



DEHUMIDIFIERS

PCP Series

PPK Series

PPH Series

FIELD INSTALLATION MANUAL

PoolPak.com



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General Information

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

- This manual covers installation details of the equipment of various design, size, capacity etc.; therefore, some details covered in this manual may not be relevant to each piece of equipment. Refer to your equipment's submittal documentation.

Important information regarding operation, maintenance, and start up is normally provided with the equipment and can also be obtained from the manufacturer – contact Customer Support Team as needed (see **Reference and Additional Information** on the following page).

Operating Safety (Warnings, Cautions, and Notes)

FOR YOUR SAFETY: READ BEFORE PERFORMING ANY INSTALLATION OR OTHER TASKS!



Only qualified technicians should install, operate, maintain or service mechanical equipment including this dehumidification system. Make sure to read this manual before performing any installation tasks to familiarize yourself with the equipment as well as with any potential hazards. Always exercise caution!



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 (**Operation and Maintenance Manual, Start Up Package**, etc.) provided with the dehumidifier. This manual as well as other related documents can be obtained from the manufacturer (see **Contact Us** below).

Warranty

The manufacturer standard warranty statement can be found in the **Operation and Maintenance Manual**, provided with the equipment.

Attention: Warranty Conditions and Coverage.

NOTE. The equipment is provided with comprehensive conditional warranty coverage. Any warranty work to be reimbursed must be approved by **Service & Customer Support Team** prior to work commencing. Installation, start up, maintenance etc. are not within warranty scope. Refer to the manufacturer standard warranty statement for more details on warranty conditions, scope and coverage.

Attention: Equipment Proper Usage.

 **CAUTION!** Dehumidifier is **NOT** intended, and, therefore, **NOT** to be used, to condition (heat, cool, ventilate etc.) premise that is **still under construction**. Such usage may cause equipment premature wear, poor performance and potential failure afterwards and will void the warranty!

 **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 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.

Contact Us

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Saint-Laurent, QC
H4S1R3, Canada
PoolPak.com

1-833-DAS-POOL (327-7665)

Schedule / Modify a Start-up:

Startups@DehumidifiedAirServices.com

Inquire about Warranty:

Warranty@DehumidifiedAirServices.com

Order Parts:

Parts@DehumidifiedAirServices.com

All Other Product Support:

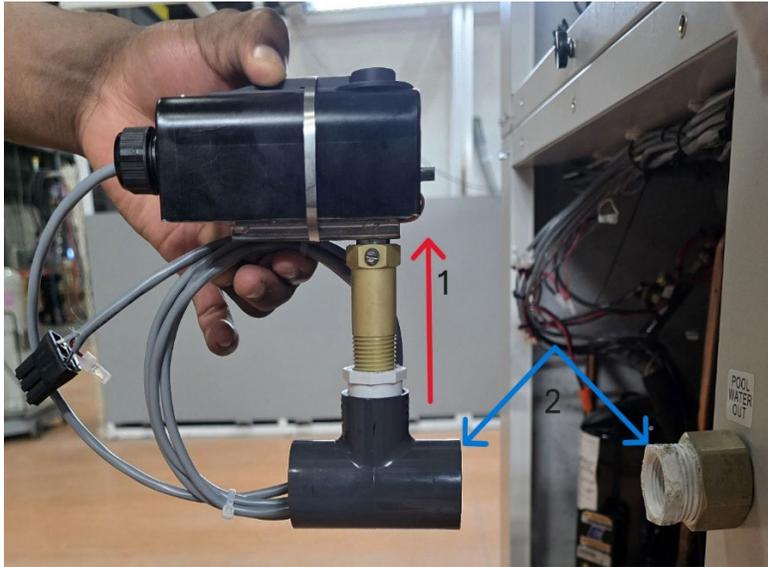
Support@DehumidifiedAirServices.com

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".

