

UW50 POWERED VENT FAN KIT - PART NO. 918303

INSTALLATION INSTRUCTIONS

NOTE: This kit must be installed only by an authorized Hobart trained service technician.

This *Installation Instruction* is for installing a powered fan vent to an UW50 with a vent fan control (VFC).

WARNING: GAS HEAT MACHINES MUST HAVE THE PRODUCTS OF COMBUSTION VENTED TO THE OUTSIDE AIR. MAKE SURE THE INSTALLATION MEETS THE LOCAL GAS CODE FOR YOUR AREA.

NOTE: This vent fan control direct connection kit must be used in conjunction with VFC kit, Part No. 918304. The VFC kit must be installed at the same time or have been installed previously.

The VFC will switch an auxiliary vent fan (supplied by Hobart) ON at the end of the machine cycle, then OFF after a preset time. The VFC provides switching only (1.5 amperes maximum).

The powered vent fan adds an additional 22-7/8" to the overall height of machine as measured from top of chamber (illustration 6510).

Install power vent fan kit using a maximum 60 ft. of 10" diameter straight duct; or, 50 ft straight and two (2) 90° elbows, or equivalent. Distances greater than the stated maximum lengths may reduce venting efficiency.

Parts Information

The Vent Fan Control Kit, Part No. 918303, consists of:

Description	Qty.
Vent Weldment	1
Exhaust Duct Weldment	1
Fan Motor	1
Fan Blade 10"	1
Electrical Strain Relief	2
Locknut	2
RTV 732 Sealer	1
Foam Tape	1
Cap Screw 10-24 x 1/2"	4
Washer .203 x .438 x .062	4
Relay 3 pole (5CR)	1
#6 Self Tapping Screw	3
Time Delay Relay (4TR)	1
1/4-20 Self Tapping Screw	1
Fuse	1
Fuse Block	1
Transformer 100VA	1
#10 Self Tapping Screw	4
Installation Instructions	1
Wire Set	1

Instructions

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.



WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

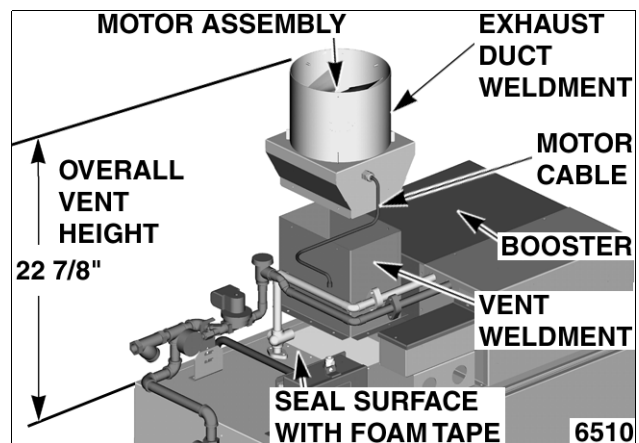
1. Remove stack vent.
2. Retain baffle and hardware for use when assembling vent weldment.

NOTE: Booster is an option and may not be present on machine being serviced.

3. If booster is present, remove booster cover.
4. Seal mating surface of vent weldment flange and dishwashing chamber with foam tape.
5. Install new vent weldment and original baffle.
6. Secure with hardware retained earlier.
7. Seal vent weldment / chamber junction with RTV 732.

NOTE: Exhaust duct weldment must be installed so that the motor cable exits to the front of machine.

8. Assemble exhaust duct weldment to vent weldment with 10-24 screws and washers.

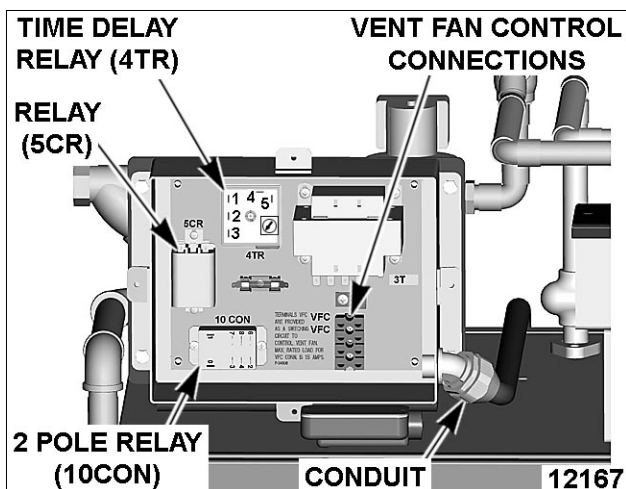


9. Seal exhaust duct weldment / vent weldment junction with RTV 732.
10. Replace booster cover if removed.

11. Install Relay (5CR) and Time Delay Relay (4TR) to VFC panel and secure with 2 - #6 and 1 - 1/4-20 self tapping screws respectively.
12. Install Transformer (3T) and Fuse Block with 1.5A fuse (3FU) to VFC panel and secure with 4 - #10 and 1 - #6 self tapping screws respectively.

Electrical Wiring

CAUTION: If vent fan control was previously installed and an external vent fan was connected to the circuit, disconnect existing vent fan before installing the Hobart supplied vent fan motor.



1. Connect lead wires as marked.

3T-HI - VFC	4TR-1 - 10CON-1
3T-H - VFC	4TR-4 - 5CR-7
3T-XI - 3FU	4TR-5 - 5CR-1
3FU - 10CON-2	4TR-3 - 10CON-0
3T-X2 - GND	5CR-B - 10CON-0

NOTE: Wire (2TB-1 / 10CON-1), if present, can be used as a pulling wire to install the wires in the conduit.

2. If lead wire marked (2TB-1 / 10CON-1) was previously installed, it must be removed and discarded.
3. Feed the three lead wires listed below from UW50 control box, through conduit, and into vent fan control box.

- A. Connect wires as marked.

Origin	Destination
1CON-NC	- 4TR-2
2CR-1	- 5CR-A
2TB-2	- 10CON-0

NOTE: Vent fan motor is 120V single phase motor controlled by 3T transformer. 208V, 240V, or 480V can be applied to the transformer. Power for this motor can come from the machine by selecting two source lines.

- B. Feed two wires marked VFC. Connect wires as shown in wiring diagram AI 1749.
4. If installed, remove conduit plug in side of vent fan control terminal box.
5. Slip strain relief onto vent fan motor cable and install cable into vent fan control box. Wire per wiring diagram using machine source voltage as shown in wiring diagram AI 1749.
6. Remove wire 2CR-1 in UW50 control box.
 - A. Install new (2CR-1 / 5CR-A) wire with piggyback connector where 2CR-1 was located.
 - B. Connect original 2CR-1 to piggyback connection.
7. Connect lead wire (2TB-1 / 1CON-NC) and remaining two wires.
8. Set time delay to 45 seconds.(arrow to 7 o'clock position)
9. After all wires are checked per wiring diagram, close the UW50 and Vent Fan Control Terminal box covers.

NOTE: When first turning the machine on or opening the chamber door, the vent fan may energize, then time out. This is normal.

10. Power up dishwasher and check for proper operation.

NOTE: Vent fan will energize at end of machine cycle and then shut down. Adjust timer as required to vent residual steam.

11. Assemble and attach exterior vent duct and seal with RTV 732.

