



NEPTUNE X-PRO TOP DISCHARGE FULL INVERTER HEAT PUMP



INSTALLATION GUIDE AND USER MANUAL

THANK YOU FOR PURCHASING A NEPTUNE FULL INVERTER HEAT PUMP.
Please read the manual thoroughly before installing or using the product.
Only qualified technicians must install the product. Keep this manual for future reference.

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SECTION 1: IMPORTANT WARNINGS AND SAFETY INFORMATION



This manual contains important information about the installation, operation, and safe use of this product. This information should be given to the owner and/or operator of the heat pump. When installing and using the heat pump, basic safety precautions should always be followed. Failure to follow safety warnings and instructions in this manual can result in serious injury and/or damage to your equipment. Read and follow all warning notices and instructions which are included in this manual.



This Full Inverter Heat Pump contains R32 refrigerant gas which is a flammable substance under certain conditions.

GENERAL WARNINGS

- Read the instructions before installing and using the heat pump.
- Failure to follow these instructions and comply with all applicable codes may cause serious bodily injury and/or property damage and will void the warranty.
- Installers/operators must follow manufacturer's instructions and keep in compliance with national or local standards for installation. Under no circumstances will the manufacturer be held responsible for any outcome incurred by failure to comply with applicable standards or local regulations.
- Turn off the power during thunderstorms and severe weather.
- Do not use or store combustible gas or liquid such as thinners, paint or fuel near the heat pump.
- Always keep the heat pump in the upright position especially when storing or moving the heat pump.
- The heat pump is designed for heating swimming pools; do not use it for any other purpose.
- The surroundings of the heat pump must be kept clear to avoid restricting ventilation.
- The heat pump must be kept away from any source of fire.
- Do not put anything into the inlet or outlet, and do not remove the fan cover.
- This product contains electrical equipment. Dispose of the product in accordance with local regulations.

INSTALLATION, SERVICE AND MAINTENANCE WARNINGS

- **Ensure that there is adequate voltage and current available at the heater connection to run the unit. Voltage ranges outside of the required parameters will damage the heat pump and void the warranty.**
- **Always use a qualified electrician to perform any electrical work. A licenced electrician must read these instructions before installing.**
- Gas leakage tests must be done before and after installation.
- Installation, removal and service of the heat pump must be handled by a professional pool builder/service agent. Repairs should be carried out in a well ventilated area.
- The heat pump must be positioned on a concrete base.
- The frame must be secured using M10 bolts. Frame/brackets must be of a suitable strength and anti-rust treated.
- Do not lift the heat pump using the water unions.
- The heat pump must be installed in a well ventilated, outside area.
- Ensure power is disconnected during installation or service.
- Stop installation if there is any gas leakage. The unit must be returned to the authorised dealer.
- Vacuum completely before welding. Field welding is not allowed.
- Always comply with the national and local electrical codes and standards.
- Ensure electrical cable size is adequate for heater requirements at the installation location.
- Earth/ground the heat pump to protect yourself against short circuits inside the unit.
- Ensure the power cable and circuit breaker are of suitable size for the heat pump being installed.
- To ensure heating efficiency, the water pipe length should be 10m or less between the pool and the heat pump.
- Hard/rigid plumbing must be used for the inlet and outlet water unions.
- The heat pump must be maintained/serviced by a qualified professional.
- The main power switch should be out of the reach of children.
- Use only genuine replacement parts supplied by the manufacturer for service and repair.
- Do not try to repair the heat pump yourself or open the casing. In case of malfunction, switch off the main power immediately and contact your authorised dealer.

DISCLAIMER

Information in this manual is intended to provide general information on a particular subject(s) in good faith and is not an exhaustive treatment of such subject(s). Its use is beyond the control of the author, contributor, publishers, and distributors and should not be relied upon without consulting your local Professional for comprehensive advice. This manual includes subject(s) that should only be performed by or under the direction and advice of your local Professional and under no circumstances should the manual be used as a substitute for such professionals. No representations or warranties are made that the content, advice, and recommendations in this manual are current, free from errors or omissions, or appropriate for the user's circumstances or abilities. No liability is accepted for any loss suffered as a result of any user's reliance on such content. All information in this document is subject to change at any time without notice.

SECTION 2: TRANSPORT, STORAGE AND HANDLING

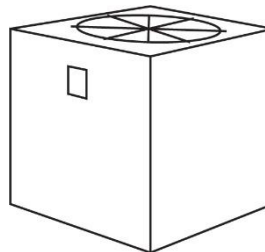
- Sealing is not allowed during transportation.
- Transporting goods at a constant speed is needed to avoid sudden acceleration or sudden braking, so as to reduce the collision of goods.
- The unit must be kept away from any source of fire.
- The heat pump must be stored in a bright, wide and open space with adequate ventilation.
- Do not lift the heat pump using the water unions.
- Do not use or store combustible gas or liquid such as thinners, paint and fuel near the heat pump.
- Always keep the heat pump in the upright position especially when storing or moving the heat pump.

SECTION 3: PACKAGING CONTENTS

The following items are included in the packaging of the heat pump. Please contact your authorised dealer if any items are damaged or missing.

- (1) Heat Pump x 1
- (2) Unions x 2
- (3) Rubber Foot x 4
- (4) Bolt Assembly x 4
- (5) User Manual x 1
- (6) PVC Pipe Sticker Sheet x 1

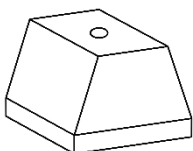
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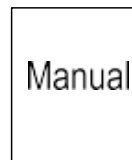
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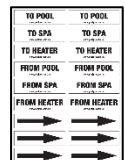
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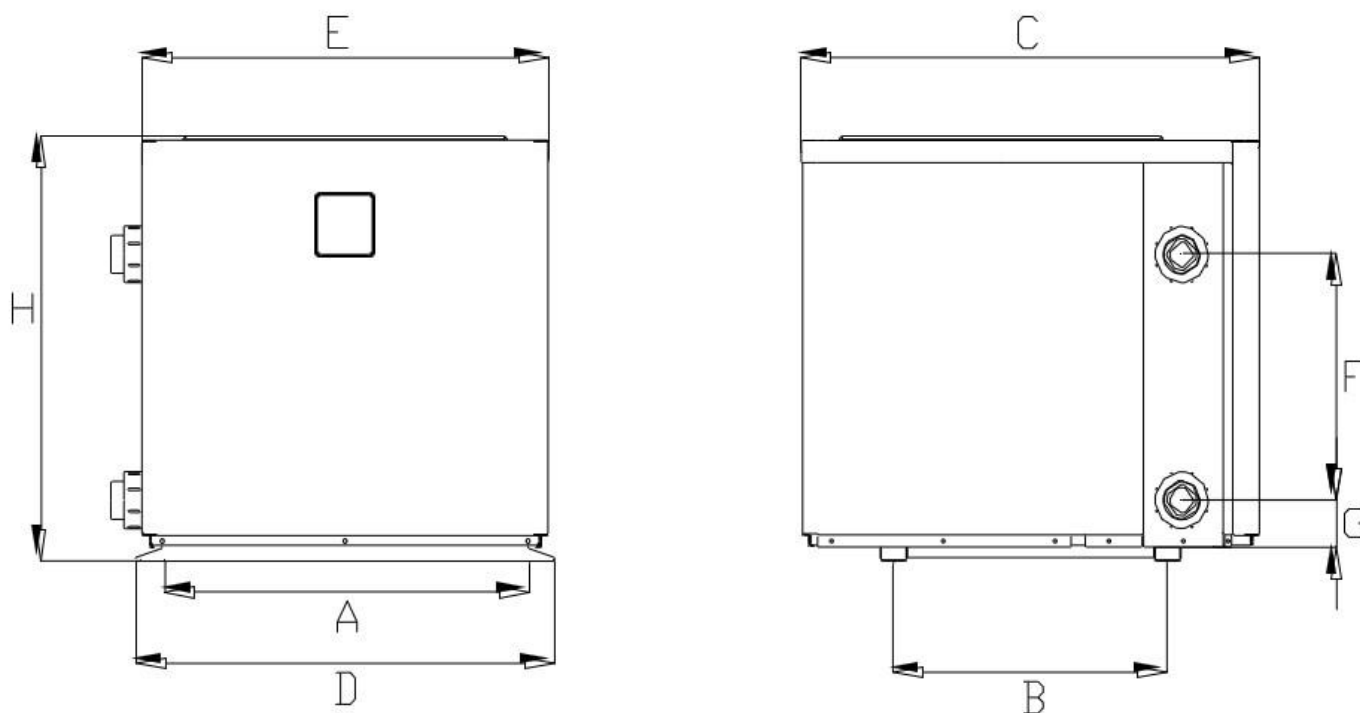


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SECTION 4: PRODUCT SPECIFICATIONS

4.1: PRODUCT DIMENSIONS



UNITS (mm)		A	B	C	D	E	F	G	H
MODEL	NHX10TD	685	441	753	710	688	300	75.5	668
	NHX11TD	685	441	753	710	688	300	75.5	668
	NHX13TD	685	441	753	710	688	280	75.5	668
	NHX17TD	685	463	775	710	688	350	75.5	668
	NHX21TD	685	463	775	710	688	390	75.5	668
	NHX26TD	685	463	775	710	688	440	75.5	743
	NHX32TD	703	555	955	729	707	640	75.5	917
	NHX32TD3	703	555	955	729	707	640	75.5	917
	NHX40TD3	819	555	955	845	823	650	75.5	917
NOTE: This data is subject to change without notice.									

4.2: TECHNICAL DATA

Model	NHX10TD	NHX11TD	NHX13TD	NHX17TD	NHX21TD	NHX26TD	NHX32TD	NHX32TD3	NHX40TD3
Performance Condition: Air 26°C, Water 26°C, Humidity 80%									
Heating capacity (kW) in Smart mode	8.5	8.8	11.0	14.0	17.5	22.0	27.0	27.0	35.0
Heating capacity (kW) in Turbo mode	10.2	10.8	13.2	17.2	21.0	26.0	31.5	31.5	40.0
C.O.P in Smart mode	7.6	7.6	7.7	7.8	7.3	7.8	7.4	7.4	7.3
C.O.P	14.9~6.6	14.9~6.6	15.0~6.8	15.6~6.5	15.5~6.3	14.9~6.8	16.0~6.3	16.0~6.3	15.7~6.4
C.O.P at 50% capacity	11.2	11.2	11.5	11.7	11.6	11.3	11.2	11.2	11.1
Performance Condition: Air 15°C, Water 26°C, Humidity 70%									
Heating capacity (kW) in Smart mode	6.3	6.3	7.3	9.8	11.6	14.5	18.0	18.0	24.5
Heating capacity (kW) in Turbo mode	7.5	7.5	8.8	11.6	14.3	17.5	21.5	21.5	28.5
C.O.P in Smart mode	5.0	5.0	5.0	4.9	4.9	5.0	5.3	5.3	5.1
C.O.P	7.0~4.3	7.0~4.3	7.3~4.5	7.8~4.5	7.4~4.4	7.3~4.8	7.8~4.9	7.8~4.9	7.7~4.8
C.O.P at 50% capacity	6.4	6.4	6.5	6.7	6.8	6.3	6.8	6.8	6.7
Performance Condition: Air 35°C, Water 28°C, Humidity 80%									
Cooling capacity (kW)	4.5	4.5	5.8	7.1	8.2	12.0	14.0	14.0	16.5
Sound pressure at 1m dB(A)	38.8~46.5	38.8~46.5	38.8~47.9	42.2~48.6	43.1~52.1	41.0~52.9	43.6~53.8	43.6~53.8	42.8~54.0
Sound pressure of 50% capacity at 1m dB(A)	39.0	39.0	41.9	44.3	45.2	45.3	46.7	46.7	46.9
Sound pressure at 10m dB(A)	18.8~26.5	18.8~26.5	18.8~27.9	22.2~28.6	23.1~32.1	21.0~32.9	23.6~33.8	23.6~33.8	22.8~34.0
Power supply	15A Plug	15A Plug	15A Plug	230V/1 Ph/50Hz	230V/1 Ph/50Hz	230V/1 Ph/50Hz	230V/1 Ph/50Hz	400V/3 Ph/50Hz	400V/3 Ph/50Hz
Rated input power(kW) at air temperature 15°C	0.17~1.66	0.17~1.66	0.21~1.95	0.26~2.51	0.33~3.08	0.42~3.67	0.46~4.4	0.46~4.4	0.60~5.94
Rated input current(A) at air temperature 15°C	0.74~7.21	0.74~7.21	0.91~8.48	1.14~10.9	1.43~13.4	1.82~15.9	2.01~19.1	0.66~6.35	0.87~8.57
Max input current(A)	10.0	10.0	12.5	16.0	18.5	21.5	24.0	9.4	12.5
PVC Pipe I.D (mm)	40								
Pool pump water flow (L/min)	33~67	33~67	50~67	67~100	108~142	133~167	167~200	167~200	200~300
Pool pump max. head (m)	10								
Net Dimension LxWxH (mm)	710x753 x668	710x753 x668	710x753 x668	710x775 x668	710x775 x668	710x775 x743	729x955 x917	729x955 x917	845x955 x917
Net Weight (kg)	61	61	66	71	78	102	110	117	141
Working air temp (°C)	-15~43								

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



MODEL		NHX10TD	NHX11TD	NHX13TD	NHX17TD	NHX21TD	NHX26TD	NHX32TD	NHX32TD3	NHX40TD3
Breaker	Rated Current (A)	12.0	12.0	15.0	19.0	22.5	25.5	28.5	11.3	15.0
	Rated Residual Action Current (mA)	30	30	30	30	30	30	30	30	30
Max input current(A)		10.0	10.0	12.5	16.0	18.5	21.5	24.0	9.4	12.5
Power Supply		15A Plug	15A Plug	15A Plug	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	400V 50Hz	400V 50Hz
Fuse (A)		12.0	12.0	15.0	19.0	22.5	25.5	28.5	11.3	15.0
Power Cord (mm ²)		3x2.5	3x2.5	3x2.5	3x4	3x4	3x4	3x4	5x2.5	5x2.5
Signal cable (mm ²)		3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5

4.3: OPERATING CONDITIONS

ITEMS		RANGE
Operating Range	Ambient Air Temperature*	-15°C – 43°C
Temperature Setting	Heating	6°C – 40°C
	Cooling	6°C – 30°C

*Ideal ambient air temperature is 15°C – 25°C.

