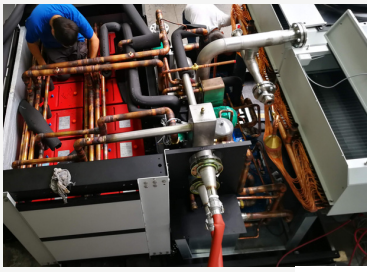




Energy efficiency

Heating mode performance		V30	V40	V65	V80	V160	V320
Calorific power (kW)	A7 W35	38,80	44,10	82,00	91,6	177,90	325,40
COP with defrost (1)	A7 W35	4,05	4,14	4,25	4,33	4,32	4,45
Calorific power (kW)	A-15 W45	27,40	31,10	58,00	64,2	122,9	202,60
COP with defrost (1)	A-15 W45	2,12	2,17	2,30	2,40	2,30	2,24
SCOP	A7 W35	3,70	3,73	3,85	4,02	3,91	4,01
ETATS (seasonal energy efficiency)	A7 W35	148%	149%	154%	161%	156%	161%
ENERGY LABEL		A+	A+	A++	A++	A++	A++

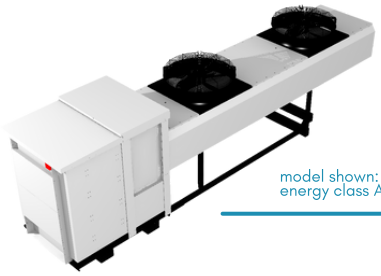
Performances en mode climatisation		V30	V40	V65	V80	V160	V320
Cooling capacity (kW)	A35 W7	21,70	24,70	60,50	65,80	115,70	231,40
EER (Energy Efficiency Ratio)	A35 W7	2,79	2,85	3,29	2,85	2,81	2,81

(1) According to standards EN 14511

Example of a configuration with energy transfer

The solution to divide your energy consumption up to 7 times

Ice rink


model shown: V80
energy class A++

Pool

Production of chilled water
(Air conditioning, cooling, refrigeration...)

Energy transfer

Free heat production
(Heating, pool, hot water...)

your energy solution the most economical

The Veotherm technology allows to divide by **4** the average energy consumption compared to a boiler. In the context of DHW production **the Veotherm patents** used divide energy consumption by **2** compared to conventional heat pumps.

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Share our brochure Outdoor range

For more information Veotherm website

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