



INSTALLATION AND USER MANUAL

Thank you for choosing inverter heat pump.
This manual provides you necessary information for optimal
use and maintenance, please read it carefully and keep it for
subsequent use.

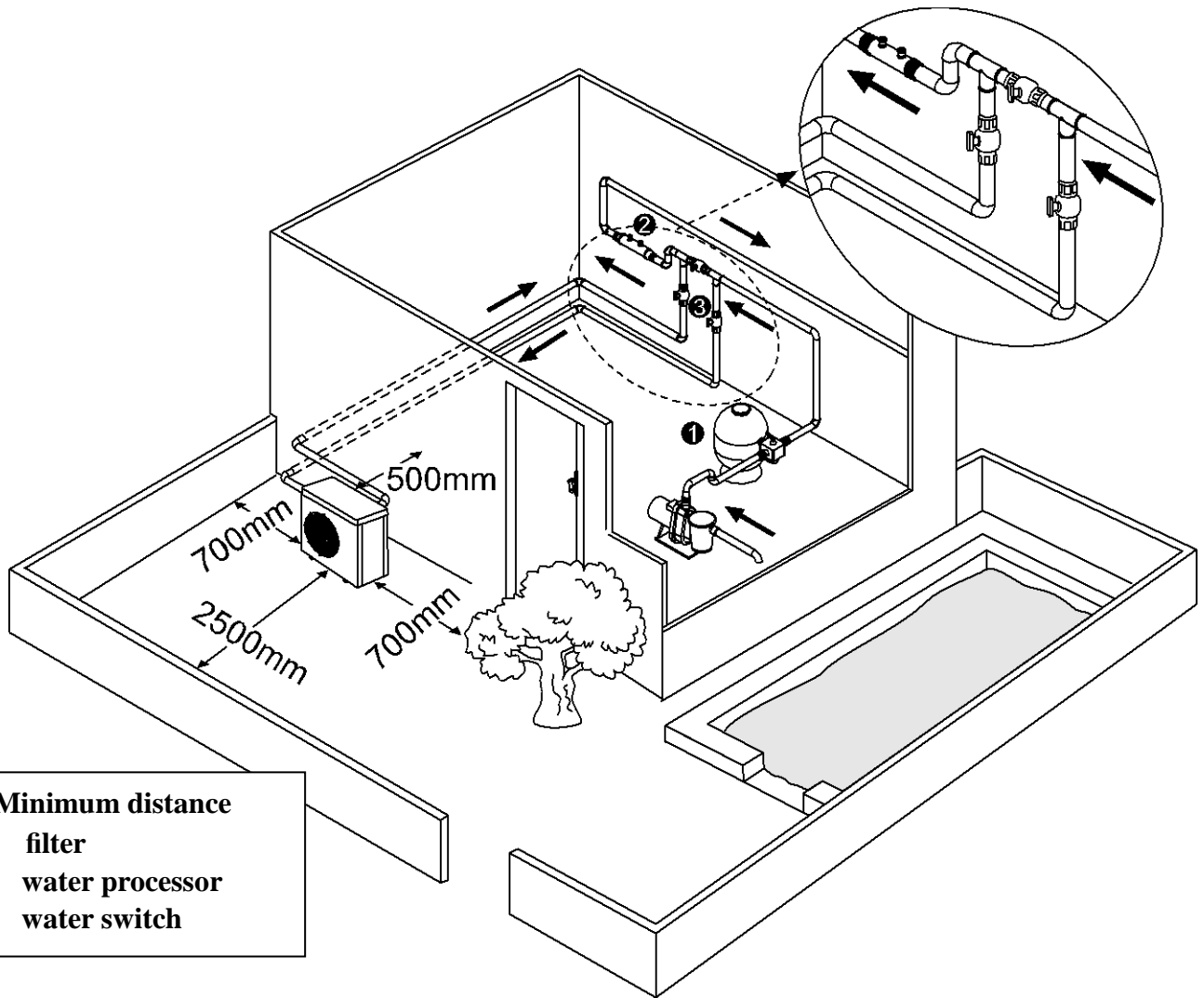


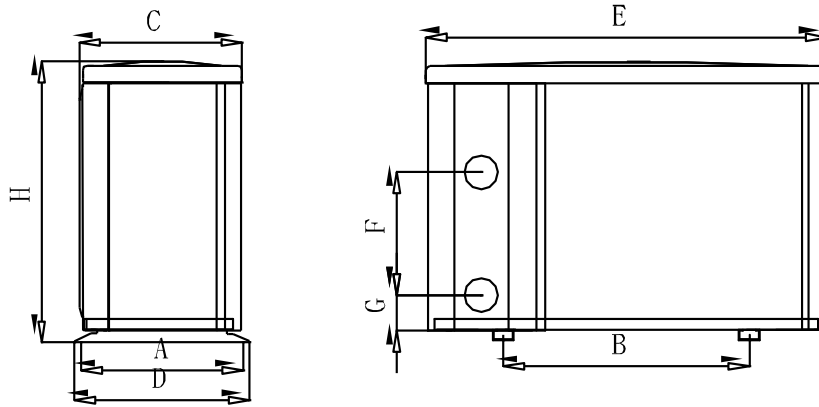
> 3. Technical specification

Model	GHD-150 -0191		GHD-150 -0185	GHD-150 -0186		GHD-150 -0188		
Applied pool volume (m ³)	20~40		30-60	40-75		65-120		
Working air temp (°C)	-7~43							
Performance Condition: Air 26°C, Water 26°C, Humidity 80%								
Heating capacity (kW)	9.8		13.3	17.3		27.9		
Heating capacity (kW) in silence mode	7.8		10.4	13.8		21.8		
C.O.P	6.4~15.0		6.4~15.0	6.3~15.2		6.3~15.3		
C.O.P in silence mode	7.4~15.0		7.4~15.0	7.3~15.2		7.3~15.3		
Performance Condition: Air 15°C, Water 26°C, Humidity 70%								
Heating capacity (kW)	6.5		9.4	11.4		18.0		
Heating capacity (kW) in silence mode	5.1		7.4	8.8		14.6		
C.O.P	4.4~7.6		4.4~7.6	4.3~7.8		4.4~7.9		
C.O.P in silence mode	5.1~7.6		5.1~7.6	5.2~7.8		5.1~7.9		
Rated input power(kW)	1.4~0.2		2.1~0.25	2.6~0.33		4.0~0.58		
Rated input current (A)	6.4~0.86		9.1~1.1	10.9~1.4		17.4~2.5		
Max input current(A)	9.0		11.0	13.5		21.0		
Power supply	230V/1 Ph/50Hz							
Advised water flux (m ³ /h)	3~4		5~7	6.5~8.5		10~12		
Sound pressure 1m dB(A)	39.3~48.0		42.8~52.1	44.2~52.9		48.6~55.5		
Sound pressure 10m dB(A)	19.3~28.0		22.8~32.1	24.2~32.9		28.6~35.5		
Water pipe in-out Spec (mm)	50							
