



Instruction for Use:

Replacing Heating Element for D and TS series Warming Cabinets

Heating Element Part Numbers

When replacing the Heating Element, check the tables for either D series or TS series cabinets on page 5 to order the right heating element size for your model cabinet.

Removing and Replacing the Heating Element

WARNING: The Heating Element is essential for proper operation of the Warming Cabinet. An authorized experienced technician should replace the motor. An electrical hazard is possible to the warmer and potential injury to personnel.

CAUTION: Turn OFF Circuit Breaker if Warming Cabinet is hard wired to the facility's electrical supply. Failure to do so can cause damage to the Warming Cabinet and injury to personnel.

! Unplug and remove the Warming Cabinet from its power supply.

Working on Free Standing Units

1. Remove four 8 X 1-5/8" self-tapping screws (Table 1, Item 4) from outside Top Panel (Table 1, Item 1). Remove outside Top Panel and set aside (Fig. 9).
2. Remove two 8 X 1/2" self-tapping screws (Table 1, Item 3) from the inside Top Panel (Table 1, Item 2). Remove the inside Top Panel and set aside.
3. The element tray assembly can now be accessed through the top to begin replacing the heating element.

Go to page 3 for instructions on replacing the heating element.

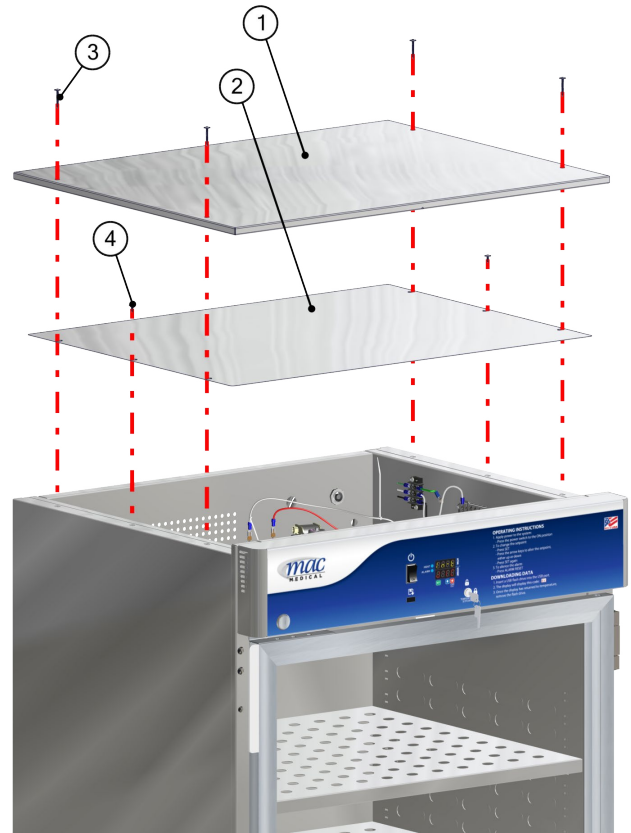


Fig. 1: Remove/Re-install Top Panels - Free Standing Units

Table 1 (Fig. 1)		
Item #	DESCRIPTION	QTY
1	Outside Top Panel	1
2	Inside Top Panel	1
3	Screw, self-tapping 8 x 1/2"	2
4	Screw, self-tapping 8 x 1-5/8"	4



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Working on Units in Recessed Spaces

For units situated in recessed spaces where the top panels cannot be removed, skip Steps 2 and 3 on page 1 which pertain to free standing units and use this procedure instead.

Open the cabinet door and remove two 8-32 X 1/2 self tapping screws (Table 2, Item 2) located at the bottom front of the Drawer Assembly.

