



INSTALLATION & OPERATION MANUAL



FUSION-i PRO

INVERTER POOL & SPA HEAT PUMP



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1. Introduction

This manual contains information relating to the installation, troubleshooting, operation, and maintenance of this EvoHeat unit. Instructions in this manual must always be followed. Failure to comply with these recommendations will invalidate the warranty. Should you have any questions or require technical support, call the EvoHeat office on 1300 859 933 to speak to our team.



The Evo Fusion-i Pro heat pump is the ideal choice for recreational pool & spa owners looking to extend their swim season with minimal running costs. Designed with the latest technology including stepless full DC inverter compressors, fans, and control systems – the Evo Fusion-i Pro is the energy efficient and environmentally friendly way to enjoy a longer swim season.

PERFORMANCE DATA									
FUSION-i PRO		7	9	13	16	19	24	28-3	35-3
Performance Conditions: Air at 27°C / Water In 26°C / Water Out 28°C									
Heating Capacity	kW	2~7	2.4~9.36	3.2~12.3	4.18~15.48	4.38~18	4.7~24.6	7.7~28.87	10.3~32.37
Consumed Power	kW	0.17~1.19	0.19~1.57	0.25~2.04	0.32~2.58	0.34~3.17	0.36~3.89	0.59~4.49	0.79~5.90
C.O.P		12~5.89	12.5~5.98	12.7~6.04	12.9~6.01	13.0~5.68	13.0~6.32	13~6.43	13.0~5.49
Performance Conditions: Air at 15°C / Water In 26°C / Water Out 28°C									
Heating Capacity	kW	1.10~5	1.2~6.6	1.78~9.07	2.17~10.99	2.4~12.47	4.40~18.6	6.4~21.4	7.85~24.41
Consumed Power	kW	0.16~1.14	0.17~1.47	0.25~1.95	0.3~2.32	0.32~2.65	0.61~3.86	0.87~4.38	1.08~4.5
C.O.P		6.9~4.4	7~4.5	7.2~4.6	7.2~4.7	7.4~4.7	7.2~4.81	7.30~4.89	7.27~5.42
Performance Conditions: Air at 35°C / Water In 29°C / Water Out 27°C									
Cooling Capacity	kW	1.81~2.61	1.86~3.23	2.45~3.64	3.50~6.60	4.41~7.65	4.95~12.30	5.80~14.51	5.80~14.51
Consumed Power	kW	0.61~0.89	0.69~1.32	0.80~1.23	1.13~1.74	1.52~3.06	1.54~4.30	1.84~5.25	1.84~5.25
E.E.R		2.99~2.94	2.70~2.45	3.05~2.96	3.10~3.80	2.89~2.50	3.21~2.86	3.14~2.76	3.14~2.76
TECHNICAL DATA									
Temperature Settings	°C	Min: 8°C / Max: 38°C							
Power Supply		220-240/1/50						380-415/3/50	
Max Current per Phase	amps	6.8	9.9	10.51	14.92	15.72	22.5	10.22	11.7
Connection Type		10amp		15amp			Hardwired		
Fan Quantity		1							
Fan Speed	RPM	600~800		600~850	500~800	500~750	500~800	500~700	
Airflow (min - max)	m³/h	1500-2500	1500-3200	1800-3700	2000-4200	2200-4800	3000-5300	3000-4300	3000-4300
Noise at 1M	dB(A)	38~51	40~52	42~54	44~55	44~56	45~56	45~57	
Noise at 1M in Silent Mode	dB(A)	39	40	43	44	45	46	47	
Noise at 10M	dB(A)	18~31	20~32	22~34	24~35	24~36	24~46	25~47	
Refrigerant		R32							
Refrigerant Charge	g	320	400	460	650	750	1150	1350	1350
PVC Water Connection	mm	40							
Water Flow Volume	L/min	46.67		66.67	85		166.67	200	230
Moisture Resistance		IPX4							
Max. Water Pressure Drop	kPa	1.8	2.8	3	6		14	17	20
Net Dimensions (LxWxH)		934/360/582			1048/453/770.5			1159.5/490/844	
Net Weight	kg	41	42	44	60	69	90	93	

The data above is based on the Evo heat pump only, it does not include auxiliary devices. Product specification information provided above is correct at the date of printing, this data may change without notice. Please speak with an EvoHeat Specialist for the most current product specifications.

SWIM EVERYDAY WITH EVOHEAT

QUICK START GUIDE

Fusion-i Pro



BEFORE YOU START

Register Your Warranty

Registering your EvoHeat product protects your investment by safeguarding your warranty for future reference. This enables our team to retrieve the relevant information regarding your purchase quickly and efficiently, to fulfil any service requirements.

Scan the QR code below to register quickly and easily!



<https://evoheat.com.au/warranty-registration/>

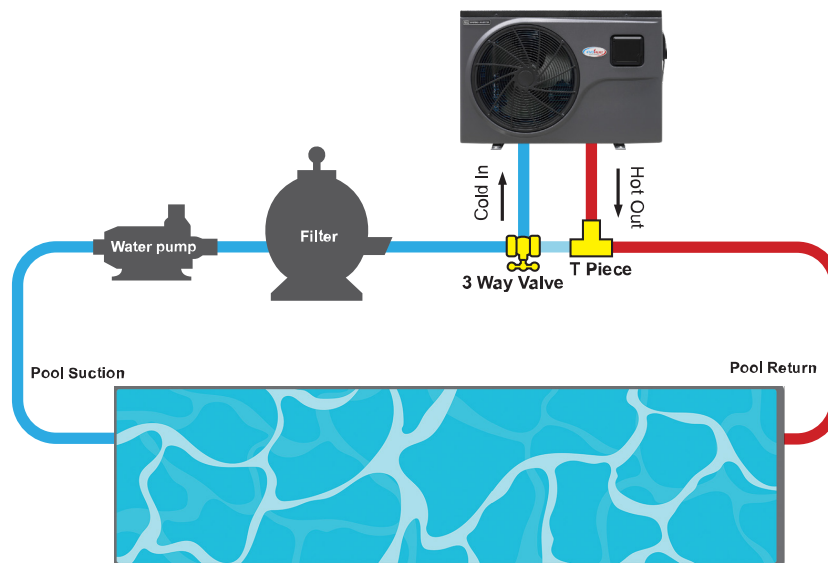


IMPORTANT THINGS TO NOTE

- Ensure you meet the minimum clearances and recommended installation locations as outlined in the manual.
- All heat pump accessories are contained in a plastic bag inside the packaging of your heat pump unit.

PRE-INSTALLATION

1. Position the heater on a level pad in the desired location on the pool water return line (as shown in the example image below).
2. Install the supplied antivibration rubber pads under the feet of the unit.
3. Install the supplied condensation barb to the underside of the unit and direct the condensation to an appropriate drainage point.



PLUMBING INSTALLATION

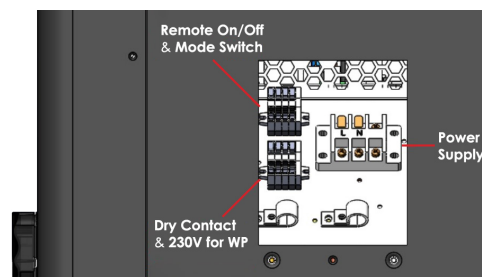
NOTE: Evo heat pumps standard plumbing fitting size can accept 40mm NB PVC pipe for connection to the pool or spa filtration plumbing.

1. Attach the supplied barrel unions to the cold inlet and hot outlet (hand tighten).
2. Use plumbing tape and ensure the 'O' ring is in position when sealing.
3. Install a 3-way valve at the cold-water inlet and create a bypass by connecting a "T" piece to the heated line.
4. Make the plumbing connections and brace pipework where necessary.

WATER PUMP CONNECTION

NOTE: there are 3 connection options for activation of the heat pump/water pump:

1. Remote on/off – for connection to external pool automation (signal input)
2. Water Pump – 230V connection point for dedicated water pump
3. Dry Contact – connection for chlorinators with dry contact capabilities (signal output)



ELECTRICAL CONNECTION

NOTE: Electrical connection should only be completed by licenced personnel and in accordance with all relevant Australian Standards, applicable laws and local legislations.

1. Remove the external cover to the electrical terminal by removing the screws and the terminal cover panel.
2. Feed the electrical cable in through the conduit nipple and attach the electric supply wires to the applicable Active Neutral and Earth connections located in the electrical terminal.
3. To complete the electrical connection, install electrical conduit, UF cable or other suitable means as specified (as permitted by local electrical authorities) and connect the cable to a dedicated power supply branch circuit equipped with the appropriate size circuit breaker, or time delay fuse protection.

INITIAL STARTUP & COMMISSIONING

NOTE: The water pump must be running and water circulating through the heat pump for the system to operate.

1. Turn on your water filter pump and check for water leaks and verify flow to and from the pool.
2. Turn on the electrical power supply to the EvoHeat unit.
3. Press the **Main Button** of the controller for half a second, the heat pump will start within a minute.
4. To select the operating mode, press the **swipe on the screen to enter the left-hand menu**. Select the Mode button. Select your desired operating mode and then press 'OK'.
5. To set the temperature, press the target temperature display dial on the main screen. Swipe up or down on the screen to reach your desired temperature, then press 'OK' to save.
6. After the system has been running for approximately 5 minutes, check the Temperature Differential (TD) of the entering cold water to the exiting heated water:
 - a. The main screen will show both the inlet and outlet temperatures of the heat pump.
 - b. Review the inlet and outlet water temperatures and adjust the water flow by opening or closing the 3-way valve installed at the cold water inlet to achieve a target TD of approximately 2°C (e.g. 22°C inlet water and 24°C outlet water).