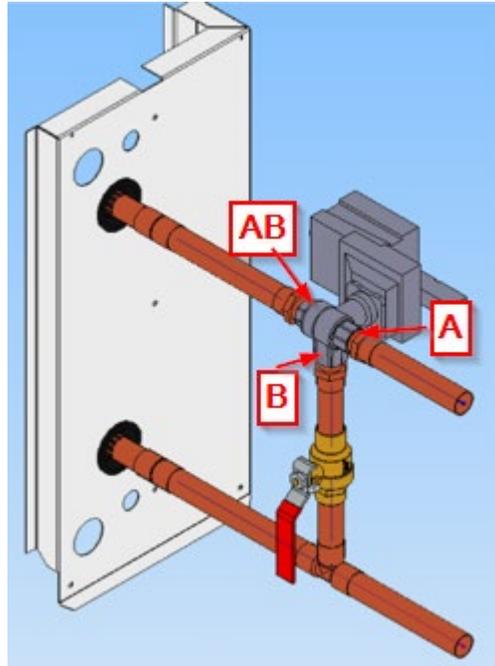
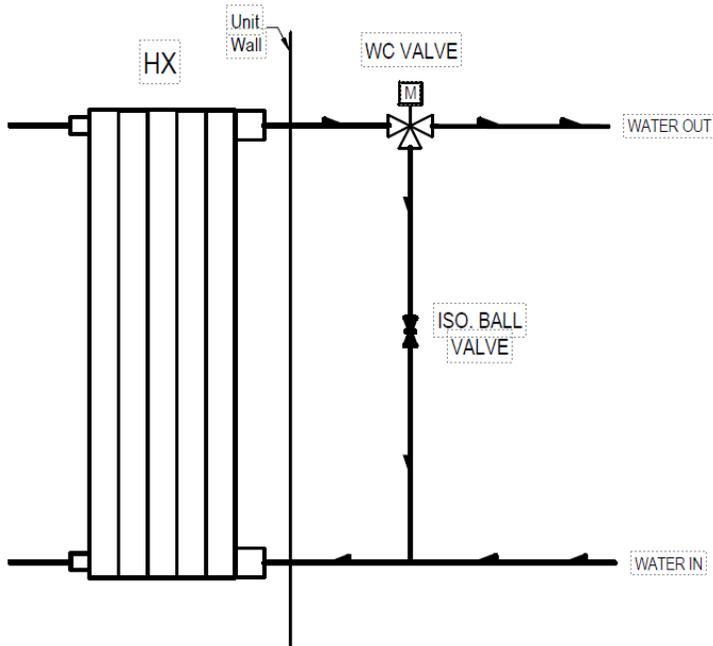


WATER-COOLED VALVE

Piping Connection

Follow picture below for proper connection. Valve must be installed whenever the unit is utilizing a third-party condenser loop of any kind

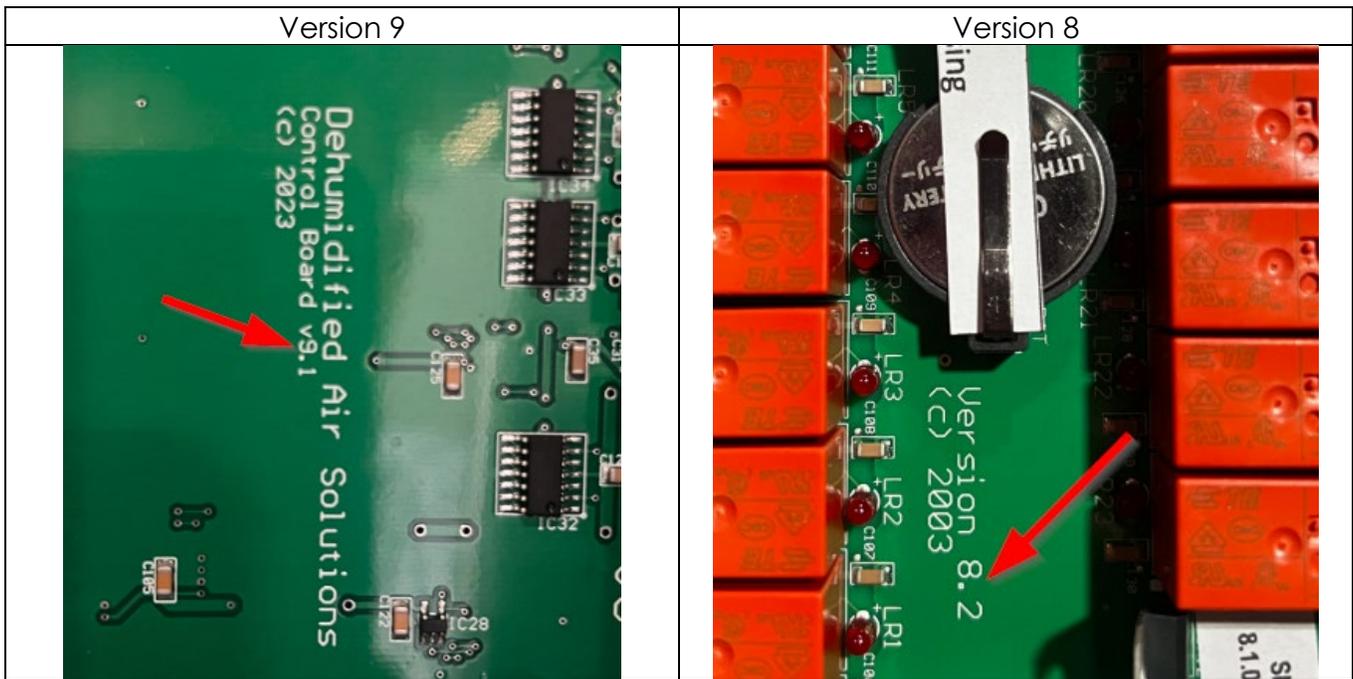
The valves are typically stamped/designated with ports "A", "B", and "AB".



