LENNOX

New!

Elevate

The Future of Heat Pumps
Safe - Efficient - Sustainable.

High performances / High Temperatures applications

R-290

PFAS FREE

SCOP
ηs>162
Up to 4,13

SEER
Up to
4,9

NOMINAL CAPACITY
45 - **65** kW

MODULAR CAPACITY
up to 520 kW

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

LENNOX participates in
the ECP programm for LCP-HP.
Check ongoing validity of certificat :
www.eurovent-certification.com

OUR PROPANE REVERSIBLE HEAT PUMP:
Full inverter, compact, safe and reliable for all types of application

PRODUCT FEATURES

High-Efficiency EC Fans

Efficiency in every spin.
Silent. Smart. Super-efficient.

Our high-efficiency EC fans deliver precise airflow control with ultra-low noise and energy consumption, automatically adapting to system demand for optimal comfort and performance.

Inverter Compressor

Power that adapts in any conditions

Our inverter-driven compressor delivers precise, energy-efficient performance with a wide operating envelope — ensuring reliable heating , cooling and DHW even in extreme temperatures.

High-Efficiency Coil Design

Built for performance and long life-cyle

Our heat exchanger combines premium materials and advanced engineering to deliver unmatched efficiency and durability, ensuring faster heating response, improved seasonal efficiency, and long-term reliability in all climates.

External Electrical Cabinet

External. Accessible. Exceptionally Safe.

Positioning the electrical cabinet outside the refrigerant circuit zone is a deliberate safety measure ensuring compliance with safety regulations, while also making maintenance faster and safer for technicians.

High-Performance Brazed Plate Heat Exchanger

Precision meets compact efficiency

Equipped with a stainless-steel plate heat exchanger, the system ensures optimal transfer performance for modern low-temperature heating systems.

ATEX-Certified Leak Detector

Detect Early. React Fast. Stay Safe

Our integrated ATEX leak detector continuously monitors the unit for propane (R290) leaks. In case of detection, it instantly triggers safety protocols to prevent hazardous concentrations, protecting both people and property.

Pressure Relief Valve

Automatic Protection, Zero Compromise

Our integrated pressure relief valve is a critical safety component, automatically discharging excess pressure from the refrigerant circuit to protect the system and ensure safe, reliable operation under all conditions.

Visual & Acoustic alarm

When Silence Isn't an Option

In case of refrigerant leakage, a two-level alarm system is triggered: a visual signal activates at first detection, followed by a combined visual and acoustic alert if concentration rises, ensuring fast, clear, and safe intervention in ATEX environments.

Water/Refrigerant Separator

Efficient Flow, Zero Risk of Cross-Contamination

Our dedicated water/refrigerant separator ensures complete isolation, preventing any risk of refrigerant mixing with water, guaranteeing operational safety beyond the ATEX zone and protecting all peripheral components and area.

ATEX-Certified Exhaust Fan

Vent Out Risk, Breathe In Safety

The ATEX exhaust fan automatically activates when a leak is detected, safely extracting flammable gases from the unit enclosure, minimizing ignition risk and ensuring a safe operating environment.

FULL INVERTER TECHNOLOGY:
The Latest in High-Efficiency Heating & Smart Control

All-Season Comfort Reversible Heat Pump

Heating, Cooling, and Domestic Hot Water

Advanced reversible heat pump offering a complete climate solution for every season. Seamless switch between modes, ensuring year-round comfort.

High Efficiency with Full Inverter Technology

Precision, Performance, and Flexibility

Equipped with cutting-edge Full Inverter Technology, offering optimal performance across every component — fans, compressors, and water pump.

Quiet Operation for Ultimate Comfort

Enjoy Peaceful Comfort

Our reversible heat pump operates at an exceptionally low noise level, comparable to the sound of a vacuum cleaner or light traffic. Ideal for all type of applications.

Exceptional Efficiency for Significant Savings

Smart Savings with Every Season

Up to 50% lower operating costs compared to traditional gas or oil boilers making it an ultra-efficient choice for heating, cooling, and hot water needs.

Compact Casing Design

Maximum Output, Minimal Footprint

Ideal footprint for commercial, large-scale applications, or boiler replacement where space optimization meets performance.

Top Operating Map

Extended performances all year-round

Up to 78ºC providing DHW, our heat pump is the perfect solution to replace or combine with a boiler in a wide range of segments.