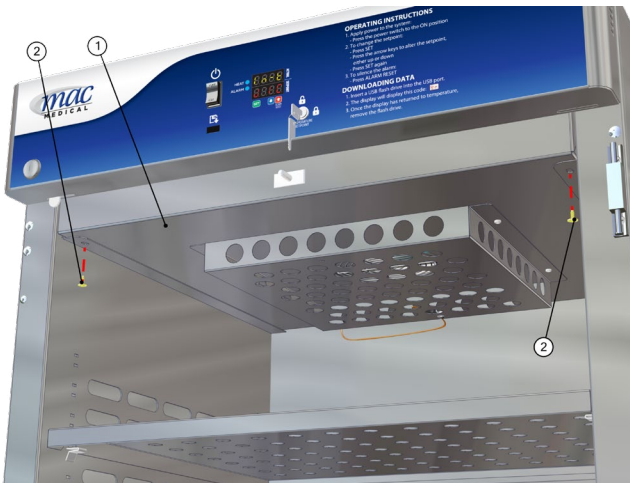


Fig. 2: Remove Drawer Assembly screws

Table 2 (Fig. 2)		
Item #	DESCRIPTION	QTY
1	Drawer Assembly	1
2	Screw, 8-32 X 1/2, Pan Head	2

- A. Slide the Drawer Assembly (Table 2, Item 1) out approximately 8” along the rail guide of the cabinet. A top Drawer Assembly will come out with the Header Assembly attached. There is no Header Assembly attached to Lower Drawer Assemblies.
 - i. In most cases, there is no need to completely remove the Drawer Assembly from the cabinet to change the heating element. If complete drawer removal is preferred, unplug the Drawer connectors, plugs and probe wire (items circled in red as shown in Fig. 4, Fig. 5 and Fig. 6).
 - ii. For TS series cabinets, in addition to the connectors, plugs and probe wire, unplug the Ethernet connection at the back.
- C. Fig. 3 shows a Lower Drawer Assembly on a Dual Chamber cabinet that has been slid out and its components ready for servicing.



Fig. 3: Lower Drawer Assembly - Dual Cabinet

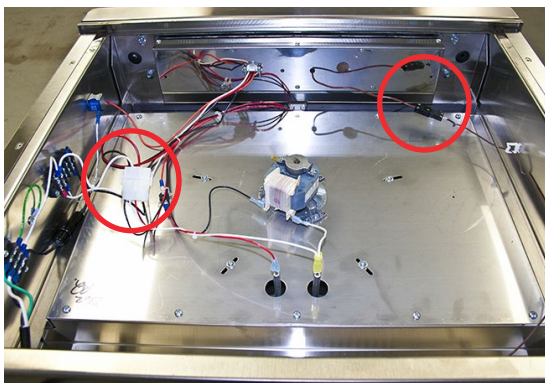


Fig. 4: Unplug connector and probe wire - D Series - Single

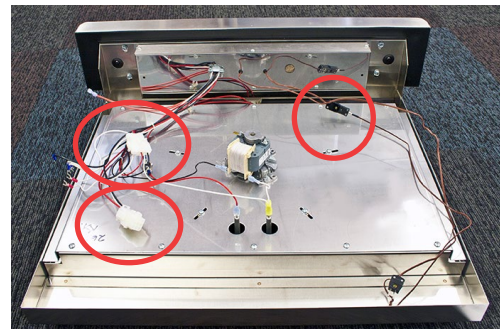


Fig. 5: Unplug 2 connectors & probe wire - D series - Dual

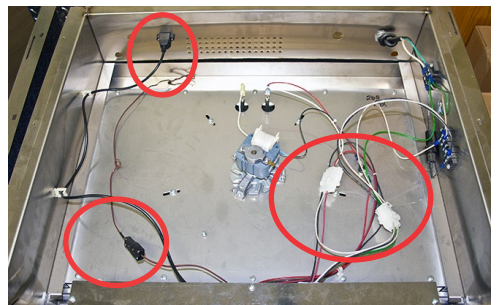


Fig. 6: Unplug 2 connectors, probe wire & plug - TS Series



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Replacing Heating Element

1. The items highlighted in yellow in Table 3 are the parts shipped with the replacement heating element.
2. Disconnect Power Leads and Ground Lead (Table 3, Items 8, 9, 10) from the motor and Heating Element (Table 3, Item 3).
3. Remove eight 10 X 3/4" self-tapping screws from the edges of the Element Tray Assembly (Table 3, Item 1). Lift the Element Tray Assembly out of the Warmer Cabinet Drawer.
4. Turn Element Tray Assembly on its side and hold the Heating Element. Remove the four 8-32 X 1/2" pan head screws (Table 3, Item 7) and four 8-32 flat washers (Table 3, Item 6).
5. Remove the Heating Element from the Element Tray Assembly.
6. Remove the four 8-32 X 1/2" pan head screws attaching the four metal clamps to the four ceramic standoffs suspending the Heating Element away from the Element Tray Assembly. Slide the clamps off the Heating Element.

