



INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

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No. 2080248(10)

Model H1001.8HO Water Cooler

NOTE TO INSTALLER: Please leave this information with the Maintenance Department.

A ground-fault circuit breaker shall be installed in the branch circuit supplying fountain equipment. NEC680-51(a).

CAUTION! Prior to making any electrical connections, verify with a voltmeter that power from the service panel is **off**.

LIMITED WARRANTY

HAWS warrants that all of its products are guaranteed against defective material or poor workmanship for a period of **one year from date of shipment**. HAWS liability under this warranty shall be discharged by furnishing without charge F.O.B. HAWS Factory any goods, or part thereof, which shall appear to the Company upon inspection to be of defective material or not of first class workmanship, provided that claim is made in writing to company within a reasonable period after receipt of the product. Where claims for defects are made, the defective part or parts shall be delivered to the Company, prepaid, for inspection. HAWS will not be liable for the cost of repairs, alterations or replacements, or for any expense connected therewith made by the owner or his agents, except upon written authority from HAWS, Sparks, Nevada. HAWS will not be liable for any damages caused by defective materials or poor workmanship, except for replacements, as provided above. Buyer agrees that Haws has made no other warranties either expressed or implied in addition to those above stated, except that of title with respect to any of the products or equipment sold hereunder and that HAWS shall not be liable for general, special, or consequential damages claimed to arise under the contract of sale. The drinking fountain manufactured by HAWS is warranted to function if installation and maintenance instructions provided are adhered to. The units also must be used for the purpose for which they were intended.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED ARE AUTHORIZED, PROVIDED OR GIVEN BY HAWS.

SHOULD YOU EXPERIENCE DIFFICULTY WITH THE INSTALLATION OF THIS MODEL, PLEASE CALL:

1-800-766-5612

**(U.S.A. AND CANADA ONLY) MONDAY-THURSDAY: 6:00 A.M. – 4:00 P.M. PST
FRIDAY: 6:00 A.M – 1:00 P.M. PST**

RECOMMENDED TOOLS: Hack saw, pipe joint sealant, screwdriver, level, 12" adjustable wrench, 10" pipe wrench, 5/64" hex key wrench, 9/16", 1/2", 7/16" socket wrench or open end wrench.

LOCATION OF UNIT: The Model H1001.8HO Cooler is a wheelchair accessible drinking water facility. The height dimensions shown meet current ADA requirements; when installing this unit, local, state or federal codes should be adhered to. If height other than shown is required, then dimensions must be adjusted accordingly.

SUPPLY LINE: The minimum recommended line size is 1/2"IPS with 30-90 psi (2-6 ATM) pressure. Where sediment or mineral content is a problem, an inlet filter is recommended.

PLUMBING CONNECTIONS: Inlet is 3/8" O.D. tube. Waste arm is 1-1/4" O.D. tube.

ELECTRICAL CONNECTIONS: 115VAC, 60HZ, 4.7 AMPS. Chiller wired direct to incoming line, by others.

PARTS LIST		
MODEL PACKAGE	QUANTITY	ITEMS INCLUDED
MTGFR.SM	1	Mounting Frame (Small)
-	3	#10 Sheet Metal Screws
HCR8	1	Chiller
HWCT8HO	1	Bowl Assembly with sensor and wiring harness
-	1	Supply tubing
	1	Panel bowl back
-	1	Grille
	1	Package of two each-grille attachment, attachment clips, clip nuts, #10 sheet metal screws and 6-32 screws
	1	Waste elbow 1-1/4" O.D.
	4	5/16 -18 retainer nuts
	4	5/16 – 18 x 1 hex head screws