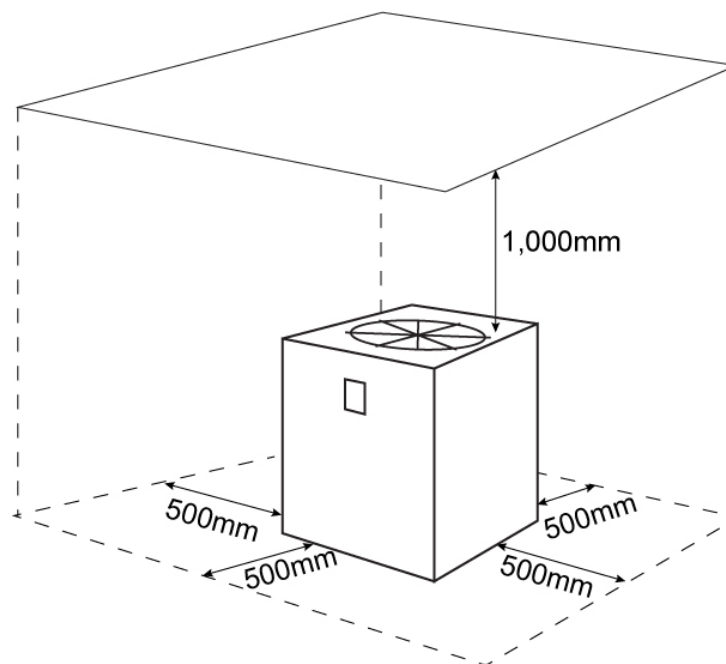
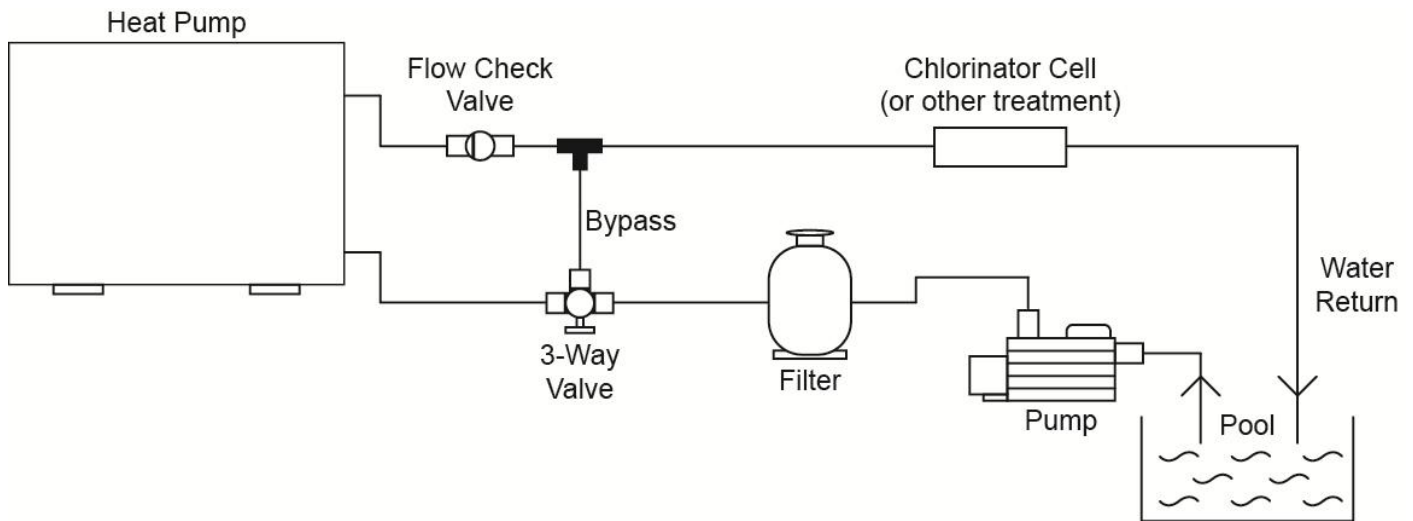
SECTION 5: INSTALLATION

5.1: IMPORTANT INSTALLATION INFORMATION

- **Ensure that there is adequate voltage and current available at the heater connection to run the unit. Voltage ranges outside of the required parameters will damage the heat pump and void the warranty.**
- **Always use a qualified electrician to perform any electrical work. A licenced electrician must read these instructions before installing.**
- The heat pump must be installed in a well ventilated, outside area with sufficient space for installation and maintenance.
- Gas leakage tests must be done before and after installation.
- The heat pump must be positioned on a solid concrete base.
- The frame must be secured using M10 bolts. Frame/brackets must be of a suitable strength and anti-rust treated.
- Do not lift the heat pump using the water unions.
- Ensure power is disconnected during installation or service.
- Installation must be stopped if there is any gas leakage, and the unit must be returned to the authorised dealer.
- Vacuum completely before welding. Field welding is not allowed.
- Always comply with the national and local electrical codes and standards.
- Ensure electrical cable size is adequate for heater requirements at the installation location.
- Earth/ground the heat pump to protect yourself against short circuits inside the unit.
- Check that there is adequate voltage and current available at the heater connection to run the unit. Voltage ranges outside of the required parameters will damage the heat pump and void the warranty.
- Ensure the power cable and circuit breaker are of suitable size for the heat pump being installed.
- To ensure heating efficiency, the water pipe length should be 10m or less between the pool and the heat pump.
- The inlet and outlet water unions cannot bear the weight of soft/flexible plumbing. Hard/rigid plumbing must be used.
- The main power switch should be out of the reach of children.

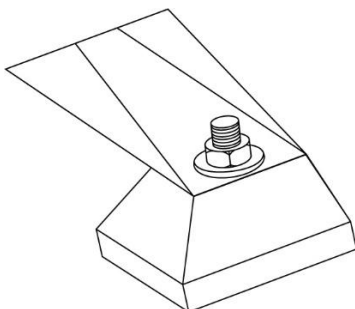
5.2: POSITIONING AND LOCATION OF THE HEAT PUMP

The heat pump must be installed in accordance with the following diagrams. Distances in the diagram are the minimum distance allowed. The heat pump must be positioned on solid level ground (concrete slab) outdoors in a place with good ventilation. Do not install the heat pump in an enclosed area. Ensure there is sufficient access space for installation and maintenance.



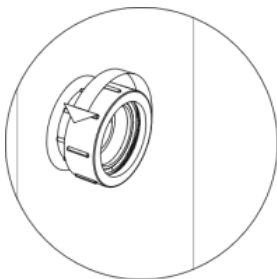
5.3: INSTALLATION OF THE HEAT PUMP

1. Install the 4 rubber feet onto the heat pump's legs, using the supplied bolts.

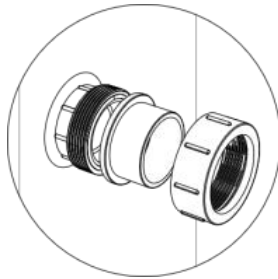


2. Ensure the heat pump is equipped with a circuit breaker and electrical isolator switch.
3. The heat pump requires a pool pump (supplied by the user). Refer to the Specifications Table in Section 4.2 for recommended pump water flow and maximum head information for the model being installed.
4. Install the unions as follows:

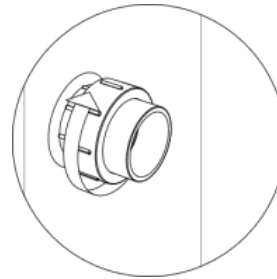
STEP 1



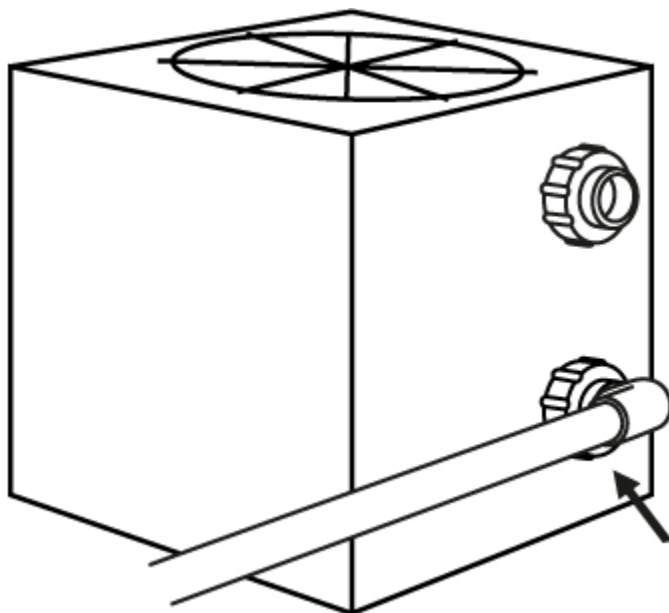
STEP 2



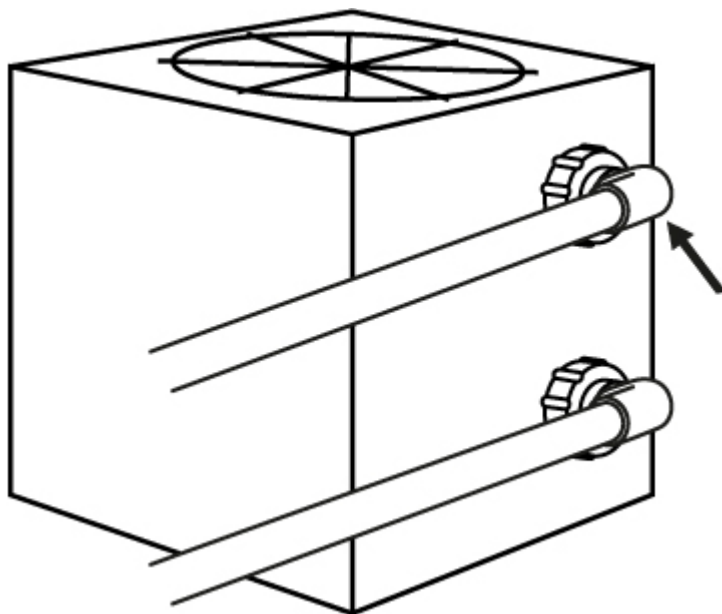
STEP 3



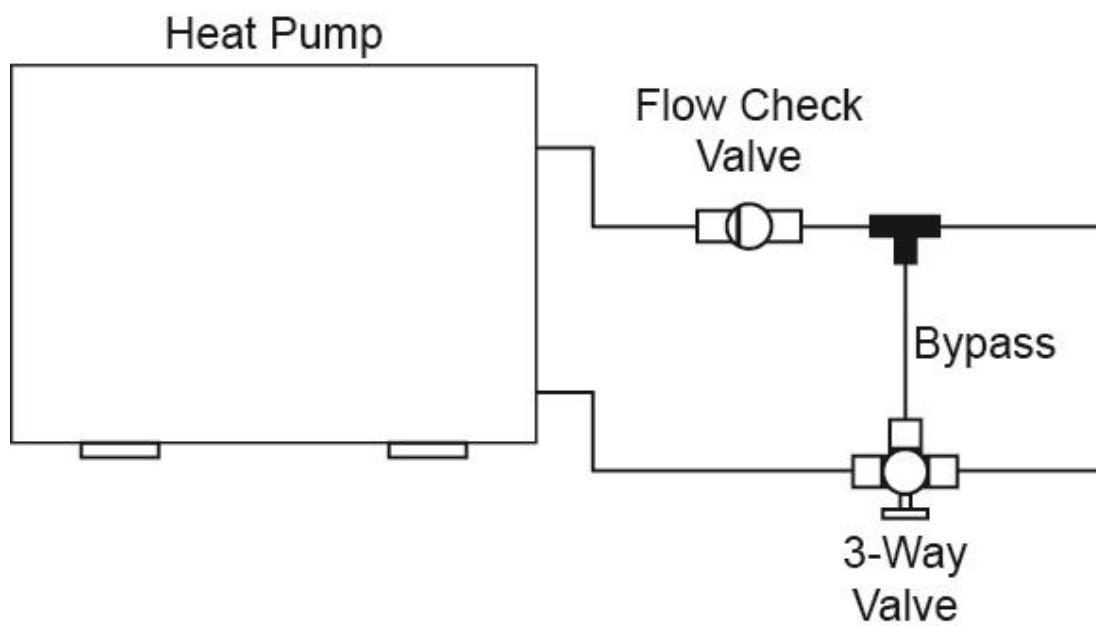
5. Connect the inlet downstream, after the pool pump and filter.



6. Connect the outlet upstream before chlorinator, acid injection or other chemical dosing systems.



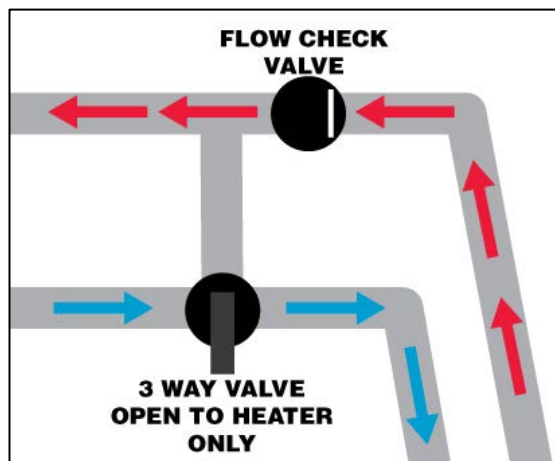
7. Create a flow bypass between the inlet and outlet pipework.



5.4: FLOW VALVE POSITIONS

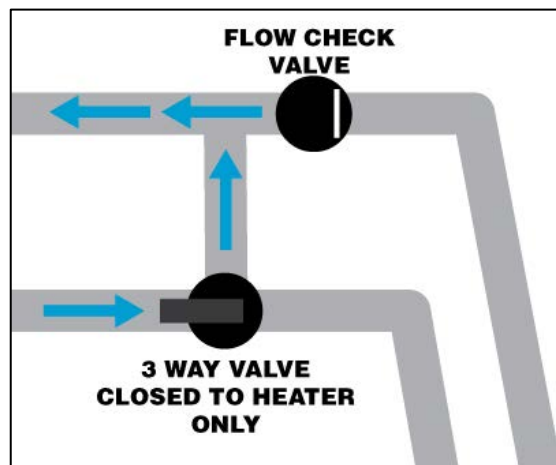
5.4.1:

100% FULL FLOW TO HEAT PUMP
AND RETURN TO POOL



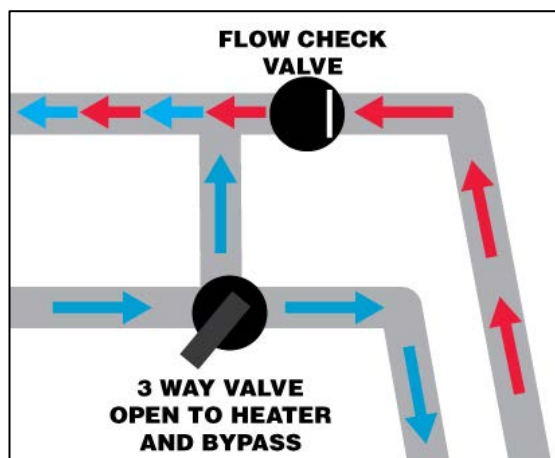
5.4.2:

NO FLOW THROUGH HEAT PUMP
Used to bypass heat pump, during heavy chemical
dosing and maintenance/service of heat pump.



5.4.3:

RESTRICTED WATER FLOW TO HEAT PUMP
Used to reach the temperature differential
between the inlet and outlet.



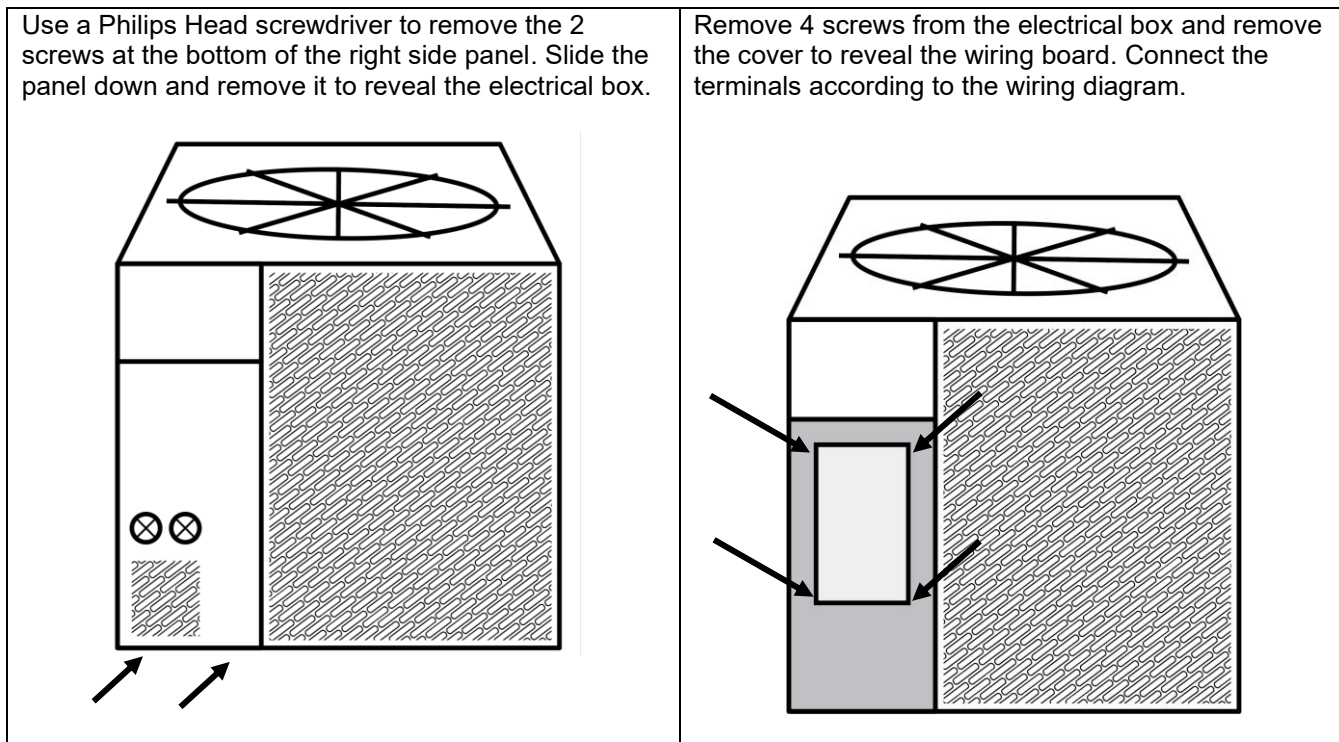
5.5: WIRING OF THE HEAT PUMP

1. Always use a qualified electrician to perform any electrical work. A licenced electrician must read these instructions before installing.
2. Wiring must be connected by a qualified professional electrician, according to the details set out in this manual.
3. The heat pump must be hard wired.
4. Ensure power is disconnected during installation or service. Always comply with the national and local electrical codes and standards. Ensure electrical cable size is adequate for heater requirements at the installation location.
5. The layout of power and signal cables should be neat and orderly. Considering environmental conditions (ambient temperature, direct sunlight, rain, grid voltage, cable length etc), the cross-sectional area of the cable can be appropriately increased.
6. Set breaker or fuse according to the below table.
7. Check that there is adequate voltage and current available at the heater connection to run the unit. Refer to the below table. Voltage ranges outside these parameters will damage the heat pump.