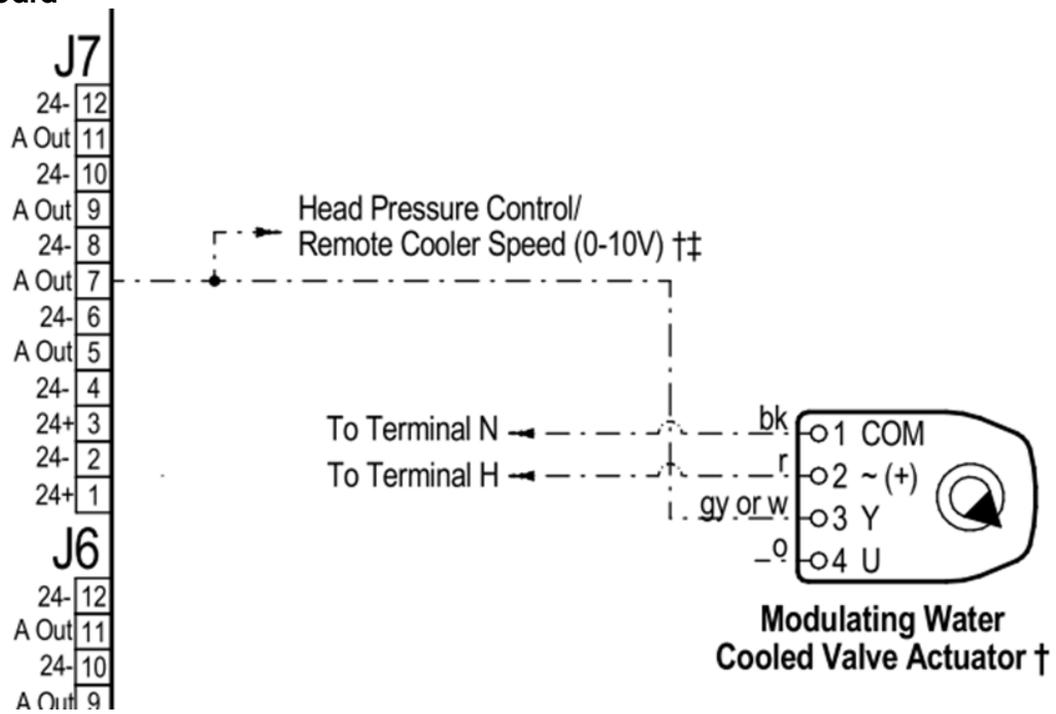
Electrical connections

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

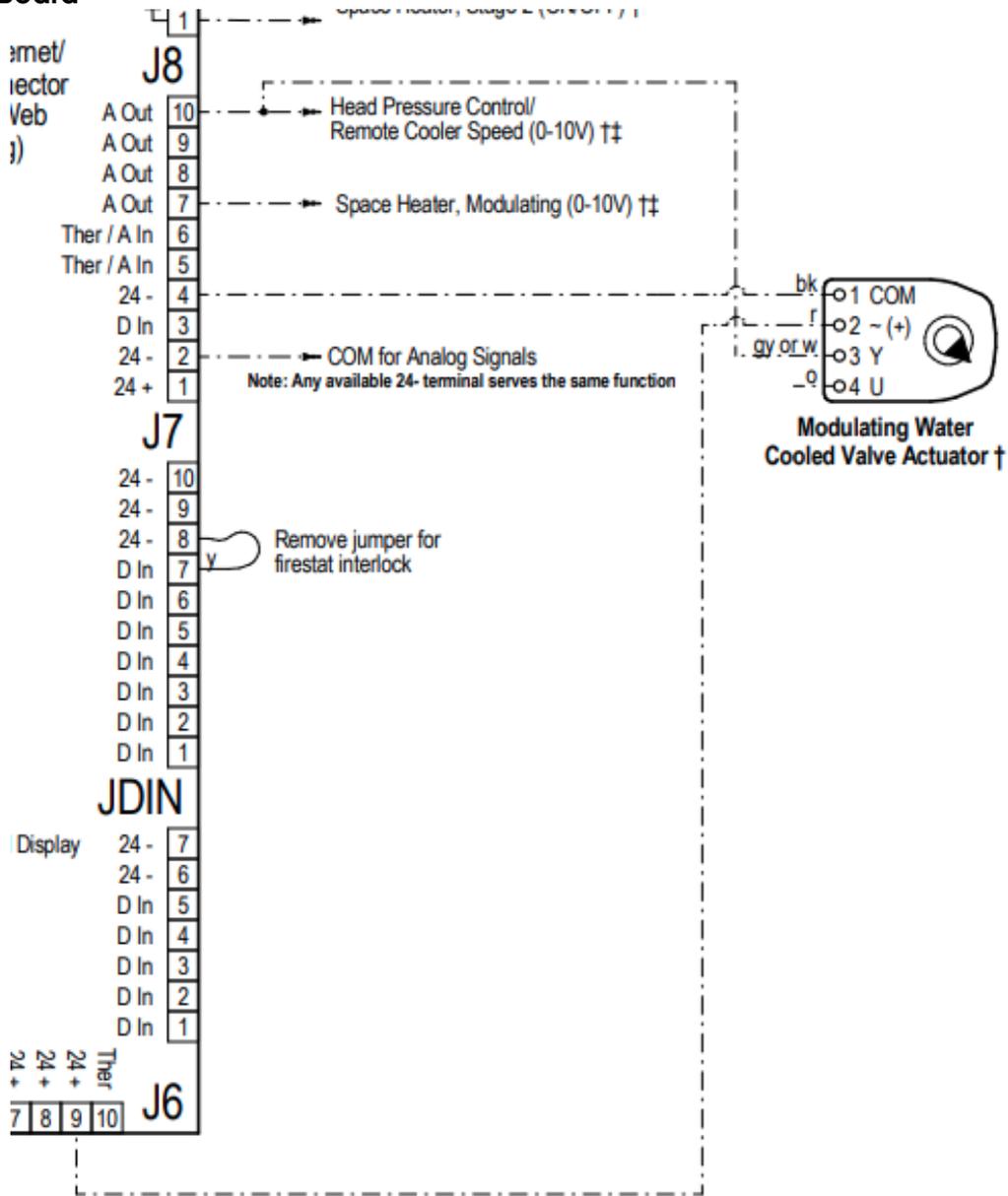
Validate if the board is version 8 or version 9



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.

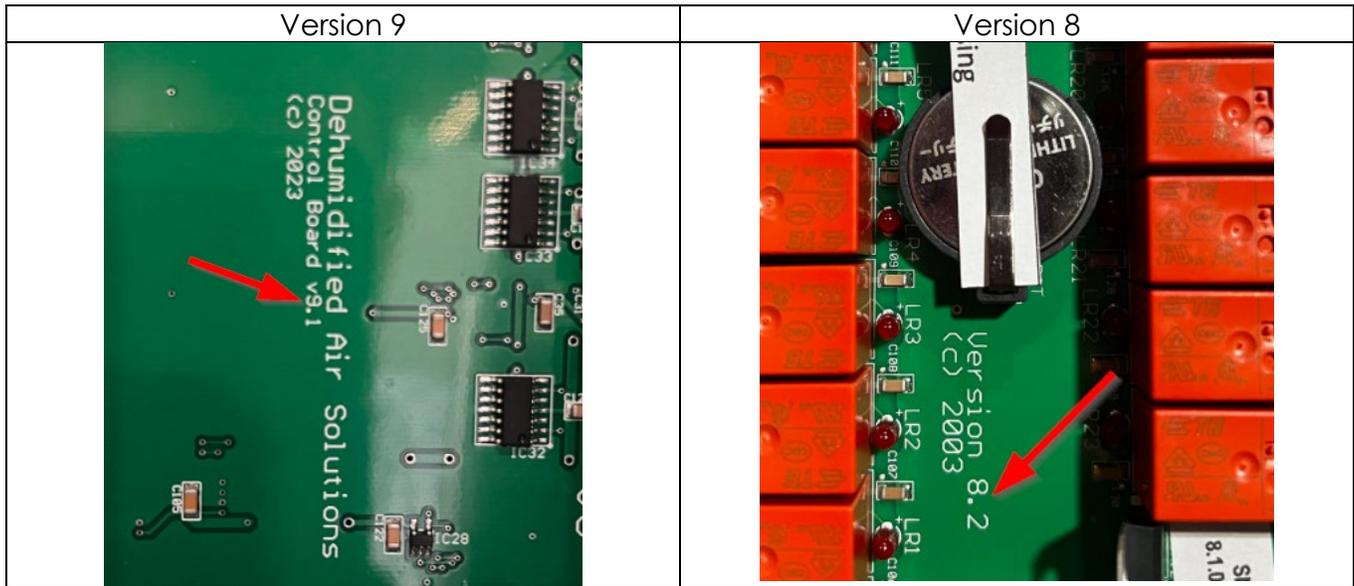
To utilize the Smart Pump feature, a pool water temperature sensor must be installed within a temperature sensor well in the primary pool water piping and wired to the dehumidifier. The auxiliary pump enable circuit must also be wired to the dehumidifier. When used, the dehumidifier will enable the auxiliary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