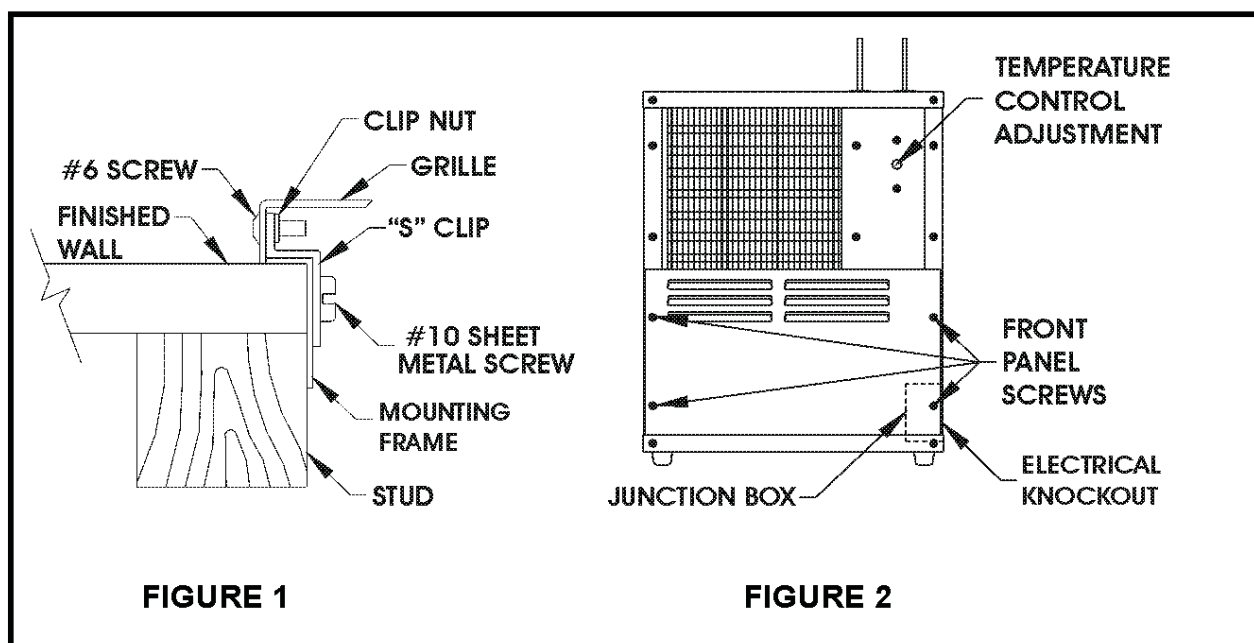
INSTALLATION PROCEDURE

The Model H1001.8HO Water Cooler assembly requires installation of the mounting frame as described in Steps 1 - 2, then mounting the fountain bowl assembly as described in steps 3 - 6, and finally completing chiller water and electrical connections and starting chiller per Steps 7 - 12. First check that all required parts are received.

Grounding may cause electrical feedback into the electric drinking fountain causing an electrolysis, which creates a metallic taste or an increase in the metal content of the water. This condition can be avoided by using dielectric couplings in the assembly. The waste line, which is supplied by the installer, should also have a dielectric (plastic) coupling to completely isolate the assembly from the building plumbing system.

INSTALLATION PROCEDURE ...

- Step 1:** Provide wall opening as detailed in Installation Drawing. Frame must be positioned such that frame flanges overlap and butt against finished wall surface. Mounting holes are provided for #6 sheet metal screws. After frame is positioned in wall, swing chiller support tray into position (Installation Drawing), align tray holes with holes in frame and fasten with #10 sheet metal screws. Mounted frame must support 50-pound chiller in addition to fountain weight and user generated forces.
- Step 2:** Install waste, supply and electrical lines in locations shown in Installation Drawing. Waste and supply lines may be installed for either rear or side entry. Verify proper waste, supply, electrical and frame locations. Use level to verify horizontal and vertical frame mounting to insure proper bowl drainage.
- Step 3:** Installation Drawing shows fountain bowl, back panel and grille locations. Unpack bowl and remove bottom plate using 3/32" hex allen wrench. Install back panel on frame with narrower edge to bottom. Position nut retainers into mounting frame and use two 5/16-18x1 hex head screws partially started in outside holes to support panel. Install bowl/bracket assembly onto panel using four 5/16-18x1 hex head screws hand tightened. See sheet 2 of Installation Drawing for appropriate bowl mounting pattern to use for this model.
- Step 4:** Remove 1-1/2" IPS outlet elbow from trap (not supplied). Install elbow inside frame onto waste stub-outs. Reassemble trap "U" bend with inlets centered behind fountains.
- Step 5:** Remove slip joint nuts from bottom of fountain waste outlet. Assemble nut over 1-1/4" O.D. end of waste elbow as supplied by Haws. Assemble waste elbow onto bowl waste body using seal washer provided and tighten nut hand tight. Measure vertical distance down to trap inlet and cut the vertical (not supplied) elbow to length allowing 1/2" minimum for engagement into trap. Mark and similarly cut to length the horizontal waste elbow. Install elbow and tighten all the slip joint nuts.
- Step 6:** See Figure 1 for detail section view of side screw grille attachment. Unpack grille and insert upper lip behind bottom of back panel, align sides and hold up flush to bottom of back panel. Hold grille against wall and mark centers of grille side slots on wall. Masking tape may be used to prevent finished wall damage from mark. Install the "s" clips in mounting frame using #10 sheet metal screws into pre-drilled holes on lower end of each side of frame. Tighten #10 screw while holding "s" clips centered on wall marks. Check grille fit by installing grille and partially tightening #6-23 socket head screws through side of grille. Insure proper panel and grille alignment, then tighten four 5/16-18x1 hex head screws.
- Step 7:** Unpack and remove chiller from carton. Remove five front panel screws and panel (Figure 2). Do not remove insulating putty and foam from copper tubes or Styrofoam insulation from evaporator coil. Remove any inner packing, which may be around compressor. Remove junction box cover and electrical knock out on lower right side of housing. Install fittings (supplied) on chiller inlet and outlet tubes (Installation Drawing).
- Step 8:** Thoroughly flush supply line to remove all foreign matter. Connect 1/2" NPT supply screwdriver stop (not supplied) to stub-out in wall. Place chiller on chiller support tray against right hand side, fully to rear, with condenser (open panel) side facing to front. Install supply 3/8" O.D. tubing (not supplied), between screwdriver stop and connector at chiller inlet. (Cut to proper length. Insert 1/2" to 3/4" of end of tube in connectors and tighten). Tubing insulation is not normally required on inlet side of chiller. Install insulated tube between fountain and solenoid valve outlet. Cut tubes as required and connect to solenoid outlet compression fitting. Open screwdriver stop **wide open** while checking for leaks at all connect