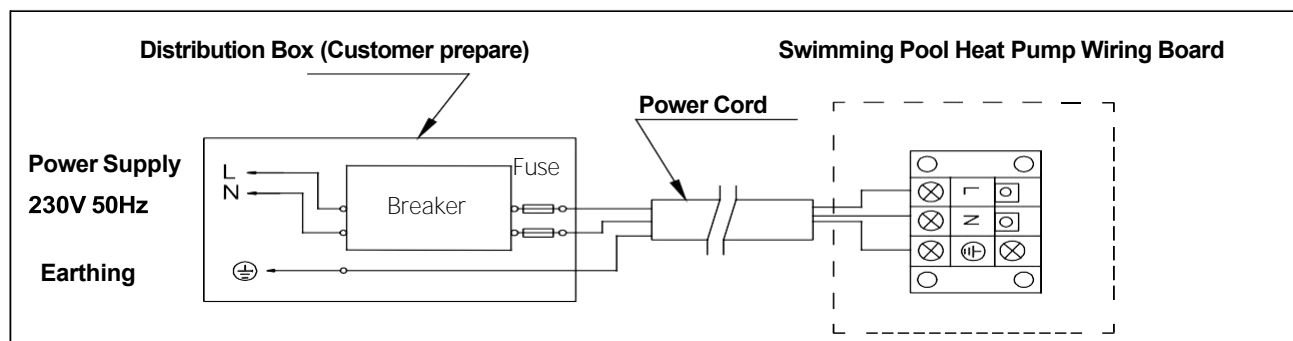
MODEL		NHX10TD	NHX11TD	NHX13TD	NHX17TD	NHX21TD	NHX26TD	NHX32TD	NHX32TD3	NHX40TD3
Breaker	Rated Current (A)	12.0	12.0	15.0	19.0	22.5	25.5	28.5	11.3	15.0
	Rated Residual Action Current (mA)	30	30	30	30	30	30	30	30	30
Max input current(A)		10.0	10.0	12.5	16.0	18.5	21.5	24.0	9.4	12.5
Power Supply		15A Plug	15A Plug	15A Plug	230V 50Hz	230V 50Hz	230V 50Hz	230V 50Hz	400V 50Hz	400V 50Hz
Fuse (A)		12.0	12.0	15.0	19.0	22.5	25.5	28.5	11.3	15.0
Power Cord (mm ²)		3x2.5	3x2.5	3x2.5	3x4	3x4	3x4	3x4	5x2.5	5x2.5
Signal cable (mm ²)		3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5	3x0.5

NOTE: The above data is adapted to a power cord length of $\leq 10\text{m}$. If power cord is $>10\text{m}$, wire diameter must be increased. The signal cable can be extended to 50m maximum.

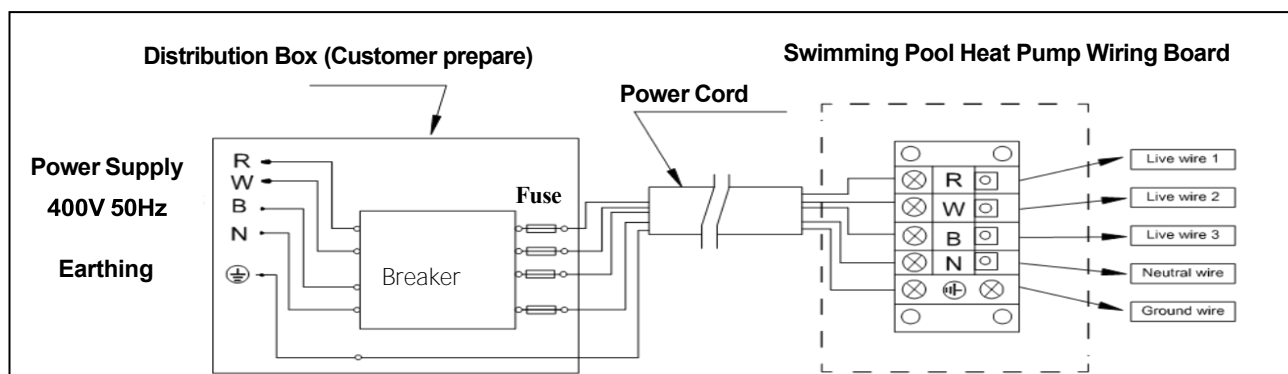
8. Connect the power wiring according to the following relevant wiring diagrams.



5.6: WIRING DIAGRAM: SINGLE PHASE 230V 50Hz



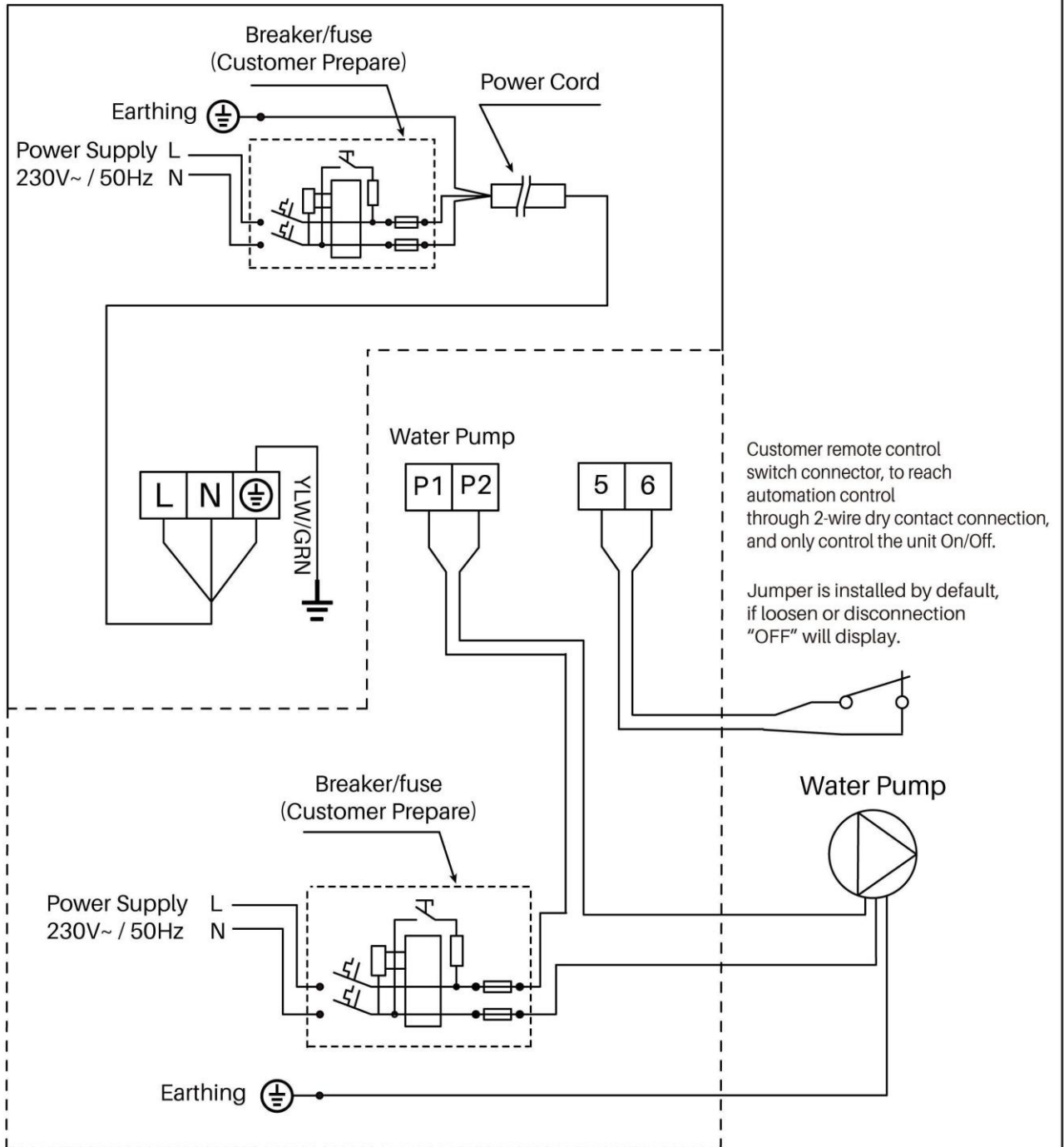
5.7: WIRING DIAGRAM: 3 PHASE 400V 50Hz



5.8: WIRING DIAGRAM FOR EXTREME WINTER CONDITIONS: SINGLE PHASE 230V ≤500W

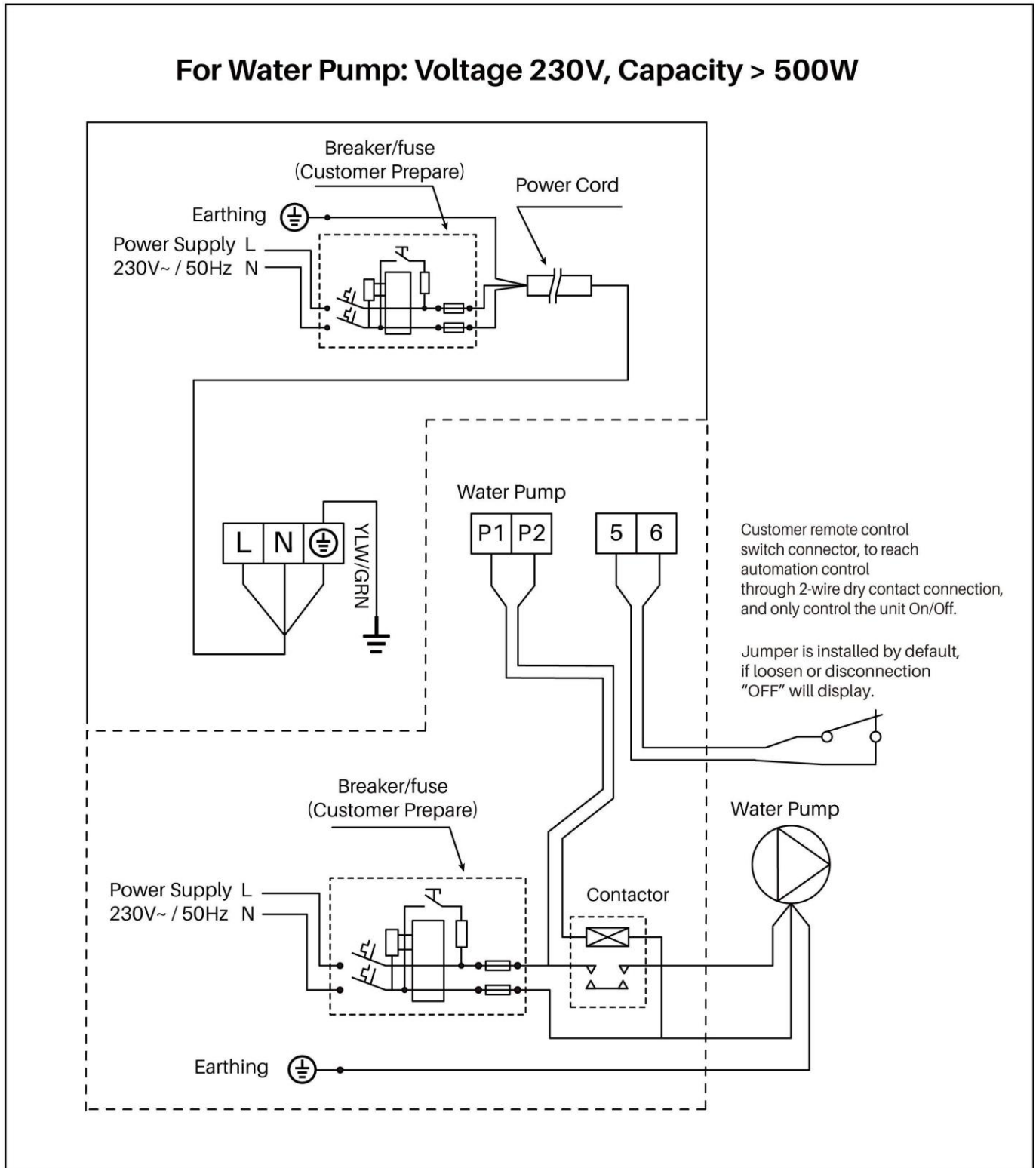
Use this wiring diagram when installing a **SINGLE PHASE 230V ≤500W** heat pump in a location with extreme winter conditions (water freezing in pipes).

For Water Pump: Voltage 230V, Capacity ≤ 500W



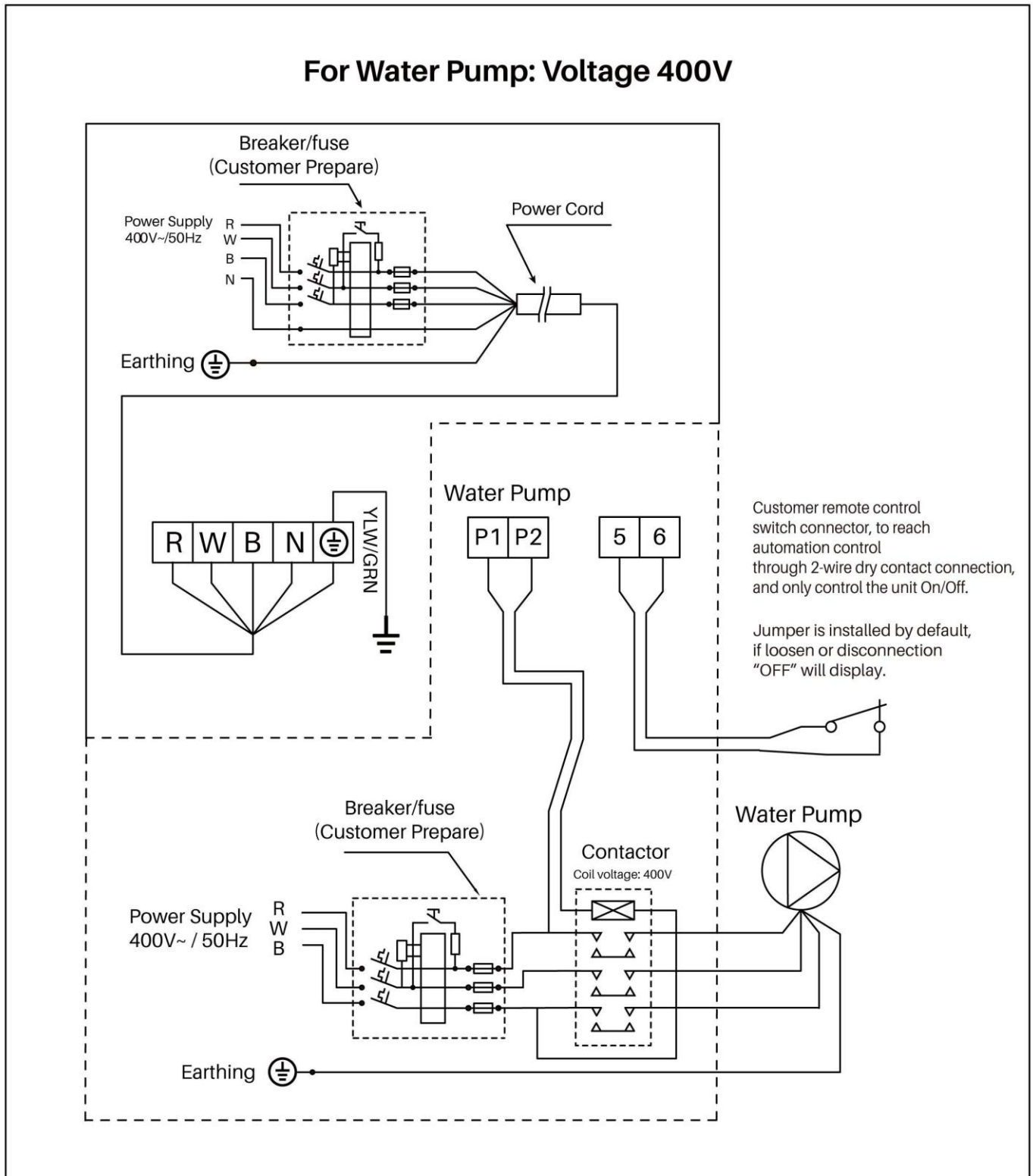
5.9: WIRING DIAGRAM FOR EXTREME WINTER CONDITIONS: SINGLE PHASE 230V >500W

Use this wiring diagram when installing a **SINGLE PHASE 230V >500W** heat pump in a location with extreme winter conditions (water freezing in pipes).



