

T_f Touch Function Selector Technology

HWD-2105 TOD

Four user selectable temperatures - five gallon/hr
Temperature on Demand Hot Water Dispenser



NOTICE TO INSTALLER: Please leave this book with the machine.



Temperature On Demand US design patent applied for. Other Temperature On Demand US patents applied for.
FETCO®, is a trademark of Food Equipment Technologies Company.

FETCO® Temperature on Demand Hot Water Dispenser

Contact Information

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Description & Features

The following variables are adjustable:

Four selectable hot water dispense temperatures ---Water temperature selectable to 158°F/70°C to 204°F/96°C
English and Metric temperature ranges selectable
Maximum single dispense is 23ounces/700cc in 15 seconds maximum dispense time

Specifications

Standard Electrical Configurations-DOMESTIC & CANADA								
Configuration Code	Heater Configuration	Voltage	Phase	Wires	Plug	KW	Maximum Amp Draw	Gallons/Hour
H210510	1 X 1.44 kW	120	1	2+G	NEMA 5-15P	1.5	12.0	4.0 gallon*/15 liter
H210520	1 X 2.1 kW	120	1	2+G	NEMA 5-20P	2.2	17.5	5.7 gallon*/22 liter
Standard Electrical Configurations-DOMESTIC & SPECIALTY								
H210530	1 X 3.2 kW	200-240	1	2+G	NEMA 6-15P	2.3-3.3	11.2-13.3	6-8.7gallon*/22.7-33 liter
Electrical Configurations- EXPORT & CANADA								
H210530	1 X 3.2 kW	200-240	1	2+G	NEMA 6-15P	2.3-3.3	11.2-13.3	6-8.7gallon*/22.7-33 liter

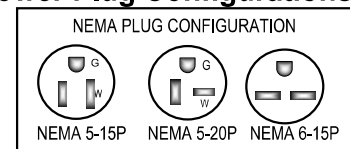
Temperature ranges selectable from 158°F/70°C to 204°F/96°C based on 207°F/97°C hot water tank temperature.
Temperature of dispensed hot water may vary up to 3 ½ % of displayed temperature selection.
*Gallon per hour flow rate based on 65-70°F 18-21°C water mains supply temperature at lowest possible power supply current.
Four selectable hot water dispense temperatures.
Selectable English and Metric temperature units. † For EXPORT, Cord without plug will be attached

Pressure: 40-75 psig, (276-517kPa)

Water Requirements: Minimum Flow Rate: 1½gpm (5.7lpm)

Water connection inlet: ¼ inch male flare fitting

Power Plug Configurations



Weights and Capacities

Dispenser Model	Weight (empty)	Water tank Capacity	Weight (filled)	High Inches/cm	Wide Inches/cm	Deep Inches/cm
Hot Water Dispenser HWD-2105 TOD	24 lbs/10.9kg	3.2 gallon/12 liter	50 lbs/22.7kg	24 1/2 in/62 cm	9 in/23 cm	18 1/2 in/47 cm

NEW TECHNOLOGICAL FEATURES

The FETCO hot water dispenser uses new t_f Touch Function Selector Technology to operate the hot water dispenser.

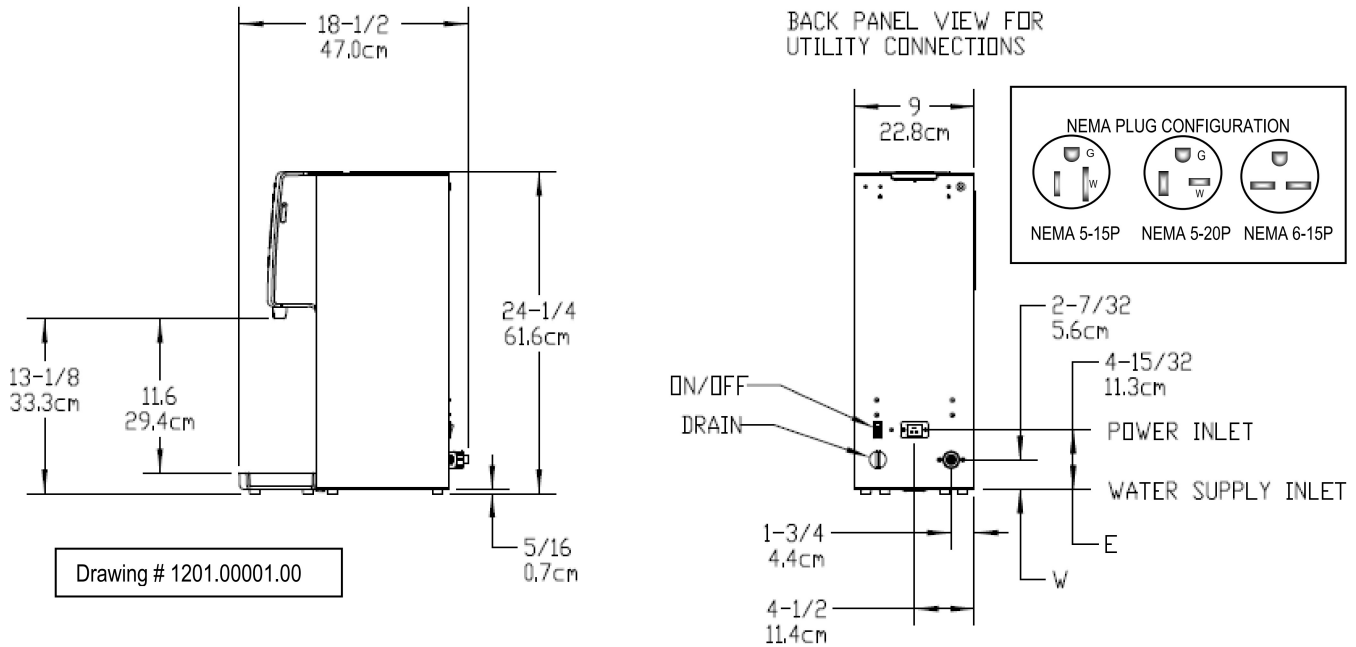
The t_f Touch Function Selector buttons (above and below display screen) alternately dim and brighten when selection is not active. Dispensing and Feature Selections activate when touched. The front panel is clean and uncluttered.

