

GARDEN PAC INVERTECH HEAT PUMP SPECS

Model	GHD-150-0249	GHD-150-0250	GHD-150-0251	GHD-150-0252	GHD-150-0253	GHD-150-0254	GHD-150-0255	GHD-150-0256	GHD-150-0258	GHD-150-0259
Advised pool volume (m3)	15~30	20~40	25~45	30~55	35~65	40~75	50~95	65~120	65~120	90~160
Operating air temperature (°C)	-7~43									
Performance Condition: Air 26°C, Water 26°C, Humidity 80%										
Heating capacity (kW)	6.5	8.4	10.3	12.8	15.0	17.3	20.4	27.3	27.0	35.6
COP	14.0~5.7	14.1~7.0	14.5~6.9	15.0~7.4	15.5~6.7	14.8~5.9	14.5~5.7	14.6~6.2	14.5~6.2	14.6~5.5
COP at 50% capacity	10.0	10.3	10.4	11.0	10.9	10.5	10.2	10.8	10.8	10.3
Performance Condition: Air 15°C, Water 26°C, Humidity 70%										
Heating capacity (kW)	4.8	6.1	7.1	8.3	10.5	11.4	14.0	18.0	18.0	24.0
COP	7.1~4.3	7.0~4.8	7.3~4.6	7.7~4.8	7.8~4.6	7.5~4.3	7.4~4.2	7.8~4.6	7.6~4.5	7.7~4.5
COP at 50% capacity	6	6.3	6.4	6.8	6.6	6.1	6.1	6.5	6.5	6.8
Sound pressure at 1m dB(A)	37.8~47.2	38.8~48.2	38.6~49.9	42.1~50.7	41.3~54.0	43.1~53.8	40.9~54.2	43.5~54.9	43.5~54.9	42.6~54.7
Sound pressure of 50% capacity at 1m dB(A)	40.1	41.4	43.3	45.7	46.0	46.5	46.4	48.4	48.4	45.8
Sound pressure at 10m dB(A)	17.8~27.2	18.8~28.2	18.6~29.9	22.1~30.7	21.3~34.0	23.1~33.8	20.9~34.2	23.5~34.9	23.5~34.9	22.6~34.7
Compressor	Twin-rotary Mitsubishi DC inverter									
Heat exchanger	Spiral titanium tube in PVC									
Power supply	230V/1 Ph/50Hz					400V/3 Ph/50Hz				
Rated input power at air 15°C (kW)	0.13~1.1	0.17~1.2	0.19~1.5	0.22~1.73	0.27~2.2	0.3~2.6	0.38~3.3	0.57~3.8	0.53~3.9	0.62~5.2
Rated input current at air 15°C (A)	0.56~4.78	0.74~5.2	0.83~6.5	0.96~7.52	1.17~9.6	1.3~11.3	1.65~14.3	2.48~16.5	0.76~5.6	0.89~7.4
Max input current (A)	6.5	8.0	9.0	10.0	11.0	13.5	17.5	21.0	7.0	9.5
Circuit breaker (A)	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	10.0	16.0
Power cord (mm ²)	3×1.5	3×1.5	3×2.5	3×2.5	3×2.5	3×2.5	3×4	3×6	5×2.5	5×2.5
Advised water flux (m ³ /h)	2~4	2~4	3~4	4~6	5~7	6.5~8.5	8~10	10~12	10~12	12~18
Water pipe in-out size (mm)	50									
Net dimension LxWxH (mm)	961×340×658	961×340×658	961×340×658	961×340×658	961×340×658	961×420×658	961×420×758	1092×420×958	1092×420×958	1161×530×958
Net Weight (kg)	42	45	49	50	52	63	68	90	93	120

** The advised pool volume indicated applies under following conditions: Swimming pool covered with an insulated cover; System is running at least 15 hours per day; Heating season from 15th April to the 15th October. If these conditions are not met, pls kindly ask for the professional advice.
**Above data is subject to modification without notice for technical upgrade.

IN EXTREME SILENCE
— It's an inverter age



Garden PAC InverTech — The most silent Heat Pump ever

Garden PAC InverTech is powered by unique Full-inverter technology.