A++ Energy Rating

Maximize Savings, Optimize Consumption

Our heat pump delivers the highest efficiency standards, helping you save on energy bills, achieve faster payback, and reduce environmental impact

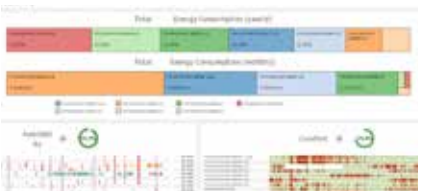
Smart Monitoring, Total Control

Stay Safe, Stay Connected, Stay in Control – Anytime, Anywhere with LennoxCloud

Our heat pump comes with Lennox Cloud Control, offering intelligent, remote monitoring, and real-time safety diagnostics. It will ensure that your system is always performing at the best ensuring safety at every moment for peace of mind.

Remote Access wherever you are.

- **Complete Remote Monitoring**: Access and manage all your heat pumps units, no matter their location or condition, from a single intuitive platform.
- **Comprehensive Multi-Unit Management**: Centralized access to data from multiple installations, giving you a bird's-eye view of your entire operation, streamlining your maintenance efforts.
- **Customizable Dashboard to make your life easiest**
- **User-Friendly Interface**: A self-explanatory, easy-to-navigate dashboard ensures you get the insights you need with minimal effort—just a glance is enough to stay on top of everything
- **Real-Time Data at Your Fingertips**: Effortlessly monitor critical heat pump parameters such as Inlet & Outlet temperatures, Outdoor temperature, system status (ON/OFF), generic and safety alarms.
- With LennoxCloud, take proactive action based on real-time data, keep your systems running smoothly, and make informed decisions—whether you're at the office, on-site, or halfway across the world.



ELEVATE: MARKET-LEADING SAFETY PACK

The strongest safety package available

At Lennox, the safety of our customers and installations is our top priority.

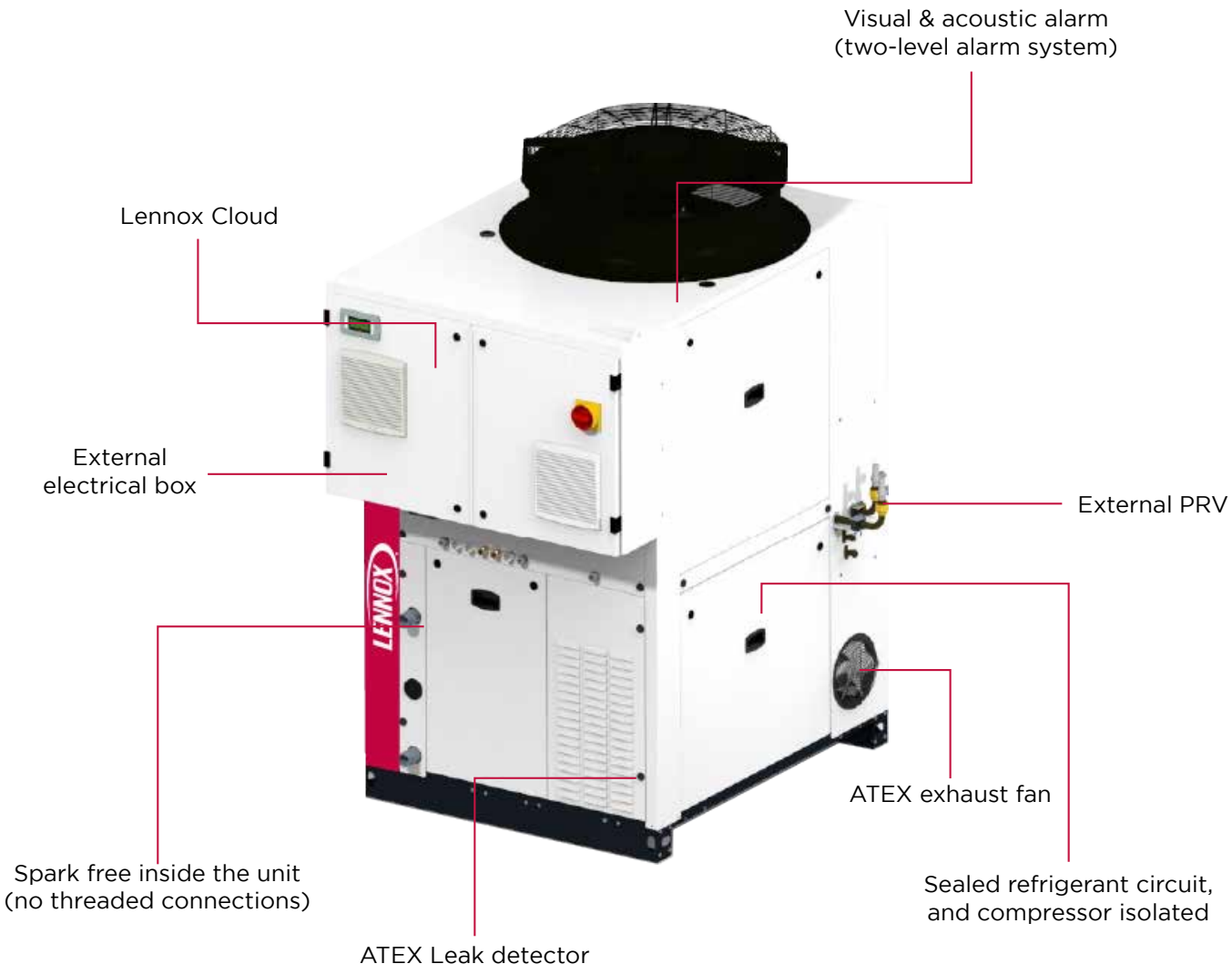
That's why Elevate has been engineered with a state-of-the-art safety package, incorporating advanced components and real-time monitoring systems to ensure consistent protection throughout the entire lifespan of our propane heat pumps.