Net Dimension LxWxH (mm)	961x312x658		961*312*658	961*392*658		1090*420*960		
Net Weight (kg)	45		52	63		90		

1. The values indicated are valid under ideal conditions: Pool covered with an isothermal cover, filtration system running at least 15 hours a day.
2. Related parameters are subject to adjustment periodically for technical improvement without further notice. For details please refer to nameplate.

 The heat pump should be installed in a place with good ventilation





Size(mm) / Name / Model	A	B	C	D	E	F	G	H
GHD-150-0191	315	590	312	340	961	280	74	658
GHD-150-0184								
GHD-150-0185	315	590	312	340	961	340	74	658
GHD-150-0186	395	590	392	420	961	390	74	658
GHD-150-0187								
GHD-150-0188	395	720	391	420	1092	620	74	958
GHD-150-0189								
GHD-150-0190								

※Above data is subject to modification without notice.

2.2.2. Heat pump installation.

- ① The frame must be fixed by bolts (M10) to concrete foundation or brackets. The concrete foundation must be solid; the bracket must be strong enough and anti-rust treated;
- ② The heat pump needs a water pump (Supplied by the user). The recommended pump specification-flux: refer to Technical Parameter, Max. lift $\geq 10\text{m}$
- ③ When the heat pump is running, there will be condensation water discharged from the bottom, please pay attention to it. Please insert the drainage tube(accessory) into the hole and clip it well, then connect a pipe to drain off the condensation water.