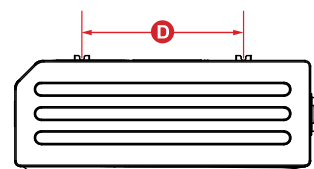
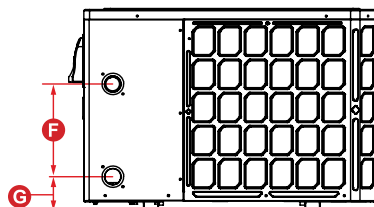
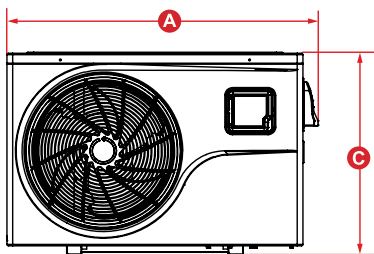
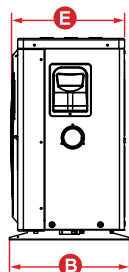
INITIAL HEAT UP TIME

Initial heat up times will vary depending on the size of your pool, environmental conditions and the capacity of the system installed. After installation, please allow the unit and pool pump to run continuously until the desired pool water temperature is reached (it may take several days for the pool to initially reach the set temperature).

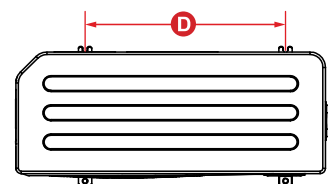
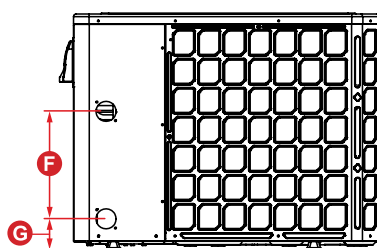
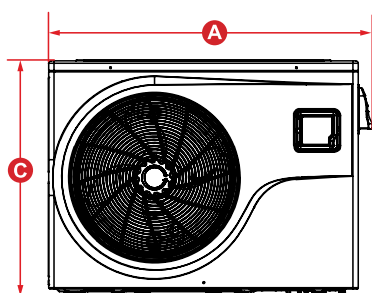
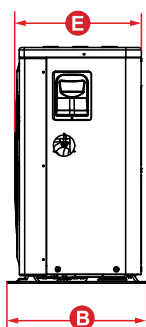
Once the pool water reaches the desired set temperature, the unit will shut off. The unit will automatically restart (provided your pool pump is running) when the pool temperature falls more than 1°C below the desired set temperature.

3. Dimensions

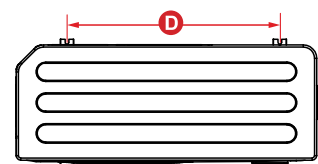
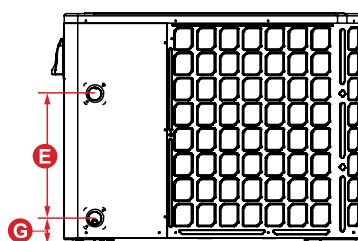
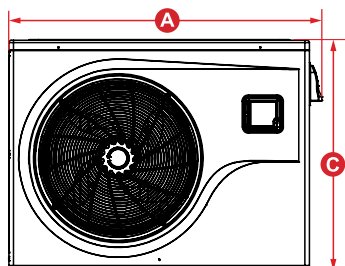
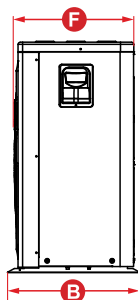
Fusion-i Pro 7, 9 & 13							
Unit: mm	A (L)	B (W)	C (H)	D	E	F	G
	934	360	582	485	380.3	280	102.7



Fusion-i Pro 16 & 19							
Unit: mm	A (L)	B (W)	C (H)	D	E	F	G
	1048	453	770.5	649	409.1	350	101



Fusion-i Pro 24, 28-3 & 35-3							
Unit: mm	A (L)	B (W)	C (H)	D	E	F	G
	1159	490	844	790	465	443.6	97



4. Safety Instructions



Installation, repair, or relocations must only be done by a fully qualified technician. If done incorrectly there is a number of hazards that can occur including fire, electric shock, water leakage and injury.

- A circuit breaker must be installed for the unit.
- Ensure the unit has a good power connection and earthing to avoid the risk of electrical shocks.
- Do not use any means to accelerate the defrosting processor or to clean other than those recommended by EvoHeat.
- The unit must be stored in a room without any continuously operating ignition sources (for example: open flames, an operating gas appliance)
- Do not pierce or burn the unit.
- If the supply cord is damaged, it must be replaced by a qualified service agent.
- This appliance must be installed in accordance with national wiring regulations.
- Before obtaining access to terminals all supply circuits must be disconnected.

The unit is equipped with an over-load protection system. After a previous stoppage, the unit will not start for at least 3 minutes.

Be aware that refrigerants may not contain an odour.

An all-pole disconnection device must be incorporated which as at least 3mm clearances in all poles, a leakage current that may exceed 10mA, residual current device (RCD) having a rated residual operating current not exceeding 30mA and disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

Installation

- The unit should be installed, operated and stored in a room with a floor area larger than 30m².
- The installation of pipe-work should be kept to a minimum 30m²
- Spaces where refrigerant pipes are present must comply with national gas regulations.
- Use supply wires suitable for 75°C

Transport

When transporting equipment containing flammable refrigerants:

- Comply with transport & local regulations
- Equipment must be stored safely in accordance with the instructions within this manual.
- Abide by any signage on the packaging
- The unit must be protected from damage and potential leak of the refrigerant charge.

*Caution: Single wall heat exchanger, not suitable for potable water connection.



WARNING

THIS PRODUCT CONTAINS A BUTTON BATTERY

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.

Keep batteries out of reach of children.

If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

5. Installation

5.1 System Installation

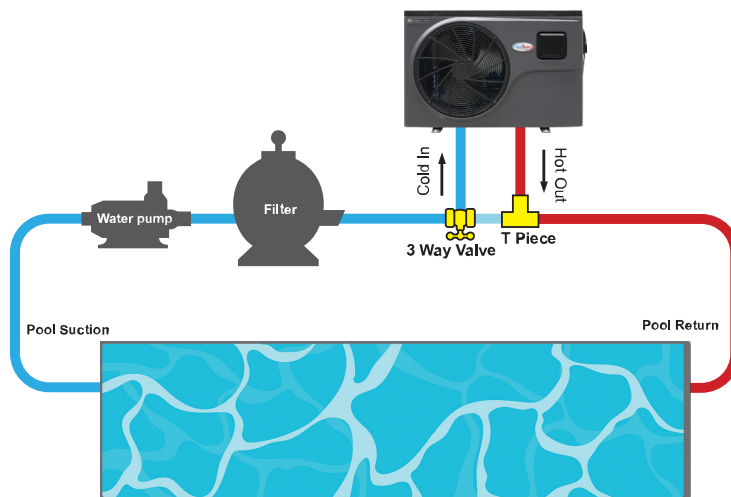
Upon receiving the unit, check the packaging for any obvious signs of damage. Inform EvoHeat immediately if there is any evidence of rough handling. When the heater has been removed from the packaging check the refrigerant gauge on the front panel of the unit. The gauge should be showing a pressure of approx. 10 – 20 on the outside red band – any less than this figure means there may be a leak in the refrigerant system, and you should immediately contact your EvoHeat Dealer.

Only the main unit and the water unit in the illustration are provided; the other items are necessary spare parts for the water system that are to be provided by customer or the installer.

When starting for the first time:

1. Open valve and charge water.
2. Make sure that the pump and the water-in pipe have been filled with water.
3. Close the valve and start the unit

The schematic diagram is for reference only. Please check the water inlet/outlet label on the heat pump while plumbing the unit.



IMPORTANT: EvoHeat heat pumps **MUST** be connected by a licensed electrician. Under no circumstances should an unlicensed person attempt to install or repair an EvoHeat heat pump themselves. Heater electrical installation undertaken by an unlicensed installer will void the warranty. Correct installation is required to ensure safe and efficient operation of your pool heater.

Before installation it is very important to ensure 5 variables are carefully checked to allow the unit to operate correctly.

- Heater Condition
- Location
- Clearances & Air Flow
- Adequate water flow & plumbing
- Correct electrical connection & supply

5.2 Location of Installation

Evo recommend the heat pump should **ONLY** be installed in an outdoor location with appropriate ventilation. Installing the heater indoors without adequate ventilation, or in a poorly ventilated enclosed space, will result in very poor performance and can, in extreme cases, damage the heater.

- | | |
|-----------------------------------|--|
| The Evo unit should be installed: | <ul style="list-style-type: none"> - At least 2m away from the water's edge. - No greater than 7.5m from the water's edge (to avoid heat loss from piping). - No greater than 5m below the water level of the pool/spa. |
|-----------------------------------|--|

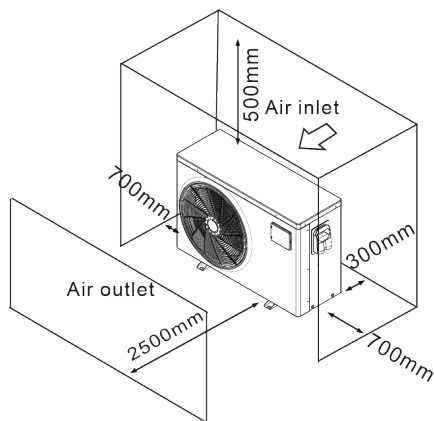
Make sure the heat pump is not located where large amounts of water may run-off from a roof into the unit. Sharp sloping roofs without gutters will allow excessive amounts of rainwater mixed with debris from the roof to be forced through the unit. A water deflector may be needed to protect the heat pump.