In case of refrigerant leakage, a two-level alarm system is triggered: a visual signal activates at first detection, followed by a combined visual and acoustic alert if concentration rises, ensuring fast, clear, and safe intervention in ATEX environments.

From installation to daily operation, our commitment to safety is unwavering.

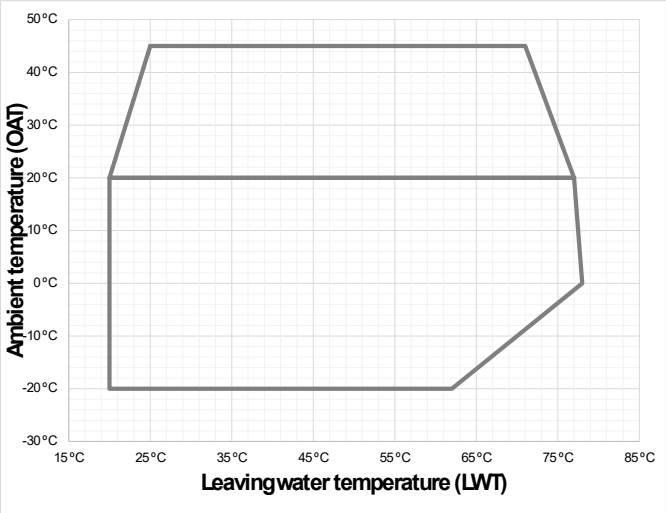
Certified & Tested for Maximum Security

Meets European safety standards -> CE, ATEX, EN 378.
Designed with built-in fail-safes -> Advanced software to manage critical scenarios.



EXTENDED OPERATION MAP: COMFORT WITHOUT LIMITS

Heating mode

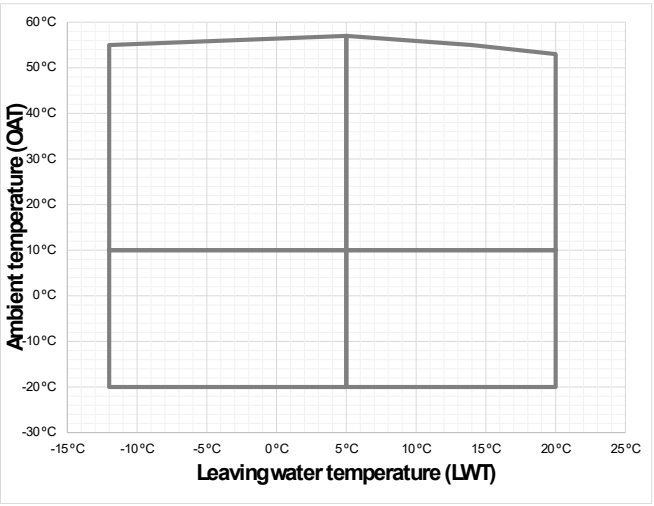


High Temperature Performance:
Up to 78 °C with no Compromise
Full comfort. Full power. All year long.

Our heat pump delivers exceptional high-temperature performance, reaching up to 78 °C leaving water temperature in part load, and 75 °C at full load.

With no derating up to +45 °C outdoor temperature, Elevate is the ideal solution for both comfort heating and high-demand domestic hot water production — all year round.

Cooling mode



Extreme Cooling Capability:
Performance Beyond Limits
Built to chill, even in the hottest environments.