The display screen shows four temperature selections and the readiness status of each level.

Programming, display and error codes are interactive and more intuitive.

Float indicator is built into drip tray to help simplify maintenance and cleaning.

Dimensions & Utility Connections



Water inlet fitting: ¼ inch female pipe fitting

Installation

The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Utilize only qualified beverage equipment service technicians for installation. A Service Company Directory may be found on our website, <http://www.fetco.com>.

Setup

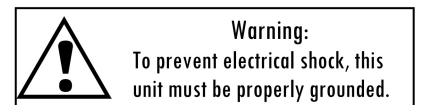
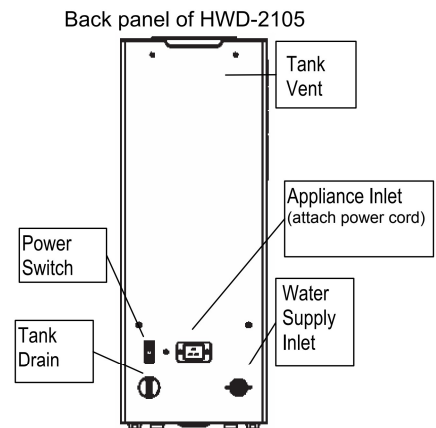
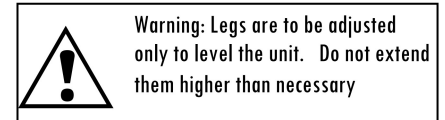
1. Before placing the unit, verify that it will fit in the space intended for it, and that the counter or table will support the weight of the HWD-2105 when filled.
2. When the unit is in position, use a bubble level to level it front to back and side to side by adjusting the legs.

Water Connection

1. Water inlet is a ¼ inch ¼ inch male flare fitting.
2. Install a shut off valve near the unit to facilitate service.
3. Install a backflow prevention device, a spring loaded double check valve such as a WATTS® SD-2 or SD-3, two models accepted by most zoning authorities. The check valve should be as close to the water supply inlet as possible.
4. An inline water filter is highly recommended. It should be installed after the water shutoff valve and in a position to facilitate filter replacement.
5. Flush the water supply line and filter **before** connecting it to the unit.
6. Verify that the water line provides at least 1½ gpm (5.7lpm), and that the water pressure is between 40-75 psig (276-517kPa). Use cold water only.

Electrical Connection

1. Check serial number plate for the maximum wattage and verify that the actual voltage at the electrical outlet is compatible with the unit's specifications.
2. Plug unit in. Note that the plug is NEMA 5-15P or NEMA 5-20P (domestic).
3. The temperature and water tank fill level are pre-set at the factory and there is no need to turn off the heater during the installation process. The heating process will start automatically when the tank is filled enough to cover the heating element



WARNING-Do not plug in this equipment or attempt to operate without all covers in place and all screws fastened.

Final Setup-Fill and Initial Heating

1. Turn on the incoming water supply line and inspect both inside and outside of the unit for leaks in all fittings and tubes.
2. Plug the unit into the appropriate electrical outlet.
3. Turn on the unit's main power switch (located on the back).
Screen one-the FETCO Home Screen will display.
4. Within 6 seconds, the water tank will begin filling until tank probe senses water
Screen two, the "FILLING" will display.
5. Water will cover heating element or when tank water is heating from cold,
Screen three-the "HEATING" Screen will display.
The upper and lower "Touch Function Selector" will not light.
6. After the water has reached the lowest of the four set temperatures, the lower "Touch Function Selector" will light red color to signal that at least one temperature range is READY
(The touch selector buttons will alternately dim and brighten when selection is not active)
7. The display will read the four temperature settings as the tank temperature rises. More detailed operation information follows
8. The upper "Touch Function Selector" will light if one or more temperature level is available during heating
9. Re- inspect for leaks.

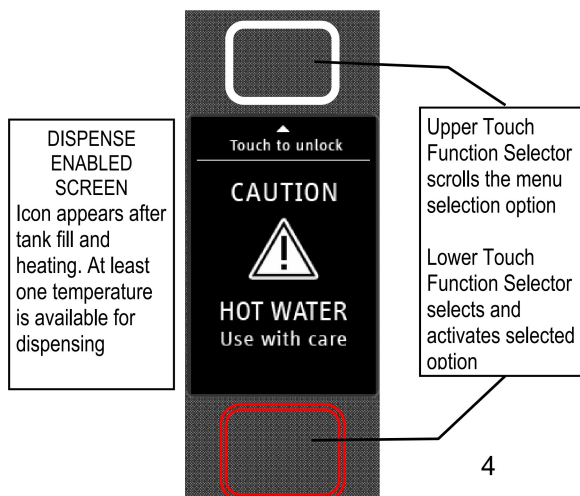
Operating Instructions

1. Turn the main power switch on.
2. Touch the upper "Touch Function Selector", tapping finger to scroll to select
3. When a temperature is enlarged and brightened - that temperature is available.
Touch the lower red selector to dispense hot water.
4. Maximum continuous "ON" is fifteen (15) seconds in a single activating touch
5. Maximum dispense is approximately 20 ounce/600 milliliter.
Approximately three full 15 second batches may be dispensed in succession.
6. Unit returns to inactive "Enabled Screen" if no water is dispensed in 3 seconds
7. Steam and condensation from the water tank is released into the vent whenever the unit is on. Access the vent barbed fitting located on the upper back to run gravity drain. For venting to a drain, tubing requirement is ¼" I.D. (To prevent vacuum backflow, do not place discharge end of vent drain tube into drain sump)

