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WESTON
CLIMATE

HEAT PUMP



Heating



Cooling



Hot water



A+++ / A+++

Climastar Series

R290 COMMERCIAL HEAT PUMP

R290



Natural Refrigerant

A+++ / A+++

(35°C / 55°C)



GWP=3

- **GWP=3**, R290 is an ideal alternative to hydrofluorocarbons (HFCs).
- Comply with the regulatory requirements to reduce greenhouse gas emissions.
- This commercial heat pump maintains an **A+++** energy efficiency rating at both 35°C and 55°C, showcasing excellent performance consistency.



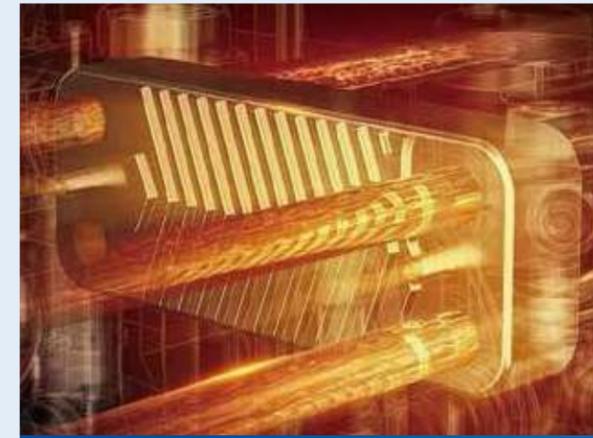
Full DC Inverter Technology Precise Temperature Control

DC Inverter Compresso

- Using the famous brand Mitsubishi's Inverter Compressor designed for R290 heat pump
- The integration of asymmetrical sliding vane slot and high-precision grinding technology improves efficiency while reducing noise.



Increased Heat Transfer Efficiency



Water-side Plate heat exchanger

The system using a high-efficiency plate heat exchanger on the water side, can offer superior heat transfer performance compared to traditional shell and tube heat exchangers.



Air-side Hydrophilic copper tubes and aluminum fins

The air-side heat exchanger uses high-efficiency hydrophilic copper tubes and aluminum fins. It is designed to optimize the refrigerant flow path, significantly improving heat exchange efficiency.

Intelligent AI Defrosting



- This system utilizes AI defrost technology that dynamically adjusts the defrosting parameters based on the ambient temperature and operating status. It precisely initiates defrosting mode only when needed, avoiding unnecessary defrost cycles when there is no frost.

Optimized Fan with DC Motor

- The DC inverter fan motor allows to steplessly adjust the fan speed based on the ambient temperature to optimize the unit's performance.
- Large size serrated streamlined fan blades improve aerodynamic efficiency while effectively reducing fan noise.



Seven Noise Reduction Measures

Thicken Chassis

Gas Flow Buffer technology

Fan Motor Speed Control Design

Large Size Fan Blades Design

Serrated Streamlined Blade Design

360° Surrounded Soundproof Compressor Chamber

Two-layer Damping Bases for Compressor



7-inch Touch Screen Controller



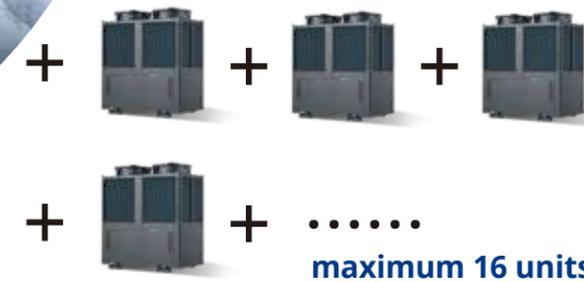
- Switch on and off
- WiFi setting
- Electricity statistics
- Three mode switching
- Temperature setting
- Timing setting
- Fault alarm
- User parameter setting
- Defrost mode setting
- Holiday mode setting

Unique Drain Pan Design

- The drain pan features a slide-shaped drainage groove design, allowing for smoother water drainage and reducing residual water.
- A built-in heating strip prevents ice formation in the drain pan during low-temperature defrosting.



Group Control



Maximum 16 units as one group to work together with one controller. Multiple such groups can be configured to meet large-scale heating and cooling needs.