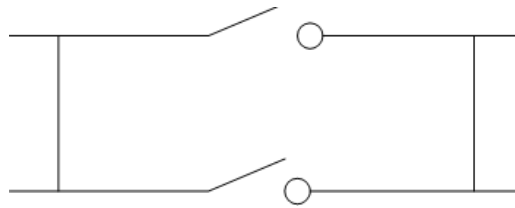
5.10: WIRING DIAGRAM FOR EXTREME WINTER CONDITIONS: 3 PHASE 230V 400W

Use this wiring diagram when installing a **3 PHASE 230V 400W** heat pump in a location with extreme winter conditions (water freezing in pipes).



5.11: PARALLEL CONNECTION WITH FILTRATION CLOCK

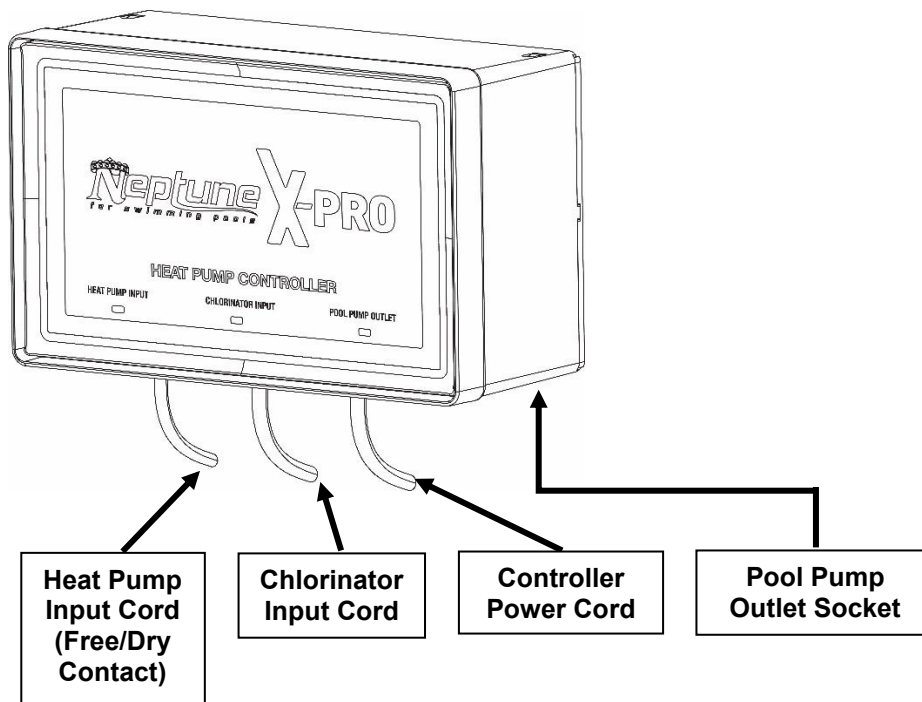
A: Water pump timer



B: Water pump wiring of Heat Pump

Note: The installer should connect A parallel with B (as above picture). To start the water pump, condition A or B should be connected. To stop the water pump, both A and B should be disconnected.

5.12: CONNECTING THE NEPTUNE HEAT PUMP CONTROLLER



Heat Pump Input Cord: Connect this 2-pin terminal cable into the potential free dry contact on the Heat Pump (the P1 and P2 terminals located in the Electrical Box). This is a signal from the heat pump to turn the pool pump on. **See Pages 19 - 22 for instructions on how to access the Electrical Box.**

Chlorinator Input Cord: Fit this plug to the AC Socket outlet on the Chlorinator.

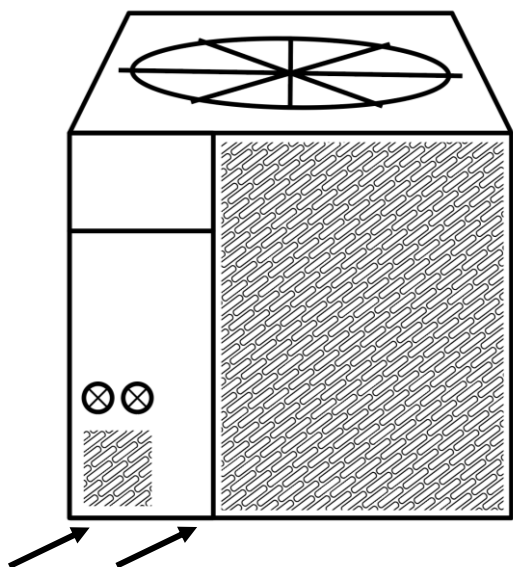
Controller Power Cord: Connect the Controller's power cord to a wall power socket. Don't forget to also plug your Chlorinator into a wall power socket.

Pool Pump Outlet Socket: Plug the power cord from the pool pump into this AC Socket underneath the controller.

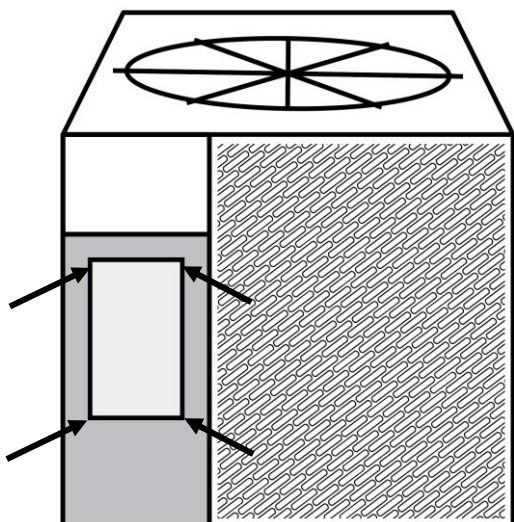
***For full installation instructions of this controller, refer to the Neptune Heat Pump Controller User Manual.

***For other branded controllers please refer to their respective manuals. Most controllers will still connect to P1 and P2 terminals in the heat pump's Electrical Box.

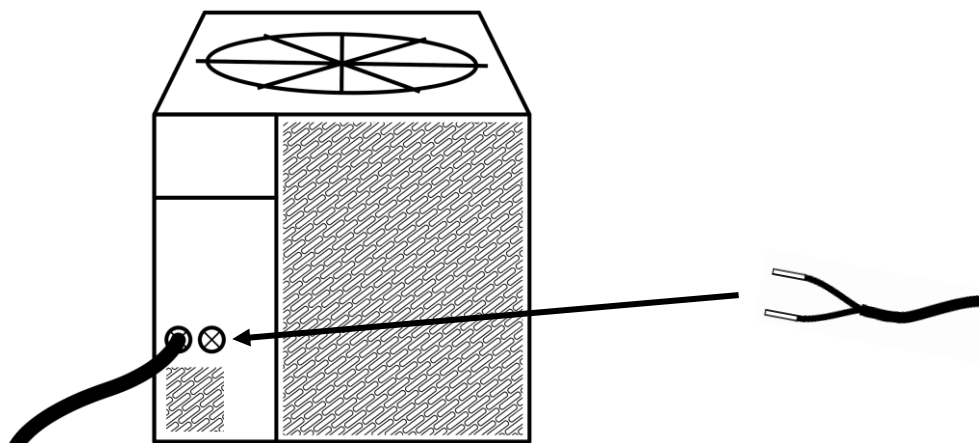
1. Use a Philips Head screwdriver to remove the 2 screws at the bottom of the right side panel. Slide the panel down and remove it to reveal the electrical box.



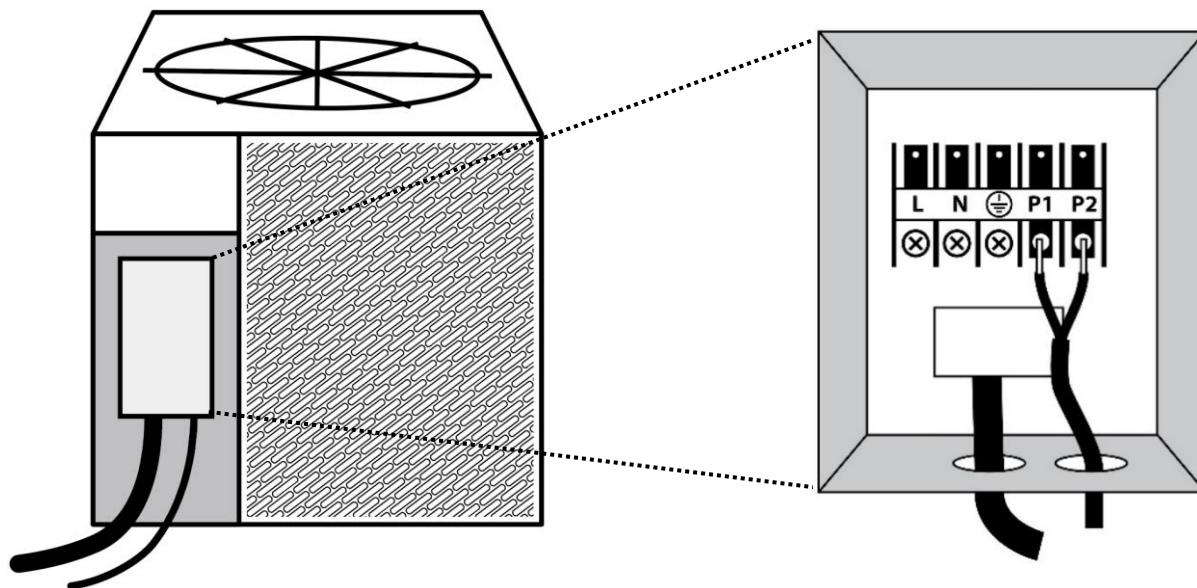
2. Remove 4 screws from the electrical box and remove the cover to reveal the wiring board.



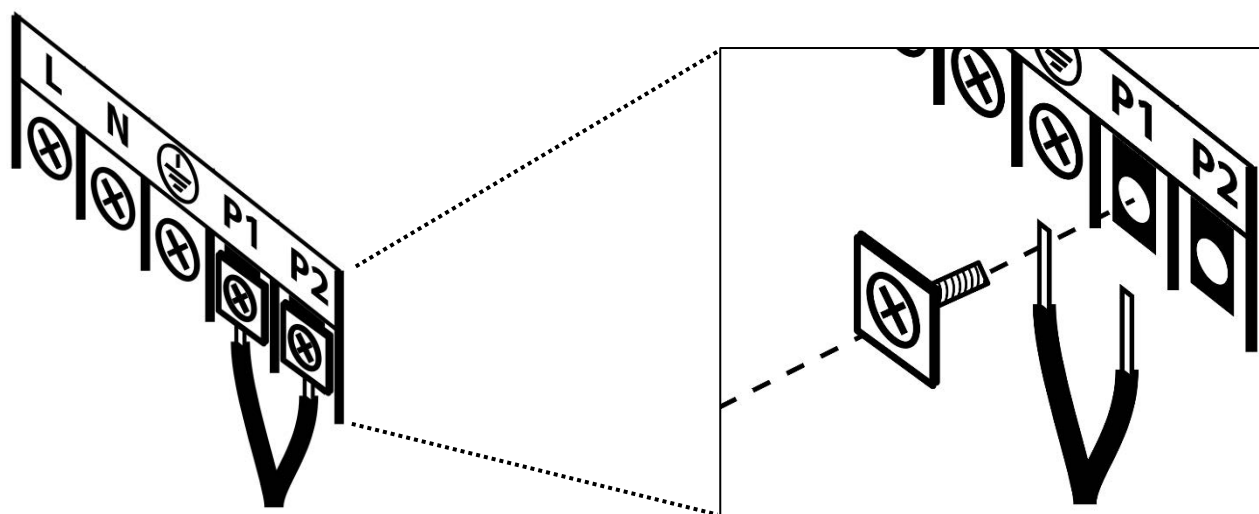
3. Thread the Neptune Heat Pump Controller's 2-pin cable through a vacant cable port, located near the heat pump's power cord.



4. Continue threading the 2-pin cable up into the Electrical Box.










5. Screw the Heat Pump Controller's 2-pin cable to the P1 and P2 Dry Contact connections inside the Electrical Box. Ensure the 2-pin cable wires are sandwiched between the screw plate and the contact plate.



6. Re-attach all covers and panels.
7. In order for the Heat Pump Controller to function, some settings in the heat pump are required to be changed. Changing these settings requires you to turn on the heat pump. Before turning on the heat pump, please run through all instructions in **Section 6: Initial Start-Up**, then return to the following steps.
8. After following the initial start-up instructions in Section 6, ensure the heat pump is still on, and is displaying the main screen (example below).




9. On the heat pump touchpad, press  for 3 seconds to unlock the screen (you will hear a beep when it unlocks).
10. Press  and  together for 5 seconds to enter the "Parameter Checking" status screen. The parameter code "P0" and the parameter value "0" will display on the screen, e.g. "P0 0".
11. Press  to enter the "Parameter Modification" mode.
12. Press  two times to change the value from 0 to 2, then press  to save your changes.
13. Press  to exit "Parameter Checking" status and return to the main screen.

NOTES:

"P0 0" means the heat pump will run the pool pump 24 hours a day.

"P0 2" means the heat pump will run the pool pump through the Heat Pump Controller. The heat pump will turn on for 3 minutes every hour to check the water temperature. If the water temperature is correct, the heat pump will turn off. If the water temperature needs to be adjusted, the heat pump will run until the water temperature is achieved, and then the heat pump, Heat Pump Controller, and pool pump will turn off.

SECTION 6: INITIAL START-UP

 Check all wirings carefully before turning on the heat pump.

6.1: PRE-STARTUP INSPECTION

1. Check installation of the entire heat pump and the pipe connections according to the installation instructions in this manual.
2. Check the electrical wiring according to the electrical wiring diagram and earthing connection in this manual.
3. Ensure that the main power is connected properly.
4. Ensure there are no obstacle/blockages in front of the air inlet and outlet of the heat pump.

6.2: INITIAL STARTUP

1. Ensure the 3-Way valve is fully open, then turn the pool pump on.
2. Check there are no water leaks and verify adequate flow to and from the pool.
3. As the heat pump is hardwired, turn on the isolation switch.
4. Press the Power symbol on the heat pump touchpad.
5. In order to protect the heat pump, the heat pump is equipped with a Delayed Start function. When starting the heat pump, the heat pump will run through a system setup for 3 minutes, then, the fan and compressor will start to run.
6. Check for any abnormal noises from the heat pump.
7. Check the air that is coming out of the heat pump fan, this air temperature should be 5°C-10°C cooler than the ambient air temperature.
8. Test the Flow Switch is working correctly. With the heat pump still running, turn the pool water pump off. If the Flow Switch is working, the heat pump should turn off automatically and the heat pump touchpad will display an error code E3 (insufficient water flow protection).

9. It is time to adjust the 3-Way valve and calibrate the flow rate through the heat pump. Fully close the 3-Way valve bypass and turn the heat pump to the maximum temperature.
10. Wait 3-4 minutes for the heat pump to run.
11. Check the difference in temperature between the inlet temperature and outlet temperature displayed on the heat pump's LCD screen.
12. Slowly open the 3-Way bypass valve to increase the temperature differential between the inlet and outlet. Closing the 3-Way bypass valve will decrease the temperature differential.
13. Adjust the 3-Way bypass valve until optimum differential of 2°C-3°C is achieved. Wait two minutes between each adjustment.
14. The 3-Way bypass valve is set up correctly when the temperature difference between the inlet and outlet is 2°C-3°C. Once this has been achieved, lock the position of the 3-Way bypass valve if possible.
15. The initial startup is complete. Choose your desired speed and temperature settings, and allow the heat pump to run 24 hours per day until the desired pool temperature is reached. This can take several days from a cold start.