Operator Training

Review the operating procedures with everyone who will be using the unit.
Pay particular attention to the following areas:

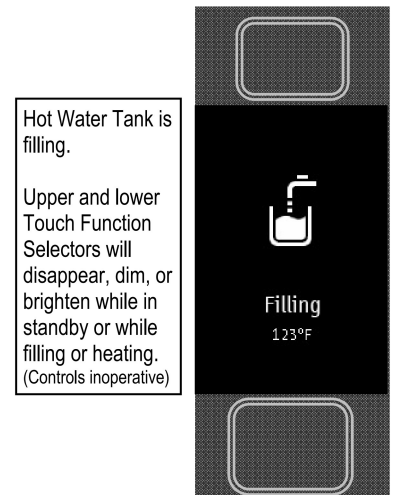
1. Selecting and dispensing water at all four levels
2. How to change temperature settings (See page 7)
3. Scrolling and selecting temperatures and operating the hot water faucet.
Pay particular attention to the safety warnings. (See page 6 & 7)
4. Refer to cleaning procedures and drip tray, listed on the following page.
5. Show the location of the on/off switch, water shut off valve and the utility power supply circuit breaker for the unit. (See page 3)



The three primary screens for HWD-2105 start up



Above-Screen One-FETCO Home Screen
Below-Screen Two-HWD Status Screen



Above-Screen Three-HWD Status Screen

Operating Principles

The dispense valve assembly mixes very hot tank water with cooler water to deliver precision temperature water at selected temperatures.

When hot water is drawn from the faucet, the fill valve pulses on and off every few seconds to replenish the tank.

By controlling the flow of incoming water, the amount of cold water entering the tank is synchronized with the rate at which the water can be heated. This ensures an uninterrupted supply of hot water.

When dispensing water at a rate that exceeds the unit's capacity to heat, the screen will show that the temperature is not available.

If hot water tank supply is depleted during high use, faucet will temporary "lockout" to allow the hot water tank to reheat for an adequate hot water supply. The "HEATING" screen will display at this time.

Cleaning & Maintenance

Daily:

- Check the drip tray and empty if necessary. An indicator pop-up center button rises when full.

Quarterly:

- Inspect all fittings and hoses for leaks.
- Inspect inside of tank for lime deposits. De-lime tank and probes if necessary. This procedure should be performed by a qualified service technician

Notice:

- Turn off power to the HWD-2105 before any cleaning procedure, including wiping the exterior for appearance reasons. Dry the exterior, especially the face panel, before turning on power.

WARNING:

- Do not apply any type of spray cleaner on the face panel of this equipment.
- Never use any solvent based cleaner or polish on this equipment.
- Dry the face of the HWD-2105 before turning on power.
- WARNING-Do not energize this equipment or attempt to operate without all covers in place and all screws fastened.

Tank Drain

The water tank must be drained before maintenance procedures, and when the unit is to be relocated or shipped.

1. Disconnect power to the unit.
2. Move the unit near a sink or obtain a container to large enough to hold four gallons of water.
3. Remove the tank cover and allow the tank to cool to a safe temperature.
4. The tank drain is located on the back of the unit. Turn the drain plug one-quarter turn in either direction.
5. Pull the plug out far enough to expose the silicone tube.
6. Using pliers loosen the hose clamp and move it back over the tube.
7. Crimp the tube an inch or two away from the drain plug to prevent water from flowing.
8. Use the other hand to pull the drain plug out of the tube.
9. Release the crimped tube and allow the water to flow into the sink or container.

