

Vapor-logic[®] version 3 to Vapor-logic version 6 Field Conversion Instructions: Vaporstream[®] Humidifiers

- Write down Vapor-logic parameters that have changed since installation, for use in configuring the new board. Parameters are viewed through the Vapor-logic keypad and display. Default parameters will automatically be applied with the new Vapor-logic board.
- 2. Disconnect the power.
- 3. Take a picture of the current installation (useful for ensuring wires are returned to the proper location).



- Ensure all wires are properly labeled. Note the board orientations shown in Figure 3-1. The photos depict the orientation of the Vapor-logic version 3 board before removal, and the recommended Vapor-logic version 6 board orientation.
- Leave the wires connected to the Vapor-logic version 3 board and expansion board terminals. Use needlenose pliers to pull the terminals off of the pins. Only multi-stage Vaporstream humidifiers have expansion boards (shown above).
- 6. Remove the six screws holding the Vapor-logic version 3 board to the sub-panel, and remove the board. When removing the screws, take care to prevent the standoffs behind the board from falling down the subpanel and into other electrical components.
- **Note:** The Vapor-logic version 6 board has adhesive-backed standoffs that adhere to the subpanel. For the best adhesion, make sure the subpanel surface is clean and dry.
- Remove the adhesive backing paper from the standoffs, and press the Vapor-logic version 6 board onto the subpanel as close as possible to the original footprint of the Vapor-logic version 3 board.
- See Figure 3-1. The Vapor-logic version 3 disconnections and Vapor-logic version 6 connections needed for this conversion are labeled.

Fire and electrical shock hazards

This page provides important safety instructions; it is intended to supplement — not replace — the humidifier's Installation, Operation, and Maintenance Manual (IOM). Read the IOM that was provided with the humidifier before performing service or maintenance procedures on any part of the system. Failure to follow all warnings and instructions could produce the hazardous situations described here and in the IOM, resulting in property damage, personal injury, or death.

If the IOM is missing, go to www.dristeem.com to download a replacement.

Improper installation, adjustment, alteration, service, maintenance, or use can cause fire, electrical shock, and other hazardous conditions. These hazardous conditions could cause personal injury, property damage, or death.

To prevent hazardous conditions, read all warnings; lock all power disconnect switches in the OFF position before removing any access panels; and consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use only factory authorized and listed kits or accessories when modifying this product.

Note: If literature shipped with the humidifier is not available, historical literature is available at www.dristeem.com.

DriSteem® humidifiers are warranted according to the terms and conditions of the standard two-year Limited Warranty effective when the humidifier was purchased. See the literature that was shipped with the humidifier for warranty information.

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 Skip this step if the humidifier does not have an expansion board: Disconnect the wires from expansion board terminals 1, 3, and 5. Connect them to the following Vapor-logic version 6 P18 plug terminals: Connect wire #501 to CT2, wire #503 to CT3, and wire #505 to CT4.

Note: If any wires are too short to reach their new locations on the Vapor-logic version 6 board, add pigtail extensions to them.

 10. Skip this step if the humidifier does not have the solid state relay (SSR) option (see photo at right): Disconnect wire #434 from Vapor-logic version 3 terminal **34**, and connect it to Vapor-logic version 6 P19 plug terminal **+SSR**. Disconnect wire #435 from Vapor-logic version 3 terminal **35**, and connect it to Vapor-logic version 6 P19 plug terminal **-BL**.

- Disconnect the wires from Vapor-logic version 3 terminals 1, 3, and 5, and connect them to the following Vapor-logic version 6 P17 plug terminals: Connect wire #401 to FILL, wire #403 to DRAIN, and wire #405 CT1.
- Disconnect wires #402, #404, and #406 from Vapor-logic version 3 terminals 2, 4, and 6. Tie them together, and pigtail them to a single common that goes to a DIN rail terminal c.

There are no dedicated common terminals on the Vapor-logic version 6 board (see Figure 3-1). That is why, in this step, the Vapor-logic version 3 commons get tied together and pigtailed to a single wire connected to DIN rail terminal c. These terminals are rated for only two wires, so not all commons can be run back to them. See the gray text box in Figure 3-1.

- 13. Disconnect wire #415 from Vapor-logic version 3 terminal 15, and connect it to DIN rail terminal h.
- 14. Disconnect the wires from Vapor-logic version 3 terminals 14, 19, and 20, and connect them to the following Vapor-logic version 6 P4 plug terminals: Connect wire #414 to **lsw**, wire #419 to **T**, and wire #420 to **⊥**.
- 15. Connect a new wire to the Vapor-logic version 6 P3 plug terminal LW and to DIN rail terminal T3.
- 16. Disconnect wires #801 and #000 from Vapor-logic version 3 terminals T1 and T2. If the terminals are not marked, see the photo at right. Connect the wires to the following Vapor-logic version 6 P1 plug terminals: Connect wire #801 to 24VAC and wire #000 to ↓.
- 17. Humidifier with tap/softened water:

Disconnect the wires from Vapor-logic version 3 terminals **30**, **31**, **32**, **33**, and connect them to the following Vapor-logic version 6 P2 plug terminals: Connect wire #430 to **TOP**, wire #431 to **MID**, wire #432 to **LOW**, and wire #433 to \pm .

Humidifier with deionized water option:

Disconnect the wires from Vapor-logic version 3 terminals **32** and **33**, and connect them to the following Vapor-logic version 6 P2 plug terminals: Connect wire #432 to **LOW** and wire #433 to \pm .

- 18. The kit was shipped with a Vapor-logic version 6 keypad/display and cable. Plug one end of the cable into the Vapor-logic version 6 keypad/display, and plug the other end into the Vapor-logic version 6 board display connection (shown in Figure 3-1).
- If the Vapor-logic version 3 board has an Ethernet cable in the NETWORK connection, unplug it from the Vapor-logic version 3 board, and plug it into the Vapor-logic version 6 board network connection (shown in Figure 3-1).
- 20. External connections: Refer to the Vapor-logic version 3 wiring diagram and the Vapor-logic version 6 external connection requirements in the VL-1 wiring diagram shipped with the conversion kit.



No SSR option If no wires connected to terminals **34** and **35**



FIGURE 3-1: VAPOR-LOGIC3 BOARD DISCONNECTIONS AND VAPOR-LOGIC6 BOARD CONNECTIONS



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Since 1965, DriSteem has led the industry with innovative methods for humidifying and cooling air with precise control. Our focus on ease of ownership is evident in the design of the Vapor-logic controller. DriSteem also leads the industry with a Two-year Limited Warranty and optional extended warranty.

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