

Commerical Hot Water Heat Pump Water Heater

For Central Hot Water / Heating System



60°C

Max Hot Water
Temperature



-10°C

Ambient
Temperature

Mercurius Series



Parameter



NL-G3B-G5B-G6B



NL-G8B-G10B-G12B



NL-G20B-G24B-G30B-G40B-G50B-G60B

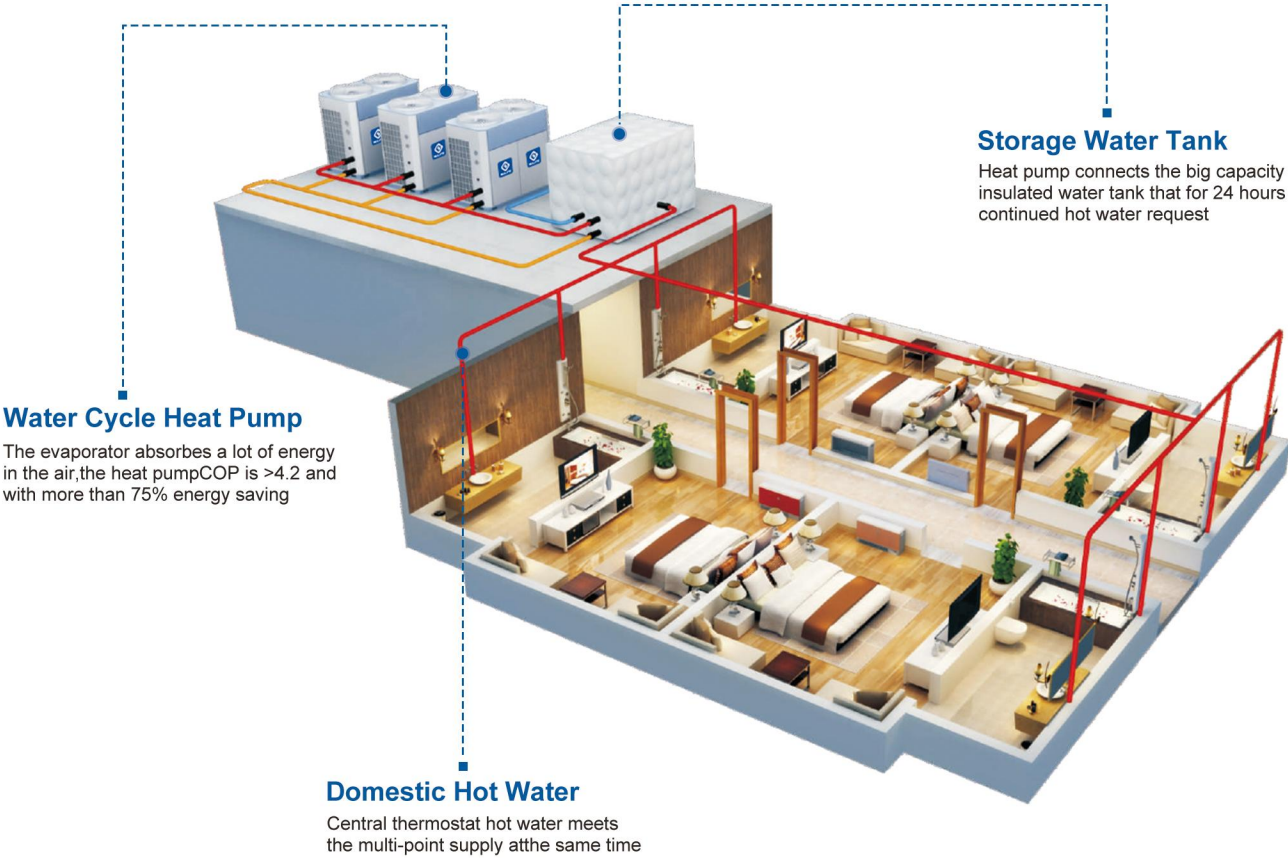
Model Name	NL-G3B	NL-G5B	NL-G6B	NL-G8B	NL-G10B	NL-G12B
Power Source	220V/50Hz~380V/50Hz			380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp.	60°C	60°C	60°C	60°C	60°C	60°C
Heating Capacity	11.4KW	19.7KW	23KW	30.5KW	38.5KW	44.7KW
Rated Input Power	2.57KW	4.45KW	5.3KW	7.2KW	8.73KW	10.11KW
Max Input Power	3.72KW	6.4KW	7.63KW	9.8KW	12.57KW	14.56KW
Max Current	6.7A	11.4A	13.6A	17.5A	22.4A	26A
Water Flow	2m³/h	3.4m³/h	4.1m³/h	5.3m³/h	6.6m³/h	7.7m³/h
Noise Level	≤56dB(A)	≤58dB(A)	≤58dB(A)	≤62dB(A)	≤64dB(A)	≤64dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-10°C~43°C					
Pipe diameter	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	720x720x930	830x830x1100	830x830x1100	1520x800x1235	1520x800x1235	1520x800x1235
Net Weight	95kg	125kg	138kg	250kg	265kg	280kg