If installing the heater on an existing pump/filtration system, the heater must be installed **AFTER** the filter and **BEFORE** the chlorinator/sanitizer.

The heat pump should be installed on a flat level surface.

If a suitable outdoor location is unavailable, please contact EvoHeat for specialist technical advice.

5.3 Airflow Clearances



Ensure the heater is installed in a well-ventilated area with plenty of fresh air, a minimum gap between walls/fences etc of 700mm on the sides and 500mm overhead clearance.

Leave sufficient space for unobstructed airflow into (300mm rear) and out of (2500mm in front) the heater. Do not locate the heater in an enclosed area, or the discharged cold air will recirculate into the unit and consequently lower the heating efficiency as well as possibly icing up.

If the installation location does not comply with these suggested clearances, contact EvoHeat's Tech Support to discuss possible solutions.

5.4 Adequate Water Flow

All EvoHeat heat pumps have a factory pre-set internal water flow switch. If there is insufficient water flow the unit will not operate.

It is VITAL that there is sufficient water flow to the unit. Incorrect water flow can cause a loss of efficiency and possible damage to the unit. Optimal water flow rates are listed within this manual. It is imperative that water flow is kept as close as possible to these flow rates.

Before connecting the heater to the plumbing all piping must be thoroughly flushed to ensure no debris can enter the heater. Failure to remove pipe debris can jam or damage the flow switch and may cause damage to the heater. When cleaning the pool, it is advisable to turn off your heater as restricted water flow may cause the heater to shut down and indicate low water flow fault (E03 error) or high-pressure fault (E01 Error).

5.5 Rubber Feet

All EvoHeat units are provided with rubber feet which we highly recommend being installed. The rubber feet help reduce vibration of the unit and provide a space below the heat pump to install the drainage barbs.

5.6 Condensate Drain Barb



Fit the condensate drain barb into the 2 holes under the unit if you need to direct water away from the heater. If the barb is too stiff, place it in hot water to soften.

5.7 Drainage & Condensation



During operation, water in the air condenses on the fins of the evaporator. In high humidity, the condensate may be several litres per hour, giving the impression that the unit is leaking. This process is a normal function of heat pumps.

The heater will automatically activate reverse cycle or de-icing mode when required which also increases condensate discharge. This normally occurs at temperatures below 8°C. The condensate water will discharge through the base of the heater. As an option, a pipe can be connected to the drain on the base of the unit to direct condensate water to an appropriate location.

NOTE

A quick way to verify that the water is condensation is to shut off the unit and keep the pool pump running. If the water stops running out of the base pan, it is condensation. Another method is to test the drain water for chlorine – if there is no chlorine present, then it's condensation.

5.8 Plumbing

The unit's exclusive rated flow titanium heat exchanger requires no special plumbing arrangements except bypass (set the flow rate according to the nameplate). The water pressure drop is less than 10kPa at max.

Flow Rate

Since there is no residual heat or flame temperatures the unit does not need copper heat sink piping. PVC pipe can be run straight into the unit.

Location

Connect the unit in the pool pump discharge (return) line downstream of all filter and pool pumps, and upstream of any chlorinators, ozonators or chemical pumps.

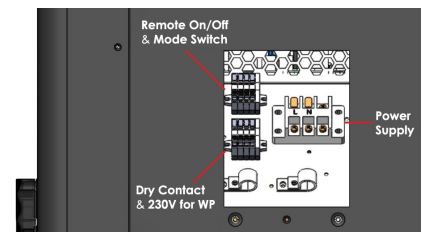
Standard models have slip glue fittings which accept 40mm PVC pipe for connection to the pool or spa filtration piping. By using a 50NB to 40NB you can plumb 40NB.

Consider adding a quick coupler fitting at the unit's inlet & outlet to allow easy draining of the unit and to provide easier access should servicing be required.

5.9 Water Pump Connection

NOTE: there are 3 connection options for activation of heat pump/water pump:

1. Remote on/off – for connection to external pool automation (signal input)
2. Water Pump – 230V connection point for dedicated water pump
3. Dry Contact – connection for chlorinators with dry contact capabilities (signal output)



5.10 Electrical Connection



Always use a suitably qualified Electrician to perform any electrical work, they must read the manual before connecting.

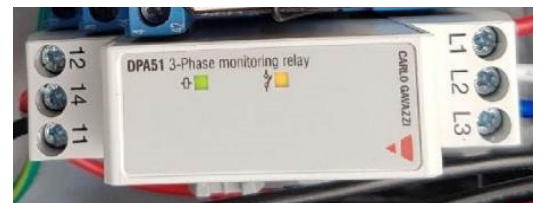
Ensure all cabling, circuit breakers, and protections are of a suitable size and specification in accordance with electrical wiring legislation for the heater being installed. Ensure to check that there is adequate voltage and current available at the heater connection to run the unit.

Voltage range should be 220-240 volts for single phase, and 380-415 volts for 3 phase units. Voltage ranges outside these parameters will cause heater damage and void your warranty.

1. Ensure power is disconnected during installation or service.
2. Always comply with the national and local electrical codes and standards.
3. Ensure the electrical cable size is adequate for heater requirements at the installation location.
4. The heater must be equipped with a circuit breaker and isolation device.
5. The circuit breaker must be installed between the heater and the water circulation pump if the water pump is hard-wired into the heater. Please note recommended circuit breaker sizes make no allowance for a water pump hard wired into the heater.
6. The unit must be well earthed. Remove the front panel to access the electrical connection terminals of the heater. The electrical wiring diagram is affixed to the inside of the front panel or at the back of this manual.



NOTE: Correct phase connection is important with 3 phase heaters. If 2 lights are showing on the 3 PHASE relay monitor this means the EvoHeat heat pump has been wired correctly (one orange light and one green light). If only one light is showing, the phases are out of rotation and need to be rotated to get the correct phase rotation.



5.11 Initial Start-Up

Refer to the *Quick Start Guide* in this manual for instructions on the initial start-up and commissioning of the unit.

6. Operation

6.1 The Controller



1	Compressor's ON Indicator	13	Operating Mode Selection
2	Fan	14	Adjust Setpoint
3	Timer	15	Setting Silence Mode Timer
4	Current Mode (Auto/Cooling/Heating/Defrost)	16	Activate Silent Mode
5	Alarm	17	Set On/Off Timers
6	Lock Screen	18	Access Advanced Settings
7	Water Output Temperature	19	Access List of Faults
8	Main Button: On/Off/Back	20	Set Date and Time
9	Main Screen	21	Confirm
10	Setpoint Temperature	22	Back (Changes not confirmed)
11	Water Input Temperature		
12	System Time		

6.2 Using the Controller

6.2.1 Turning On/Off

When the heat pump is in idle (standby mode), the screen will be greyed out and 'OFF' will display on the screen. Settings can still be adjusted in the standby mode.



When the heat pump is in operation, the screen will be blue.

To switch the heat pump between each state, simply press the Main Button once.

6.2.2 Setting the Temperature

The temperature can be adjusted to within 0.5°C by selecting the displayed target temperature on the main screen or using the 'Temp Setting' option in the menu.

After selecting the target temperature setting, scroll up or down on the screen to reach your desired set temperature, then press OK.



6.2.3 Switching Modes

Swipe right on the main menu to enter the left-hand menu. Select the 'Mode' settings to choose between Heating, Cooling & Auto modes. Once selected, press okay to save changes.



6.2.4 Keyboard Lock



To either lock or unlock the controller, simply press and hold the main button for 5 seconds.

When the lock function is on, a small lock icon will appear at the top right of the screen.

6.2.5 Silent Mode

Silent mode puts the heat pump in an economical and quiet state. It maintains the pool temperature when energy demand is low or for noise reduction. This function can be activated or deactivated manually or using a timer.

To access this mode, simply swipe on the screen to enter the left-hand menu. When the button is greyed out, the function is inactive. To enable the function, simply press it.



6.2.6 Silent Timers

The silent mode timer allows you to schedule daily periods when the heat pump operates in a quieter, more economical mode.

To set the silent mode timer, start by tapping the screen to access the main menu. Next, select "Silent Timing" from the options available. Once you're in the Silent Timing menu, tap the times to set the start (ON) and end (OFF) times for the silent mode, adjusting the hours and minutes as needed. Turn the function on or off by pressing the button at the top of the menu.



6.2.7 Malfunction Display

When a fault occurs on the heat pump, a warning symbol will appear at the top-right of the main screen.

Swipe to the left to enter the right-hand menu and select the 'Fault' menu item. The fault will display an error code, fault name, and the date and time the fault occurred. To delete the error list, press the trash bin icon. To return to the main screen, press the Main Button twice. When an error is resolved, the warning symbol will disappear.



6.2.8 Clock & Timer Settings

6.2.8.1 System Time

Use your finger to swipe left across the screen to access the right-hand menu. From here, select the 'Time Setting' menu option.

When the time setting menu appears, adjust the date and time on-screen and press okay to save changes.



6.2.8.2 Setting On/Off Timers

This function allows the heat pump to automatically turn on and off at specific times. You can set two start times and two stop times with 10-minute intervals.

To set the timers, start by tapping the screen to access the main menu. Select the "Timer" option. Adjust the on-time and off-time by tapping the time display and using the up scrolling to reach your desired time. Ensure the on/off switches are activated for each timer setting. Confirm your settings by tapping "OK" to save.

Press the Main Button twice to return to the home screen.



6.2.9 Solar Smart Function

With our advanced Solar Smart mode, you can program multiple daily timers and performance parameters, allowing you to harness free energy from the sun and lower your heating costs.