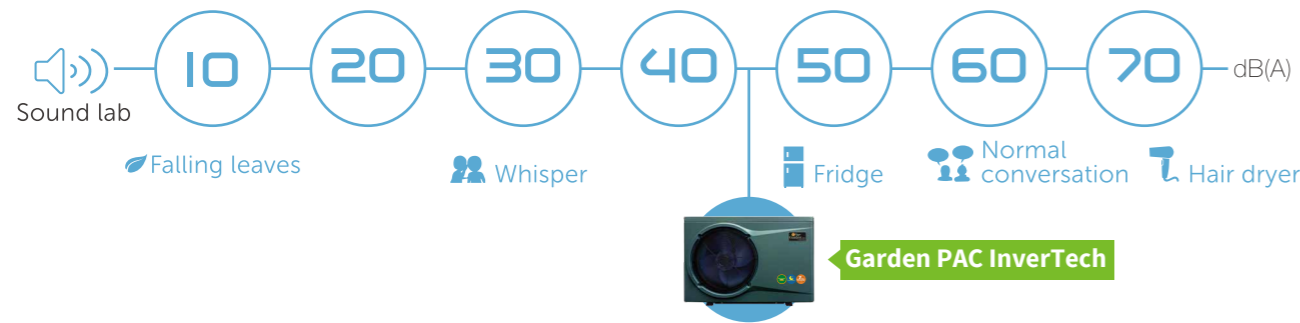
It is a stepless-inverter powered by a Full-inverter compressor & Full-inverter fan motor, which adjusts the compressor speed hertz by hertz, and fan speed rotation by rotation.

A high-quality inverter is mainly designed for low speed running which leads to minimum noise, maximum COP, and long working life.



➤ 10 times quieter

When maintaining pool temperature by an AVERAGE of 50% capacity, the AVERAGE sound pressure of a GardenPAC InverTech can create a swimming pool environment 10 times quieter and more friendly to the neighborhood than an On/Off Heat Pump.



AVERAGE sound pressure at 1m dB(A)

Capacity	Model COP	GHD-150-0249	GHD-150-0250	GHD-150-0251	GHD-150-0252	GHD-150-0253	GHD-150-0254	GHD-150-0255	GHD-150-0256	GHD-150-0258	GHD-150-0259
20% capacity		37.8	38.8	38.6	42.1	41.3	43.1	40.9	43.5	43.5	42.6
50% AVERAGE capacity		40.1	41.4	43.3	45.7	46.0	46.5	46.4	48.4	48.4	45.8
100% capacity		47.2	48.2	49.9	50.7	54.0	53.8	54.2	54.9	54.9	54.7



Neighbour Friendly: the AVERAGE sound pressure of a GardenPAC InverTech is 45.8dB(A) at 1m. It is 10 times quieter than an On/Off Heat Pump and can even be negligible.

➤ HALF running cost — AVERAGE COP 11 at 50% capacity, COP 15 at 20% capacity

(COP means Coefficient of Performance, it is a ratio of heating capacity to power consumption)

AVERAGE COP 11 at 50% capacity (Air 26°C / Water 26°C / Humidity 80%)

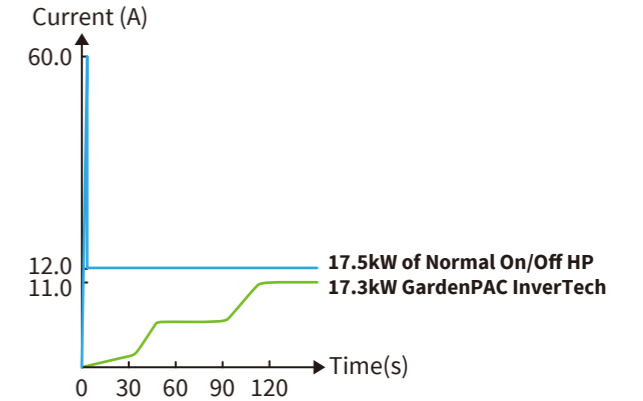
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20% capacity		14.0	14.1	14.5	15.0	15.5	14.8	14.5	14.6	14.5	14.6
50% AVERAGE capacity		10.0	10.3	10.4	11.0	10.9	10.5	10.2	10.8	10.8	10.3
100% capacity		5.7	7.0	6.9	7.4	6.7	5.9	5.7	6.2	6.2	5.5



In 180 days swimming season, GardenPAC InverTech's AVERAGE COP is double of a On/Off Heat Pump, which means its season power consumption is just half of an On/Off Heat Pump.

➤ Soft start

When GardenPAC InverTech turns on, the current will start from 0A and slowly increase to the rated current in 2 minutes. It will not affect the house electricity system, while the start current of Normal On/Off Heat Pump is 5 times the rated current, and it is a burden to the electricity system.



➤ WiFi optional

1. Real-time monitoring
2. Control anytime anywhere
3. Automatically heating & cooling



Other features

1 Powered by Twin-rotary Mitsubishi DC inverter compressor

- Based on "Twin mechanism" innovative solution, two rotors operate together to balance the torque for anti-shaking. It leads to the highest efficiency, extremely low vibration & quiet operation.



2 Electric Expansion Valve Installed

It permits very precise & flexible gas flow depending on different ambient temperatures. The gas flow adjustment range is 10 times more than Tx-valve/capillary designs. Performance is 20% higher.

3 Automatic defrosting

InverTech will detect the working condition at real time, when the ambient temperature is getting lower than -7°C and the evaporator becomes frosted, it will start defrosting automatically.