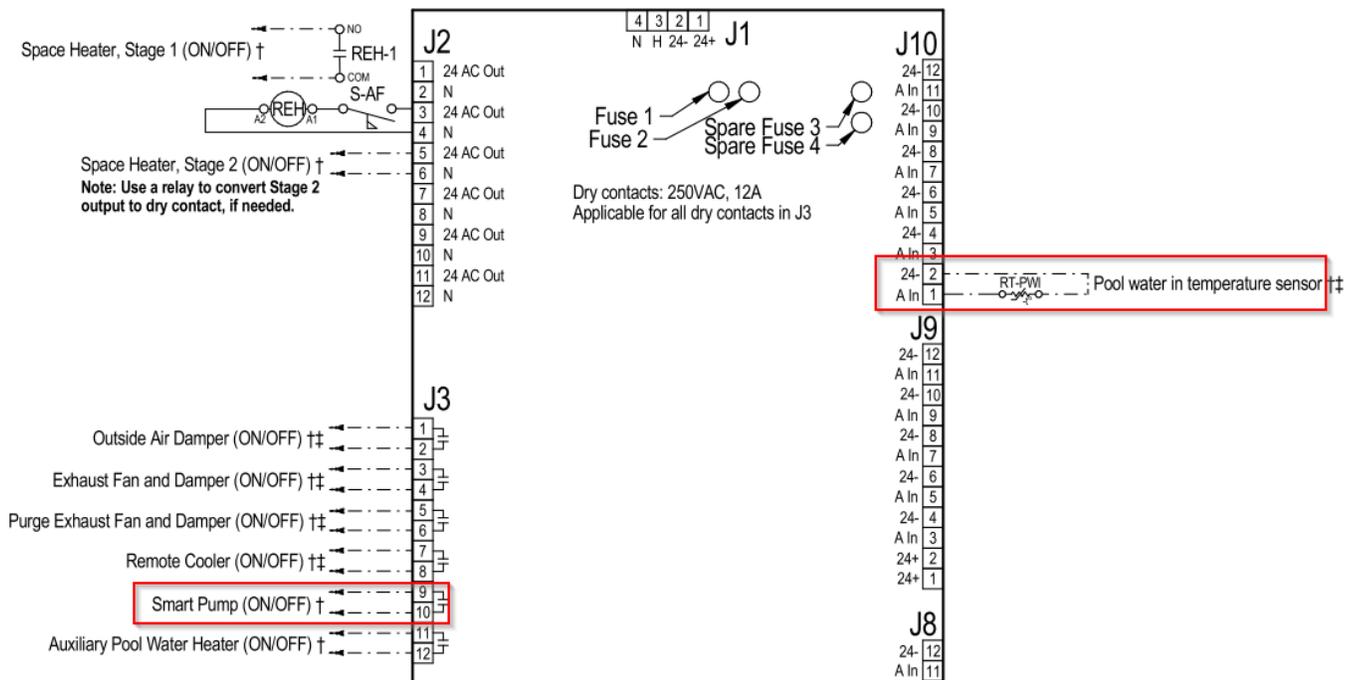
Electrical connection

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