Engineered for extreme conditions, Elevate maintains performance even in scorching climates, producing -12 °C leaving water temperature with up to +55 °C outdoor — making it the ideal choice for industrial, process, or critical cooling applications.

CENTRALIZED CONTROL SYSTEM:
Simplifying Efficiency, Enhancing Flexibility

eClimatic: One Hub, Total Control – Streamline Your HVAC Operations

Our advanced Centralized Control System is designed to provide seamless integration and effortless management of your heat pump solutions
Flexible and scalable solution growing with your needs
Enabling phased investments reducing initial costs
Quick installation and easy adaptable for future demands

1 Central Display, Seamless Control – Manage Up to 16 Units with ease

APPLICATION AREAS
Tailored for Every terrain - One Solution,Infinite Possibilitiies

COMMERCIAL APPLICATIONS

Office buildings

Shopping centres

Retails

Hotel

HEALTHCARE APPLICATIONS

Hospitals

Clinic

RESIDENTIAL APPLICATIONS

Apartments

Luxury houses

EDUCATIONAL APPLICATIONS

University

Student residence

LYFE STYLE APPLICATIONS

Gym

Swimming-pool

INDUSTRIAL APPLICATIONS

Data Center

Warehouses

Logistic centers

Factories

TECHNICAL DATA

				AVAILABLE	
Elevate - YBH				**45**	**60**
Heating mode					
Standard unit Full load performances *	HM1	Nominal capacity 30/35°C	kW	44,2	63,1
		COP 30/35°C	kW/kW	3,68	3,43
	HM2	Nominal capacity 40/45°C	kW	42,3	60,3
		COP 40/45°C	kW/kW	3,07	2,9
	HM3	Nominal capacity 47/55°C	kW	40,6	57,8
		COP 47/55°C	kW/kW	2,6	2,49
	HM4	Nominal capacity 55/65°C	kW	39,2	55,7
		COP 55/65°C	kW/kW	2,19	2,12
Seasonal energy efficiency **	HM1	**SCOP 30/35°C**	**kWh/kWh**	**4,13**	**4,13**
		ηs heat 30/35°C	**%**	**162**	**162**
		Energy label		A++	A++
	HM2	SCOP 40/45°C	kWh/kWh	3,56	3,57
		ηs heat 40/45°C	%	139,3	139,7
	HM3	SCOP 47/55°C	kWh/kWh	3,23	3,18
		ηs heat 47/55°C	%	126	124
		Energy label		A++	A++
	HM4	SCOP 55/65°C	kWh/kWh	2,90	2,78
		ηs heat 55/65°C	%	113	108
Cooling mode					
Standart unit Full load performances *	CM1	Nominal capacity 12/7°C	kW	38,9	50,4
		EER 12/7°C	kW/kW	2,77	2.67
	CM2	Nominal capacity 23/18°C	kW	53,3	69,4
		EER 23/18°C	kW/kW	3,6	3,5
	CM3	Nominal capacity -2/-8°C	kW	22,2	28,6
		EER -2/-8°C	kW/kW	1,72	1,63
Seasonal energy efficiency **		**SEER 12/7°C**	**kWh/kWh**	**4,9**	**4,75**
		ηs cool 12/7°C	**%**	**193**	**187**
		SEER 23/18°C	**kWh/kWh**	**6,61**	**6,32**
		SEPR 12/7°C	**kWh/kWh**	**6,64**	**6,43**
		SEPR -2/-8°C	**kWh/kWh**	**3,80**	**3,75**
Sound levels - Standard unit					
Sound power in heating mode① - Standard unit			**dB(A)**	**80,6**	**83,8**
Sound pressure in heating mode at 10 m② - Standard unit			dB(A)	48,7	51,9
Sound levels - Standard unit + LNCJ option③			**dB(A)**	**74,9**	**78,6**
Dimensions - Standard unit					
Length			mm	1350	1350
Width			mm	1593	1593
Height			mm	2120	2120
Operating weight ⑥					
Standard unit			kg	411	500
Standard unit + LNCJ③			kg	417	508
Standard unit + LNCJ③ + WTG④ + DPEH⑤			kg	609	710