Control and Operational Screens

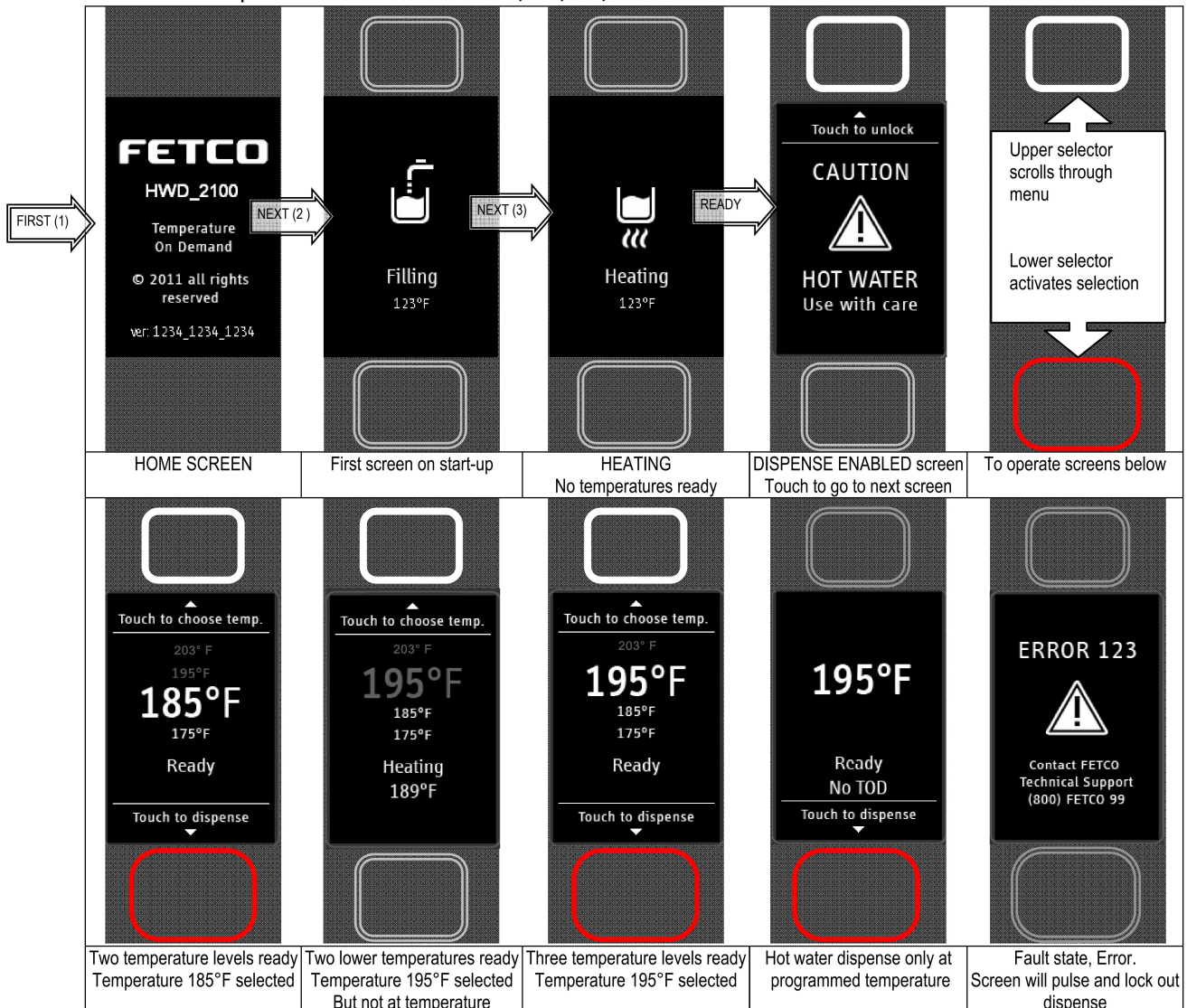
The FETCO® Temperature on Demand Hot Water Dispenser uses a digital display screen and two illuminated touch pads to control the selection and actuation of on-off functions.

The two upper and lower pads are lighted when ready, and may alternately brighten and dim.

Touch upper (white) pad to scroll & select action.

Touch lower (red) pad to perform action.

- On start-up the “HOME SCREEN” screen will light for two to three (2-3) seconds
- “FILLING” screen will display during tank fill-followed by the “HEATING” screen when tank is full.
- “DISPENSE ENABLED SCREEN” will display after proper hot water tank temperature is achieved
- Touch the upper (white) selector pad to scroll through temperatures and select desired temperature
- Touch **and hold** lower (red) pad to dispense selected water temperature.
- After three (3) seconds inactivity -screen returns to display “DISPENSE ENABLED SCREEN”.
- Default temperature settings are **(203°F, 195°F, 185°F,175°F)**. **203°F is T1, 195°F=T2, 185°F=T3,175°F=T4.**
- Temperatures are set in the programming menus. See the “PROGRAM” screens in following section
- Highest temperature starts at T1.
- “DEFAULT” is the temperature that will be highlighted for first selection.
- “TLast” is last selected temperature highlighted that will remain for next dispense first selection
- “DEFAULT” temperature can be set for **T1, T2, T3, T4 or TLAST.**



Programming and diagnostic screens

To enter Programming and Diagnostics

Turn power switch on lower back of unit "OFF"

Turn power switch "ON" and during first screen display touch lower (red) pad to activate (Within two seconds)

The First Programming screen "PROGRAM" will display. Shown are the default settings programmed into the equipment.

Touch upper "Touch Function Selector" to scroll through the programming lines. The lower selector saves the selection

Touch lower (red) pad-tapping with finger repeatedly to scroll through the screens and active outputs.