For the full instruction manual for the Solar Smart function, please scan the below QR Code or access the manual [on our website](#).



7. Troubleshooting

7.1 Electronic Control Fault Table

Protect/Fault	Fault Display	Reason	Elimination Methods
Inlet Temp. Sensor Fault	P01	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Outlet Temp. Sensor Fault	P02	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Ambient Temp. Sensor Fault	P04	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Coil 1 Temp. Sensor Fault	P05	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Coil 2 Temp. Sensor Fault	P15	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Suction Temp. Sensor Fault	P07	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Discharge Temp. Sensor Fault	P081	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Exhaust Air over Temp Prot.	P082	The compressor is overload	Check whether the system of the compressor running normally
Antifreeze Temp. Sensor Fault	P09	Antifreeze temp. sensor is broken or short circuit	Check or change the temp. sensor
Pressure Sensor Fault	PP	The pressure sensor is broken	Check or change the pressure sensor or pressure
High Pressure Prot.	E01	The high-pressure switch is broken	Check the pressure switch and cold circuit
Low Pressure Prot.	E02	The low-pressure switch is broken	Check the pressure switch and cold circuit
Flow Switch Prot.	E03	No water/little water in water system	Check the pipe water flow and water pump
Waterway Anti-freezing Prot.	E05	Water temp. or ambient is too low	Check the water temp. and ambient temp.
Inlet and outlet temp. too big	E06	Water flow is not enough and low differential pressure	Check the pipe water flow and whether water system is jammed or not
Anti-freezing Prot.	E07	Water flow is not enough	Check the pipe water flow and whether water system is jammed or not
Primary Anti-freezing Prot.	E19	The ambient temp. is low	Check the ambient temp. sensor
Secondary Anti-freezing Prot.	E29	The ambient temp. is low	Check the ambient temp. sensor
Comp. Overcurrent Prot.	E051	The compressor is overload	Check whether the system of the compressor running normally
Communication Fault	E08	Communication failure between wire controller and mainboard	Check the wire connection between remote wire controller and main board
Communication Fault (speed control module)	E081	Speed control module and main board communication fail	Check the communication connection
Low AT Protection	TP	Ambient temp. is too low	Check the ambient temp. sensor
EC fan feedback Fault	F051	There is something wrong with fan motor and fan motor stops running	Check whether fan motor is broken or locked or not
Fan Motor1 Fault	F031	1. Motor is in locked-rotor state 2.The wire connection between DC-fan motor module and fan motor is in bad contact	1.Change a new fan motor 2.Check the wire connection and make sure they are in good contact
Fan Motor2 Fault	F032	1. Motor is in locked-rotor state 2.The wire connection between DC-fan motor module and fan motor is in bad contact	1.Change a new fan motor 2.Check the wire connection and make sure they are in good contact

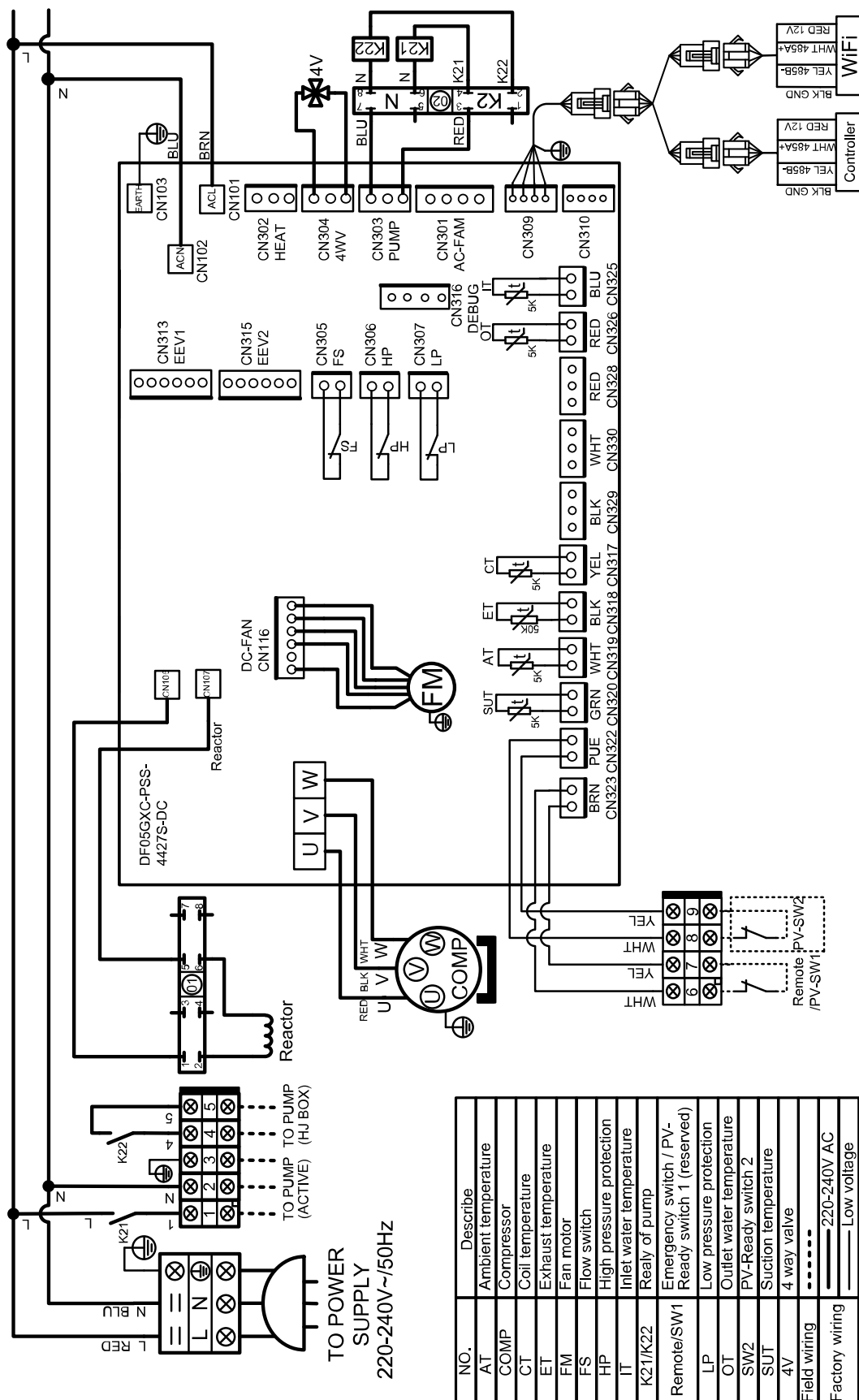
7.2 Frequency Conversion Board Fault Table

