



DEHUMIDIFIERS

FIELD INSTALLATION MANUAL

SerescoDehumidifiers.com

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General Information

This manual provides instructions for field installed components required depending on the unit's options.

Important information regarding installation, maintenance, and start up as well as additional and auxiliary systems and devices (outdoor condenser, communication interfaces, etc.) is normally provided with the dehumidifier and can also be obtained from the manufacturer (see **Contact Us** below).

Operating Safety (Warnings, Cautions, and Notes)

FOR YOUR SAFETY: READ BEFORE PERFORMING ANY OPERATIONS, MAINTENANCE OR SERVICE TASKS!



Only qualified technicians should install, operate, maintain or service mechanical equipment including current dehumidification system.

Make sure to read this manual before performing any tasks to familiarize yourself with the equipment as well as with any potential hazards. Always exercise caution!



Beware of electrical power and high electrical voltage!

- Follow proper safety procedures – lockout, tagout, and other respective procedures
- Failure to follow safety procedures can result in serious injury or death



Beware of moving parts and hot surfaces!

- Make sure to stop all moving parts (fans, blowers, etc.) before accessing the equipment's internal space
- Be aware of hot surfaces (hot refrigeration, space heating pipes, coils, heaters, etc.)



Beware of high pressures and chemicals!

- Dehumidifiers, equipped with compressors, contain refrigerant under high pressure; oil is also contained in the compressor and refrigeration circuit(s)
- Some dehumidifiers may also contain other liquids such as glycol mixtures and pool water

The following warnings, cautions, and notes appear throughout this manual and referenced documentation whenever special care must be taken to avoid potential hazards that could result in equipment malfunction or damage, personal injury, or death.



WARNING

Indicates a potentially hazardous situation which could result in serious injury or death if handled improperly.



CAUTION

Indicates a potentially hazardous situation which could result in moderate injury or equipment damage if handled improperly.

Note


Indicates a situation that could result in equipment damage or improper/ineffective operation if handled improperly.

Reference and Additional Information


For safe, efficient and problem-free operation, it is critical to handle the dehumidifier (as well as related systems and components) properly at each step - from receiving and storage to installation and start up. Relevant information can be found in the respective documents (like **Installation Manual**) provided with the dehumidifier.

This manual and other related documents could be obtained from the manufacturer (see **Contact Us** below).

Attention: Installation and Service Contractors

 **WARNING!** Any work (installation, start up, service, maintenance, repair, etc.) on any mechanical equipment (dehumidifier, outdoor condenser, fluid cooler, etc.) must be performed in accordance with respective manufacturer's recommendations as well as submittal documentation, local Codes and Regulations, and appropriate field practices. Failure to do so could result in personal injury, equipment damage or malfunction, and will void equipment warranty. Only qualified and properly trained individuals should perform tasks on this equipment.

Attention: Maintenance Team

 **CAUTION.** To ensure equipment longevity and proper and efficient operation, the dehumidifier and its auxiliary systems and devices (outdoor condenser, fluid cooler, boiler package, etc.) should be maintained properly and regularly. Failure to do so could negatively affect premise comfort levels and people's health. It could also lead to equipment damage, malfunction, premature tear and ware and may void equipment warranty.

Contact Us

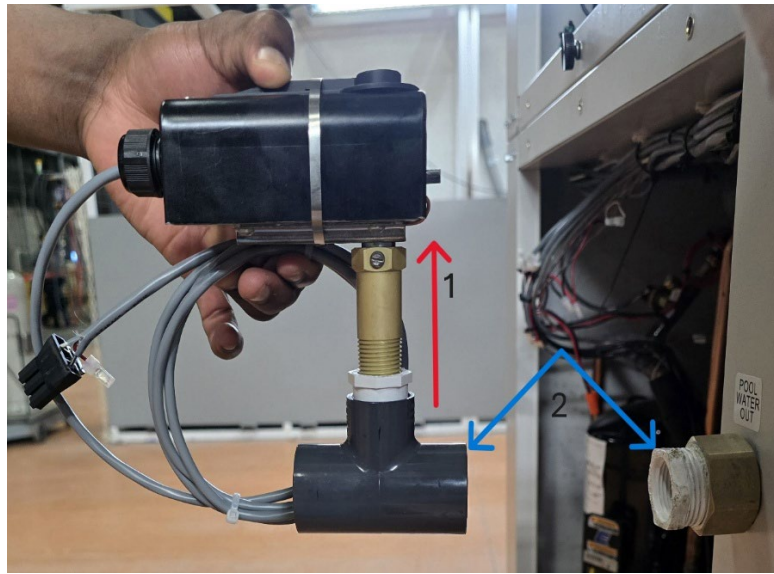
Seresco
1071 Ages Drive
Ottawa, ON K1G 6L3
Canada
SerescoDehumidifiers.com

1-833-DAS-POOL (327-7665)
Schedule / Modify a Start-up:
Scheduling@DehumidifiedAirServices.com
Inquire about Warranty:
Warranty@DehumidifiedAirServices.com
Order Parts:
Parts@DehumidifiedAirServices.com
All Other Product Support:
Support@DehumidifiedAirServices.com

Pool High Limit Controller

Piping Connection

Follow the orientation of the controller during assembly (as indicated by the red arrow on the picture "1")
Use an appropriate pipe to connect the pool High limit controller to the pool water OUT connection of the unit as indicated with the blue arrow "2"



Electrical connection

Connect the control wire (female part) of the high limit controller with the (male part) connector already wired on the unit as indicated with the red arrows on the picture "3".

