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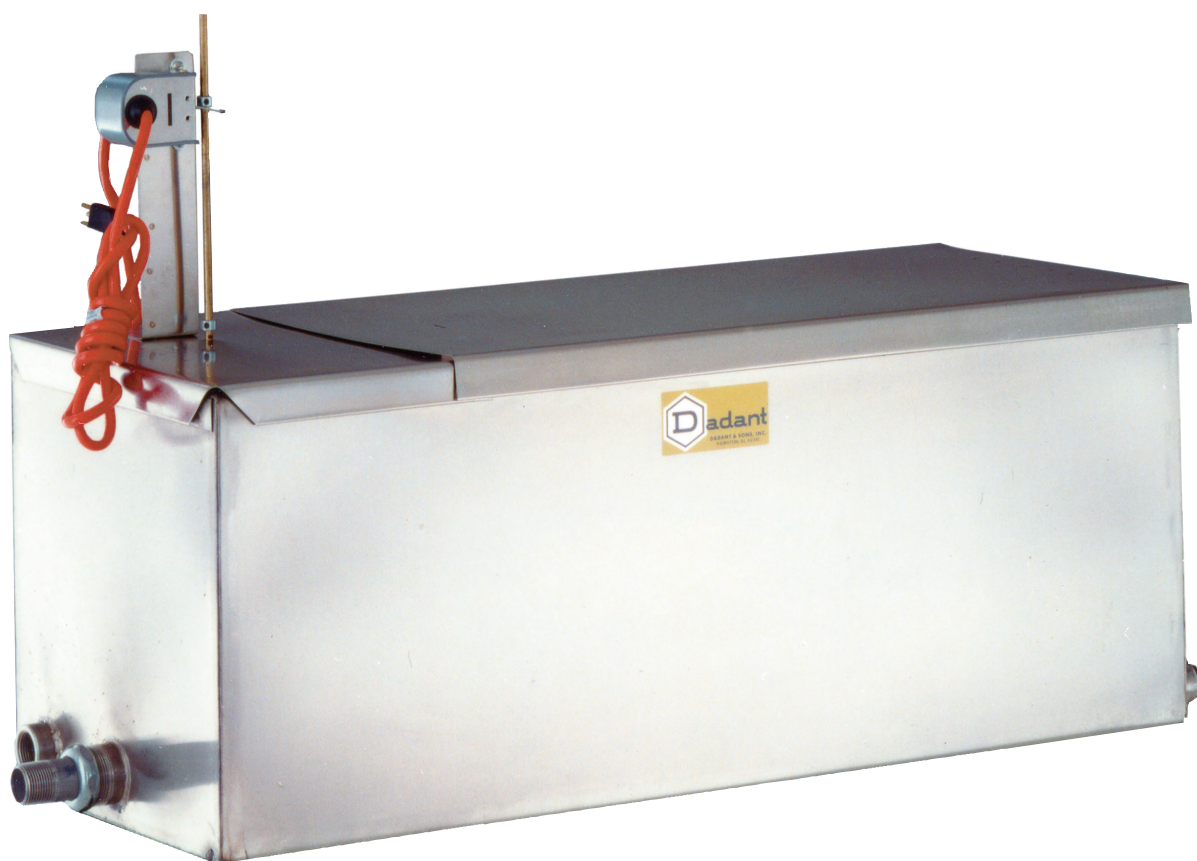
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M00550 CONTROLLER 1 **20 Gallon Water Jacketed Clarifier**



- **Assembly**
- **Maintenance**
- **Operation**
- **Replacement Parts**

M00550 Controller 1

WATER-JACKETED HONEY COMPARTMENT

Double-walled construction allows water to completely surround the honey compartment (except on top) providing the maximum heating surface and the most even, uniform heating possible. Warmed honey flows, clarifies, and filters better and faster than cold honey.

CLARIFYING BAFFLES

Honey must travel up through and over two clarifying baffles. Wire, nails, etc., sink and can't get under the baffles while floating foreign matter is trapped behind the baffle. The end result is protected honey pumps and cleaner honey. Filters last longer and time is saved.

1 1/2" WELDED FITTING HONEY INLET

Large 1 1/2" male pipe thread inlet allows easy, positive hookup to your extractor. Fittings are welded to the tanks and water compartment is sealed by O-rings and sealing nuts.

SATIN FINISH STAINLESS STEEL CONSTRUCTION

Heavy 16 gauge type 304 high food quality, easy cleaning stainless steel provides years of service while maintaining excellent appearance with no rust, chipping, or flaking.

THERMOSTATICALLY CONTROLLED HEATER

1700 watt 120 volt heater is efficient heat source to raise honey temperature quickly.

WATER-STAINLESS STEEL COVERS

Full covers provided to slow down retard heat loss and to keep foreign material out of the tank.