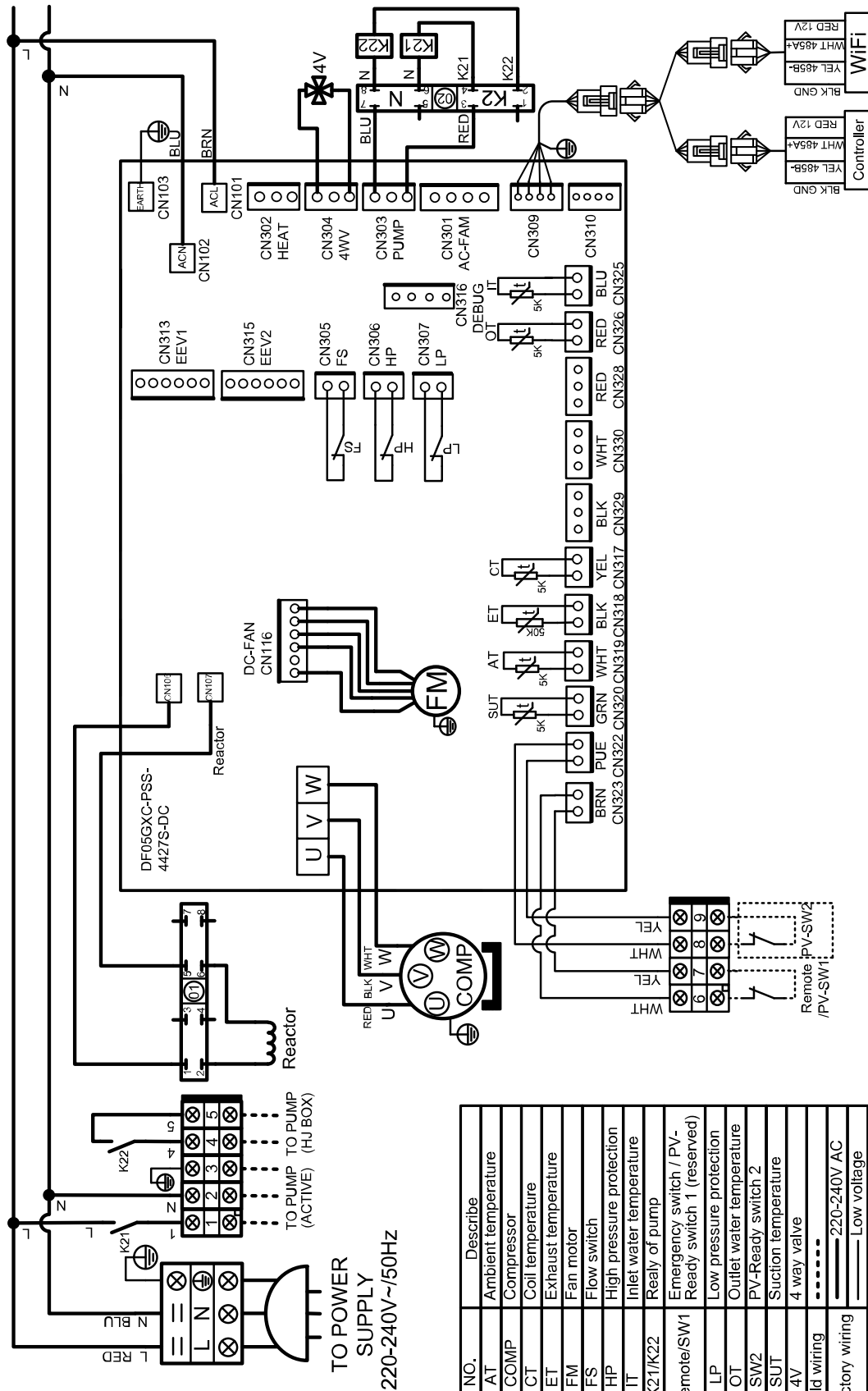
Protect/Fault	Fault Display	Reason	Elimination Methods
Drv1 MOP alarm	F01	MOP drive alarm	Recovery after the 150s
Inverter offline	F02	Frequency conversion board and mainboard communication failure	Check the communication connection
IPM protection	F03	IPM modular protection	Recovery after the 150s
Comp. Driver Failure	F04	Lack of phase, step or drive hardware damage	Check the measuring voltage, check frequency conversion board hardware
DC Fan Fault	F05	Motor current feedback open circuit or short circuit	Check whether current return wires connected motor
IPM Overcurrent	F06	IPM Input current is large	Check and adjust the current measurement
Inv. DC Overvoltage	F07	DC bus voltage>Dc bus over-voltage protection value	Check the input voltage measurement
Inv. DC Less voltage	F08	DC bus voltage<Dc bus over-voltage protection value	Check the input voltage measurement
Inv. Input Less Volt.	F09	The input voltage is low, causing the input current is high	Check the input voltage measurement
Inv. Input Overvolt.	F10	The input voltage is too high, more than outage protection current RMS	Check the input voltage measurement
Inv. Sampling Volt.	F11	The input voltage sampling fault	Check and adjust the current measurement
Comm. Err DSP-PFC	F12	DSP and PFC connect fault	Check the communication connection
Input Over Cur.	F26	The equipment load is too large	Check whether the unit is overloaded
PFC fault	F27	The PFC circuit protection	Check the PFC switch tube short circuit or not
IPM Overheating	F15	The IPM module is overheat	Check and adjust the current measurement
Weak Magnetic Warn	F16	Compressor magnetic force is not enough	Restart the unit after multiple power failures, if the fault still exists, replace the compressor
Inv. Input Out Phase	F17	The input voltage lost phase	Check and measure the voltage adjustment
IPM Sampling Cur.	F18	IPM sampling electricity is fault	Check and adjust the current measurement
Inv. Temp. Probe Fail	F19	The temp. sensor is broken or short circuit	Check or change the temp. sensor
Inverter Overheating	F20	The transducer is overheating	Check and adjust the current measurement
Inv. Overheating Warn	F22	Transducer temperature is too high	Check and adjust the current measurement
Comp. Over Cur. Warn	F23	Compressor electricity is large	The compressor over-current protection
Input Over Cur. Warn	F24	Input current is too large	Check and adjust the current measurement
EEPROM Error Warn	F25	MCU error	Check whether the chip is damaged, replace the chip
V15V over/undervoltage fault	F28	The V15V is overload or undervoltage	Check the V15V input voltage in range 13.5v~16.5v or not