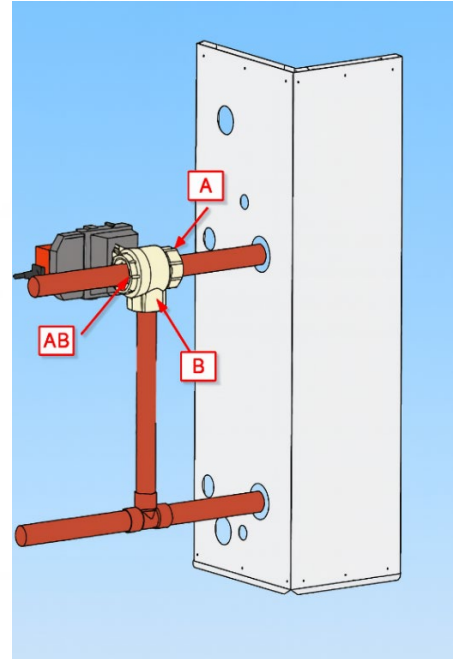
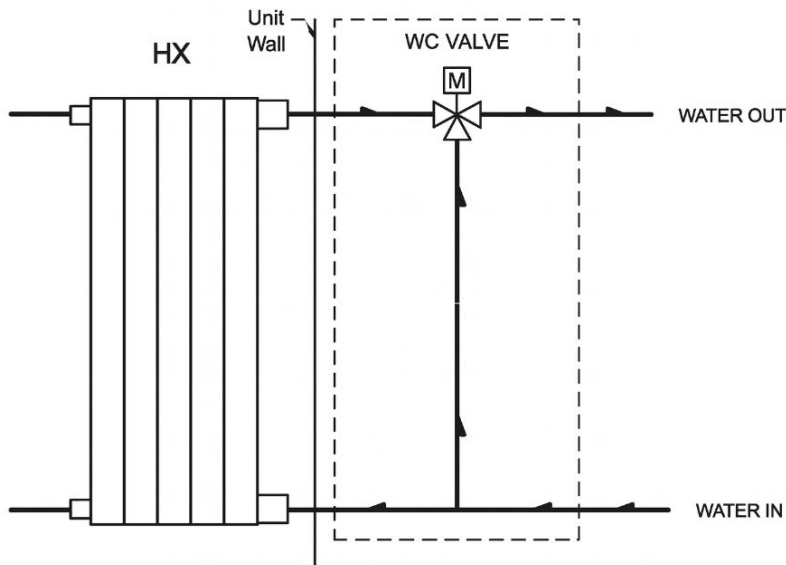


WATER-COOLED VALVE

Piping Connection

For units with fluid loop air conditioning, where minimum EWT is lower than 75F, a 3 way water cooled valve assembly to be piped by others. WCV is controlled by our board with 0-10 vdc signal based on head pressure. See field wiring diagram for electrical connections.