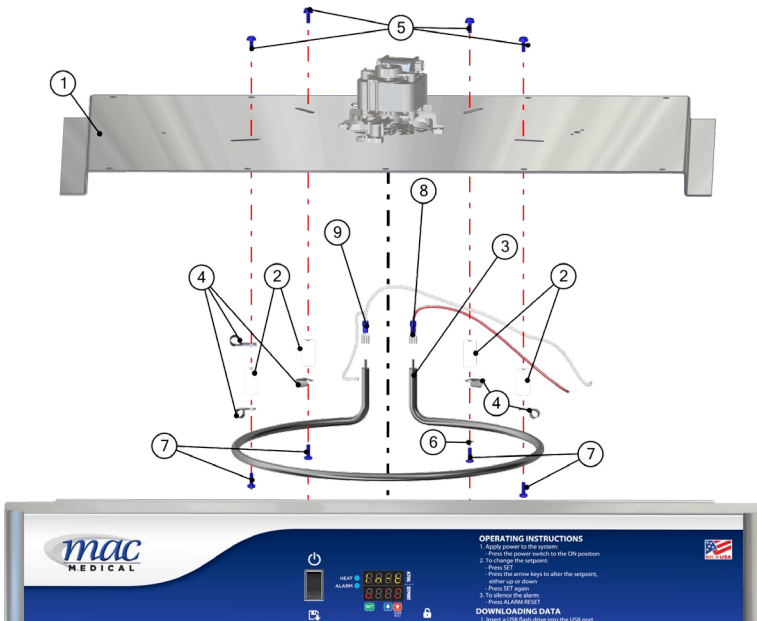


Fig. 7: Heating Element - Exploded View

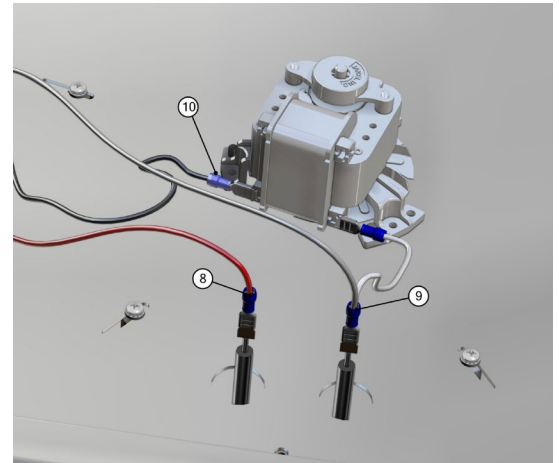


Fig. 8: Motor & Heater Element connections

Table 3 (Fig. 7 & Fig. 8)

Item #	DESCRIPTION	QTY
1	Heating Element Tray	1
2	Standoff, Ceramic Heater (W0010)	4
3	Heating Element (see tables for relevant part number, page 5)	1
4	Clamp, Heating Element (W0122)	4
5	Screw, 8-32 X 1/2" Phillips Pan Head with External Lockwasher (HD0018-03)	4
6	Washers, #8 Flat (HD0001-04)	4
7	Screw, 8-32 X 1/2" Phillips Pan Head (H0018-03)	4
8	Terminal, Heating Element, Power (Red)	1
9	Terminal, Heating Element, Ground (White)	1
10	Power Lead, Fan Motor (black)	1
11	262 Loctite (not shown)	small quantity



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Install a New Heating Element