8. Appendix

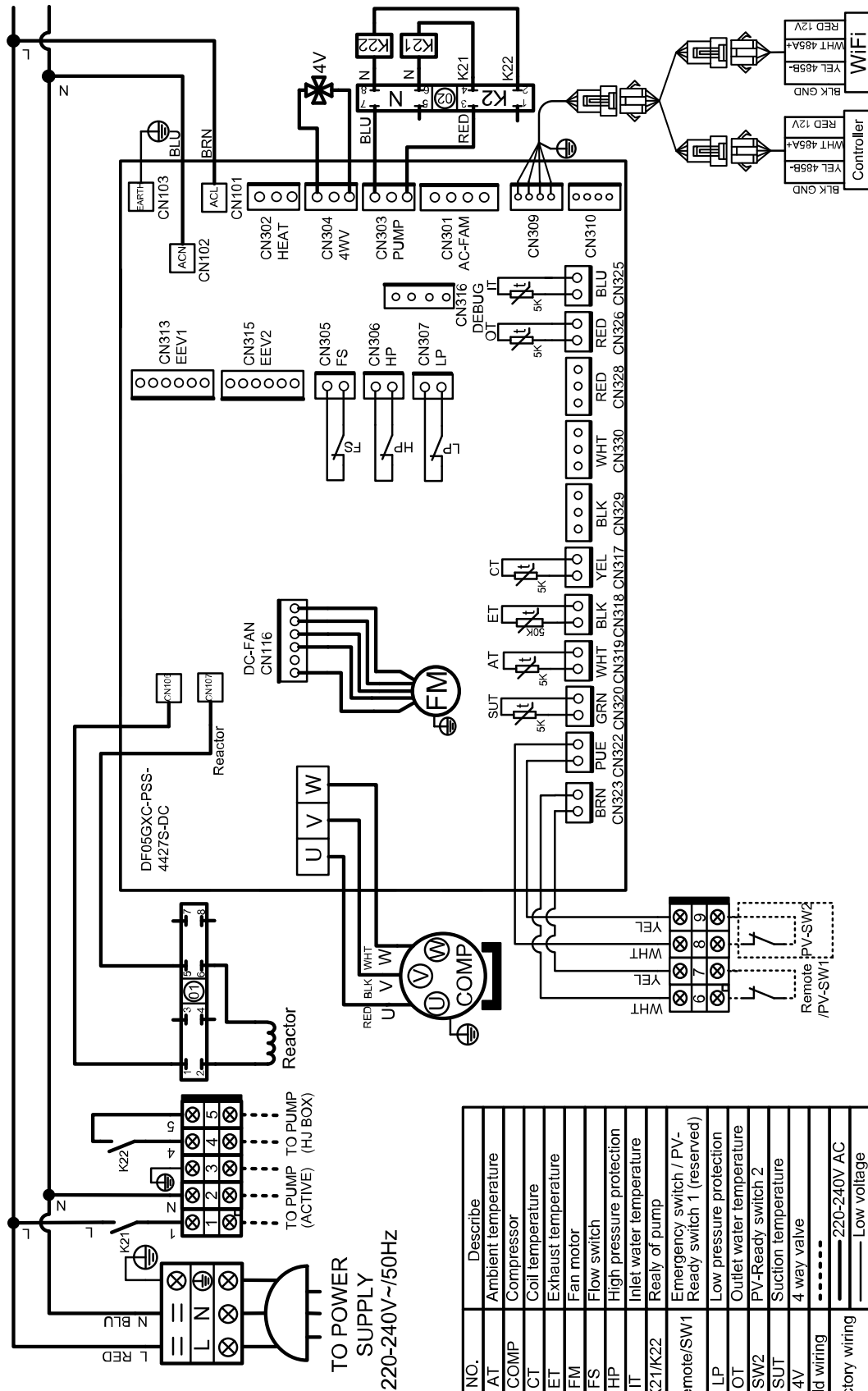
8.1 Wiring Diagrams

Fusion-i Pro 7



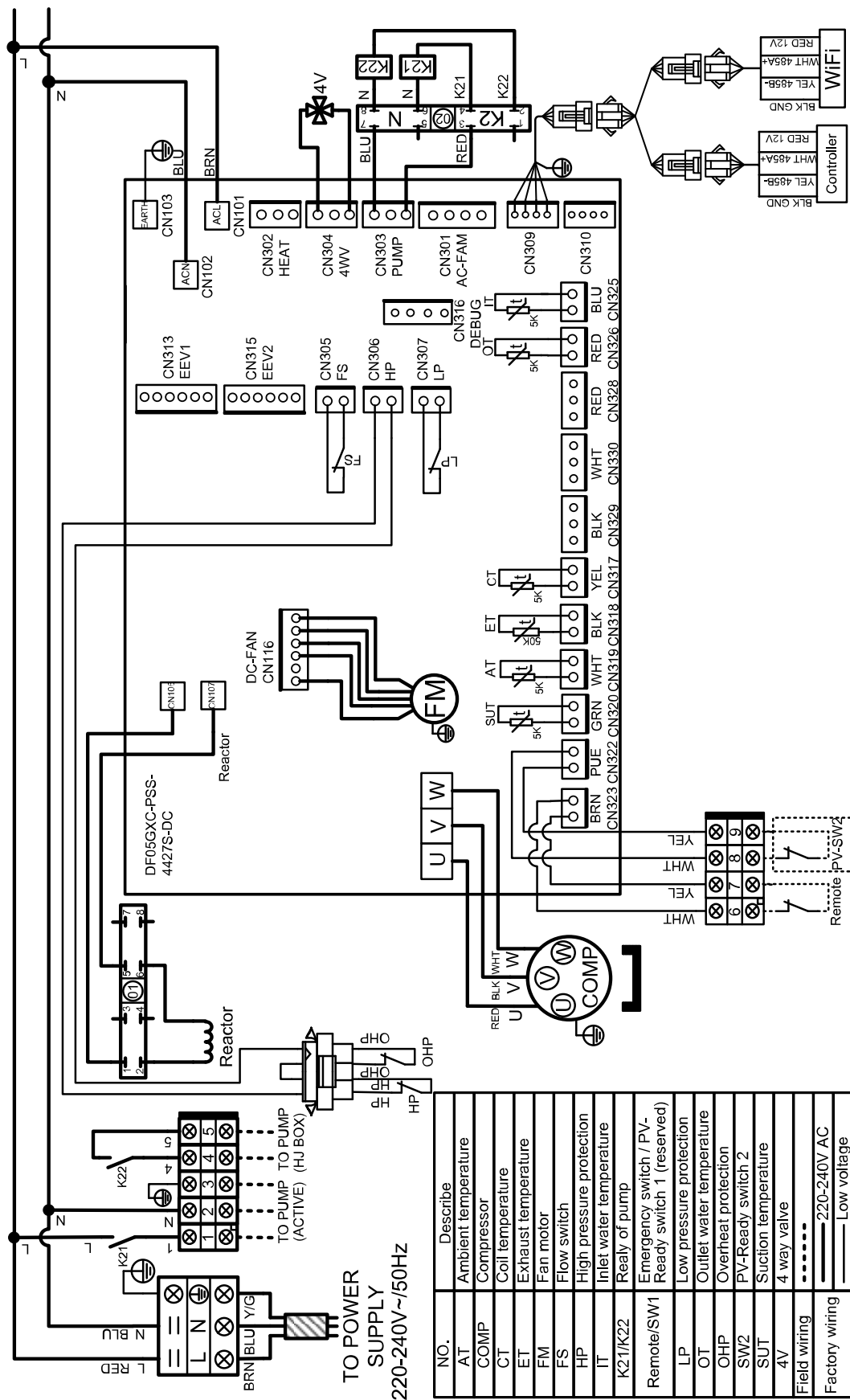


NO.	Describe
AT	Ambient temperature
COMP	Compressor
CT	Coil temperature
ET	Exhaust temperature
FM	Fan motor
FS	Flow switch
HP	High pressure protection
IT	Inlet water temperature
K21/K22	Ready of pump
Remote/SW1	Emergency switch / PV-Ready switch 1 (reserved)
LP	Low pressure protection
OT	Outlet water temperature
SW2	PV-Ready switch 2
SUT	Suction temperature
4V	4 way valve
Field wiring	-----
Factory wiring	===== 220-240V AC
	----- Low voltage

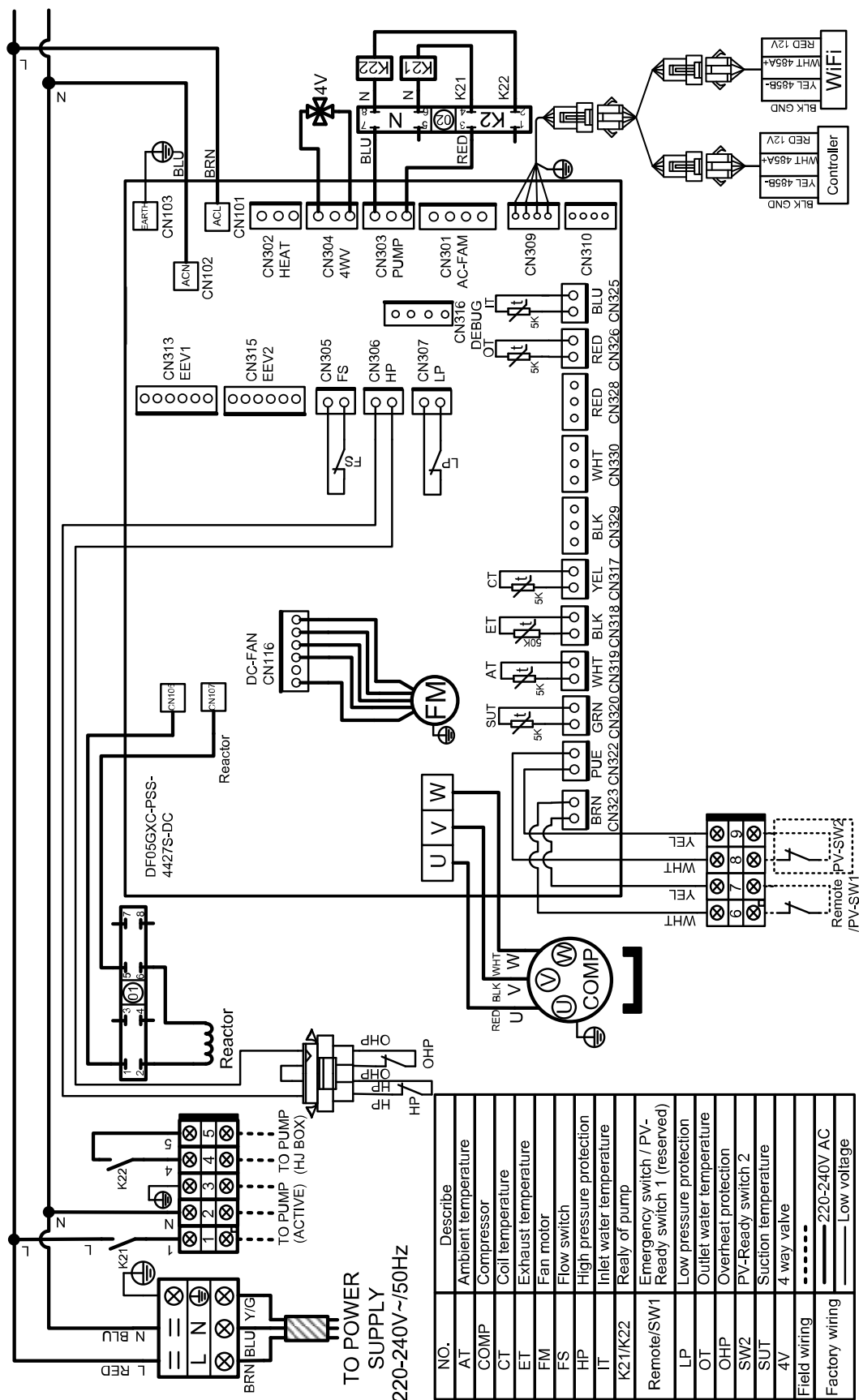


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4V	4 way valve
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Factory wiring	===== 220-240V AC
	----- Low voltage