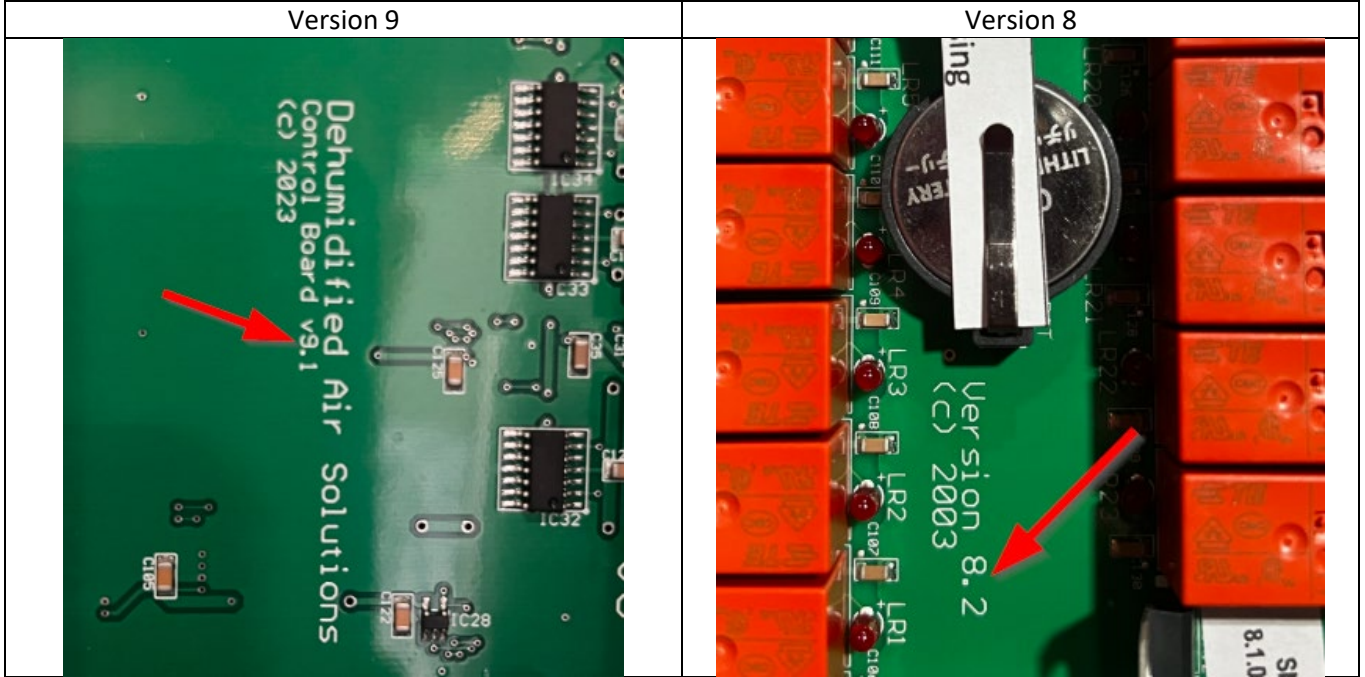
Follow picture below for proper connection. The valves are typically stamped/designated with ports "A", "B", and "AB"



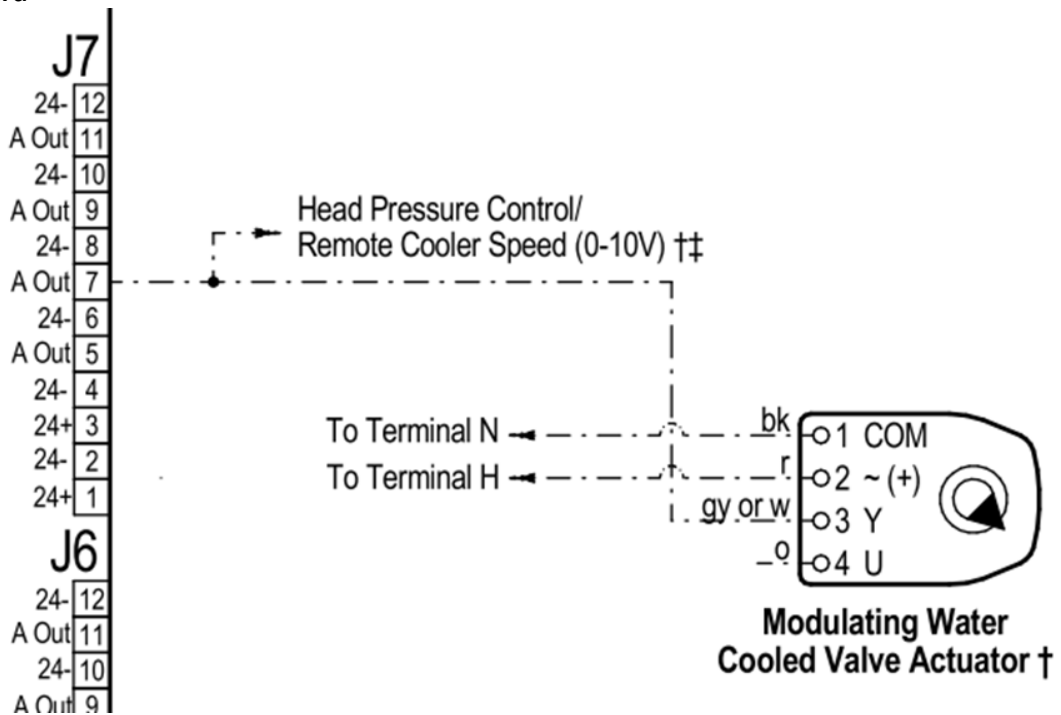
Electrical connections

Follow the proper electrical connection located on the field wiring diagram.

