redge FORMERLY LENNOX

New !

Elevate

Reversible Propane Heat pump

PFAS FREE

R-290

NOMINAL CAPACITY

45 - 65 kW

MODULAR CAPACITY

up to 520 kW

Redge participates in the ECP programme for LCP-HP.
Check ongoing validity of certificate : www.eurovent-certification.com

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

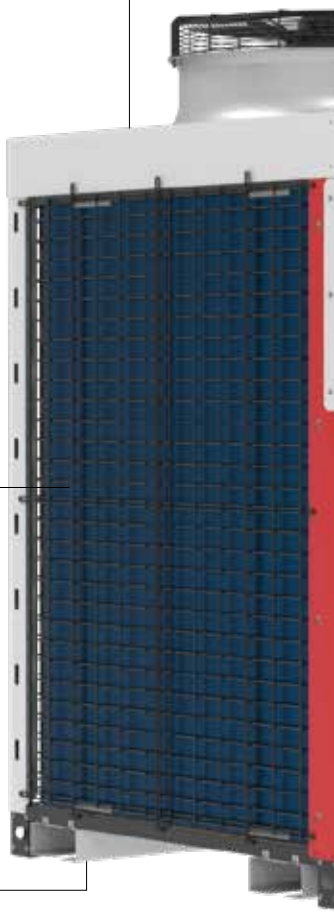
One solution, all applications: full inverter, compact and reliable heat pumps

Delivers high temperatures with outstanding efficiency and intelligent control

Built for safety: Market leading safety pack with advanced ATEX components, trusted in the field

SAFETY PACKAGE

External Electrical Cabinet External:
Electrical cabinet outside the refrigerant circuit zone, compliant with safety regulations, making maintenance faster and safer for technicians.
ATEX-Certified Leak Detector:
Propane (R290) leaks continuous monitoring, with instant safety protocols start preventing hazardous concentrations and protecting people.
Pressure Relief Valve:
Critical safety component, automatically discharging excess refrigerant pressure to ensure safe & reliable operation under all conditions.
Visual & Acoustic alarm:
Leak two-level alarm safety system : visual & acoustic activated in case of alert, ensuring safe intervention in ATEX environments.
ATEX-Certified Exhaust Fan:
Automatically activated when a leak is detected, safely extracting flammable gases and minimizing ignition risk for a safe operating environment.
Water/Refrigerant Separator:
Ensuring complete isolation, preventing any risk of refrigerant mixing with water, guaranteeing operational safety.
SIL2-certified safety chain: guaranteeing the highest level of reliability and protection.



eDRIVE

Variable speed drive pump option, which modulates the water flow through the plate heat exchanger and reduces energy costs:

Saves energy consumption especially at part-load conditions and during off period, reaching up to 75% reduction of the pump consumption.
Savings on the initial system cost, due to fewer pumps and piping connections than primary-secondary systems.
Flexibility and accuracy of the pump operation control: smooth start and stop, gradual change of speed, accuracy and stability of control.
Reduction of the repeated stress on the pump and piping resulting in longer equipment lifetime.
Elimination of the start-up current thanks to variable frequency drive that controls a gradual pump motor supply.

CONTROL

eClimatic electronic controller and intelligent control parameters optimising part-load efficiency.
Integrated communication solutions offering flexibility (master/slave, Modbus, BACnet).
DC Advanced display, equipped with a graphic screen providing access to the main user parameters, with two optional displays:
- Remote Display
- Service Display

eCLIMATIC

DC Advanced

ACOUSTIC COMFORT

Three different noise level configurations available:

Quiet operation (standard), achieved with compact design, silent compressors and pumps, and with high-performance propeller fans, all installed in a closed box.
Low noise level option: High performance acoustic compressor casing can halve the noise produced by the unit.
Active Acoustic Attenuation System with variable fan speed allows progressive adaptation of the unit to the building load while respecting the noise level constraints and the operating limits (as an option).

CASING & DESIGN

Casing made of white painted galvanised steel.
Compact design.
All thermodynamic and hydraulic components installed below the coils.

THERMODYNAMIC SYSTEM

High-efficiency coil design for faster heating response and long-term reliability
#Stainless steel brazed plate heat exchanger for optimal transfer in low-temperature systems
EC fans for silent, adaptive airflow with ultra-low energy consumption
Inverter compressor that adapts to any condition, delivering stable heating, cooling, and DHW (even in coldest climates)

SMART MONITORING & TOTAL CONTROL WITH REDGE CLOUD

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.

Photos and illustrations are not contractual.

Y(A) B(B) H(C) 45(D) S(E) Y(F) 1(G) M(H)

(A) **Y** = Elevate
(B) **A** = Inverter compressor
(C) **H** = Heating optimized
(D) **45** = Approximate power in kW
(E) **S** = Single circuit
(F) **Y** = Refrigerant Propane
(G) **1** = Revision number
(H) **M** = 400V/3/50Hz

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
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