

Circulation Pump Replacement



STOP! All work detailed in these instructions must be done by a qualified technician.



Subject: Circulation Pump Replacement

Date: December 27, 2024

Models / Parts Affected: TCIM; Circulation Pump Kit P#897245

Voltages: All Voltages

Overview

This document describes how to install circulation pump kit P#897245 in your TCIM.

Kit Components

- (1) Circulation Pump
- (4) 3-Way Lever Connectors

Required Tools

Required tools include (but may not be limited to) the following:

- Phillips Screwdriver or Bit Driver
- Wire Cutters/Crimpers/Strippers

Installation



WARNING! Electrical shock or burn hazard. Unplug the unit or disconnect power before proceeding.



WARNING! Sharp edges. Take care when installing, cleaning, servicing, and maintaining the equipment.

1. Unplug the appliance or disconnect power.
2. Open the front panel and, if present, remove the front grill. See fig. 1.
3. Remove the top panel. See fig. 2.
4. Remove the right side panel. See fig. 3.
5. Remove the water curtain. See fig. 4.
 - a. Place one hand over the top lip and the other on the side.
 - b. Gently flex the side toward the center while pulling the top forward.
6. Remove the damper. See fig. 4.
 - a. Push down until the damper is horizontal.
 - b. Pull forward gently.
7. Remove the evaporator area cover.
 - a. Push up from inside the evaporator section.
8. Remove the sump tank.
 - a. Disconnect the sump drain fitting. See fig. 6.
 - b. Pull the sump tank's center forward and then push down.
 - c. Tilt the sump tank's front upward.

NOTE: DO NOT damage the water level sensor. See fig. 5.

- a. Disconnect the sump drain fitting. See fig. 6.
- b. Pull the sump tank's center forward and then push down.
- c. Tilt the sump tank's front upward.

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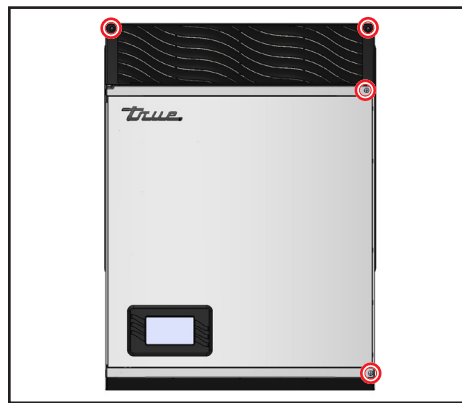


Fig. 1. Front panel and grill screw locations.

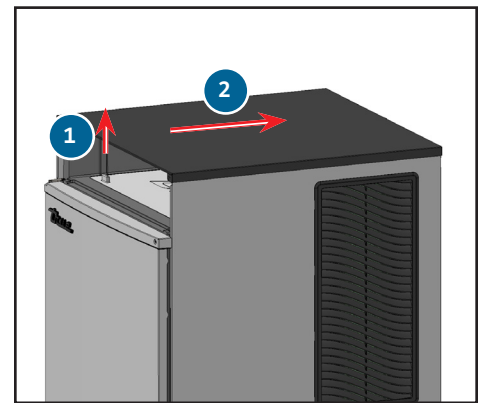


Fig. 2. Lift the front edge, then slide the top panel back.

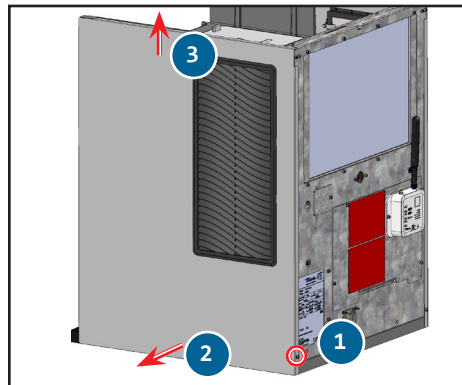


Fig. 3. Remove the screw, pull the panel free from the adhering tabs, then lift.

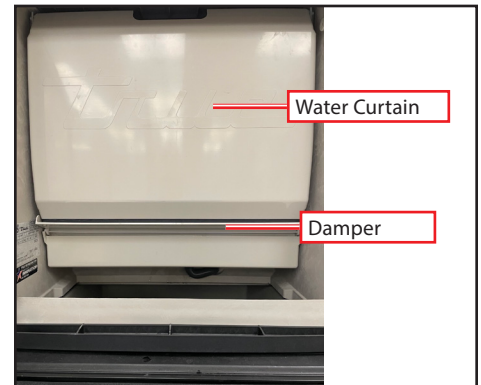


Fig. 4. Water curtain and damper locations.