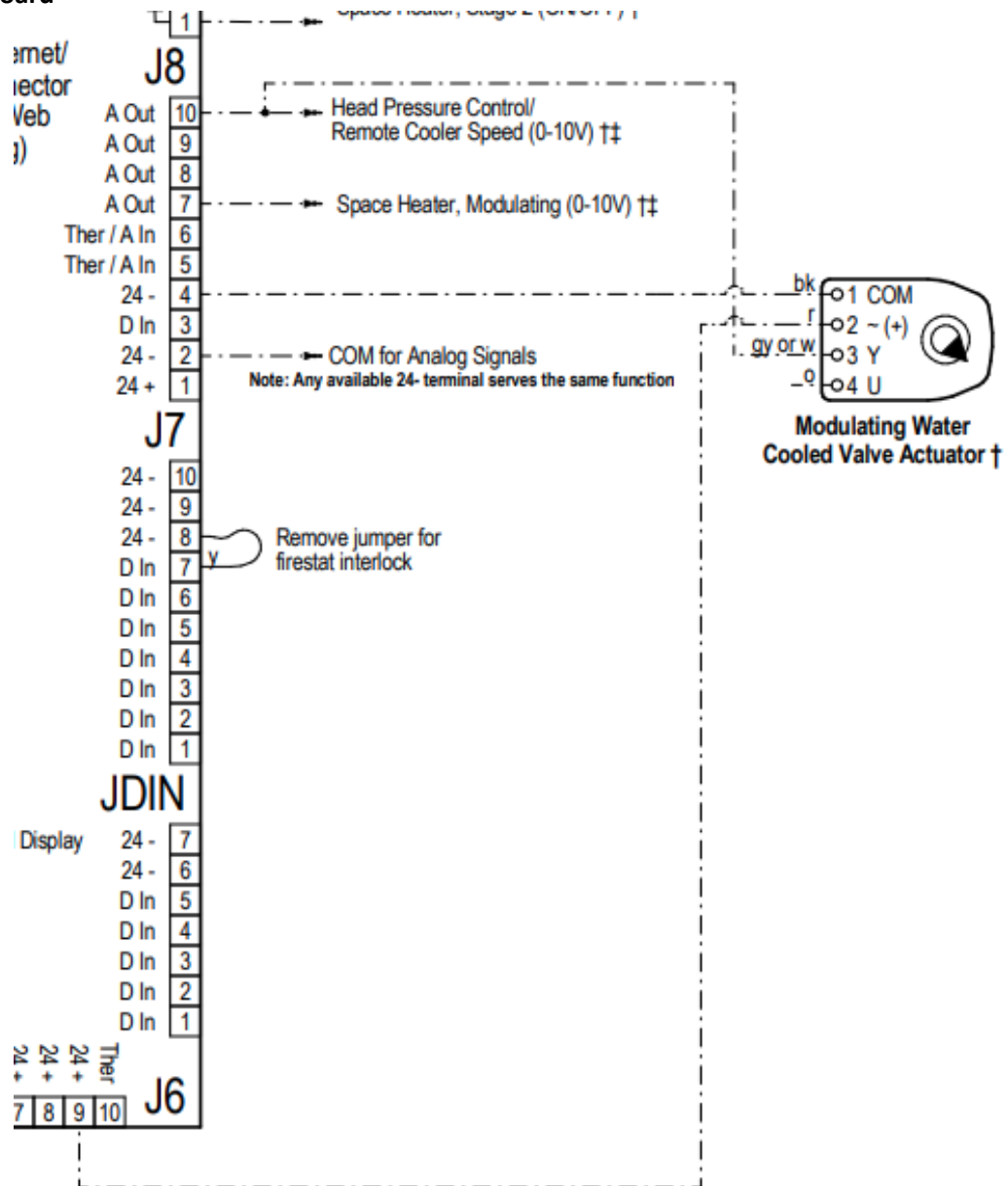
Validate if the board is version 8 or version 9



Version 9 Board



Version 8 Board



Pool Water Temperature Sensor

The dehumidifier normally requires constant waterflow through (to ensure proper automatic control over pool heating feature); however, if requested, it could be equipped with means to control auxiliary pump. This set up would also require a pool water temperature sensor to be installed in the external pool water manifold/piping.

By default, full pool water flow should be established to the dehumidifier and remain present 24/7. However, should an auxiliary pump be used and flow to the dehumidifier be desired only when utilizing compressor circuit pool heating, the Smart Pump feature may be utilized.