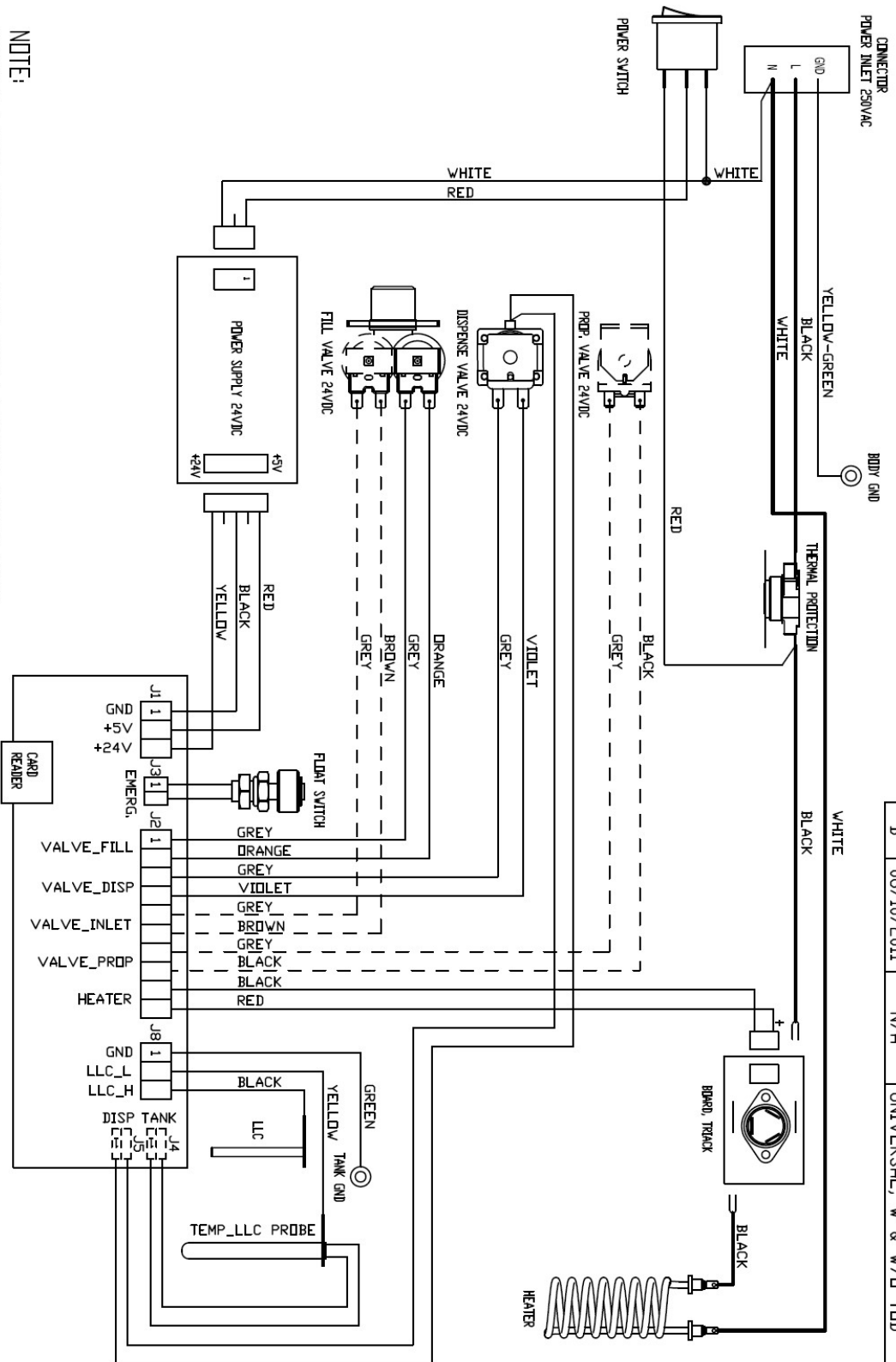
Setting **as displayed** is saved when exit is selected.

Default settings for FETCO® HWD-2105 Temperature on Demand Hot Water Dispenser

<p>PROGRAM Degr. C/F: °F T4 205 °F T3 195 °F T2 185 °F T1 175 °F Default: EXIT</p>	<p>INPUT Tank T: 207 °F Dispense T: 205 °F ■ High LLP ■ Low LLP □ Float Switch KEY White Red EXIT</p>	<p>OUTPUT □ Water valve - tank □ Water valve - prop. □ Dispense valve □ Prop. valve □ Heaters Brightness: 100% Contrast: 100% EXIT</p>	<p>OTHER Error codes: 000_000_201 Reset Error codes Reset to Factory def. Software version: 0510 0102 1122 Software update EXIT</p>	<p>Chart to correct for boiling point for altitude in tank water temperature. See INPUT Screen</p> <table border="1"> <thead> <tr> <th>Altitude (ft.)</th> <th>Suggested Setting(°F)</th> <th>Boiling point (° F)</th> </tr> </thead> <tbody> <tr><td>-500</td><td>207</td><td>212.9</td></tr> <tr><td>0</td><td>207</td><td>212.0</td></tr> <tr><td>500</td><td>207</td><td>211.1</td></tr> <tr><td>1000</td><td>205</td><td>210.2</td></tr> <tr><td>2000</td><td>204</td><td>208.4</td></tr> <tr><td>2500</td><td>203</td><td>207.5</td></tr> <tr><td>3000</td><td>200</td><td>206.6</td></tr> <tr><td>3500</td><td>197</td><td>205.7</td></tr> <tr><td>4000</td><td>195</td><td>204.8</td></tr> <tr><td>4500</td><td>194</td><td>203.9</td></tr> <tr><td>5000</td><td>194</td><td>203.0</td></tr> <tr><td>5500</td><td>193</td><td>202.0</td></tr> <tr><td>6000</td><td>192</td><td>201.1</td></tr> <tr><td>6500</td><td>191</td><td>200.2</td></tr> <tr><td>7000</td><td>190</td><td>199.3</td></tr> <tr><td>7500</td><td>188</td><td>198.3</td></tr> <tr><td>8000</td><td>187</td><td>197.4</td></tr> </tbody> </table>	Altitude (ft.)	Suggested Setting(°F)	Boiling point (° F)	-500	207	212.9	0	207	212.0	500	207	211.1	1000	205	210.2	2000	204	208.4	2500	203	207.5	3000	200	206.6	3500	197	205.7	4000	195	204.8	4500	194	203.9	5000	194	203.0	5500	193	202.0	6000	192	201.1	6500	191	200.2	7000	190	199.3	7500	188	198.3	8000	187	197.4
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<p>Main Programming Screen- Select °F or °C temperature units, dispense and the four temperature positions. Tank temperature can be set to correct for high altitude and other reasons. Hot water tank temperature (not dispense temp.) selectable to 179°-207°F/82-97°C</p>	<p>Internal tank functions Internal tank functions Verify probe readings for tank temperature, dispense valve sensor temperature and water level sensors. Show status of liquid level probes for tank water level. Touch pad verification (instructions in following section)</p>	<p>Output TOD functions And test points Service function check for valves and heater. Will activate for 2-3 seconds</p>	<p>Internal Programming Error Codes, Reset, Service technician error report for fault and software diagnostics and upgrade</p>																																																							