SECTION 7: OPERATING INSTRUCTIONS

7.1: IMPORTANT OPERATING INFORMATION

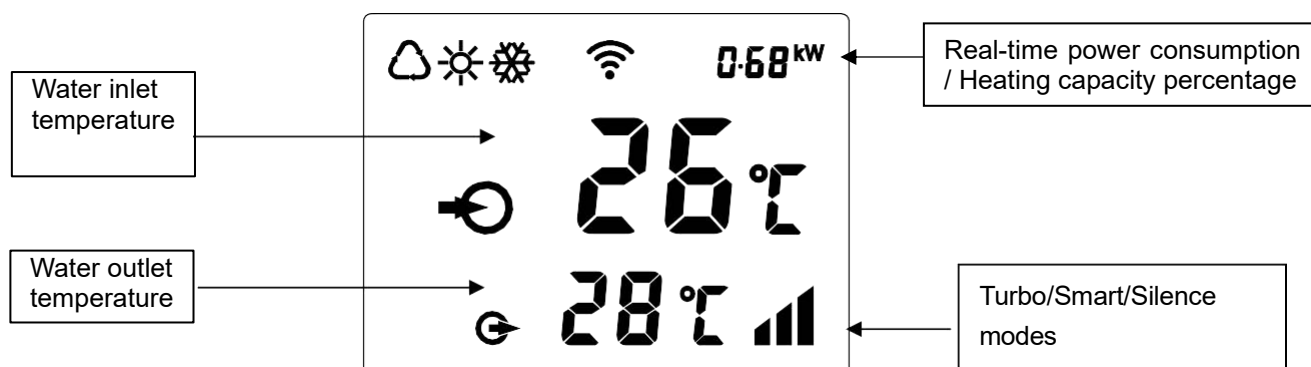
- For the heat pump's ideal operating performance, the ideal ambient air temperature is 15°C-25°C.
- In case of power failure during the operation of the heat pump, the heat pump will automatically restart when the power is restored.
- Turn off the power during thunderstorms and severe weather.
- Do not use or store combustible gas or liquid such as thinners, paint or fuel near the heat pump.
- Always keep the heat pump in the upright position.
- The heat pump is designed for heating swimming pools; do not use it for any other purpose.
- The surroundings of the heat pump must be kept clear to avoid restricting ventilation.
- The heat pump must be kept away from any source of fire.
- Do not put anything into the inlet or outlet, and do not remove the fan cover.
- If any abnormal circumstances occur e.g. abnormal noises, smells, smoke and leakage of electricity, switch off the main power immediately and contact your authorised dealer.
- Do not try to repair the heat pump yourself or open the casing.
- To extend the life of your heat pump, ensure the pool water pump is on before starting the heat pump, and turn the pool water pump off after the heat pump is turned off.

7.2: HEAT PUMP TOUCHPAD OVERVIEW



Symbol	Designation	Function
	On/Off	1. Power On/Off 2. Wi-Fi setting
 (This button will be lit up constantly when power is on)	Unlock / Mode	1. Press for 3 seconds to unlock/lock screen 2. After screen is unlocked, press it to select mode: Auto (6°C – 40°C) Heating (6 °C – 40°C) Cooling (6 °C – 30°C)
	Speed	Select Turbo/Smart/Silence mode
	Up / Down	Adjust/set temperature
	Timer	Time and timer setting

7.3: HEAT PUMP LCD SCREEN OVERVIEW



	Auto
	Heating
	Cooling
0.68 kW	Real-time power consumption display

	Heating capacity percentage
	WIFI connection
	Water inlet
	Water outlet

7.4: STANDBY MODE

- The LCD screen has a standby mode (screen lock) after no operation for 30 seconds. When in standby mode, the LCD screen will be dark and will only display the kW information.
- The LCD screen will go into standby mode if there is no touchpad operation for 30 seconds.
- Press for 3 seconds to either lock or unlock the screen. All other buttons on the touchpad will not be operational when the screen is locked.

7.5: TURNING ON THE HEAT PUMP

- Ensure the 3-Way bypass valve is set up correctly (refer to Section 6.2).
- Ensure the main power supply to the heat pump is on.
- Power on the heat pump by pressing for 3 seconds to light up the LCD screen, then press to power on the heat pump.

7.6: SETTING THE TEMPERATURE

- Ensure the LCD screen is unlocked. If the screen is dark, Press for 3 seconds to unlock the screen.
- Press either or button once to display the current set temperature.
- Continue to press or button to adjust the temperature.

7.7: SETTING THE HEATING/COOLING MODE




- Ensure the LCD screen is unlocked. If the screen is dark, Press for 3 seconds to unlock the screen.
- Press to select a mode:


Auto (6°C - 40°C)


Heating (6°C - 40°C)


Cooling (6°C - 30°C)



7.8: SETTING THE SPEED (TURBO/SMART/SILENCE MODE)



MODE	ADVANTAGES
Turbo mode 	<ul style="list-style-type: none">• Heating capacity: 120%~20%• Fast heating
Smart mode 	<ul style="list-style-type: none">• Heating capacity: 100%~20%• Intelligent optimisation according to ambient temperature and water temperature• Energy efficient setting
Silence mode 	<ul style="list-style-type: none">• Heating capacity: 60%~20%• Use at night

1. Ensure the LCD screen is unlocked. If the screen is dark, Press  for 3 seconds to unlock the screen.

Press the  button to cycle through each mode:




Smart Mode: Smart mode is the default setting and will be activated when the heat pump is turned on. The  symbol will display on the LCD screen when the heat pump is set to Smart mode.

Turbo Mode: Press  button to enter Turbo mode. The  symbol will display on the LCD screen when the heat pump is set to Turbo mode.




Silence Mode: Press  button again to enter Silence mode. The  symbol will display on the LCD screen when the heat pump is set to Silence mode.

NOTE: Turbo mode can only be used when heating. Turbo mode will need to be selected each time you want to use it, as the default mode is Smart mode. During Turbo mode, when the machine reaches the set temperature, it will automatically return to Smart mode.

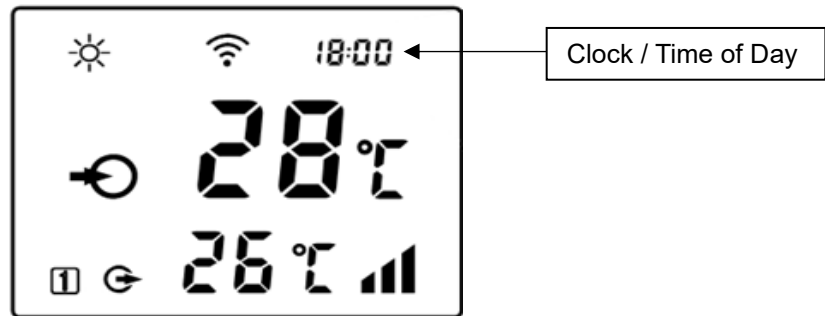
7.9: VIEWING REAL-TIME POWER CONSUMPTION OR COMPRESSOR PERCENTAGE










1. Ensure the LCD screen is unlocked. If the screen is dark, Press  for 3 seconds to unlock the screen.
2. To change between viewing the real-time power consumption (kW) and the compressor percentage, press the  and  buttons simultaneously for 5 seconds. Real-time power consumption function is available for single-phase only.

7.10: CHANGING TEMPERATURE BETWEEN °C AND °F


1. Ensure the LCD screen is unlocked. If the screen is dark, Press  for 3 seconds to unlock the screen.
2. Press  and  simultaneously for 5 seconds to switch between °C and °F.

7.11: SETTING THE CLOCK (TIME OF DAY)

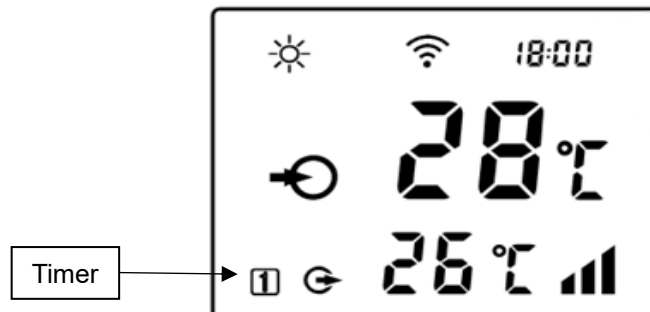










1. Ensure the LCD screen is unlocked. If the screen is dark, Press  for 3 seconds to unlock the screen.
2. Press  for 5 seconds, then the Hours will flash. Press  or  to adjust the Hour (in 24-hour format).
3. Press  to confirm the Hour setting, then the Minutes will flash. Press  or  to adjust the Minutes.
4. Press  to save your settings. If you need to cancel out of the clock setting at any time, press  once.



7.12: VIEWING THE TIME OF DAY



1. When the heat pump is off, the clock (time of day) will display on the LCD screen.
2. To view the time of day when the heat pump is on, press  once. The time of day will be displayed for 10 seconds.









7.13: SETTING THE TIMER (RUN TIMES OF THE HEAT PUMP)





1. Ensure the LCD screen is unlocked. If the screen is dark, Press  for 3 seconds to unlock the screen.
2. Check that the time of day has been set correctly – refer to Section 7.12. If time of day needs to be set, refer to Section 7.11.
3. To set the timer, press  for 10 seconds until you hear a beep, then the “Timer On” symbol  will flash on the screen.
4. The Hour will also flash. Press  or  to adjust the Hour that you want the heat pump to turn on (in 24-hour format).
5. Press  to confirm the Hour setting, then the Minute will flash. Press  or  to adjust the Minute that you want the heat pump to turn on.









6. Press  to save your settings. You have now set the timer to turn on ONCE ONLY. If you want the timer to REPEAT DAILY, now press  to activate the repeat function. The icon in the lower left corner of the LCD screen indicates:

	Timer on every day
	Timer on one time
No symbol	No Timer On setting

7. The "Timer Off" symbol  will now flash on the screen.
8. The Hour will also flash. Press  or  to adjust the Hour that you want the heat pump to turn off (in 24-hour format).
9. Press  to confirm the Hour setting, then the Minute will flash. Press  or  to adjust the Minute that you want the heat pump to turn off.
10. Press  to save your settings. You have now set the timer to turn off ONCE ONLY. If you want the timer to REPEAT DAILY, now press  to activate the repeat function.. The icon in the lower left corner of the LCD screen indicates:

	Timer off every day
	Timer off one time
No symbol	No Timer Off setting

11. Once you have set the on and off times, the icon/s in the lower left corner of the LCD screen indicates:

	Timer on every day	Timer off every day
	Timer on every day	Timer off one time
	Timer on every day	No timer off
	Timer on one time	Timer off every day
	No timer on	Timer off every day
	Timer on one time	Timer off one time
	Timer on one time	No timer off
	No timer on	Timer off one time
No symbol	No timer on	No timer off

7.14: DEFROSTING

1. Auto Defrosting: When the heat pump is defrosting, ☀ will flash. Once the defrosting function has finished, ☀ will stop flashing.
2. Compulsory Defrosting: When the heat pump is heating, ensure the LCD screen is unlocked. If the screen is dark, Press 🔒 for 3 seconds to unlock the screen. Press 🌀 and ▼ simultaneously for 5 seconds to start compulsory defrosting. When the heat pump is defrosting, ☀ will flash. Once the defrosting function has finished, ☀ will stop flashing.

NOTE: Compulsory defrosting intervals should be more than 30 minutes and the compressor should run for more than 10 minutes.

7.15: USING THE HEAT PUMP COVER

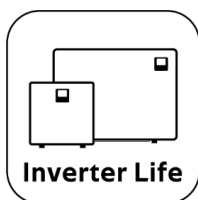
1. Ensure the heat pump is powered off and at ambient temperature.
2. Carefully fit the cover (cover sold separately) over the heat pump, and secure both straps at the inlet and outlet.
3. Remove the cover completely before turning on the heat pump.



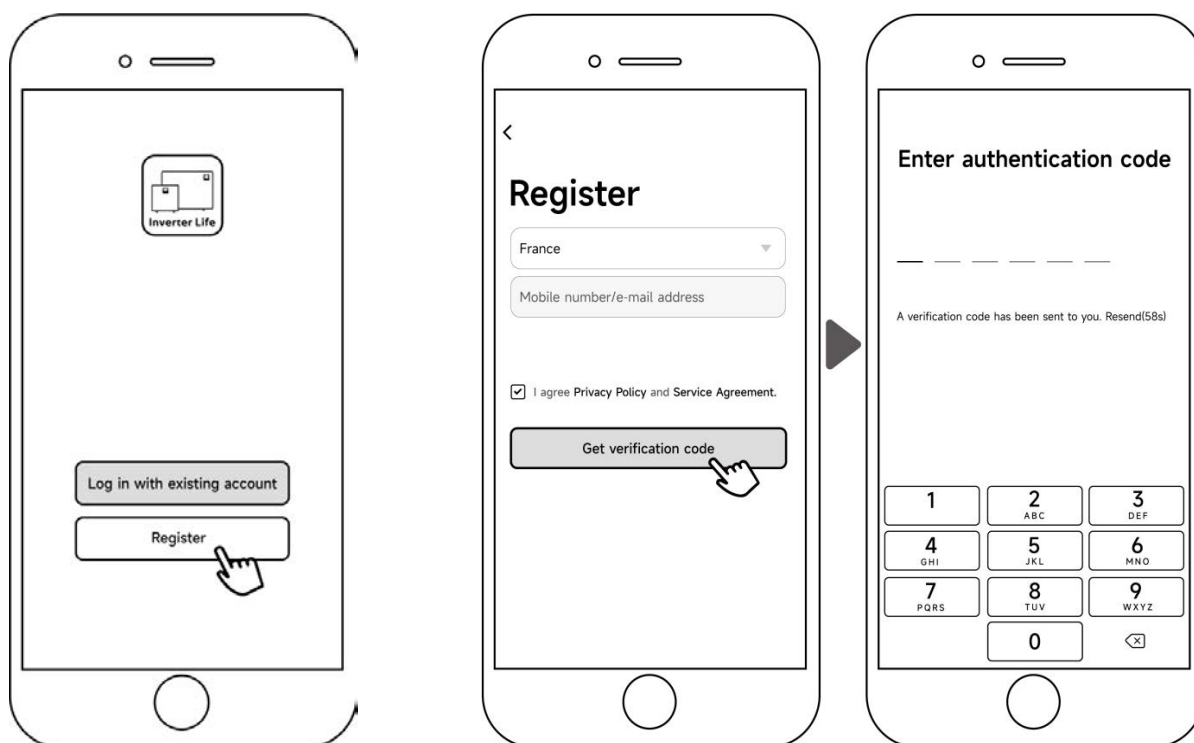
SECTION 8: WIFI SETUP

8.1: APP DOWNLOAD AND ACCOUNT REGISTRATION



1. Ensure your mobile device is connected to WIFI. On your mobile device, download the “Inverter life” app in the Apple iOS App Store or the Google Play Store.

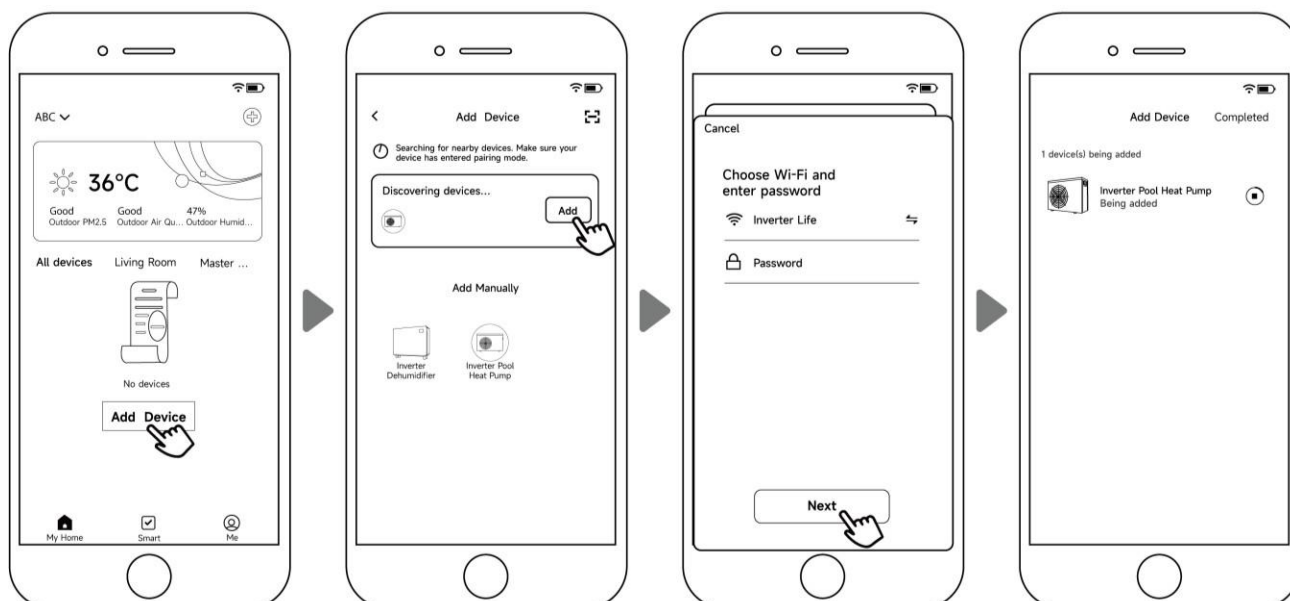


2. Create an account in the Inverter Life app. Ensure you allow the app to access devices on your local network, and access Notifications, Bluetooth and WIFI.