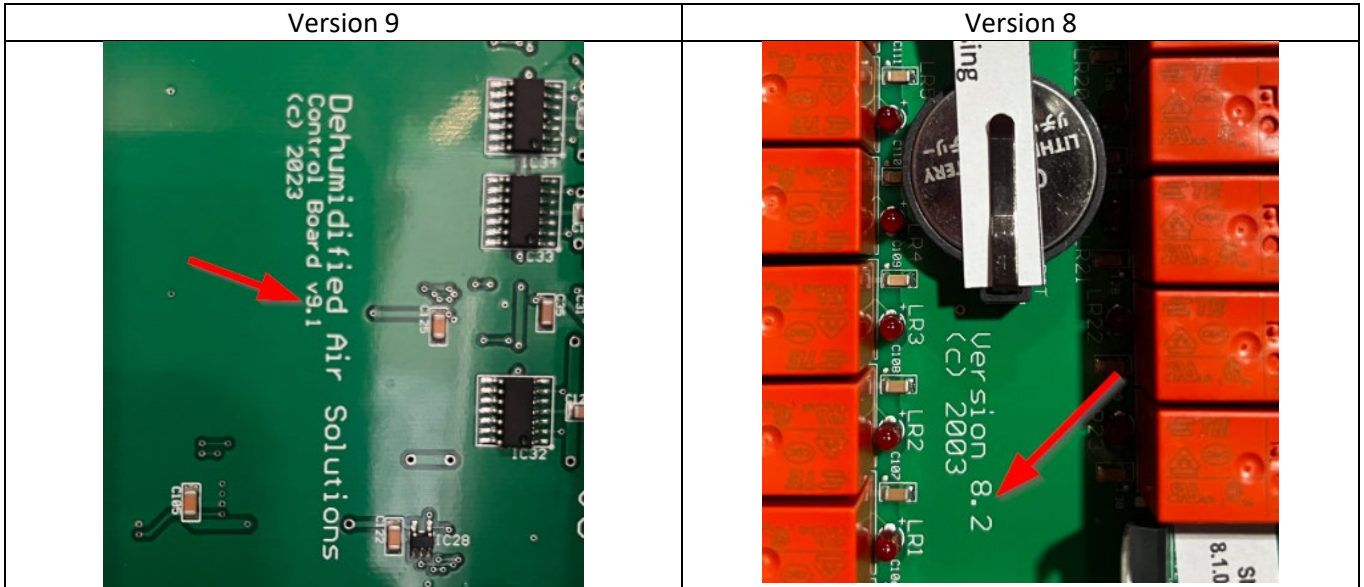
To utilize the Smart Pump feature, a pool water temperature sensor must be installed within a temperature sensor well in the primary pool water piping and wired to the dehumidifier. The auxiliary pump enable circuit must also be wired to the dehumidifier. When used, the dehumidifier will enable the auxiliary loop pump supplying pool water flow to the dehumidifier only when the unit is operating in pool water heating mode.