<p>OTHER Error codes: 000 000 201 Reset Error codes Reset to Factory def. Software version: 0510 0102 1122 Software update EXIT</p>	<p align="center">Error Code Screen</p> <p>Error codes are cleared by selecting the "OTHER" screen. Scroll and press the upper control to "Reset Error Codes". Press the lower selector to clear.</p> <p>Error codes</p> <table border="0"> <tr><td>050</td><td>Shorted temperature probe - tank</td></tr> <tr><td>051</td><td>Open temperature probe - tank</td></tr> <tr><td>052</td><td>Outlet temperature sensor shorted</td></tr> <tr><td>053</td><td>Outlet temperature sensor open</td></tr> <tr><td>100</td><td>Initial fill error (not filled in 6 minutes after power up)</td></tr> <tr><td>101</td><td>Error on refill (The tank has not refilled in 1 minutes- Possibly faulty solenoid or issue with the water line)</td></tr> <tr><td>102</td><td>Unwanted fill (Possibly tank or internal leak)</td></tr> <tr><td>103</td><td>Overflow error (float switch activated)</td></tr> <tr><td>104</td><td>Lower (longer) liquid level probe fault</td></tr> <tr><td>105</td><td>Upper (shorter) liquid level probe fault</td></tr> <tr><td>200</td><td>Flat line temperature</td></tr> <tr><td>201</td><td>Heater open (heater or triac failure)</td></tr> </table>	050	Shorted temperature probe - tank	051	Open temperature probe - tank	052	Outlet temperature sensor shorted	053	Outlet temperature sensor open	100	Initial fill error (not filled in 6 minutes after power up)	101	Error on refill (The tank has not refilled in 1 minutes- Possibly faulty solenoid or issue with the water line)	102	Unwanted fill (Possibly tank or internal leak)	103	Overflow error (float switch activated)	104	Lower (longer) liquid level probe fault	105	Upper (shorter) liquid level probe fault	200	Flat line temperature	201	Heater open (heater or triac failure)
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<p>INPUT Tank T: 207°F Dispense T: 207°F High LLP □ Low LLP □ Float Switch □ KEY White 331-331 ■ Red 241-241 □ EXIT</p>	<p align="center">Touch pad function test</p> <p>Verifies and tests the upper and lower touch pads for proper sensitivity. Use after servicing, if covers are removed to check functionality of the touch pad When selected - the indicator will display the key being touched.</p> <p>The example to the right shows the UPPER -White key is active.</p> <p>Touching the LOWER-Red pad will highlight the red key marker</p> <p>Circuit logic digits may display variable number. Used for manufacturing</p>																								

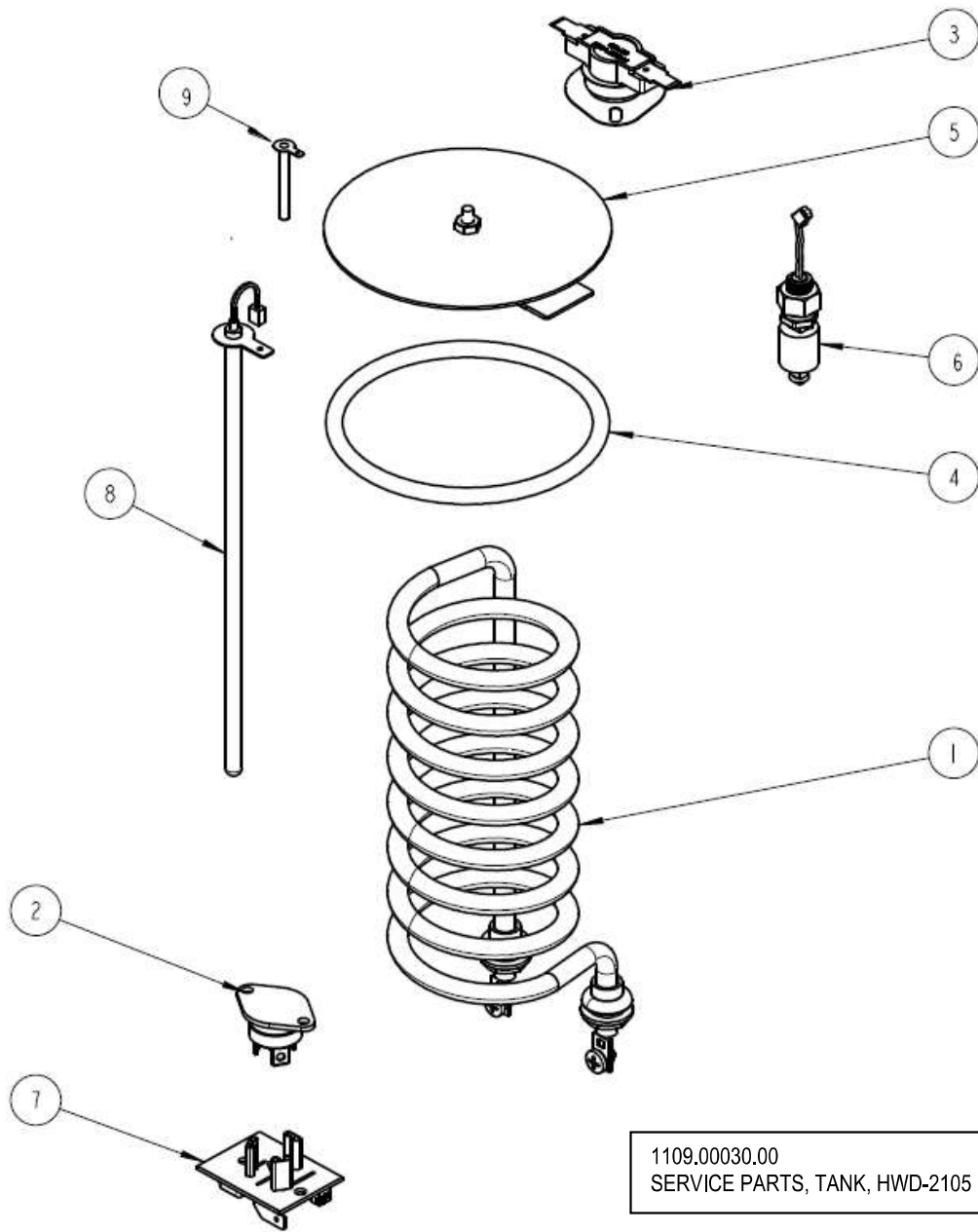
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REV	DATE	ECD NO	DESCRIPTION		
A	02/08/2011	N/A	ORIGINAL		AG
B	06/10/2011	N/A	UNIVERSAL, W & W/D TODD		AG