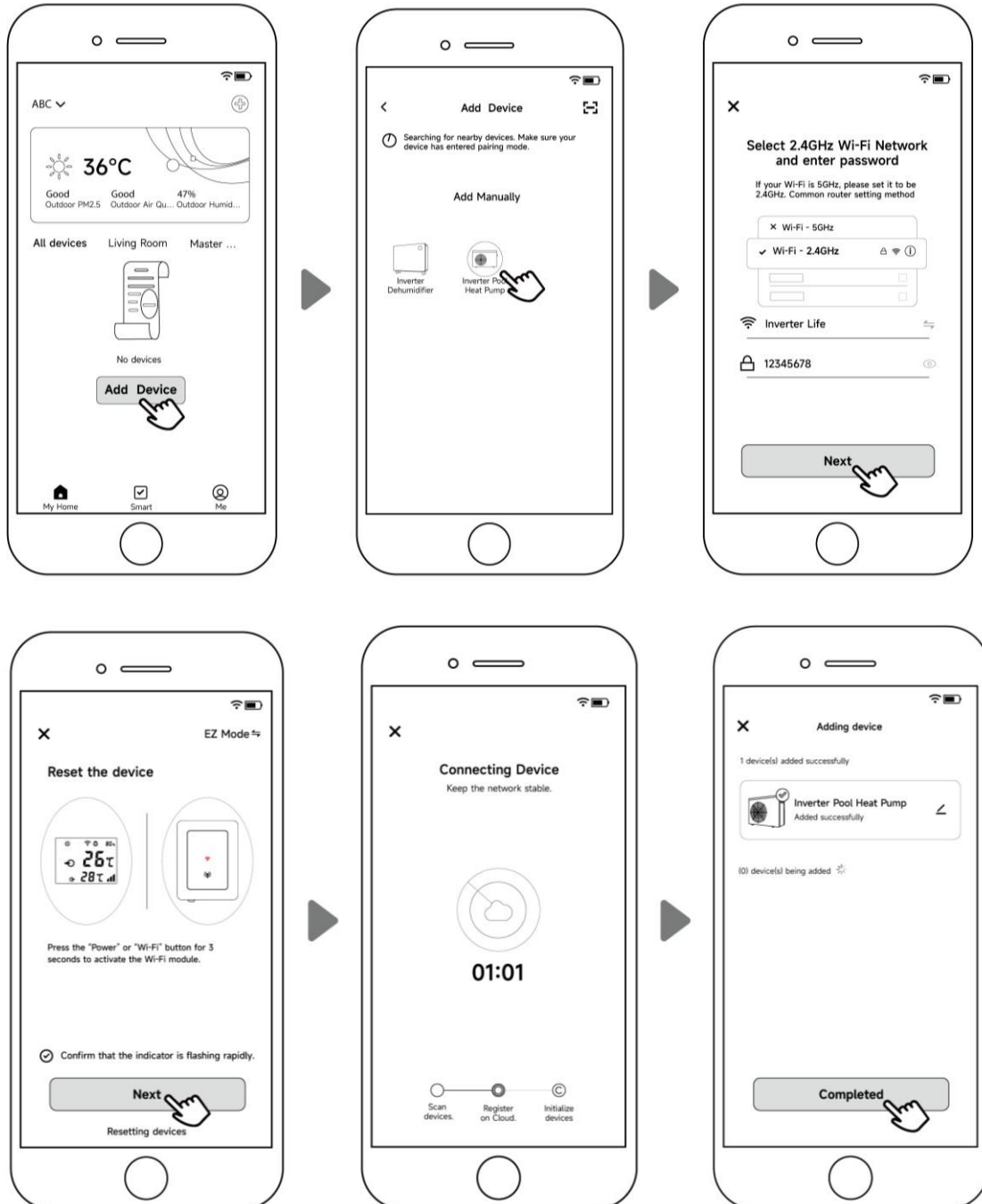
8.2: PAIRING YOUR DEVICE WITH THE HEAT PUMP VIA AUTO-DISCOVERY/BLUETOOTH

1. To begin connecting your heat pump with the app, press  on the heat pump for 3 seconds after the screen is unlocked.  will flash to indicate it has entered pairing mode.
2. Tap on the “add device” button in the Inverter Life app (please allow Location Services). The app will automatically search for available devices. Follow the below steps to finish pairing.





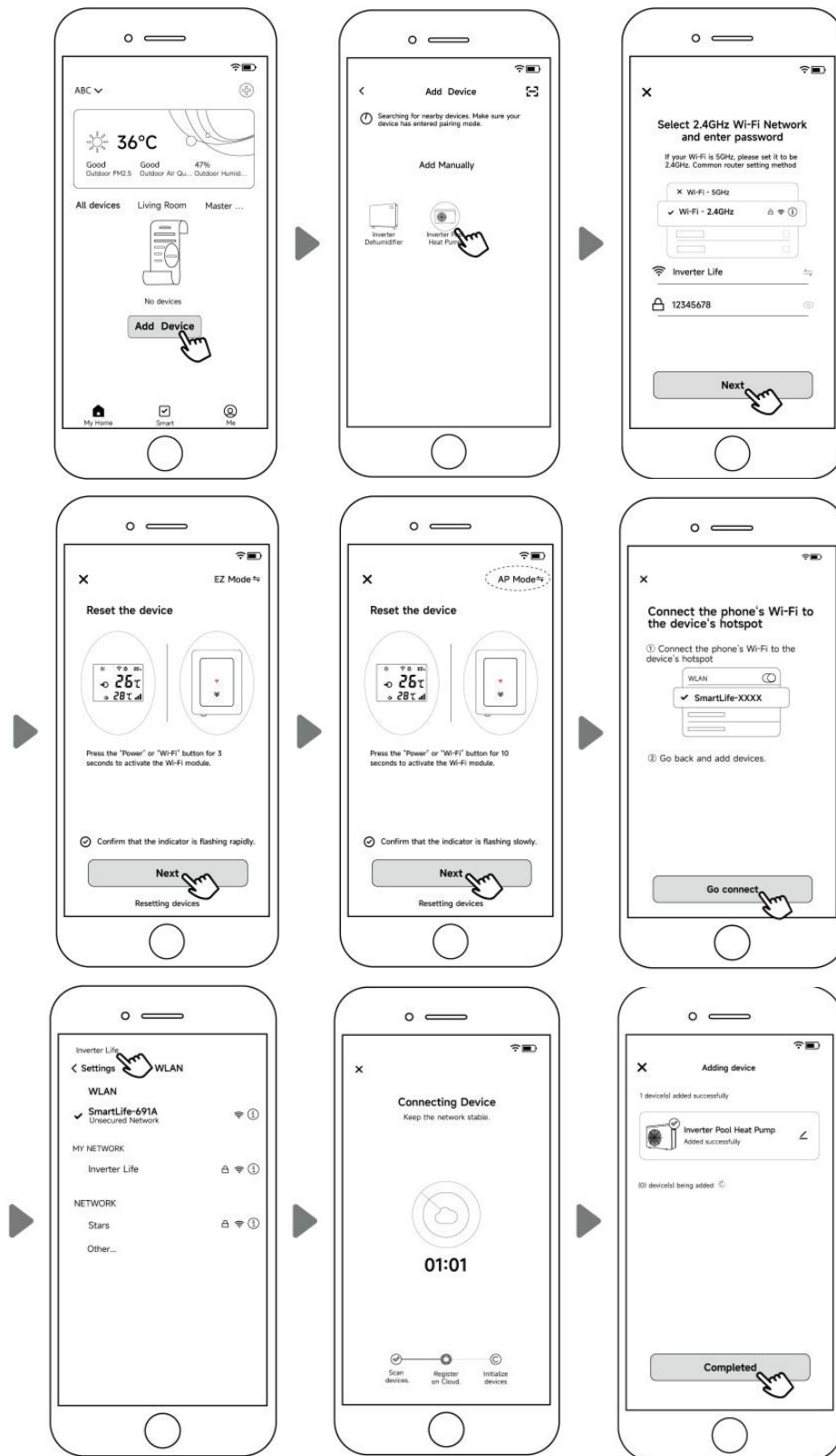
8.3: PAIRING YOUR DEVICE WITH THE HEAT PUMP VIA MANUALLY ADDING

1. To begin connecting your heat pump with the app, press  on the heat pump for 3 seconds after the screen is unlocked.  will flash to indicate it has entered pairing mode.
2. Tap on the “add device” button in the Inverter Life app (please allow Location Services). Add the device manually by following the below steps.






8.4: PAIRING YOUR DEVICE WITH THE HEAT PUMP VIA AP MODE

- To begin connecting your heat pump with the app, press  on the heat pump for 3 seconds after the screen is unlocked.  will flash to indicate it has entered pairing mode.
- Tap on the “add device” button in the Inverter Life app (please allow Location Services). Add the device via AP Mode by following the below steps.



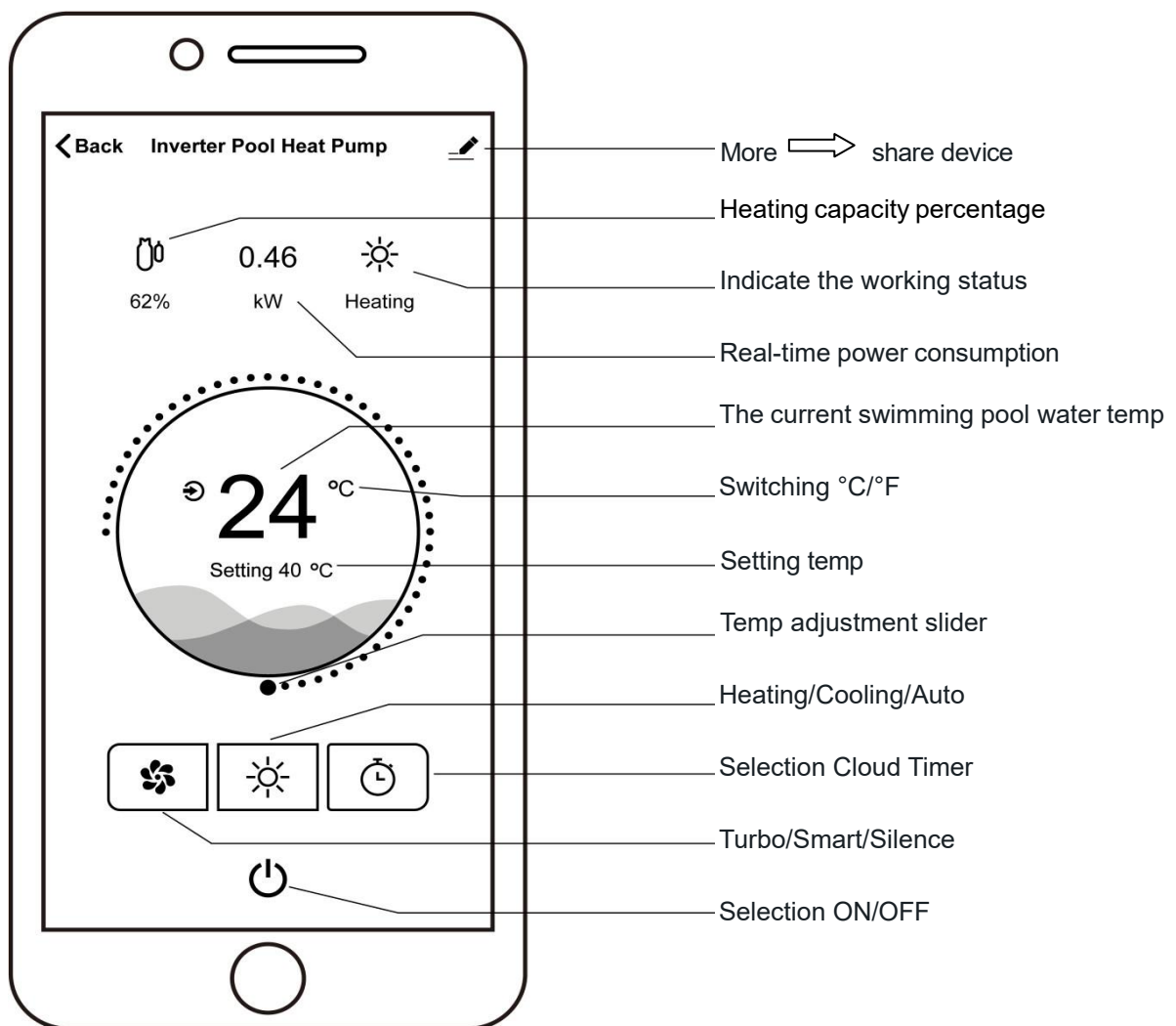
8.5: RE-PAIRING YOUR DEVICE

You may experience a pairing failure if your WIFI password changes or your network configuration changes. To re-pair your mobile device to your heat pump, follow these steps.

1. Ensure your network name and password are correct.
2. Ensure your router, mobile phone and device are as close as possible.
3. Press  on your heat pump for 10 seconds.  will flash slowly for 60 seconds then  will turn off – this has removed your original pairing. Follow any of the steps in 8.2, 8.3 or 8.4 to re-pair your device.

NOTE: Ensure your router is configured at 2.5GHz.

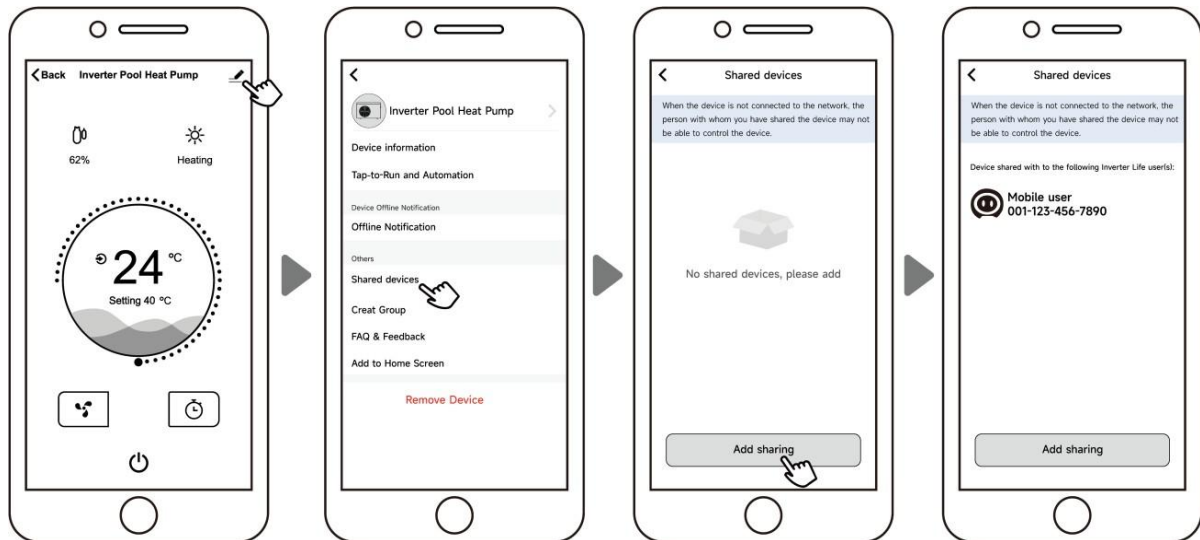
8.6: APP FEATURES



8.7: SHARE DEVICES WITH FAMILY MEMBERS

After you have paired your mobile device with the heat pump, you can share it with other family members.

1. Ensure other family member's device has downloaded/installed the app, and has registered their account in the app (refer to Section 8.1).
2. As the Administrator, tap on More, then tap on Shared Devices. Allow sharing by following the below steps.

