WESTON

CLIMATE

AIR TO WATER HEAT PUMP

R290 COMMERCIAL SERIES · 50 / 75 / 100 kW

westonclimate.pl

R290 – THE NATURAL CHOICE FOR A BETTER FUTURE

Low GWP. High Efficiency. 100% Green.

R290, or propane, is a natural refrigerant with zero ozone depletion potential (ODP = 0) and extremely low global warming potential (GWP = 3). It is increasingly being adopted in heat pump systems as an environmentally responsible alternative to traditional HFC refrigerants.

At Weston Climate, sustainability is at the core of what we do. By offering heat pumps that run on R290, we are contributing to a cleaner planet and helping our customers reduce their carbon footprint.

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GWP = 3

99% lower than conventional refrigerants

High Energy Efficiency

Reduced consumption, lower emissions

Safe & Certified

Meets EN378 / IEC international standards

Natural Refrigerant

Non-toxic, ozone-friendly

Ready for the Future

F-Gas regulation compliant

Rated A+++ at 35°C and A++ at 55°C flow temperature, Weston Climate R290 commercial heat pumps deliver outstanding seasonal performance. With leaving water temperatures up to 75°C, they suit underfloor heating, fan coils and high-temperature radiators alike.

Thanks to its low-charge design, R290 reduces operating costs while ensuring long-term sustainability. Designed for commercial buildings, the units are quiet and reliable, and meet the most demanding safety and climate regulations.

SMART CONTROL

Wired Controller

- 7 inch / 4 inch LCD touch screen
- Error code display and query
- Multiple languages
- 16-unit cascade
- Built-in temperature sensor
- Built-in WiFi module
- Built-in 4G module (optional)
- Wired controller and thermostat functions combined into one
- Multi-temperature zones
- SG-ready

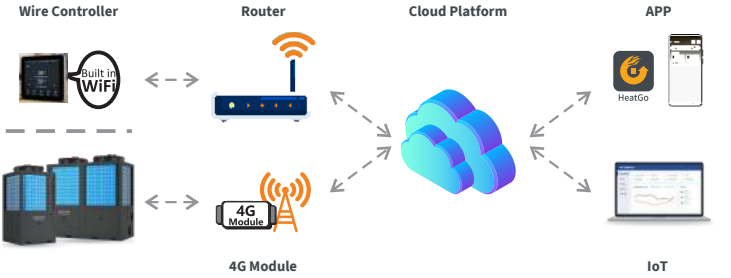
App

- Operating status query
- Error query
- Power consumption statistics
- Schedule setting
- Time setting
- Mode selection
- Multi-temperature zones
- Support engineering mode
- Multi-household management

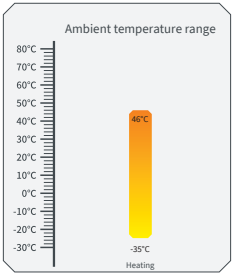
IoT

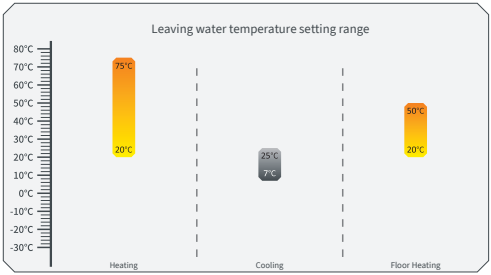
- Device information collection
- Operation Data Collection and Viewing
  - Parameter checking and setting
  - Operation curve
  - Troubleshooting
- OTA
  - Fix code defects quickly
  - Remote mainboard upgrade
- Project Engineering Management

REMOTE CONTROL MANAGEMENT



R290 COMMERCIAL AIR TO WATER HEAT PUMP





Modes:

Radiator/
Fan Coil Heating

Floor Heating

Cooling

Domestic
Hot Water

Features:

- R290 Natural Refrigerant: Near-Zero GWP for ultimate eco-friendliness.
- Full Inverter Technology: Highly efficient, perfectly constant, built to last.
- Leading Efficiency: A+++ at 35°C, A++ at 55°C.
- EVI Technology: Significantly boosts low-temperature heating capacity and efficiency, stable heating output down to -35°C.
- 75°C High-Temperature Output: Perfectly compatible with traditional high-temperature radiators.
- 3-in-1 Solution: Heating, Cooling and Domestic Hot Water in one unit.
- Domestic Hot Water up to 75°C, freely set by the user on the controller.
- High-Temperature Sterilization: protects domestic hot water against Legionella.
- Quiet Operation: 43–59 dB(A) depending on operating capacity.

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SPECIFICATION

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Model		WESTON-GH-MN-R290-50KW-3F	WESTON-GH-MN-R290-75KW-3F	WESTON-GH-MN-R290-100KW-3F
Power Supply		380V~415V/3N/50Hz		
Nominal Heating (Max) (A7/6°C,W30/35°C)				
Heating Capacity	kW	18.50~50.50	25.00~76.0	35.50~105.00
Power Input	kW	3.95~14.80	5.75~21.71	7.95~30.43
COP	/	3.5~4.70	3.55~4.65	3.5~4.62
Nominal Heating (Max) (A7/6°C,W47/55°C)				
Heating Capacity	kW	10.85~40.00	19.58~67.27	26.85~93.45
Power Input	kW	3.74~13.79	6.19~26.91	8.52~37.38
COP	/	3.02~3.52	2.50~3.38	2.55~3.28
Nominal Cooling (Max) (A35/24°C,W12/7°C)				
Cooling Capacity	kW	10.15~28.50	13.5~48.5	16.20~65.50
Power Input	kW	3.63~12.95	6.91~20.90	7.35~33.41
EER	/	2.20~2.70	2.00~2.45	2.00~2.50
Max Power Input	kW	19.3	30.5	40.5
Max Current	A	35.0	54.5	82.0
ERP Level (35°C)/(55°C)	/	A+++/A++		
Maximum Allowable Pressure	MPa	3.2		
Refrigerant	/	R290		
Electrical Shockproof	/	I		
Compressor Quantity	/	1	2	
Fan Motor Quantity	/	1	2	
Fan Motor Type	/	DC		
Expansion Valve	/	EEV/sanhua		
Air Flow Direction	/	Vertical		
IP Class	/	IPX4		
Water Flow Volume	m^3/h	6.0	9.0	12.5
Water Pressure Drop	kPa	65	75	76
Working Temperature Range	°C	-35~46		
Noise	dB(A)	55(39-55)	62(54-72)	
Water Connection	/	G3/2	Flange DN80	
Net Weight	kg	450	780	900
Net Dimensions(L×W×H)	mm	1100×1100×2150	2200×1100×2255	
Packed Dimensions(L×W×H)	mm	1144×1144×2250	2260×1160×2385	

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Clean air. The right temperature.

WMD Company Sp. z o.o.

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