NOTE:
 DASHED LINES INDICATE NON TOD VERSION WHICH USES
 SINGLE VALVE AND NO PROPORTIONAL VALVE, DASHED WIRES
 IN THE ELECTRICAL HARNESS ARE NOT USED

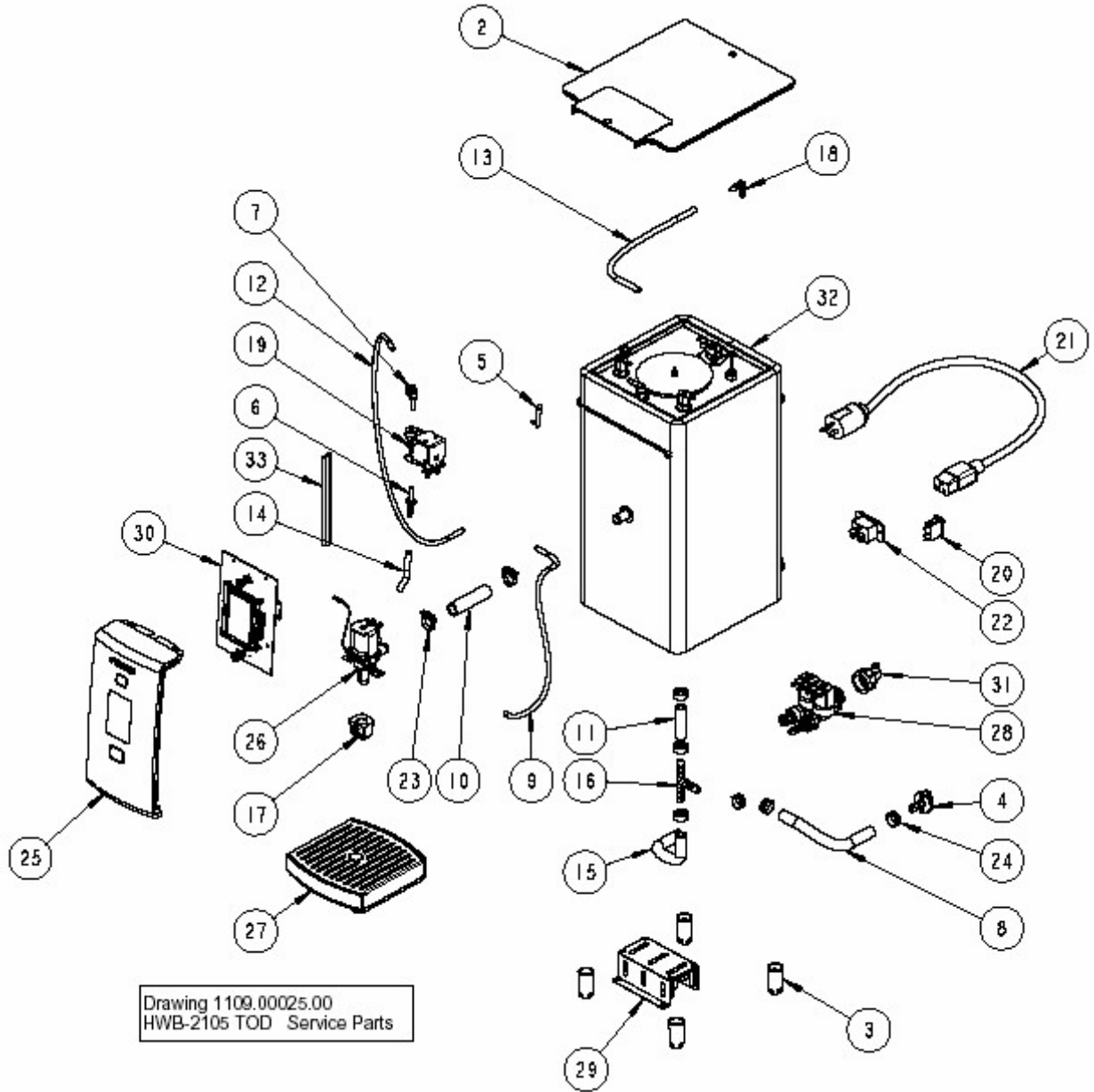
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TOLERANCES		REVISITONS		DRAWING NO.	
EXCEPT AS NOTED	NG	DATE	BY	1401.00027.00	
DECIMAL	A	02-08-2011	AG	DRAWING NO. N/A	
FRACTIONAL	B	06-10-2011	AG	SCALE N/A	
ANGULAR	C			SIZE A	
	D			MATERIAL N/A	
	E			DRAWING NO. 1401.00027.00	