Model Name	NL-G20B	NL-G24B	NL-G30B	NL-G40B	NL-G50B	NL-G60B
Power Source	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp	60°C	60°C	60°C	60°C	60°C	60°C
Heating Capacity	72KW	90.3KW	115KW	140KW	180KW	230KW
Rated Input Power	18KW	20.3KW	27.8KW	36KW	41KW	56KW
Max Input Power	23.5KW	28.4KW	34.8KW	46KW	57KW	69KW
Max Current	41.9A	50.8A	62.3A	84A	106.4A	125A
Water Flow	13.5m³/h	15.5m³/h	19.5m³/h	28m³/h	32m³/h	41m³/h
Noise Level	≤68dB(A)	≤68dB(A)	≤70dB(A)	≤72dB(A)	≤74dB(A)	≤76dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-10°C~43°C					
Pipe diameter	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	2000x950x2060	2000x950x2060	2000x950x2060	2500x1250x2240	2500x1250x2240	2500x1250x2240
Net Weight	600kg	700kg	850kg	1150kg	1350kg	1500kg

The specifications are based on: DB Temperature 20°C ,WB Temperature 15°C ,In/Out 15°C /55°C.

Notice: the above data is for reference only, the specific data is subject to actual product.

Commercial Heat Pump



Multi-protection & Long Service Life

Water Flow Switch Protection
When the volume of the inlet water is lower than minimum set point, the unit automatically shuts down to protect the system. When the volume increases to a normal level, the unit starts up again.

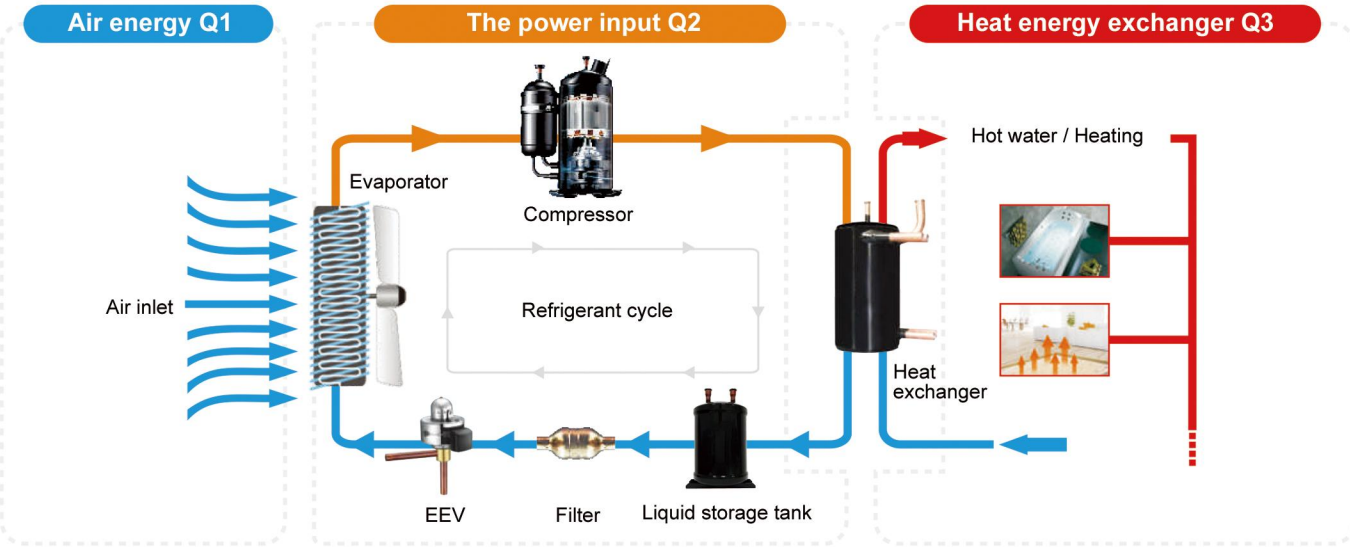
Antifreezing Protection
When the water inlet temp. is too low, the water pump starts up automatically to protect the system.