1. Turn the Heating Element Tray over. Place and center the new heating element coil spade ends through the large holes.
2. While keeping the spade ends centered in the holes, fasten 4 Heating Element Clamps onto the Heating Element. Align the clamps with the 4 slots holes on the element tray. Turn the connectors on the clamps to the inside of the heater element. Squeeze the clamps tight around the heater element coil (Fig. 9).
3. Re-attach four 8-32 X 1/2" pan head screws and lockwashers through the slotted holes in the element tray from the bottom side. Do not tighten at this time so they can be properly located. Apply one (1) drop of 262 Loctite onto the threads of each screw and thread a ceramic standoff onto each screw.
4. Replace the heater element (spade-end through the large holes as before) and position the heater element clamps over the ceramic standoffs (Fig. 10).
5. Apply one drop of 262 Loctite to the threads of four (4) 8-32 x 1/2" Phillips pan head screw with locks. Insert the screws through the slotted holes into the connectors on the clamps and screw them into the ceramic standoffs.
6. Recheck the centering of the heater element spade ends in the large holes of the element tray. The ceramic standoffs may need to be slid in the slots of the element tray to get the element centered in the large holes (Fig. 11).
7. After centering the heating element coil, turn the Heating Element tray over. Tighten all eight 8-32 X 1/2" pan head screws. When tightening the screws on the four ceramic heater standoffs, **do not overtighten**. This will crack and damage the ceramics which can affect safe operation. Ensure the Heating Element is tight enough that it does not move.
8. Place the Element Tray Assembly back into the Warming Cabinet drawer assembly and secure with its 8 screws.
9. Connect the Heating Element ground cable (Table 1, Item 9) to the motor and Heating Element and the Heating Element power cable (Table 1, Item 8) to the new Heating Element. Connect the motor cable (Table 1, Item 11) to the motor.
10. Plug in the unplugged connectors, plugs and probe wire. If this is a TS series unit, also plug in the Ethernet connection.

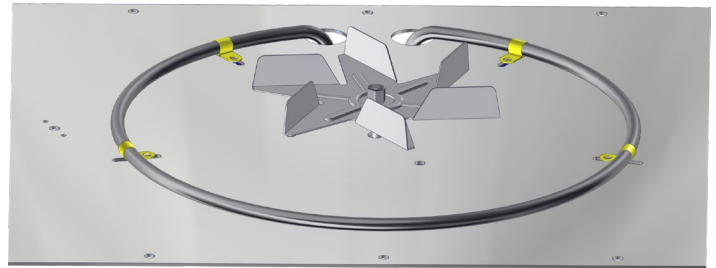


Fig. 9: Insert clamps and align

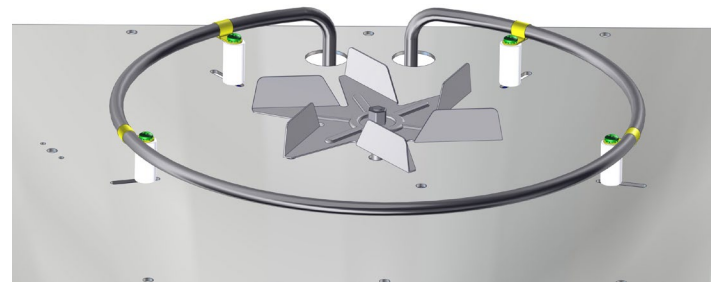


Fig. 10: Attach screws and ceramics

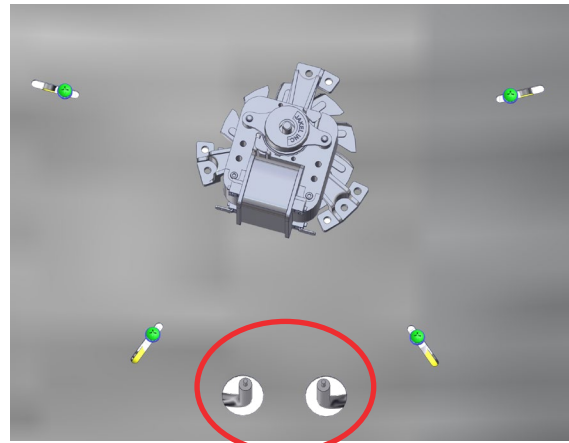


Fig. 11: Heater Element centered in holes

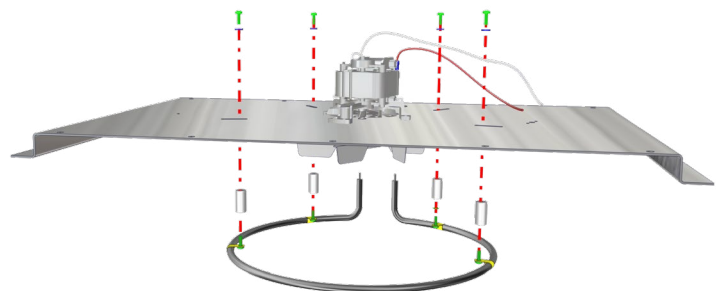


Fig. 12: Re-assembling Heating Element



Instruction for Use:

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Heating Element Parts by Warming Cabinet Model

When replacing the Heating Element, check the tables below to order the heating element for your model cabinet.