INSTALLATION PROCEDURE ...

- Step 9:** Verify that electrical power is off and power supply voltage, phase and cycle match specifications printed on chiller label. In accordance with local codes, wire directly to incoming lines at internal chiller junction box. Verify that all inner packing is removed and hand rotate fan blade to verify free rotation. Replace chiller front panel and five panel screws. Turn power on and verify that chiller cycles off after water reaches proper temperature. Finally, check for leaks.
- Step 10:** Plug the 24 VAC transformer into the duplex receptacle. This will initiate the sensor's "Start up mode" for the H.O. Sensor will take approximately five (5) minutes to complete its full cycle of self-calibration. It is important that no object is in front of sensor during this time. A steady red light visible in the center of the sensor window indicates the sensor is picking up an object. Unless this object is a permanent fixture (i.e. Wall, plant, etc.), it must be removed from the view of the sensor. The sensor will adapt itself around such permanent fixtures. In this mode, the sensor will take up to ten (10) minutes to self calibrate.
1. If the 24 VAC power supply is interrupted for more than fifteen (15) seconds, the "start up mode" will automatically repeat itself when power is restored.
 2. If the indicator light flashes three (3) times quickly, then three (3) times slowly and continues to repeat this sequence, this indicates incorrect wiring or a short in the 24VAC power supply.
 3. When someone remains standing in front of the sensor for more than thirty (30) seconds, the sensor will automatically shut off the water supply to the bubbler. To restart, stand to the side for a moment, then return to a position in front of the sensor.

INSTALLATION PROCEDURE ...

Step 11: Turn water supply on and adjust the bubbler's flow using the black regulator mounted inside bracket with HO sensor unit. Finally, check fountain for leaks. Verify the chiller turns off after water reaches proper temperature. If there are any problems, refer to Sensor Troubleshooting Guide.

Step 12: Install grille and tighten outer side screws. Verify there is chilled water out of bubbler.

MAINTENANCE

Step 1: The condenser fins on chiller should be periodically cleaned with brush, air hose or vacuum cleaner. Care should be taken not to bend or deform the condenser fins.

Step 2: The chiller temperature control is factory set for 50°F water under normal conditions. For colder water, adjust control clockwise. For warmer water, turn counterclockwise (Figure 3). Remove front chiller panel for access to temperature control. After adjustment allow unit to cycle off before checking outlet water temperature.