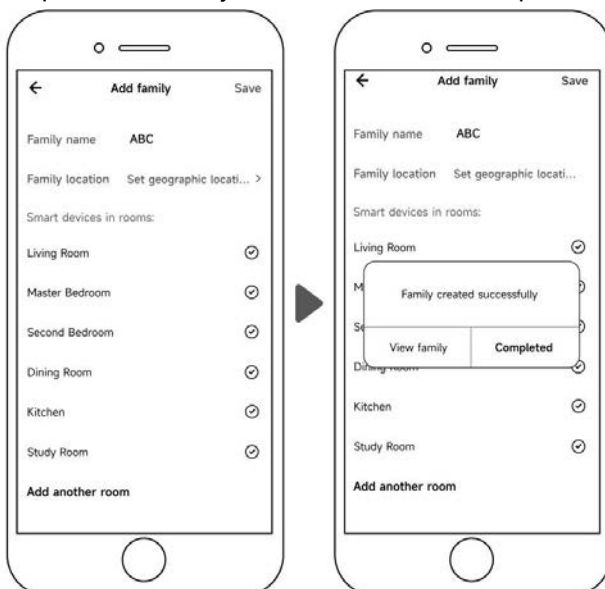


3. Your family member should now be able to see the heat pump in their app.
4. If you'd like more than 1 family member to connect to the same device, you can create a Family in your app.

8.8: CREATE A FAMILY

After you have paired your mobile device with the heat pump, you can share it with other family members.

1. Tap on your profile "Me" in the app, then tap on Home Management.
2. Tap on Add Family. Fill in the details and tap Save.



3. Other family members who have the Inverter Life app set up on their mobile device (refer to Section 8.1) can now tap Join a Home to be linked to your Family setup.

SECTION 9: MAINTENANCE

9.1: REGULAR MAINTENANCE



Regular maintenance can be carried out by the user.

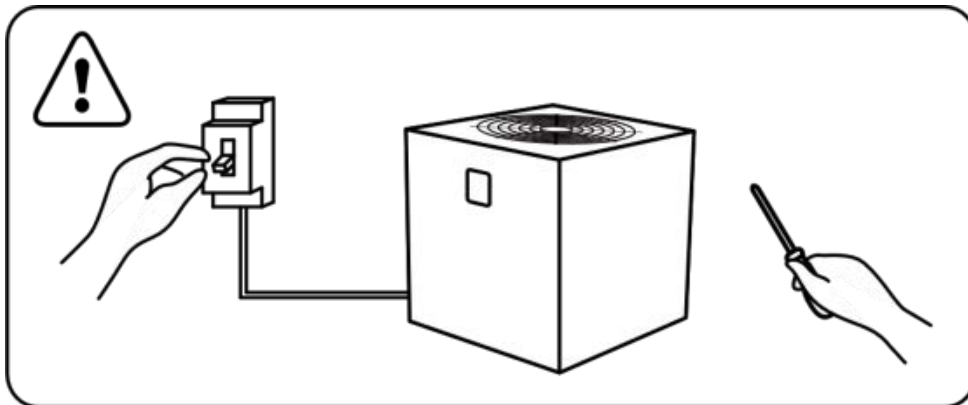
1. Regularly check there are no obstacles blocking the air inlet and outlet of the heat pump.
2. Regularly check all unions, bolts and other visible connections for leaks or signs of wear.

9.2: ANNUAL MAINTENANCE – QUALIFIED TECHNICIAN ONLY



Annual maintenance must be carried out by a qualified professional technician.

1. Turn off the main power supply of the heat pump before cleaning, examination and repairing. Do not touch the electronic components until the LED indication lights on the PC board turn off.



2. Clean the evaporator with household detergents or clean water. NEVER use gasoline, thinners or any similar fuel.
3. Check bolts, cables and connections are in good condition.
4. If any spare parts are required, contact your authorised dealer. Only use genuine spare parts.
5. Only qualified professional technicians must handle/refill gas.

SECTION 10: WINTERISING



Do not allow water to freeze inside the heat pump, as this may damage the titanium heat exchanger and void your warranty.

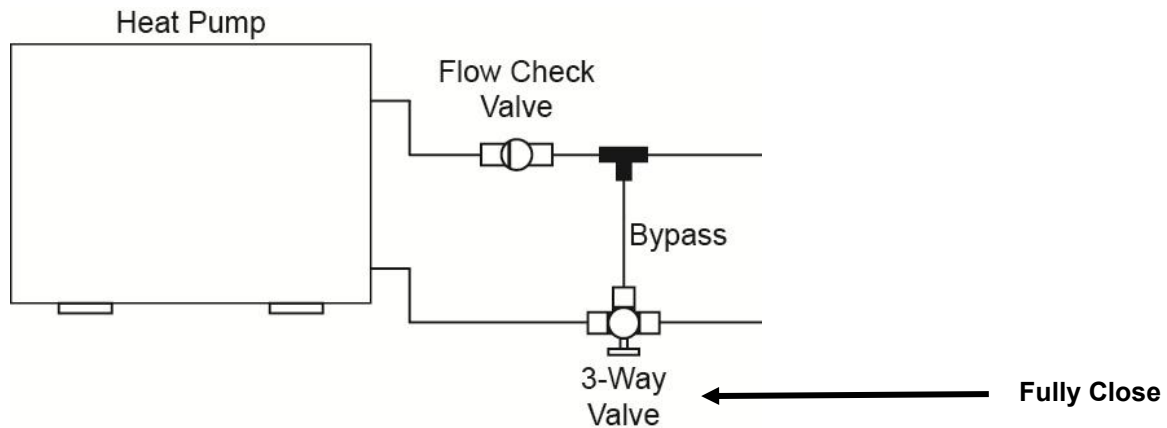


When using the heat pump under 2°C, make sure there is always water flow.

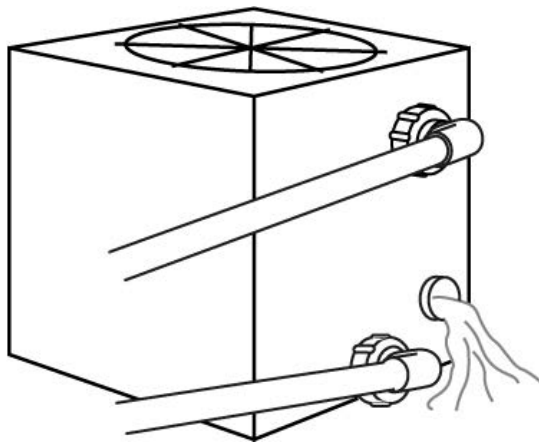
Follow these steps when the heat pump will not be used for an extended period of time e.g. Winter.

1. Turn off the main power supply to the heat pump.

2. Fully close the 3-way valve.



3. Drain the water out of the heat pump by unscrewing the lower union (inlet) and let the water run out.



4. Screw the inlet union securely back into place.
5. When you are ready to resume operation of your heat pump, perform all steps in Section 6 to ensure the heat pump is set up correctly.

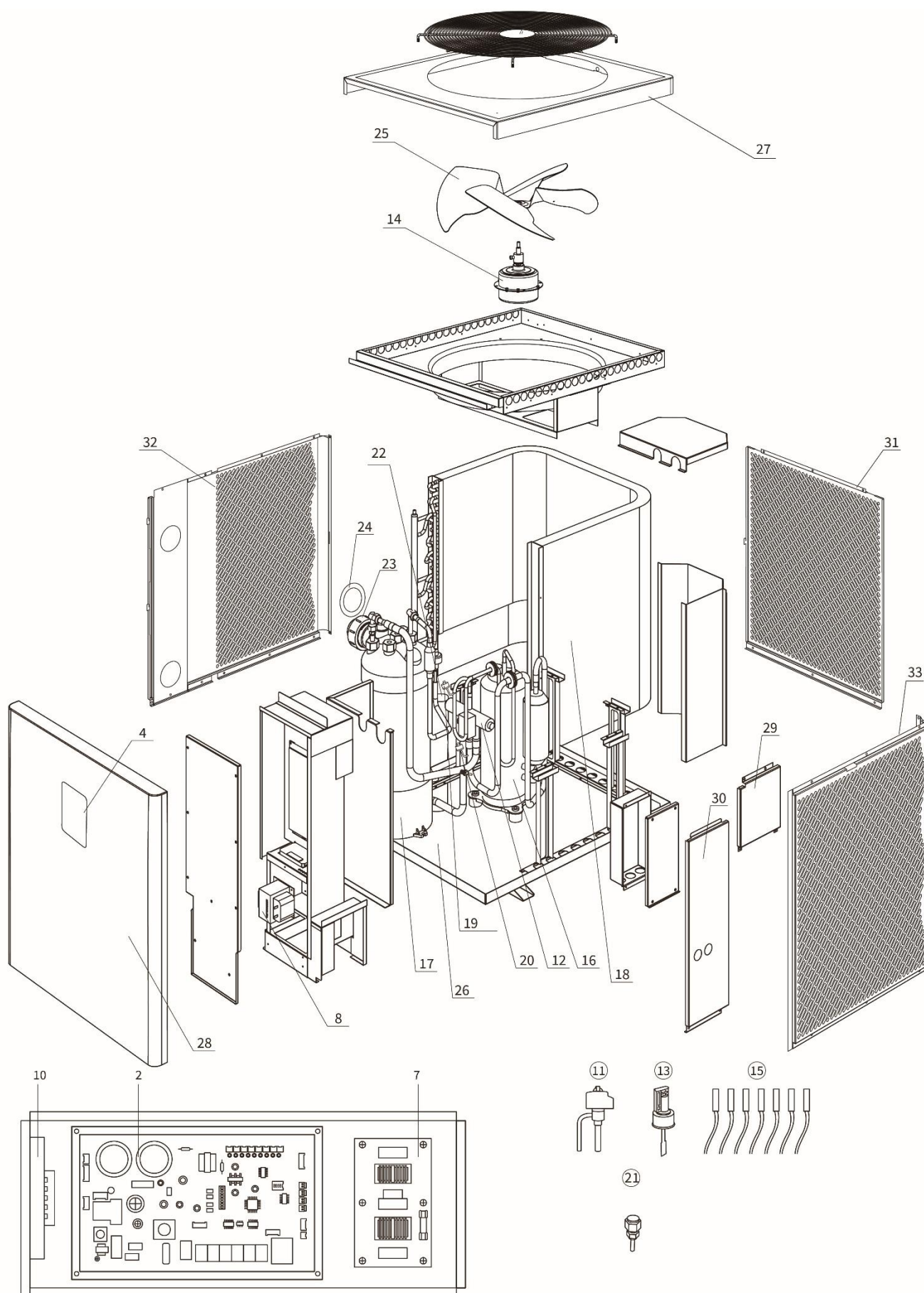
SECTION 11: TROUBLESHOOTING

ISSUE	POSSIBLE REASON	POSSIBLE SOLUTION
Heat pump doesn't run	No power	Wait until the power recovers
	Power switch is off	Switch on the power
	Fuse burned	Check and change the circuit fuse in your power box
	The breaker is off	Check and turn on the breaker
Fan is running but with insufficient heating	Evaporator blocked	Remove the obstacles
	Air outlet blocked	Remove the obstacles
	3 minutes start delay	Wait patiently
Display normal, but no heating	Set temp. too low	Set proper heating temperature
	3 minutes start delay	Wait patiently
If the above solutions don't work, please contact your installer with detailed information and your model number. Do not try to repair it yourself.		

ERROR CODE	DESCRIPTION	POSSIBLE SOLUTION
E1	High pressure protection	1. Check the water flow from pump and ventilation clearances.
		2. Check high pressure switch is closed circuit.
		3. Replace PC board.
		4. Replace integrated board. (Inverter board 3 phase models)
E2	Low pressure protection	1. Check the water flow from pump and ventilation clearances.
		2. Check if refrigerant gas is leaking (qualified technician only).
		3. Check low pressure switch is closed circuit.
		4. Replace PC board.
		5. Replace integrated board. (Inverter board 3 phase models)
E3	Low/No water flow	1. Check water pump is running.
		2. Check flow in system is sufficient.
		3. Check bypass valves are set correctly.
		4. Check water flow switch.
E4	3 phase electrical protect	1. Check electrical connection to heater.
E5	Power supply exceeds operating range	1. Check power supply cable (size).
		2. Replace PC board.
E6	Excessive temp difference between inlet and outlet (insufficient water flow)	1. Check flow in system is sufficient (no blockages).
		2. Check bypass valves are set correctly.
		3. Check water flow switch.
E7	Water outlet temp too high or too low protection	1. Check for back pressure in pipes.
		2. Check for blockages on discharge line.
E8	High exhaust temp protection	1. Compressor overheating.
		2. Check if refrigerant gas is leaking (qualified technician only).
		3. Check sensor.
		4. Check compressor.
EA	Evaporator overheat protection (only on cooling mode)	1. Check evaporative coil temp sensor.
		2. Check if outside of heat pump's operating range (-15°C to +43°C)
Eb	Ambient temperature too high or too low protect	1. Out of heat pump's operating range (-15°C to +43°C)
Ed	Anti-freezing reminder	1. Wait for automatic recovery.
F1	Compressor drive module failure	1. Check the voltage (power supply).
		2. Replace integrated board. (Inverter board 3 phase models)
F2	PFC module failure	1. Check the PFC switch circuit.
		2. Replace integrated board. (Inverter board 3 phase models)
F3	Compressor start failure	1. Check compressor circuit wiring.
		2. Replace integrated board. (Inverter board 3 phase models)
		3. Check compressor.
F4	Compressor running failure	1. Check compressor circuit wiring.
		2. Replace integrated board. (Inverter board 3 phase models)
		3. Check compressor.

F5	Inverter board over current protection	1. Check wiring (power cable size).
		2. Replace integrated board. (Inverter board 3 phase models)
		3. Replace PC board.
F6	Inverter board overheat protection	1. Check current to integrated board.
		2. Replace integrated board. (Inverter board 3 phase models)
F7	Current protection	1. Power off, wait 5 min, then restart.
		2. Replace integrated board. (Inverter board 3 phase models)
		3. Replace PC board.
F8	Cooling plate overheat protection	1. Power off, wait 5 min, then restart.
		2. Check fan motor.
		3. Replace cooling plate.
F9	Fan motor failure	1. Check fan motor wiring.
		2. Check if fan is broken or loose.
Fb	Capacitor not charging protection	1. Replace integrated board.
		2. For 3 phase replace integrated board and capacitor plate.
FA	PFC module over current protection	1. Power off, wait 5 min, then restart.
		2. Replace integrated board. (Inverter board 3 phase models)
		3. Can be common with solar PV addition.
P0	Controller communication failure	1. Check wiring.
		2. Replace LED controller.
		3. Replace integrated board. (Inverter board 3 phase models)
P1	Water inlet temp sensor failure	1. Check temperature sensor at water inlet.
		2. Replace integrated board. (Inverter board 3 phase models)
P2	Water outlet temp sensor failure	1. Check temperature sensor at water inlet.
		2. Replace integrated board. (Inverter board 3 phase models)
P3	Gas exhaust temp sensor failure	1. Check gas exhaust temperature sensor.
		2. Replace integrated board. (Inverter board 3 phase models)
P4	Evaporative coil pipe temp sensor failure	1. Check evaporative coil pipe temp sensor.
		2. Replace integrated board. (Inverter board 3 phase models)
P5	Gas return temp sensor failure	1. Check gas return temp sensor.
		2. Replace integrated board.
P6	Cooling (heat exchanger) coil pipe temp sensor failure	1. Check cooling pipe temp sensor.
		2. Replace integrated board. (Inverter board 3 phase models)
P8	Cooling plate temp sensor failure	1. Replace integrated board. (Inverter board 3 phase models)
P9	Current sensor failure	1. Replace integrated board.
		2. Replace power filter plate (3 phase model only).
PA	Restart memory failure	1. Replace integrated board. (Inverter board 3 phase models)