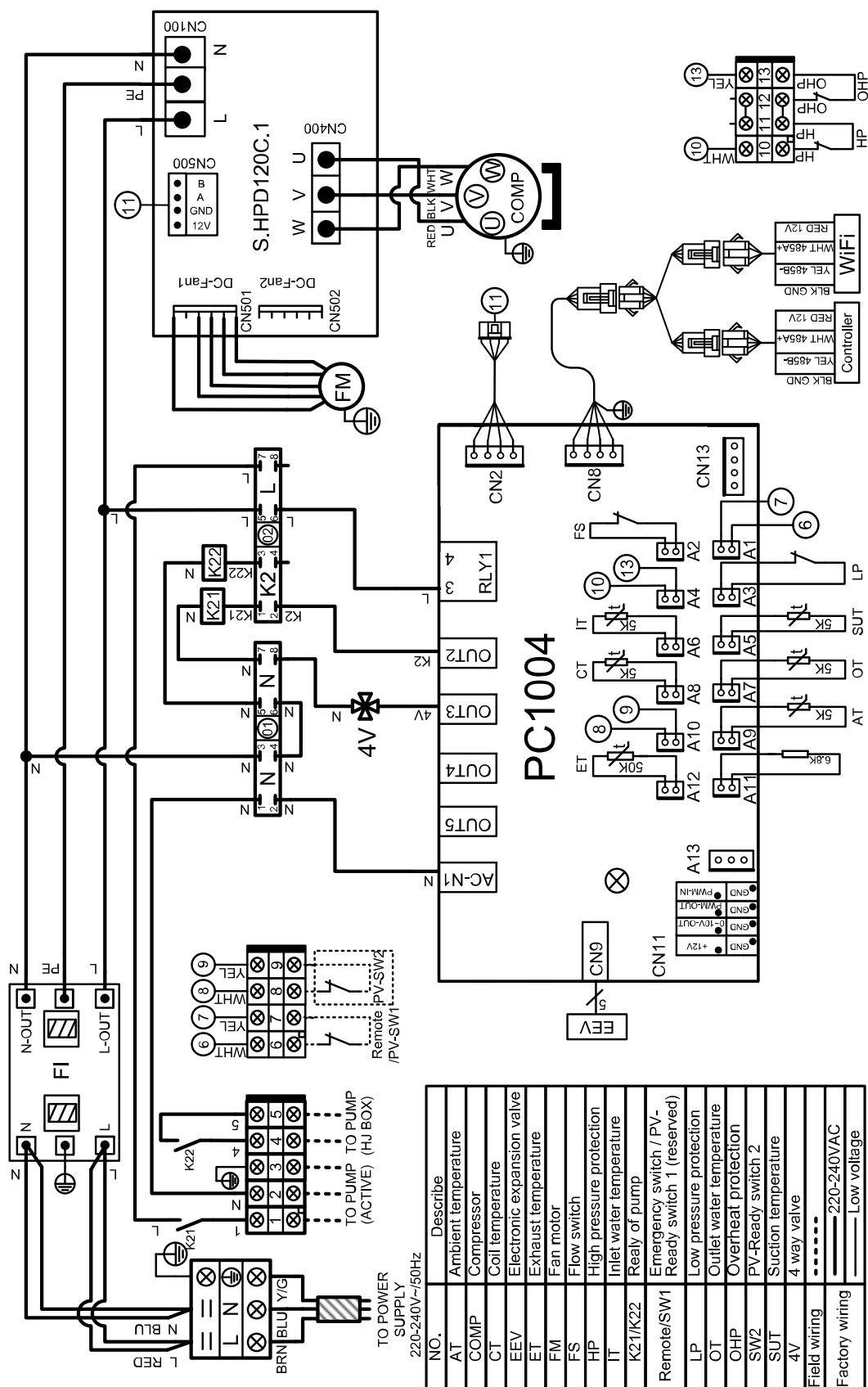
Fusion-i Pro 16



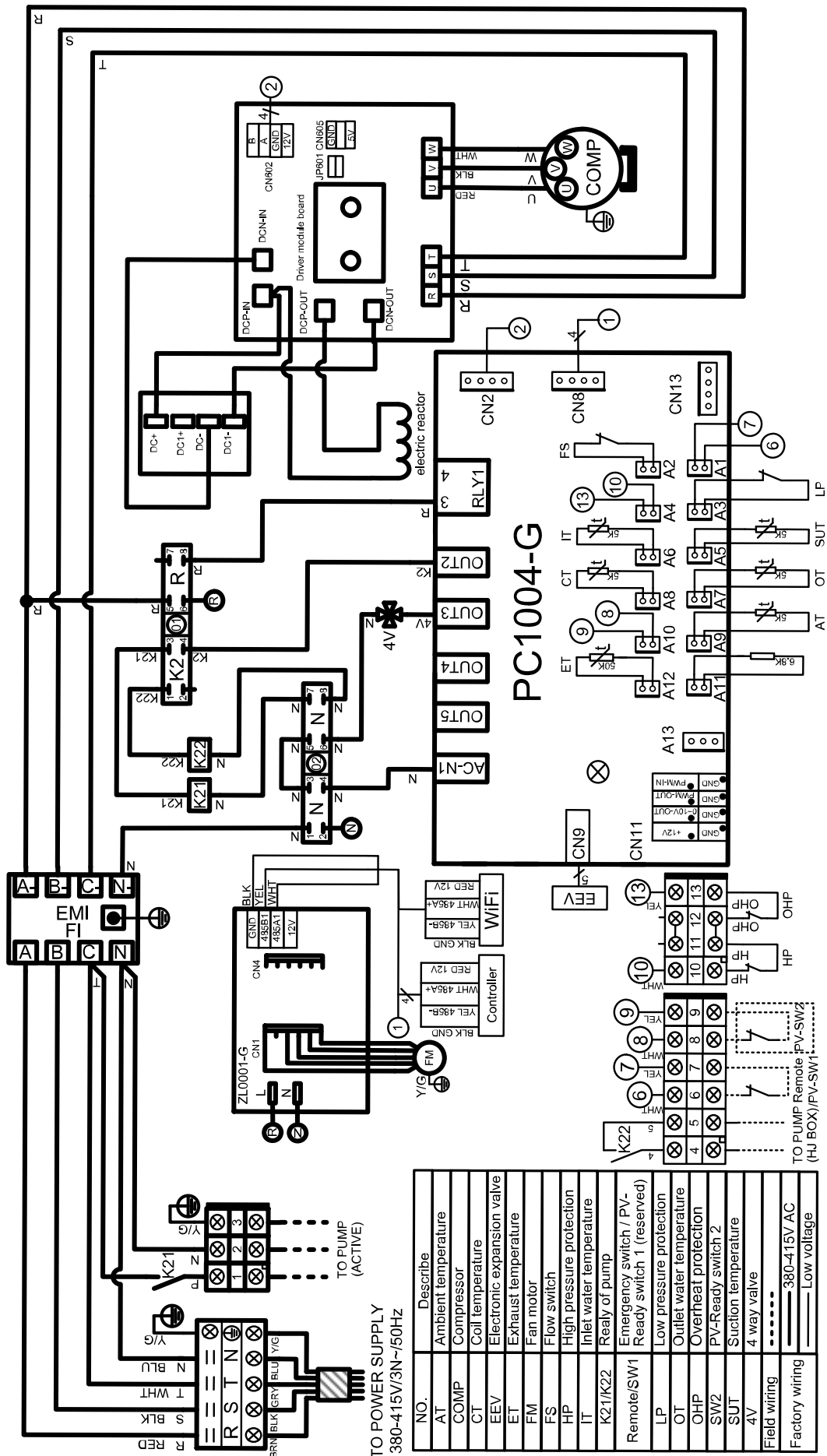
Fusion-i Pro 19



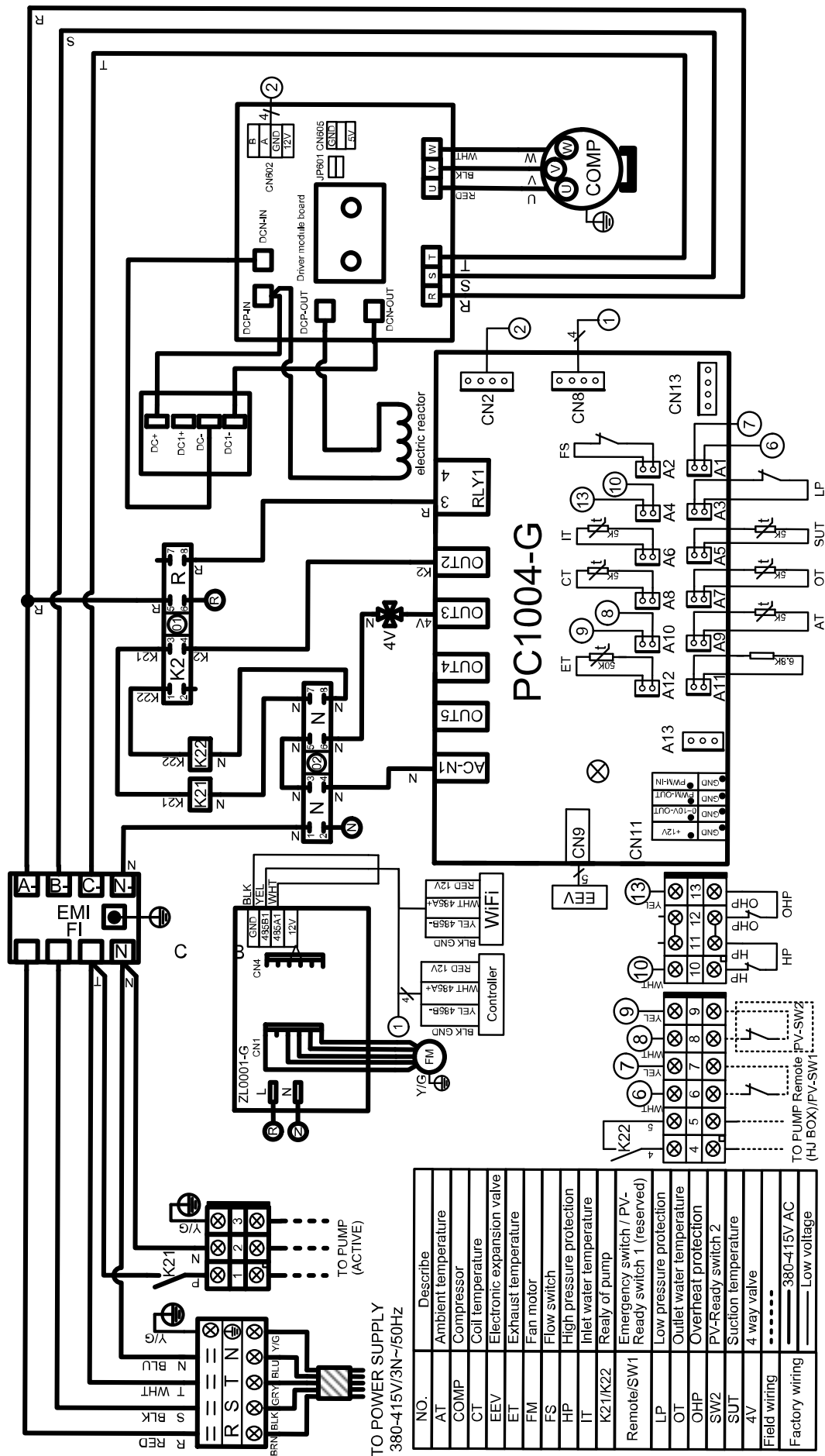
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Fusion-i Pro 28-3



Fusion-i Pro 35-3



8.2 Parameter List

Meaning	Default	Remarks
Refrigeration target temperature set point	27°C	Adjustable
Heating the target temperature set point	27°C	Adjustable
Automatic target temperature set point	27°C	Adjustable

8.3 Refrigerant Saturation Temperature

Pressure (MPa)	0	0.3	0.5	0.8	1	1.3	1.5	1.8	2	2.3
Temperature (R410A)(°C)	-51.3	-20	-9	4	11	19	124	31	35	39
Temperature (R32)(°C)	-52.5	-20	-9	3.5	10	18	23	29.5	33.3	38.7
Pressure (MPa)	2.5	2.8	3	3.3	3.5	3.8	4	4.5	5	5.5
Temperature (R410A)(°C)	43	47	51	55	57	61	64	70	74	80
Temperature (R32)(°C)	42	46.5	49.5	53.5	56	60	62	67.5	72.5	77.4

8.4 Cable Specifications

Nameplate Maximum Current	SINGLE PHASE UNIT Phase Line	THREE PHASE UNIT Phase Line	Earth Line	MCB	Creepage Protector	Signal Line
No more than 10A	2 x 1.5mm ²	3 x 1.5mm ²	1.5mm ²	20A	30mA less than 0.1 sec	n x 0.5mm ²
10~16A	2 x 2.5mm ²	3 x 2.5mm ²	2.5mm ²	32A		
16~25A	2 x 4mm ²	3 x 4mm ²	4mm ²	40A		
25~32A	2 x 6mm ²	3 x 6mm ²	6mm ²	40A		
32~40A	2 x 10mm ²	3 x 10mm ²	10mm ²	63A		
40~63A	2 x 16mm ²	3 x 16mm ²	16mm ²	80A		
63~75A	2 x 25mm ²	3 x 25mm ²	25mm ²	100A		
75~101A	2 x 25mm ²	3 x 25mm ²	25mm ²	125A		
101~123A	2 x 35mm ²	3 x 35mm ²	35mm ²	160A		
123~148A	2 x 50mm ²	3 x 50mm ²	50mm ²	225A		
148~186A	2 x 70mm ²	3 x 70mm ²	70mm ²	250A		
186~224A	2 x 95mm ²	3 x 95mm ²	95mm ²	280A		

A UV resistant cable should be used for outdoor installations.