HO SENSOR TROUBLESHOOTING	
PROBLEM	REPAIR CHECKLIST
1. Insufficient bubbler flow.	a. Check that screwdriver stop valve is in full open position. Turn counterclockwise. b. Verify minimum 30 psi supply pressure. c. Clean rubber orifice in flow control cartridge.
2. Repeated clogs in flow control.	a. Install water filter in supply line.
3. Continuous bubbler flow.	a. Solenoid valve sticking. Clear obstruction or replace valve. b. Continuous light on sensor (no blinking) indicates sensor is sticking replace sensor.
4. Bubbler does not activate.	a. Check wiring harness. Replace if necessary. b. Check solenoid valve with 24 VAC. Replace If necessary. c. Replace sensor. d. Check transformer for 24 VAC at output terminals; replace if necessary.
5. Water too warm or cold.	a. Adjust chiller temperature control clockwise for colder.

SENSOR TROUBLESHOOTING GUIDE

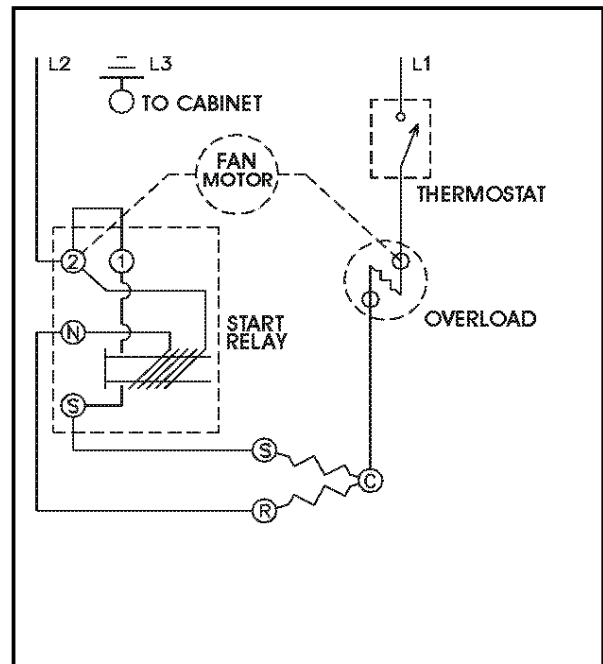
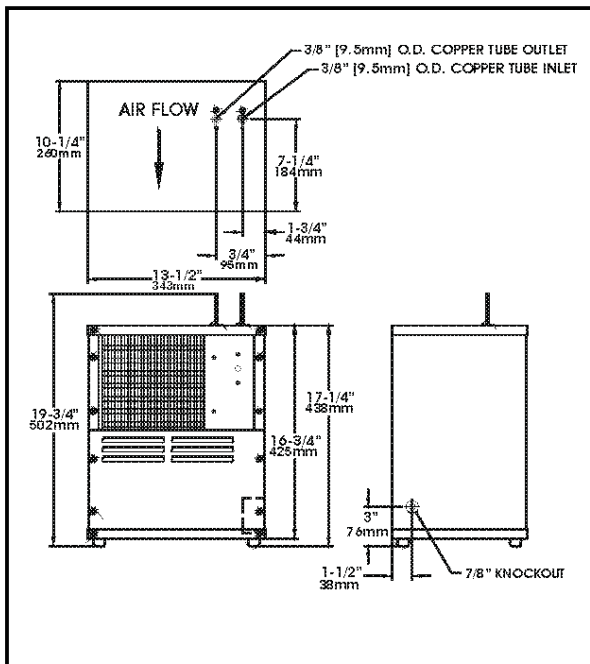
1. A loud click indicates when the solenoid valve is turned on. If valve clicks, but no water comes on make sure screwdriver stop is wide open. If valve clicks but still no water check valve or line for obstruction. If valve does not click when hand is placed a few inches in front of sensor, go on to next step. **DO NOT ATTEMPT TO DISASSEMBLE SENSOR; DAMAGE WILL RESULT.**
2. Using voltmeter, check for 24 VAC across the transformer terminals. Replace transformer if faulty.
3. Check solenoid valve. Voltage rating on valve top plate should be 24 VAC. Unplug sensor from wiring harness. Using a voltmeter, check for 24 VAC signal from wiring harness (use hand in front of sensor to activate). Replace solenoid valve if necessary.

Valve coil may be checked for continuity using an ohmmeter. Disconnect valve from wiring harness and sensor wires. Connect each valve lead to a meter lead. One meter should be plugged into meter ground socket and one should be plugged into socket marked "ohm". Coil resistance should be around 10-20 ohms. If resistance is near infinity or zero, solenoid coil is at fault. Coil may be easily replaced without disconnecting valve body from plumbing. Replace with new 24VAC rated coil.
4. Check wiring harness. If wiring harness appears to be hooked up correctly, disconnect harness from valve, sensor and power cord, then check harness for continuity using ohmmeter. Replace wiring harness if faulty.