FLOAT ASSEMBLY AND SWITCH PROVIDED

A 4" float and float rod positively operate a float switch which is wired to automatically control a honey pump. Switch comes completely wired with the proper cord ends. On and off settings are adjustable to allow operator maximum control.

1" WATER DRAIN

Remove brass pipe plug from 1" welded fitting to drain water compartment.

BOTTOM DRAIN HONEY OUTLET

The honey is taken from the tank through a 1" bottom drain to give complete honey drainage, to allow maximum float action, and to reduce the number of pumping cycles. The water compartment is sealed with a welded fitting, an O-ring, and sealing nut.

QUALITY STANDARD FEATURES MAKE THE DIFFERENCE

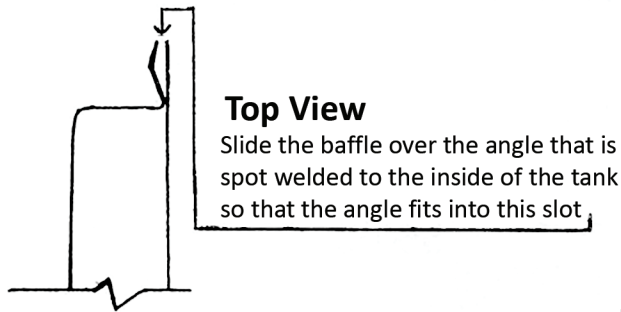
NO "EXTRAS" TO BUY	Comes complete with heater, tank, covers, wired float switch and float assembly, and baffles.
OUTSIDE TANK DIMENSIONS	36 1/4" (920 .8 mm) tank length (44" (1117.6 mm) length inc. fittings) ; 14 1/4" (362 mm) tank height; 14 1/4" (362 mm) tank width
SUPERIOR WELDS	All electronically controlled MIG welded tank construction to provide smooth, leakproof seams and easy cleaning - Internal seams especially smooth - NO SOLDER - NO SEALANTS
STAINLESS STEEL FITTINGS	1 1/2" (38 .1 mm) honey inlet; 1" (25.4 mm) bottom drain honey outlet 1" (25.4 mm) water drain All stainless steel fittings are welded on the tank to provide maximum structural strength and positive connections.
UNIFORM HONEY HEATING	2" (50 .8 mm) water under the honey compartment 1" (25 .4 mm) water on all sides of the honey compartment

Double-walled construction provides the most even, uniform heating possible with water surrounding the honey compartment.
3" x 14" (76.2 mm x 355 .6 mm) water opening across inlet end of tank aids water filling and allows constant water level monitoring.

M00550 Controller 1

ASSEMBLY

1. Put any standard pipe joining compound on heater threads and tighten into tank fitting so that the tank sits flat on the floor. (When operating, the heater must be completely submerged to prevent damage.)
2. Insert the baffles (#550-5) into tank (See Figure 1) so that the bottom of the baffles are open to the inlet end of the tank. (The inlet end of the tank has been left open for convenient water filling and gauging.) Be sure baffles are seated on the bottom of the tank.



Enlarged Side View

The rubber seal must lay on the bottom of the tank with the free end toward the inlet of the tank

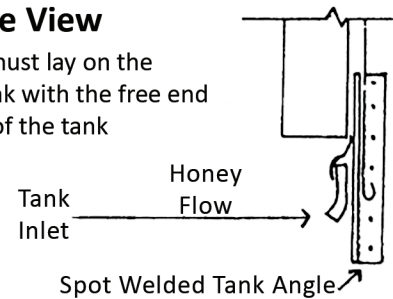


Figure 2

3. Checking the float switch operation - In this type of sump operation, a spud type float method is used. (See Figure 2.) Without the float rod installed, the switch operating lever can be pushed up or down and the lever will remain in either position. If the lever "snaps back" when released, the counterbalance spring must be adjusted (screw adjustment) .
4. Using the hex wrench provided, remove the set collars from the float rod shaft. From the bottom of the small cover (the one with the float switch mounted on it), insert the float rod through the cover and slide one set collar on the rod. Slide the rod through the hole in the float switch arm and place the second set collar on the float rod. Tighten the collars in the pre-marked position. These may need slight adjustment for your particular operation. To check the adjustment, place the lid assembly (#550-7) on the outlet end of the tank. With the float down, the switch should be in the "off" position and the float should not be touching the bottom of the tank. Adjust the top set collar as necessary. Now push the float up. The lower set collar should contact the switch lever and push it to the "on" position just before the float touches the cover. Adjust the bottom set collar as necessary.
5. Connect the inlet pipe to the extractor and the outlet pipe to the honey pump. Use of 1 "-1 1/2" plastic adapter may be necessary .