Multiple Safety Designs

- A separate cooling air duct on the drive board
- An Independent electrical box isolated from refrigerant piping
- A hollow design of the unit's base frame to avoid refrigerant gas accumulation



Product Lineup



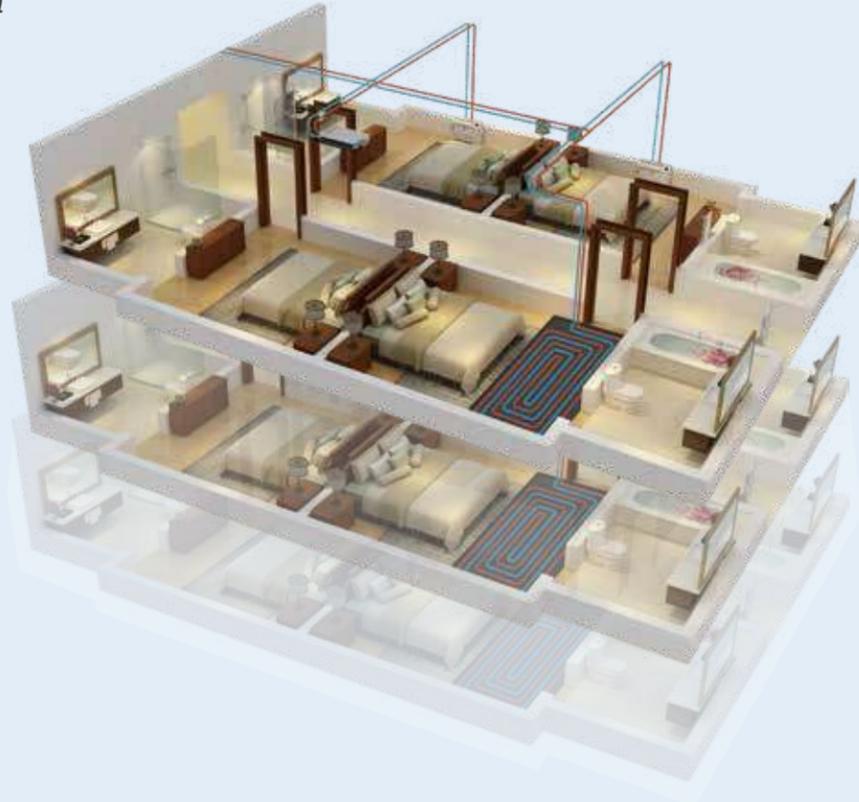
50 kW



100 kW

Commercial Heat Pump Application

Large-scale heating and cooling solution



Model: NE-F		50 kW	100 kW
Prated (Pdesignh@A-10°C/W35°C, average climate) (kW)		34	66
Prated (Pdesignh@A-10°C/W55°C, average climate) (kW)		32	60
SCOP (W35°C, average climate) (W/W)		5.1	5.1
SCOP (W55°C, average climate) (W/W)		4.0	3.9
ErP Level (W35°C, average climate)			A+++
ErP Level (W55°C, average climate)			A+++
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.			
Heating Capacity (kW)		13.62~50.00	27.24~100.00
Power Input (kW)		2.34~11.68	4.68~23.98
Heating Current Input Range (A)		3.95~19.72	7.90~40.48
COP (W/W)		5.82~4.28	5.82~4.17
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.			
Heating Capacity (kW)		12.26~46.00	24.52~92.00
Power Input (kW)		2.99~15.43	5.98~32.62
Heating Current Input Range (A)		5.04~26.04	10.08~55.06
COP (W/W)		4.10~2.98	4.10~2.82
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.			
Cooling Capacity (kW)		7.60~35.00	15.20~70.00
Power Input (kW)		1.76~12.36	3.52~27.02
Cooling Current Input Range (A)		2.97~20.86	5.94~45.62
EER (W/W)		4.30~2.83	4.30~2.59
[Water Heating] Ambient Temp. (DB/WB): 20°C / 15°C, Water Temp. (Inlet/Outlet): 15°C/55°C.			
Cooling Capacity (kW)		60.00	120.00
Power Input (kW)		13.04	26.25
Cooling Current Input Range (A)		22.02	44.33
COP (W/W)		4.60	4.57
Max. Power Input (kW)		22.00	44.00
Max. Running Current (A)		37.20	74.70
Max. Outlet Water Temperature (°C)			75
Operating Ambient Temperature (°C)			-25~43
Power Supply (V/Ph/Hz)			380-415V/3N-/ 50Hz
Display			7-inch Colored Touch Screen
Refrigerant Type			R290
Refrigerant Weight (kg)		2.0×2	2.0×4
Sound Pressure Level at 1m (dB(A))		58	60
Sound Power Level (dB(A))		75	77
Rated Water Flow (m³/h)		8.6	17.2
Water Pressure Drop (kPa)		25	28
Water Pipe Connection		DN50	DN65
Direction of Air Discharge			Top
Fan/Motor Type			Axial/DC
Fan Quantity (PCS)		1	2
Ingress Protection Rating			IPX4
Electric Shock Protection Class			I
Net Weight (kg)		450	890
Net Dimensions (L×W×H) (mm)		1095×1315×2435	2190×1315×2435

Notice: The above data is for reference only. The specs data is subject to actual product.