<i>Heating Element (D-Series Models)</i>			
Part #	Size	Volt/Watt	Models Where Used
W0131	8"	110V/350W	SWC151822
W0313-220	8"	220V/350W	SWC151822
W0069	9"	110V/350W	SWC182424, SWC183064, SWC243024, DWC243064, DWC242474T, DWC183064T, TWC243078
W0069-220	9"	220V/350W	SWC182424, DWC182464T
W0069-01	9"	110V/750W	SWC183064, SWC183074, SWC243074, SWC182464, DWC242474T
W0069-01-220	9"	220V/750W	SWC183064, SWC183074, SWC243074, SWC182464, DWC242474T, TWC243078
W0302	9"	110V/650W	SWC243036, SWC182424, SWC183036, DWC183074E, DWC183064T, DWC183074T, DWC182464T, DWC243074T, TWC243078
W302-220	9"	220V/650W	SWC183036, SWC243036, DWC183074E, DWC182474T, DWC183064T, DWC243074T, DWC182464T, TWC243078
W0003	12"	110V/750W	SWC243024, SWC243036, SWC243074, DWC243074, DWC243074E
W0107	12"	220V/750W	SWC182424, SWC182464, SWC183024, SWC243024, SWC243074, DWC182464T, DWC243074T, DW242474T, DWC1183064T

<i>Heating Element (TS Series Models)</i>			
Part #	Size	Volt/Watt	Models Where Used
W0069	9"	110V/350W	SWC182424-TS, SWC183064-TS, SWC243024-TS, DWC243064-TS, DWC242474T-TS, DWC183064T-TS,
W0069-220	9"	220V/350W	SWC182424-TS, DWC182464T-TS
W0069-01	9"	110V/750W	SWC183064-TS, SWC183074-TS, SWC243074-TS, SWC182464-TS, DWC242474T-TS
W0069-01-220	9"	220V/750W	SWC183064-TS, SWC183074-TS, SWC243074-TS, SWC182464-TS, DWC242474T-TS
W0302	9"	110V/650W	SWC243036-TS, SWC182424-TS, SWC183036-TS, DWC183074E-TS, DWC183064T-TS, DWC183074T-TS, DWC182464T-TS, DWC243074T-TS
W302-220	9"	220V/650W	SWC183036-TS, SWC243036-TS, DWC183074E-TS, DWC182474T-TS, DWC183064T-TS, DWC243074T-TS, DWC182464T-TS
W0003	12"	110V/750W	SWC243024-TS, SWC243036-TS, SWC243074-TS, DWC243074-TS, DWC243074E-TS
W0107	12"	220V/750W	SWC182424-TS, SWC182464-TS, SWC183024-TS, SWC243024-TS, SWC243074-TS, DWC182464T-TS, DWC243074T-TS, DW242474T-TS, DWC1183064T-TS

Finishing the Cabinet Re-assembly for Free Standing Units

1. Re-install the outer and inner top panels, securing with two 8 X 1-5/8" self-tapping screws (Table 1, Item 4)) to the Inside Top Panel (Table 1, Item 1) and four 8 x 1-5/8" self-tapping screws to the Outside Top Panel (Figure 1).

Finishing the Cabinet Re-assembly for Units Situated in Recessed Walls

1. Slide the Drawer Assembly back into the Warming Cabinet.
 - A. **Important: Ensure proper door switch operation** - For both steel and glass door units, the top Drawer Assembly should be re-installed to sit flush with the front surface of the door frame edge. For steel door units, the lower Drawer Assembly front surface should sit flush with the front surface of the door frame edge. For glass door units, the lower Drawer Assembly front surface should be re-installed to sit recessed up to 1/8" below the front surface of the door frame edge.
2. Align the two holes (located bottom-front) on the drawer with the two holes in the rail guides in the Warming Cabinet. Secure the Drawer Assembly to the cabinet guide rails by attaching two 8-32 X 1/2" self-tapping screws (Table 2, Item 2) into the holes of the guide rails of the cabinet (Fig. 2).