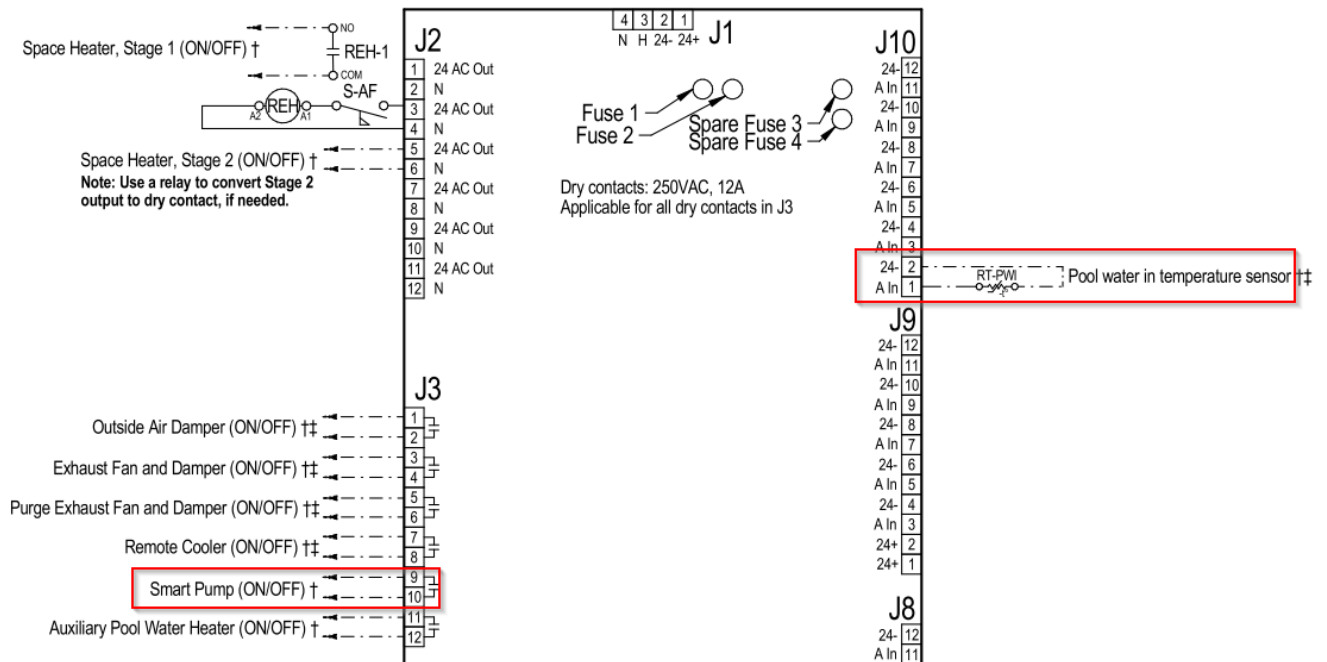
Electrical connection

Follow the proper electrical connection located on the field wiring diagram

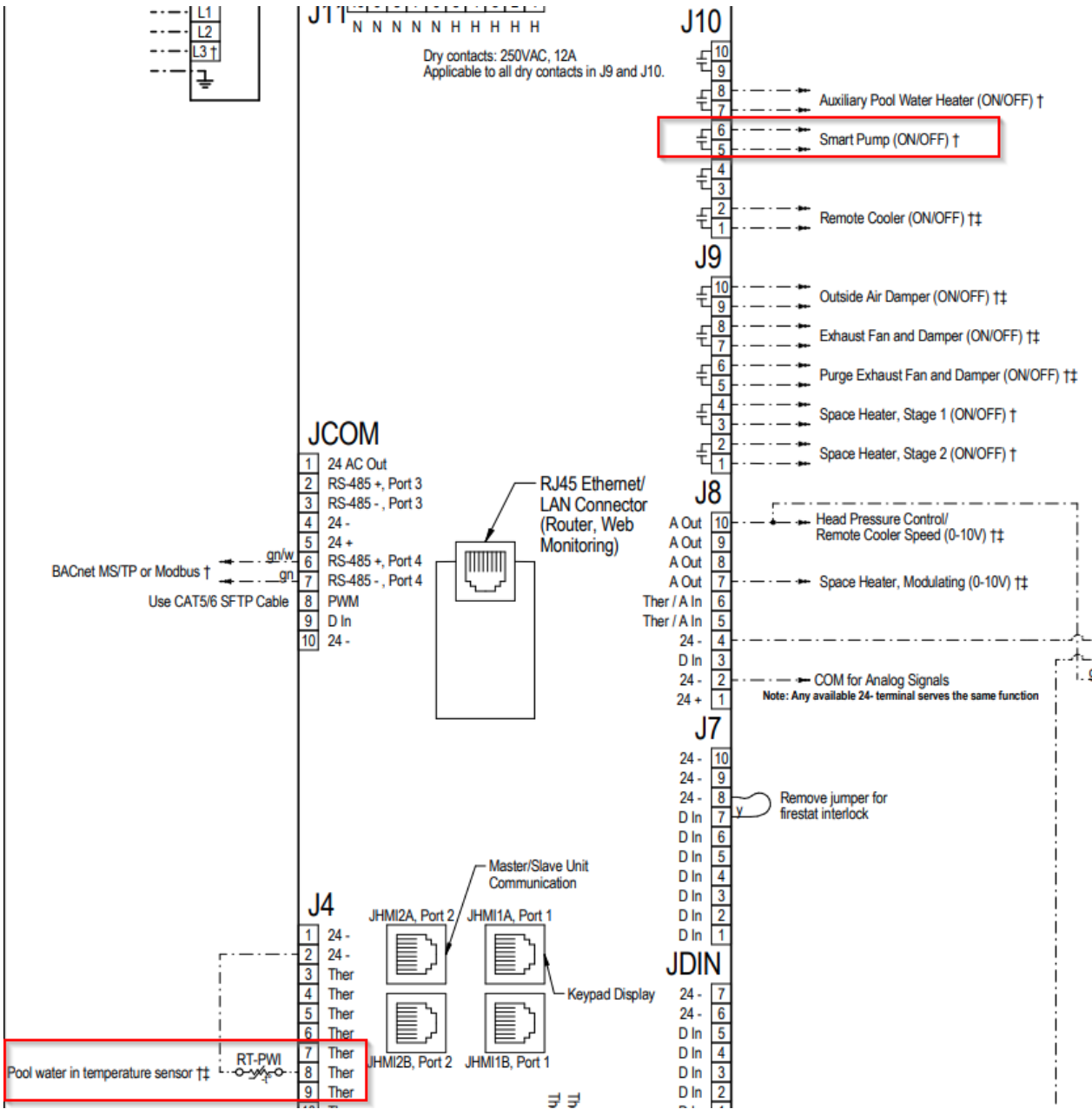
Validate if the board is version 8 or version 9