1109.00030.00
SERVICE PARTS, TANK, HWD-2105

PARTS LIST FOR HWD-2105 With TOD Hot Water Tank Drawing 1104.00018.00			
ITEM#	PART#	DESCRIPTION	QTY
1	1107.00008.00	HEATER ASSEMBLY, IMMERSION 2100W/120VAC	1
1	1107.00014.00	HEATER ASSEMBLY, IMMERSION 1440W/120VAC	1
1	1107.00015.00	HEATER ASSEMBLY, IMMERSION 3200W/200-230VAC EXPORT	1
2	1059.00001.00	TRIAC 40A, 600V	1
3	1053.00004.00	THERMOSTAT, SINGLE SHOT, 25A	1
4	1024.00007.00	O-RING, DASH #344, TANK COVER	1
5	1102.00007.00	TANK COVER ASSEMBLY	1
6	1054.00006.00	FILL SENSOR, HWD TOD	1
7	1051.00016.00	BOARD, TRIAC DRIVE WITH RC FILTER	1
8	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, HWD-2105	1
9	1112.00019.00	PROBE WELDMENT, WATER LEVEL 2.600" LG	1



Drawing 1109.00025.00
 HWB-2105 TOD Service Parts

PARTS LIST FOR HWD-2105 With TOD Service Parts Drawing 1109.00025.00			
ITEM NO	PART NO	DESCRIPTION	QTY
2	1023.00131.00	TOP COVER HWD-2105	1
3	1023.00136.00	LEG HWD-2100	4
4	1023.00147.00	PLUG, TANK SERVICE DRAIN for 18GA AND UP BODY	1
5	1024.00040.00	CARD PLUG, HWD-2100	1
6	1025.00029.00	FITTING, 1/4" X 1/4" TUBE TO HOSE STEM CONNECTOR	1
7	1025.00032.00	FITTING, 1/4" X 1/4" STEM ELBOW	1
8	1025.00039.00	TUBE, 5/8" OD X 3/8" ID X 10" LG, DRAIN	1
9	1025.00040.00	TUBE, 1/4" OD X .125" ID X 16" LG, VENT	1
10	1025.00041.00	TUBE, 3/4" OD X 1/2" ID X 2.75" LG, DISPENSE	1
11	1025.00042.00	TUBE, 5/8" OD X 3/8" ID X 2" LG, BOTTOM TANK	1
12	1025.00043.00	TUBE, .25" OD X .04" WALL X 26" LG, INLET PROP VALVE	1
13	1025.00044.00	TUBE, SILICONE, 5/16" OD X 3/16" ID X 10.5" LG, TANK VENT	1
14	1025.00045.00	TUBE, 5/16" OD X 3/16" ID X 2.5" LG, PROP VALVE	1
15	1025.00046.00	TUBE, 5/8" OD X 3/8" ID X 5.0" LG, DOUBLE VALVE	1
16	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON	1
17	1029.00017.00	FAUCET, SILICONE, HWD-2100	1
18	1029.00023.00	FITTING, SINGLE BARBED ELBOW, 1/4", KYNAR	1
19	1057.00036.00	VALVE ASSEMBLY, SINGLE COIL PROPORTIONAL 24 VDC	1
20	1058.00020.00	SWITCH, POWER ROCKER RED, ILLUMINATED 250V	1
21	1063.00001.00	CORD, POWER, IEC-320-19, 20A/125VAC	1
21	1063.00002.00	CORD, POWER, IEC-320-19, 15A/125VAC	1
22	1065.00001.00	CONNECTOR, IEC POWER EN60320 C20, 0722 SERIES	1
23	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON	2
24	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP	7
25	1102.00153.00	FRONT PANEL TOP, ASSEMBLY HWD-2100	1
26	1102.00155.00	DISPENSE VALVE ASSEMBLY, HWD-2100 TOD	1
27	1102.00156.00	DRIP TRAY ASSEMBLY, HWD-2100	1
28	1102.00158.00	VALVE ASSEMBLY, COLD WATER, HWD-2100 TOD	1
29	1102.00159.00	POWER SUPPLY ASSEMBLY, HWD-2100	1
30	1102.00160.00	BOARD AND DISPLAY ASSEMBLY, HWD-2100	1
31	1102.00164.00	ADAPTER ASSEMBLY, 3/4" BSP X 1/4 SAE FLARE	1
32	1104.00018.00	TANK ASSEMBLY, 2100W /120V, HWD-2105	1
32	1104.00031.00	TANK ASSEMBLY, 1440W /120V, HWD-2105	1
32	1104.00032.00	TANK ASSEMBLY, 3200W /200-230V, HWD-2105	1
33	1402.00020.00	HARNESS, UNIVERSAL, HWD-2105	1