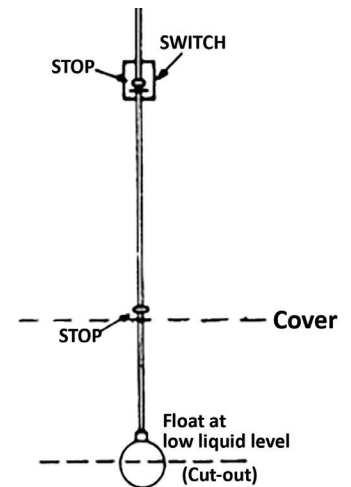


Figure 2

OPERATION

1. Fill outer tank with water (hot is preferable for quick start-ups) to within 6" from top at the inlet end of the tank. DO NOT OVERFILL! Due to water pressure, the baffles may have risen slightly. The weight of honey will overcome water pressure and the baffles will seat properly. Finish filling tank with water **only after** honey has partially filled inner tank. (This will prevent water overflows.)
2. Plug honey pump outlet cord into the female end of the float cord; then, plug the float switch into a **grounded** 120 volt outlet.
3. Adjusting #5-136 stops allows for varying upper and lower honey levels. The #550-BA float switch automatically turns the honey pump on and off at honey positions you've preset. See Fig. 2 above and Step #4 of assembly. (Both stops must be on top of the cover.)
4. Begin extracting and note positions at which pump turns on and off. Reset if necessary.
5. Place large cover (#550-6) over the tank so that it covers only the honey compartment. (When storing the equipment, the large cover can be used to completely cover entire control tank.)
6. Maintain water level for maximum efficiency. **Never** operate the heating element unless submerged in water.
7. Unplug heater and pump switch when extracting is completed. Remove the baffles to drain all honey compartments.

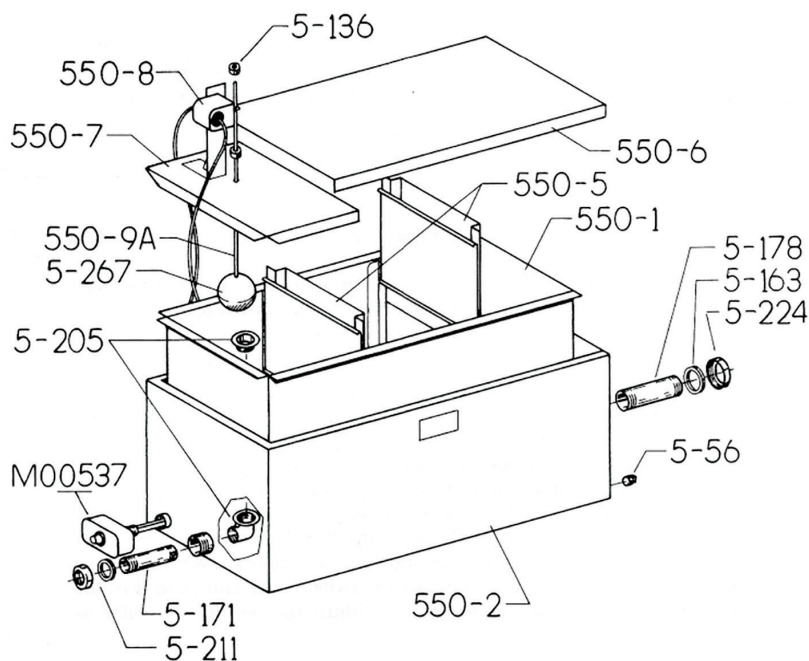
MAINTENANCE

1. Drain the water compartment completely (after unit is cool) by removing #5-56 brass drain plug.
2. Clean inner tank with soap and water, rinse inner and outer tank thoroughly, let dry, replace covers, and store.

PARTS ORDERING

To order parts, simply fill out the order form within this brochure. Give your complete name, customer number (if applicable), address, and zip code. Refer to the drawing and follow these simple directions. First, circle the part that you need. Secondly, locate the corresponding part number below and in the blank to the left of that number, indicate the quantity of parts needed. Finally, mail this entire sheet to Dadant & Sons, Inc., Hamilton, IL 62341. A new parts list will be included in your parts shipment. Thank you for using Dadant equipment.

P . S. If other merchandise is needed, you may save on UPS charges by including additional orders with this parts order.



M00550 CONTROLLER I (3-84)

PARTS ORDERING LIST

Part Number	Description.
04-55005	Baffle (each, 2 required)
04-55005D	Rubber Baffle Seal
04-55006	Large Cover Assembly
04-55007	Small Cover w/Switch Bracket
04-55008	Wired Float Switch
04-55009A	18" Float Rod
M00537	1700 Watt Heater
03-50056	1" Brass Pipe Plug
03-50136	¼" Set Collar
03-50163	O-Ring (inlet)
03-50267	Plastic Float
5-171	1 " x 6" SS Pipe Nipple
5-178	1 ½" x 6" Pipe Nipple
5-224	2" Sealing Nut
550-1	Sump Tank - Inner
550-2	Sump Tank - Outer

DATE _____

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE (AREA _____) _____

CUSTOMER NUMBER (if applicable)

MAIL TO: Dadant & Sons, Inc.

Hamilton, IL 62341

Model _____