9. Maintenance

9.1 F.A.Q

SHOULD I CHECK MY UNIT REGULARLY?

We recommend you do an annual maintenance check to avoid potential issues and damage to your heat pump.

ANNUAL MAINTENANCE

It is recommended that the minor maintenance be performed every 12 months by the dwelling occupant or if uncomfortable with completing this EvoHeat recommend this work to be carried out by an EvoHeat Authorised contractor. The minor maintenance includes:

- Inspection of the unit's operation... This includes:
 - Unit is reaching set temperature.
 - Visible water leaks from unit besides condensation (test water for chlorine or other pool chemicals)
 - Temperature difference between the inlet and outlet temperatures on the display whilst the unit is operational.
 - Isolate unit power and remove any debris from around the evaporator and unit to prevent any restriction to airflow. (brush out evaporator coil with a soft brush in a downwards motion to prevent bending or damaging the evaporator fins)
- Conduct a visual inspection of all plumbing and electrical connections.
- Check the condensate drain line to ensure it is not blocked. If so unblock/remove the restriction from the drain. This is generally attached to a plastic barb at the base of the unit.
- Conduct a general external clean of the unit with a damp cloth.

DO I NEED TO GET MY UNIT SERVICED?

It is recommended that you get your EvoHeat unit serviced every two years by your local certified air conditioning or refrigeration technician. If your unit is located in a coastal area, more frequent maintenance may be necessary. During the service, they will check the operational pressures of the refrigeration system and give the unit and fins a good clean to ensure maximum performance.

TWO YEAR SERVICE

It is recommended that this maintenance is carried out by EvoHeat Authorised personnel. Just as a car needs regular servicing, your heat pump also requires a service to maintain efficiency and ensure long-term performance. Phone EvoHeat Service on 1300 859 933 for our closest Accredited Service Agent.

Note: only genuine replacement parts should be used on this water heater. The service includes the following actions:

- All items listed in the Annual Maintenance
- Removal of unit covers to inspect operation of parts and internal leaks
- Check/tighten Heat exchanger Nut and Olive
- Check Fan operation
- Check Current draw of compressor and if it is in range
- Check Electrical resistance
- Check Electrical components for carbon build up, loose wiring etc.
- Wash out Evaporator Coil
- Vacuum Drain to ensure no blockage/restrictions

9.2 Advanced

CHECK THE AREA	GENERAL WORK AREA
Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system. prolonged period of no usage.	All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.
PRESENCE OF FIRE EXTINGUISHER	WORK PROCEDURES
If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging	Work shall be undertaken under a controlled procedure to minimise the risk of a flammable gas or vapour being present while the work is being performed.
CHECKING FOR PRESENCE OF REFRIGERANT	VENTILATED AREA
The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.	Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere. prolonged period of no usage.
CABLING	DETECTION OF FLAMMABLE REFRIGERANTS
Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also consider the effects of aging or continual vibration from sources such as compressors or fans.	Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
REPAIR TO INTRINSICALLY SAFE COMPONENTS	LABELLING
Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.	Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.
NO IGNITION SOURCES	No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. No Smoking signs shall be displayed.
CHARGING PROCEDURES	<p>In addition to conventional charging procedures, the following requirements shall be followed.</p> <ul style="list-style-type: none"> • Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them. • Cylinders shall be kept upright. • Ensure that the refrigeration system is earthed prior to charging the system with refrigerant. • Label the system when charging is complete (if not already). • Extreme care shall be taken not to overfill the refrigeration system. <p>Prior to recharging the system, it shall be pressure tested with OFN. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site. The safety wire model is 5*20_5A/250VAC, and must meet the explosion-proof requirements.</p>

CHECKS TO THE REFRIGERATION EQUIPMENT	<p>Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.</p> <p>The following checks shall be applied to installations using flammable refrigerants:</p> <ul style="list-style-type: none"> • The charge size is in accordance with the room size within which the refrigerant containing parts are installed; • The ventilation machinery and outlets are operating adequately and are not obstructed; If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant; • Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected; • Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.
CHECKS TO ELECTRICAL DEVICES	<p>Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment, so all parties are advised.</p> <p>Initial safety checks shall include:</p> <ul style="list-style-type: none"> • That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking; • That there no live electrical components and wiring are exposed while charging, recovering or purging the system; • That there is continuity of earth bonding.
REPAIRS TO SEALED COMPONENTS	<ol style="list-style-type: none"> 1. During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation. 2. Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. <p>Ensure that apparatus is mounted securely.</p> <p>Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.</p> <p><i>NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to.</i></p>
LEAK DETECTION METHODS	<p>The following leak detection methods are deemed acceptable for systems containing flammable refrigerants.</p> <p>Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.</p> <p>Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.</p> <p>If a leak is suspected, all naked flames shall be removed/extinguished.</p> <p>If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.</p>

REMOVAL AND EVACUATION	<p>When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:</p> <p>Remove refrigerant; Purge the circuit with inert gas; Evacuate; Purge again with inert gas; Open the circuit by cutting or brazing.</p>	<p>The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for this task.</p> <p>Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.</p> <p>Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available. working on them.</p>
RECOVERY	<p>When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.</p> <p>When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.</p> <p>The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.</p>	<p>The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.</p> <p>If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.</p>
DECOMMISSIONING	<p>Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.</p> <ol style="list-style-type: none"> Become familiar with the equipment and its operation. Isolate system electrically. Before attempting the procedure ensure that: <ul style="list-style-type: none"> Mechanical handling equipment is available, if required, for handling refrigerant cylinders; All personal protective equipment is available and being used correctly; The recovery process is always supervised by a competent person; Recovery equipment and cylinders conform to the appropriate standards. Pump down refrigerant system, if possible. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system. Make sure that cylinder is situated on the scales before recovery takes place. Start the recovery machine and operate in accordance with manufacturer's instructions. Do not overfill cylinders. (No more than 80 % volume liquid charge). Do not exceed the maximum working pressure of the cylinder, even temporarily. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked. 	

10. Warranty



**Refer to the EvoHeat website
for warranty details**

<https://evoheat.com.au/warranty-terms/>

REGISTER YOUR WARRANTY



EvoHeat highly recommend customers complete their warranty details online to ensure efficient warranty claim processing.

To register your warranty, scan our QR Code or head to our website and fill in the Warranty Registration Form: <https://evoheat.com.au/warranty-registration/>

1. Warranty terms are from date of purchase.
2. This warranty excludes any defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, vermin infestation, incompetent installation, any fault not attributable to faulty manufacture or parts, any modifications which affect the reliability or performance of the unit.
3. This warranty is conditional upon the correct operation and regular maintenance of the EvoHeat heat pump by the Owner. It does not cover the correction of non-product-related faults or issues. The Owner is responsible for:
 - a) Operating and maintaining the heat pump in accordance with the product's operating instructions.
 - b) Performing regular cleaning, including an annual maintenance check (please refer to the Maintenance section of the product manual).
 - c) Keeping the air inlet and outlet of the heat pump free from obstructions such as dirt, leaves, or plants.
 - d) Ensuring the condensate drain remains clean and unobstructed.
 - e) Ensuring all plumbing and electrical connections are secure and in good working order. *Note: Plumbing connections should be checked regularly to prevent chlorinated water leaking into the heat pump. Loose plumbing fittings that cause damage to the heat pump are not covered under warranty terms.*
 - f) Applying additional corrosion protection if the unit is installed in a corrosive environment (e.g. coastal areas or industrial zones).
4. This warranty does not cover the following:
 - a) Natural Disasters (hail, lightening, flood, fire etc.)
 - b) Damage resulting from any animal or creature (including vermin, reptiles and insects)
 - c) Rust or damage to exterior coatings, materials, and cabinet caused by corrosive atmosphere or weather/environmental conditions.
 - d) When serviced by an unauthorised person without the permission of Evo Industries.
 - e) When a unit is installed by an unqualified person.
 - f) When failure occurs due to improper or incorrect installation.
 - g) Where failure occurs due to failure of any other equipment connected in relation with the EvoHeat unit (e.g. power supply, water pump etc.).
 - h) Where failure occurs due to improper maintenance or misuse (refer to owners' responsibility and Operating Instructions).
 - i) 'No Fault Found' service calls where the perceived problem is explained within the operation instructions.
 - j) Costs associated with delivery, handling, freighting, or damage to the product in transit.
 - k) Where the unit has been relocated from its originally installed location.
5. If warranty service is required, you should:
 - a) Contact Evo Industries Australia on 1300 859 933 or via our Contact page on our website.
 - b) Provide a copy of your receipt as proof of purchase.
 - c) Have completed the online Service Request Form via the website www.evoheat.com.au/service-request/
6. Onsite technical service is available within the normal operating area of your Evo Authorised Service Agents. Service outside this area will incur a traveling fee.
7. Unless otherwise specified to the purchaser, the benefits conferred by this express warranty and additional to all other conditions, warranties, rights and remedies expressed or implied by the Trade Practices Act 1974 and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.

SWIM EVERYDAY WITH EVOHEAT



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www.evoheat.com.au