SECTION 12: SCHEMATICS NHX10TD, NHX11TD, NHX13TD, NHX17TD, NHX21TD, NHX26TD, NHX32TD



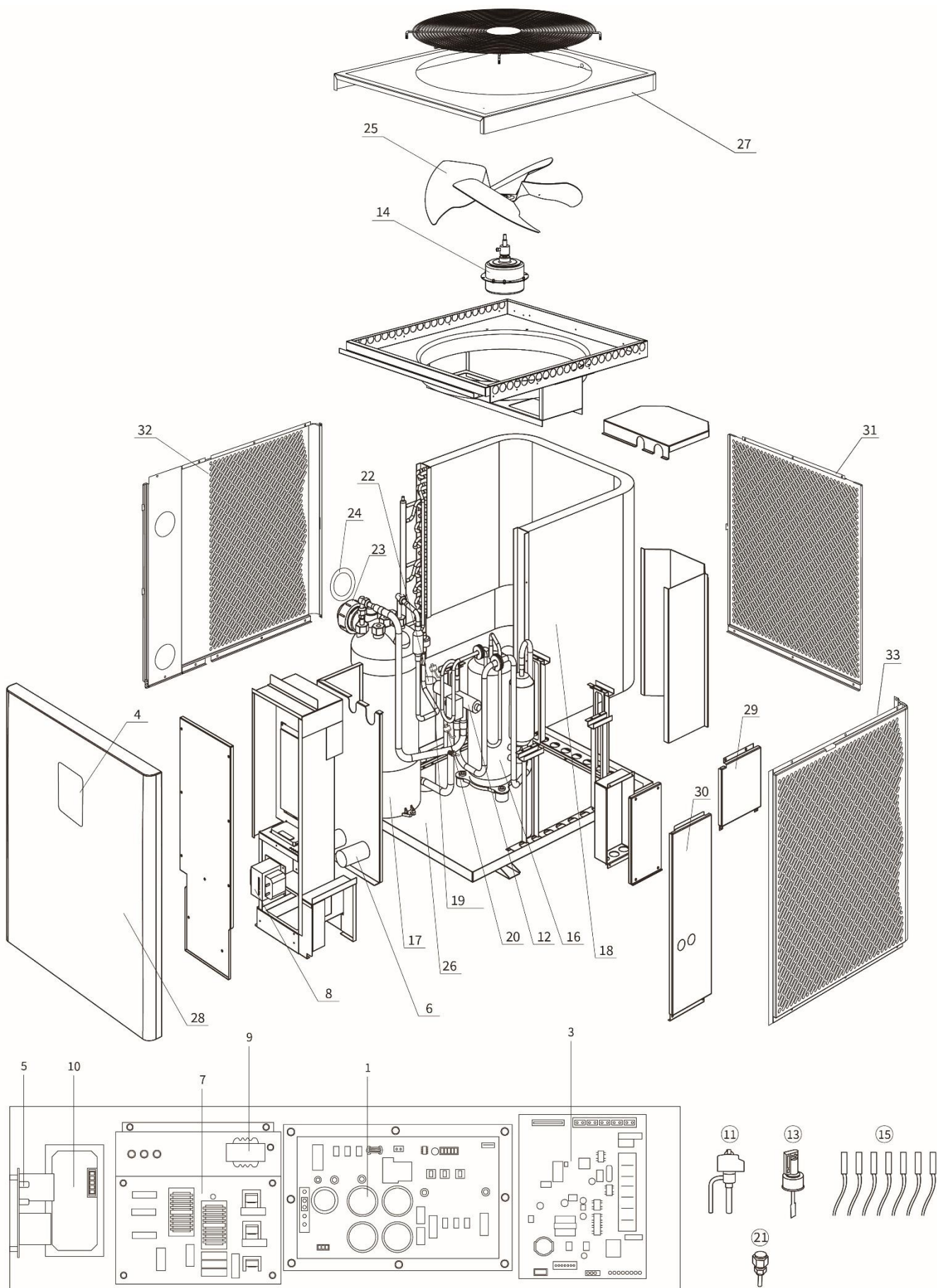
MODELS NHX10TD, NHX11TD, NHX13TD, NHX17TD, NHX21TD, NHX26TD, NHX32TD

Ref #	Stock Code	DESCRIPTION
1	TBA	Inverter board
2	NHXP007	Integrated board for NHX10TD & NHX11TD
2	NHXP008	Integrated board for NHX13TD
2	NHXP009	Integrated board for NHX17TD
2	NHXP010	Integrated board for NHX21TD
2	NHXP011	Integrated board for NHX26TD
2	NHXP012	Integrated board for NHX32TD
3	TBA	PC board (Heat)
4	NHXP026	Touch controller without timer function
4	NHXP027	Touch controller with timer function
5	N/A	Contactors (3 phase relay)
6	N/A	Capacitor (3 phase)
7	NHXP015	Power filter plate for NHX10TD & NHX11TD
7	NHXP016	Power filter plate for NHX13TD & NHX17TD
7	NHXP017	Power filter plate for NHX21TD
7	NHXP018	Power filter plate for NHX26TD & NHX32TD
8	NHXP340	Reactor (big) for NHX10TD & NHX11TD
8	NHXP341	Reactor (big) for NHX13TD
8	NHXP342	Reactor (big) for NHX17TD & NHX21TD
8	NHXP343	Reactor (big) for NHX26TD & NHX32TD
9	TBA	Reactor (small)
10	NHXP110	Fan motor driver module for NHX10TD, NHX11TD, NHX13TD, NHX17TD, NHX21TD & NHX26TD
10	NHXP111	Fan motor driver module for NHX32TD
11	NHXP251	Electronic expansion valve for NHX21TD
11	NHXP252	Electronic expansion valve for NHX26TD
11	NHXP253	Electronic expansion valve for NHX32TD
12	NHXP210	4-way valve for NHX10TD, NHX11TD, NHX13TD & NHX17TD
12	NHXP211	4-way valve for NHX21TD
12	NHXP212	4-way valve for NHX26TD & NHX32TD
13	NHXP020	Water flow switch
14	NHXP130	Fan motor for NHX10TD, NHX11TD, NHX13TD & NHX17TD

Ref #	Stock Code	DESCRIPTION
14	NHXP131	Fan motor for NHX21TD
14	NHXP132	Fan motor for NHX26TD
14	NHXP133	Fan motor for NHX32TD
15	NHXP040	Full set of sensors
16	NHXP230	Compressor for NHX10TD & NHX11TD
16	NHXP231	Compressor for NHX13TD & NHX17TD
16	NHXP232	Compressor for NHX21TD
16	NHXP233	Compressor for NHX26TD
16	NHXP234	Compressor for NHX32TD
17	NHXP360	Titanium heat exchanger (Heat) for NHX10TD & NHX11TD
17	NHXP361	Titanium heat exchanger (Heat) for NHX13TD
17	NHXP362	Titanium heat exchanger (Heat) for NHX17TD
17	NHXP364	Titanium heat exchanger (Heat) for NHX21TD
17	NHXP366	Titanium heat exchanger (Heat) for NHX26TD
17	NHXP368	Titanium heat exchanger (Heat) for NHX32TD
18	TBA	Evaporator
19	NHXP280	High pressure protection switch
20	NHXP050	Low pressure protection switch
21	NHXP060	Low pressure valve
22	TBA	Liquid reservoir (only for models NHX26TD & NHX32TD)
23	NHXP070	Water union 48mm 2pk
24	NHXP080	Water union gasket 2pk
25	NHXP092	Fan for NHX10TD, NHX11TD, NHX13TD & NHX17TD
25	NHXP094	Fan for NHX21TD
25	NHXP095	Fan for NHX26TD
25	NHXP093	Fan for NHX32TD
26	TBA	Bottom board
27	TBA	Top cover
28	TBA	Front Panel
29	TBA	Right Upper Panel
30	TBA	Right Lower Panel
31	TBA	Back mesh board
32	TBA	Left mesh board
33	TBA	Right mesh board
-	NHXP270	Foot (New Style) w/ Bolt Assembly 4pk
-	NHXP400	Storage cover for NHX13TD
-	NHXP401	Storage cover for NHX26TD
-	NHXP399	Storage cover for NHX21TD
-	NHXP392	Storage cover for NHX32TD

* Contact Pool Pro for any parts without a listed code.

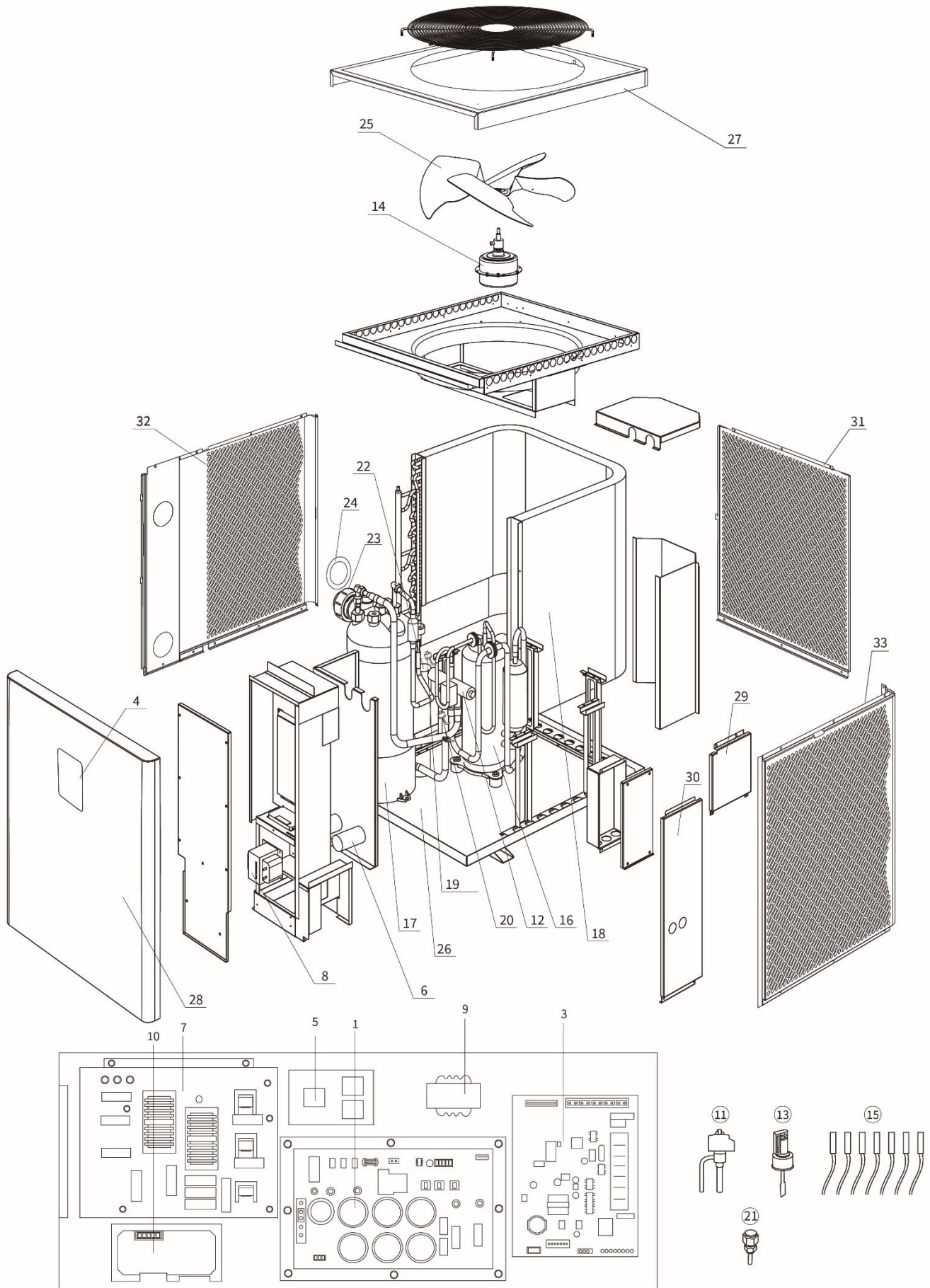
SECTION 13: SCHEMATICS – NHX32TD3



MODEL NHX32TD3		
Ref #	Stock Code	DESCRIPTION
1	NHXP315	Inverter board
2	TBA	Integrated board (Heat)
3	NHXP327	PC board (Heat)
3	NHXP201	PC board (Heat & Cool)
4	NHXP026	Touch controller without timer function
4	NHXP027	Touch controller with timer function
5	NHXP245	Contactor (3 phase relay)
6	NHXP225	Capacitor (3 phase)
7	NHXP019	Power filter plate
8	NHXP344	Reactor (big)
9	NHXP351	Reactor (small)
10	NHXP111	Fan motor driver module
11	NHXP253	Electronic expansion valve
12	NHXP212	4-way valve
13	NHXP020	Water flow switch
14	NHXP133	Fan motor
15	NHXP040	Full set of sensors
16	NHXP234	Compressor
17	NHXP368	Titanium heat exchanger (Heat)
18	TBA	Evaporator
19	NHXP280	High pressure protection switch
20	NHXP050	Low pressure protection switch
21	NHXP060	Low pressure valve
22	TBA	Liquid reservoir
23	NHXP070	Water union 48mm 2pk
24	NHXP080	Water union gasket 2pk
25	NHXP093	Fan
26	TBA	Bottom board
27	TBA	Top cover
28	TBA	Front Panel
29	TBA	Right Upper Panel
30	TBA	Right Lower Panel
31	TBA	Back mesh board
32	TBA	Left mesh board
33	TBA	Right mesh board
-	NHXP270	Foot (New Style) w/ Bolt Assembly 4pk
-	NHXP403	Storage cover

* Contact Pool Pro for any parts without a listed code.

SECTION 14: SCHEMATICS – NHX40TD3



MODEL NHX40TD3		
Ref #	Stock Code	DESCRIPTION
1	NHXP317	Inverter board
2	TBA	Integrated board (Heat)
3	NHXP329	PC board (Heat)
3	NHXP202	PC board (Heat & Cool)
4	NHXP026	Touch controller without timer function
4	NHXP027	Touch controller with timer function
5	NHXP245	Contactor (3 phase relay)
6	NHXP227	Capacitor (3 phase)
7	NHXP019	Power filter plate
8	NHXP345	Reactor (big)
9	NHXP351	Reactor (small)
10	NHXP111	Fan motor driver module
11	NHXP253	Electronic expansion valve
12	NHXP212	4-way valve
13	NHXP020	Water flow switch
14	NHXP133	Fan motor
15	NHXP040	Full set of sensors
16	NHXP234	Compressor
17	NHXP369	Titanium heat exchanger (Heat)
18	TBA	Evaporator
19	NHXP280	High pressure protection switch
20	NHXP050	Low pressure protection switch
21	NHXP060	Low pressure valve
22	TBA	Liquid reservoir
23	NHXP070	Water union 48mm 2pk
24	NHXP080	Water union gasket 2pk
25	NHXP096	Fan
26	TBA	Bottom board
27	TBA	Top cover
28	TBA	Front Panel
29	TBA	Right Upper Panel
30	TBA	Right Lower Panel
31	TBA	Back mesh board
32	TBA	Left mesh board
33	TBA	Right mesh board
-	NHXP270	Foot (New Style) w/ Bolt Assembly 4pk
-	NHXP402	Storage cover

* Contact Pool Pro for any parts without a listed code.

SECTION 15: WARRANTY & PRODUCT REGISTRATION

Please register your product online at www.poolpro.com.au/product-registration within 30 days from date of purchase, or any warranty claim may be voided.

- The warranty for the Neptune X-Pro Heat Pump (models NHX10, NHX11, NHX13, NHX14, NHX17, NHX18, NHX21, NHX22, NHX26, NHX32, NHX323, NHX403, NHX10TD, NHX11TD, NHX13TD, NHX17TD, NHX21TD, NHX26TD, NHX32TD, NHX32TD3, NHX40TD3) covers manufacturer's defects in materials and workmanship for:

25 years on the heat exchanger
10 years on the compressor
5 years on all other parts
1 year on labour

If the heat pump is installed in a commercial setting, the warranty periods are 25 years on the heat exchanger, 5 years on the compressor, 2 years on all other parts, 1 year on labour.

- The warranty is only valid for the original purchaser and is non-transferable.
- Adverse operating conditions beyond the control of the manufacturer such as improper voltage, excessive ambient temperature or any condition that adversely affects the performance of the equipment will render this warranty null and void.
- Defective equipment must be returned to the authorised dealer as soon as the purchaser becomes aware of the defect and all transport costs must be prepaid.
- Neither the manufacturer nor the authorised dealer shall be responsible for any goods damaged in transit.
- Any liability of the manufacturer pursuant to the Trade Practices Act 1974, as amended for a breach of a condition or warranty shall be limited to replacing or acquiring the equipment (or part thereof) where the same has been supplied.
- The maximum liability incurred by the manufacturer shall not in any case exceed the contract price for the equipment or the product parts or components thereof claimed to be defective. Further, the manufacturer shall not be liable for any loss, damage or delay directly or indirectly caused by any malfunction of or defect of or failure of the equipment other than as expressly provided in this warranty.
- The manufacturer and authorised dealer will not be held liable for damage caused to the pool and surrounding areas.
- Keep your original purchase invoice and serial number in a safe place.

Warranty is void under the following circumstances:

- Incorrect operation of the unit by not following correct instructions.
- Improper maintenance and balancing of pool water.
- Damage caused to the heat pump due to misuse or damage caused by any other means than manufacturer defect.
- If the heat pump is repaired or serviced by an unauthorised dealer or serviceman.
- If a fault occurs in the operation of the heat pump by using non-genuine parts/accessories.
- If the heat pump has been misused, neglected, damaged or altered in any way.
- General wear and tear of consumable products.

To submit a warranty request, visit www.poolpro.com.au/serviceclaim