Fig. 5. Water level sensor location. Sump tank dropped for illustration.



Fig. 6. Sump drain fitting location.



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9. Remove the circulation pump cover. See fig. 7.
 10. If present, cut off the molex connector. See fig. 8. Otherwise, disconnect the circulation pump from the appliance.
 11. Remove the circulation pump.
 - a. Disconnect the supply water pipe. See fig. 9.
 - b. Remove the circulation pump screw. See fig. 10.
 - c. Rotate the circulation pump counterclockwise. Then lift. See fig. 11.
 12. If present, with a provided lever connector, cap the appliance ground wire.
 13. Install the replacement circulation pump. Wiring configuration varies by model and cube size. See table 1.
- NOTE: Discard the provided circulation pump gasket.**
14. Reinstall removed components.
 15. Restore power and verify operation.

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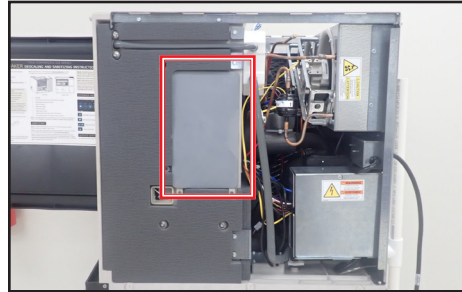


Fig. 7. Circulation pump cover location.

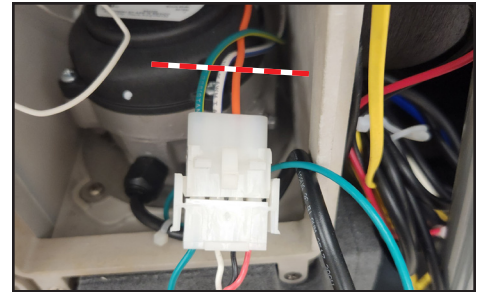


Fig. 8. Cut the molex connector from the appliance.



Fig. 9. Disconnect the line from the circulation pump.



Fig. 10. Circulation pump screw location.

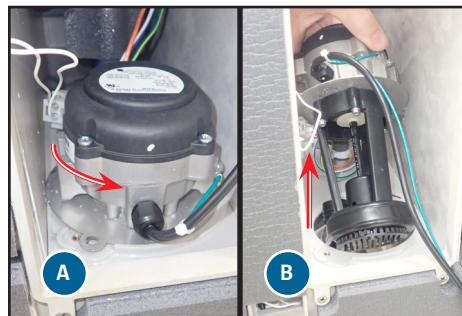


Fig. 11. Rotate and then lift the pump out.

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Table 1. Circulation Pump Wiring Configuration

Model (cube size)	Circulation pump wire(s)	to	Appliance Wire
422/430 (Half)	Brown & Black	to	Orange
	Blue	to	White/Blue
422/430 (Full)	Brown	to	Orange
	Black & Blue	to	White/Blue
422/430 (Large)	Brown	to	Orange
	Black & Blue	to	White/Blue
522/530 (Half)	Brown & Black	to	Orange
	Blue	to	White/Blue
522/530 (Full)	Brown	to	Orange
	Black & Blue	to	White/Blue
522/530 (Large)	Brown	to	Orange
	Black & Blue	to	White/Blue
622/630 (Half)	Brown & Black	to	Orange
	Blue	to	White/Blue
622/630 (Full)	Brown	to	Orange
	Black & Blue	to	White/Blue
622/630 (Large)	Brown	to	Orange
	Black & Blue	to	White/Blue
822/830 (Half)	Brown	to	Orange
	Blue	to	White/Blue
	Black not used; cap the wire		
822/830 (Full)	Brown & Black	to	Orange
	Blue	to	White/Blue
822/830 (Large)	Brown & Black	to	Orange
	Blue	to	White/Blue

Questions or Concerns

For more information, please contact our Technical Support team. See contact information below.

Warranty Phone: +1 855-299-3510

Warranty Email: CommercialIceWarrantyInquiries@TrueMfg.com

Technical Phone: +1 888-783-1429

Technical Email: CommercialIce@TrueMfg.com