Resistance between connectors attached to each other by wires should be near zero ohms. High resistance indicates a faulty connector or wire. There should be infinite resistance between separate (independent) legs of the wiring harness. Less than infinite resistance indicates a short or cross connection. If wiring harness has proper continuity and is hooked up properly, proceed to Step "5".
5. Check sensor. If Steps 2, 3, and 4 all check out okay, the sensor is probably the problem. The sensor acts pretty much like a simple relay or switch. The SCR (semiconductor relay) within the sensor will not fully switch without a 6 to 11 Watt load such as a solenoid valve or household light bulb. For this reason, a simple ohmmeter test on a good sensor, which is not connected to the proper load, will yield misleading results seemingly indicating improper function. Replace sensor if necessary.

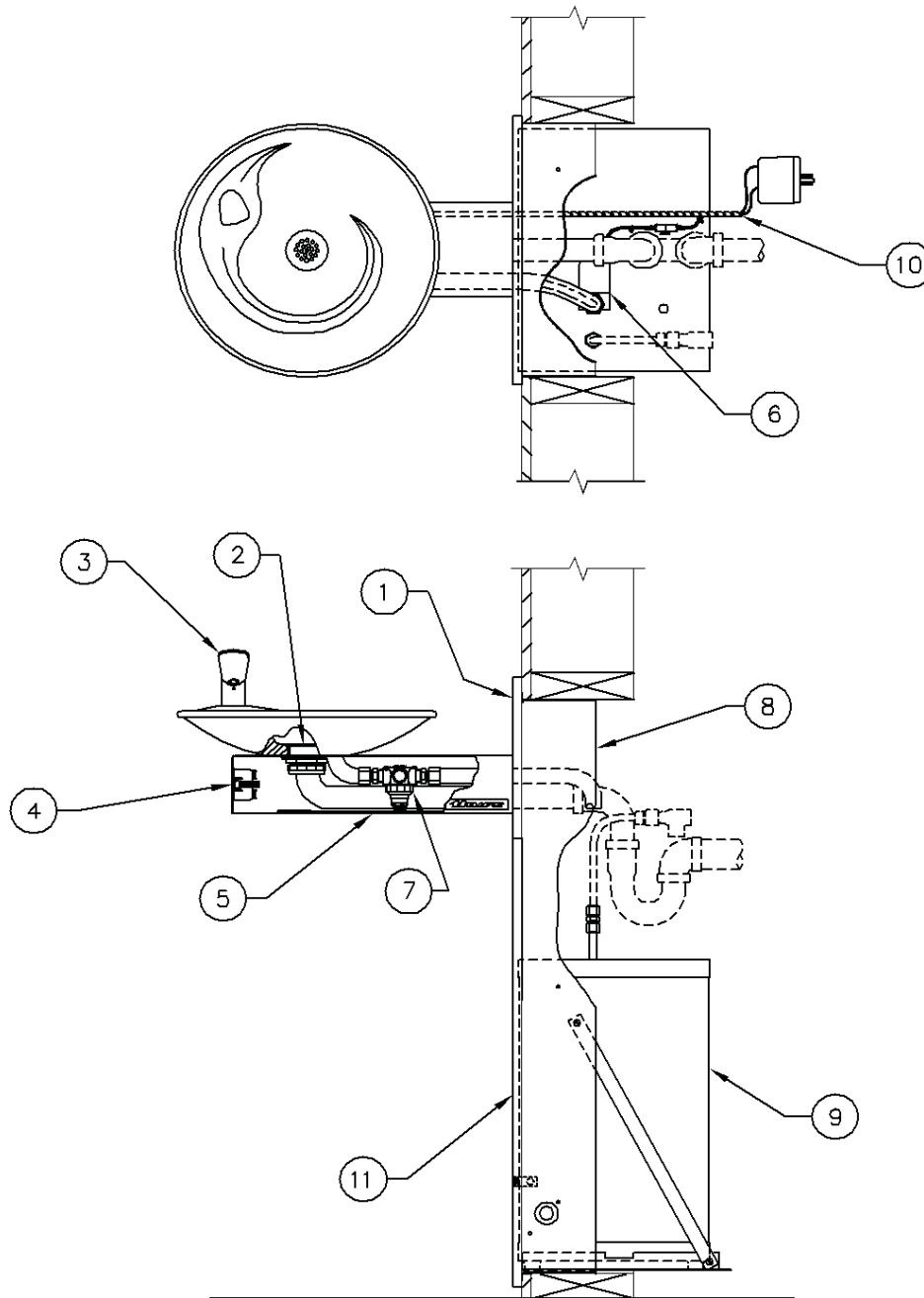
HCR8 REPLACEMENT PARTS

DESCRIPTION	PART NUMBER
Drier	0002080404
Fan Blade	0089005241
Compressor 115 Volt	0001715689
Relay 115 Volt	0004634911
Overload 115 Volt	0003973005
Compressor 220 Volt 50	AA00011
Relay 220 Volt 50	AA00011-T2
Overload 220 Volt 50	AA00011-T1
Thermostat	0005951371
Fan Motor 115 Volt	D036186-01
Fan Motor 220 Volt	0089005585
Condenser	0089006431
Wiring Harness	B154380
Evaporator Chiller	0089006490
Side Panels	D035942
Lower Front Panel	C026253



PARTS BREAKDOWN

ITEM	DESCRIPTION
1	BACK PANEL BP6
2	STRAINER ASSY 6463
3	HEAD W/LAMINAR INSERT 5705
4	DIFFUSE REFLECTIVE SENSOR VRKH01