*	In accordance with standard EN14511-3:2022.
**	In accordance with standard EN14825:2022, average climate
HM1	Heating Mode 1. Conditions: BPHE water entering/leaving temperature 30°C/35°C, outside air temperature = 7°C dbT/6°C wbT, BPHE fouling factor 0 m².K/W
HM2	Heating Mode 2. Conditions: BPHE water entering/leaving temperature 40°C/45°C, outside air temperature = 7°C dbT/6°C wbT, BPHE fouling factor 0 m².K/W
HM3	Heating Mode 3. Conditions: BPHE water entering/leaving temperature 47°C/55°C, outside air temperature = 7°C dbT/6°C wbT, BPHE fouling factor 0 m².K/W
HM4	Heating Mode 4. Conditions: BPHE water entering/leaving temperature 55°C/65°C, outside air temperature = 7°C dbT/6°C wbT, BPHE fouling factor 0 m².K/W
CM1	Cooling Mode 1. Conditions: Evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, BPHE fouling factor 0 m².K/W,
CM2	Cooling Mode 2. Conditions: Evaporator water entering/leaving temperature 23°C/18°C, outside air temperature 35°C, BPHE fouling factor 0 m².K/W
CM3	Cooling Mode 3. Conditions: Evaporator water entering/leaving temperature -2°C/-8°C, outside air temperature 35°C, BPHE fouling factor 0 m².K/W. Brine Ethylene Glycol at 30% in weight
ηs heat 30/35°C & SCOP 30/35°C	**Values in bold are compliant with Ecodesign regulation: (EU) No 813/2013 for Heat Pump application**
ηs heat 30/40°C & SCOP 40/45°C	**Values in bold are compliant with Ecodesign regulation: (EU) No 813/2013 for Heat Pump application**
ηs heat 55/65°C & SCOP 55/65°C	**Values in bold are compliant with Ecodesign regulation: (EU) No 813/2013 for Heat Pump application**
ηs heat 47/55°C & SCOP 47/55°C	**Values in bold are compliant with Ecodesign regulation: (EU) No 813/2013 for Heat Pump application**
SEER 12/7°C & SEER 23/18°C	Data in bold are compliant with Ecodesign regulation: (EU) No 2016/2281 for comfort cooling application
SEPR 12/7°C & SEPR -2/-8°C	Data in bold are compliant with Ecodesign regulation: (EU) No 2016/2281 & No 1095/2015 for process cooling application
①	Standard EN 12102-1
②	Standard EN 12102-1, ISO 3744 enveloping surface calculation method
③	Option: LNCJ = Low noise
④	Option: WTG = Water Tank (100l)
⑤	Option: DPEH = Hydraulic module with eDrive high-pressure twin pump
⑥	Values are guidelines only. Refer to the unit name plate.
dbT	Dry bulb temperature
wbT	Wet bulb temperature
BPHE	Brazed plate heat exchanger

OPTIONS & ACCESORIES

Description	Reference	Description	Reference
Acoustic / Ventilaton / Coil options		Water tank electrical heater Standard	WTHS
Low noise : rigid accoustic compressors jacket	LNCJ	Water filter (accesories)	WFIF
LenGuard anti-corrosion condenser coil treatment	ACTR	**Antifreeze options**	
Metallic grille on the top : coil protection (by default)	CPGR	Antifreeze protection on exchangers and piping down to -20°C	APEP
Refrigerant options		Antifreeze protection on exchangers, piping, pump(s) down to -20°C	APPP
Refrigerant leak detection (by default)	RLKD	**Control options**	
Low leaving water temperature down to -12°C	LLWT	Lennox Cloud GSM communication (by default)	CGSM
Unit delivered without refrigerent	UDWR	Lennox Cloud Ethernet communication	CETH
3 Way valve for Pressure relief valve	TWPR	BACnet® interface MSTP	BNET
Hydraulic options		ModBus interface RS485	MBUS
Hydraulic module with low-pressure single pump	SPLP	ModBus and BACnet® interface TCP/IP	MBIP
Hydraulic module with low-pressure twin pump	DPLP	Remote advanced display (accesories)	DM60
Hydraulic module with eDrive low-pressure single pump	SPEL	Service display (accessories)	DS60
Hydraulic module with eDrive low-pressure twin pump	DPEL	Remote control : customer drive contact input/output	DCBO
Hydraulic module with high-pressure single pump	SPHP	**Electrical and safety options**	
Hydraulic module with high-pressure twin pump	DPHP	Electric energy meter	ELME
Hydraulic module with eDrive high-pressure single pump	SPEH	Phase reversal protection	PHCT
Hydraulic module with eDrive high-pressure twin pump	DPEH	**Other options**	
Bypass Valve for delta P control with eDrive pump (accessories)	BYVC	Anti-vibration mounts rubber type (supplied loose)	AVUB
Expansion Tank	EXTA	Wooden crate for long distance	SLCR
Water tank 100L	WTNG		

Refer to your Lennox sales representative to confirm which options are not compatible