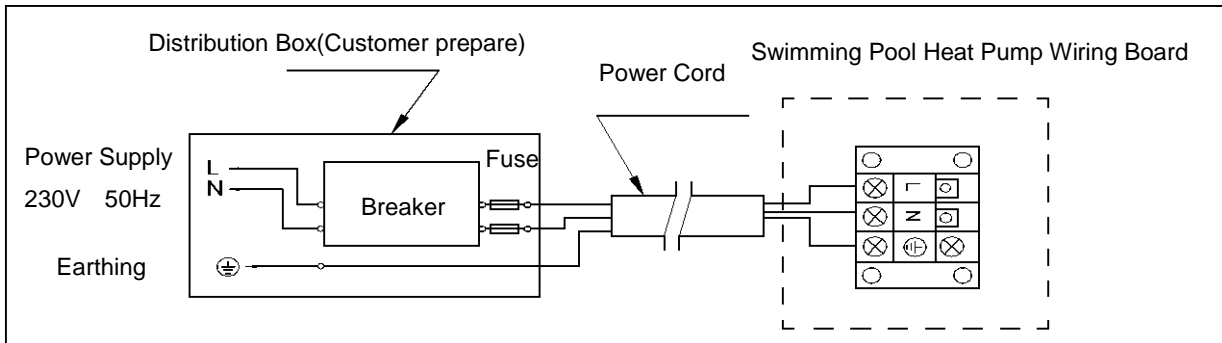
2.2.3. Wiring & protecting devices and cable specification

- ① Connect to appropriate power supply, the voltage should comply with the rated voltage of the products.
- ② Well earth the heat pump.
- ③ Wiring must be connected by a professional technician according to the circuit diagram.
- ④ Set breaker or fuse according to the local code (leakage operating current $\leq 30\text{mA}$).
- ⑤ The layout of power cable and signal cable should be orderly and not affecting each other.

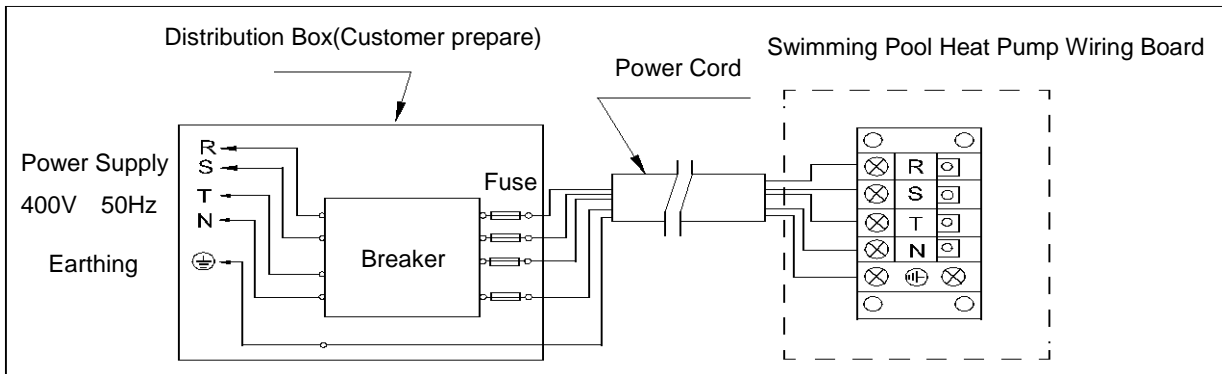


1. Wiring diagram

A. For power supply: 230V 50Hz



B. For power supply: 400V 50Hz



Note: For your safe use in winter, it's strongly recommended to equip heating priority function. For the detailed wiring diagram, please refer to Appendix 1.



2. Options for protecting devices and cable specification

MODEL		GHD-150 -0191	GHD-150 -0185	GHD-150 -0186	GHD-150 -0188		
Breaker	Rated Current A	11	13	16	25		
	Rated Residual Action Current mA	30	30	30	30		
Fuse	A	11	13	16	25		
Power Cord (mm ²)		3x1.5	3x2.5	3x2.5	3x6		
Signal cable (mm ²)		3x0.5	3x0.5	3x0.5	3x0.5		

NOTE: The above data is adapted to power cord $\leq 10m$. If power cord is $>10m$, wire diameter must be increased. The signal cable can be extended to 50m at most.