5	ACCESS PLATE PBM1000
6	SOLENOID VRKH03
7	PRESSURE REGULATOR 5867
8	MOUNTING FRAME MTGFR.SM
9	CHILLER HCR8
10	WIRING HARNESS VRKH02
11	GRILLE 0002626701.8



**WHEN ORDERING
PARTS PLEASE
SPECIFY YOUR
MODEL NUMBER**

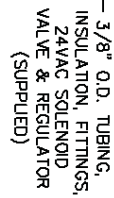


1455 KLEPPE LANE
SPARKS, NEVADA

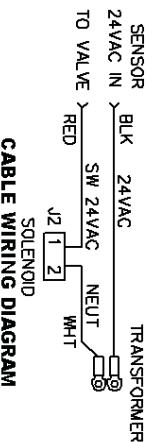
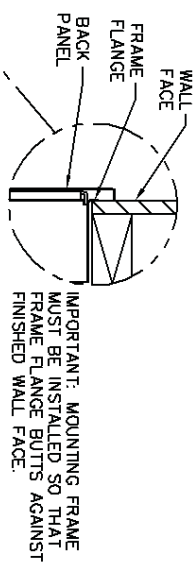
BACHWEG 3
CH3401 BURGDORF
SWITZERLAND

DRAWN BY: RTM	DATE: 10/20/00	CHECK BY:	APPROV BY:	SCALE: 1/5
TITLE: MODEL H1001.8HO			PART NUMBER: 0002080248	
DRAWING TYPE: PARTS BREAKDOWN			DRAWING NUMBER: 13366C00	
			REV. 10	

REV	DESCRIPTION	EON	DATE	BY/APVD
REVISIONS				



1. HOLD ROUGH-IN DIMENSIONS $\pm 1/8"$ (3.2mm).
2. WHEN INSTALLING THIS UNIT, LOCAL, STATE, OR FEDERAL CODES SHOULD BE ADHERED TO FOR INSTALLATION HEIGHTS OTHER THAN SHOWN.
3. **ALIGN HOLES IN CHILLER SUPPORT TRAY WITH HOLES IN FRAME CROSSPIECE AND FASTEN WITH #10 SHEETMETAL SCREWS.
4. REFER TO MTCFR-SM INSTALLATION DRAWING FOR ROUGH-IN DIMENSIONS.
5. INSERT 5/16"-18 PANEL INSERTS FROM OPPOSITE SIDE AT LOCATIONS SHOWN BY DARKENED HOLES.



BOWL MOUNTING PATTERN DETAIL

JD *hardware*

INFO FAX: 1-888-FAX-HAUNS (1-888-328-4287)
1455 Kleppe Ln, Fortu NV, 99431
Phone 775-533-4717, Fax 775-539-7424
Hwy 95, Box 2000, Gardnerville, NV 89415
e-mail: hardware@jdscc.com

DATE: 07/87
TITLE: DINNINING EQUIPMENT
MODE: H1001, H0141, H0000, BHD
INFO FAX DOC: F211001348
CITY: GARDNERVILLE, NV 89415
COUNTRY: USA
CITY: GARDNERVILLE, NV 89415
COUNTRY: USA

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