High/Low Pressure Protection
The High/Low pressure switch that monitors the pressure and shut down the unit when pressure rises above or drops below the desired set point.

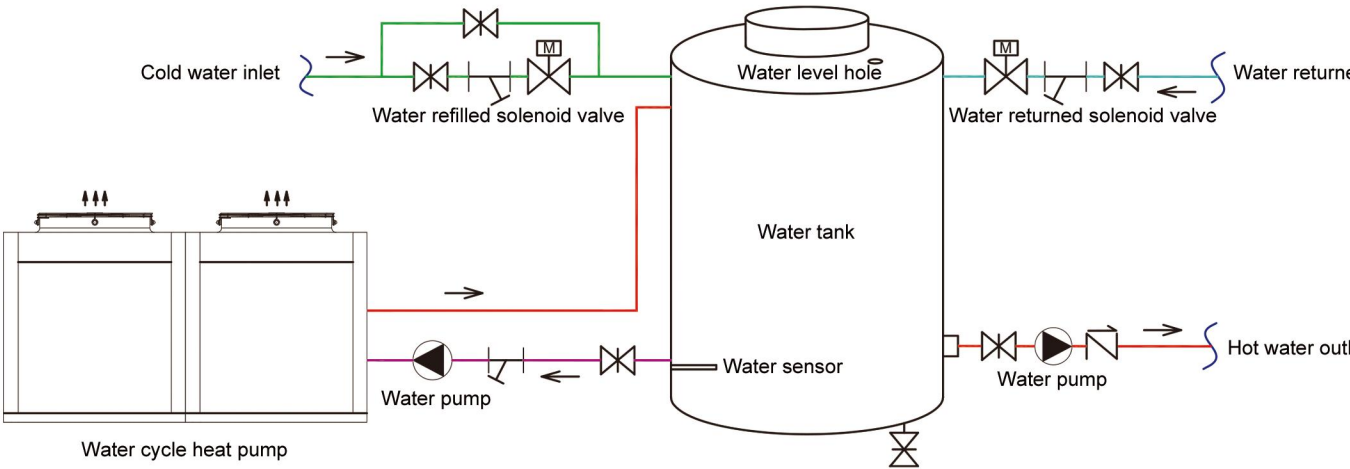
High Discharging Temp. Protection
The unit will shut down automatically when the compressor discharging temp. rises above 110°C and start up again when the temperature drops below 85°C.

Compressor Overload Protection
When the compressor is working overload, the unit will stop working to protect the whole system.

Working Principle



Commercial Installation Diagram



MAIN COMPONENTS

Hydrophilic corrugated fin evaporator
Evaporator hydrophilic corrugated fin, arranged in rows, the windward area, good heat absorption, not easy to frost.

International famous brand control chip
Adopt international famous brand chip, transistor regulator technology, anti-interference ability to protect the powerful, good stability, 485 communication interface, linked switch.

High efficient heat exchanger
Dedicated coaxial threaded tube in tube heat exchanger, efficient tube in shell heat exchanger, high heat transfer efficiency, corrosion resistance and other high-quality performances.

Copeland zw series compressors
Using the USA Copeland ZW series fully enclosed scroll heat pump dedicated compressor, very high performance, resisted high pressure, resisted high temperature, low noise, long service life.