Version 9 Board

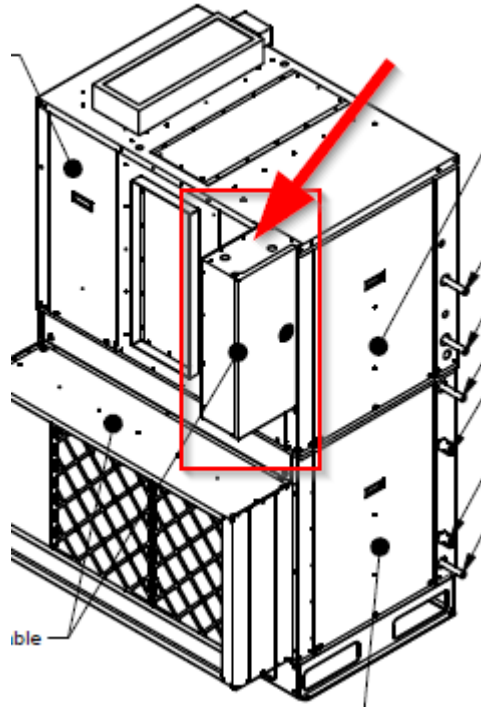


Version 8 Board



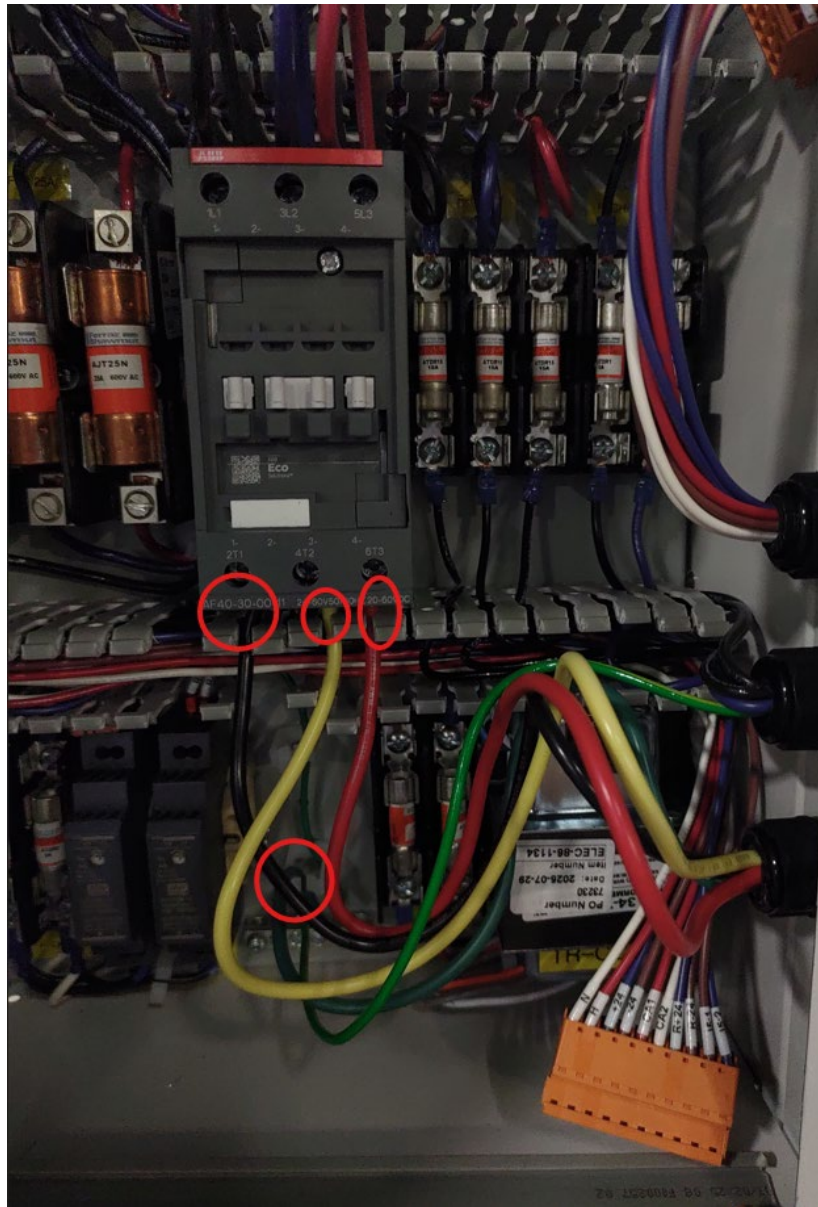
Cab RV Removable Side Electrical Panel

This section demonstrates how to remove the electrical panel located on the side of the RV cabinet.



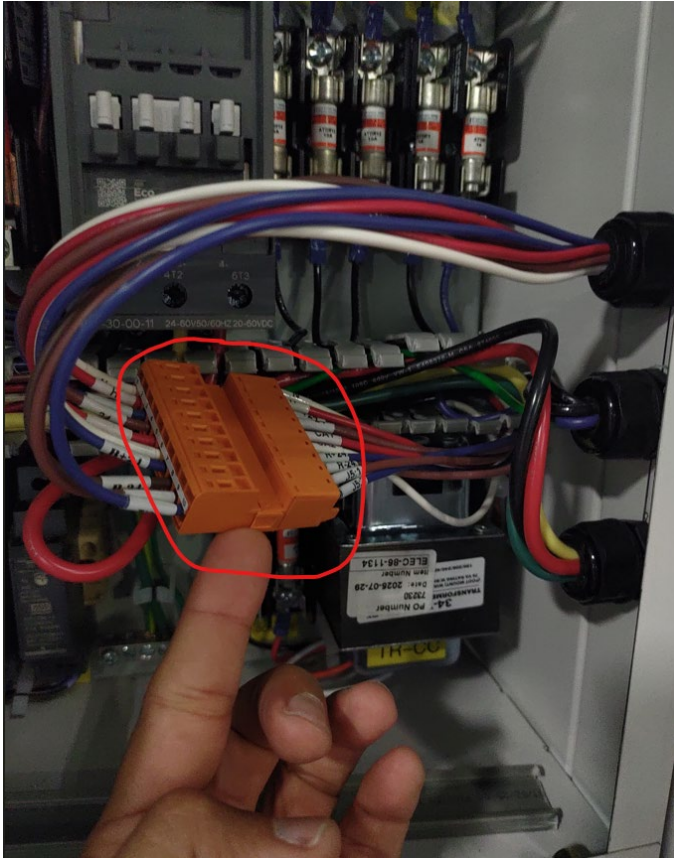
Compressor cables:

Disconnect the cables RED, YELLOW, BLACK and GREEN as shown in the picture below:



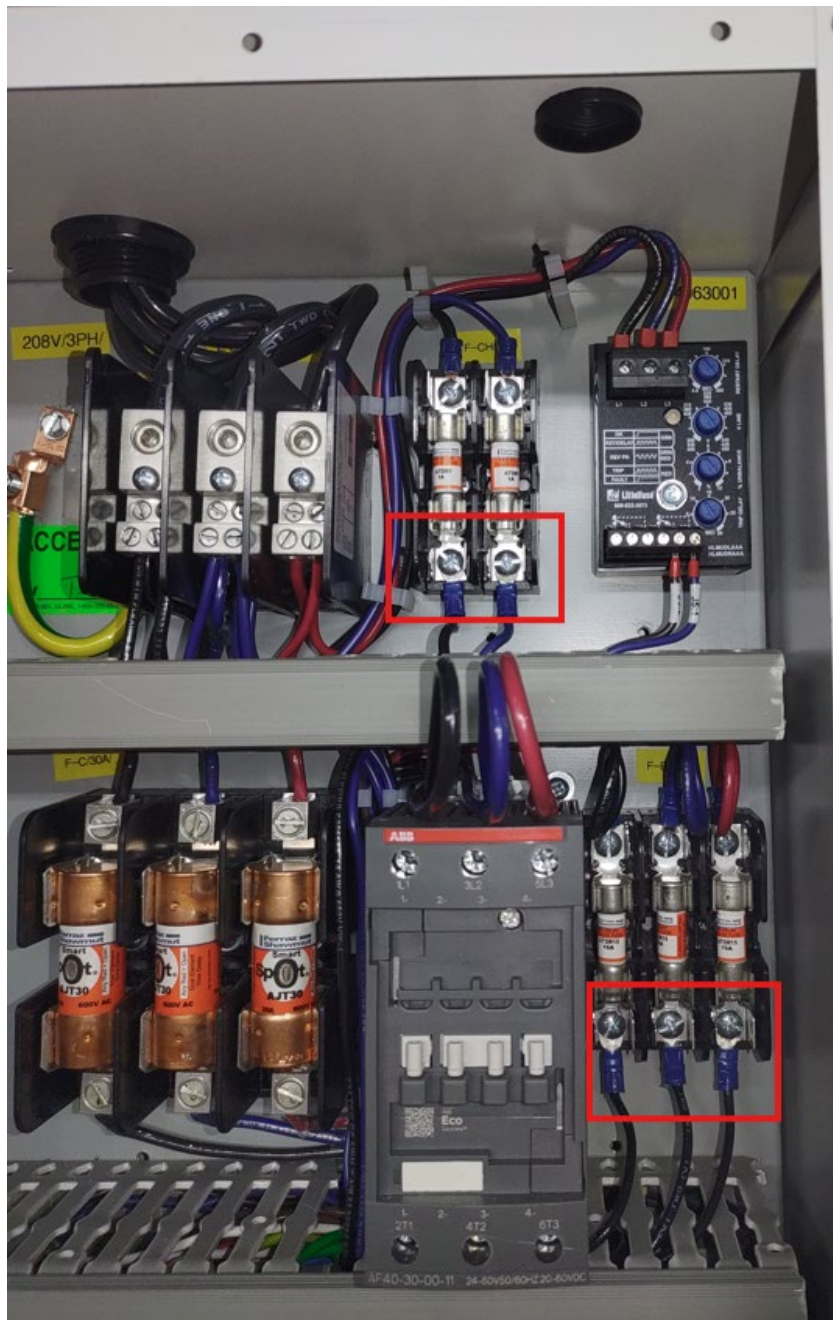
Control Cables:

Disconnect the orange jumpers as shown in the picture below:



Crankcase heater & blower cables:

Disconnect black and blue cables as shown in the picture below:



Remove the screw as shown in the picture below:



Optional: External heater

Disconnect the black cables and ground cable (green, yellow) as shown in the picture below
And pull them out of the electrical box:

