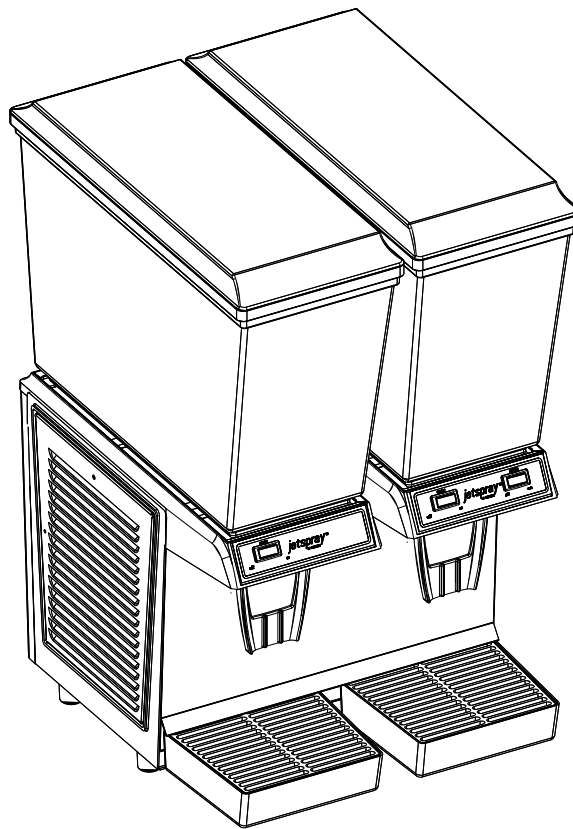


VISUAL DISPLAY DISPENSER

OWNERS MANUAL

MODEL: JT20, JT20-W25, JT20-W26



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This document contains the original instructions for the unit described.

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SAFETY INSTRUCTIONS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Safety Overview

- Read and follow **ALL SAFETY INSTRUCTIONS** in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).
- Read and understand ALL applicable OSHA (Occupational Safety and Health Administration) safety regulations before operating this unit.

Recognition

Recognize Safety Alerts



This is the safety alert symbol. When you see it in this manual or on the unit, be alert to the potential of personal injury or damage to the unit.

DIFFERENT TYPES OF ALERTS



DANGER:

Indicates an immediate hazardous situation, which if not avoided, **WILL** result in serious injury, death or equipment damage.



WARNING:

Indicates a potentially hazardous situation, which if not avoided, **COULD** result in serious injury, death, or equipment damage.



CAUTION:

Indicates a potentially hazardous situation, which if not avoided, **MAY** result in minor or moderate injury or equipment damage.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls properly.
- **Do not** let anyone operate the unit without proper training. This appliance is **not** intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

QUALIFIED SERVICE PERSONNEL



WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. **ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY, DEATH OR EQUIPMENT DAMAGE.**

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

 **WARNING:**

Disconnect power to the unit before servicing following all lock out/tag out procedures established by the user. Verify all of the power is off to the unit before any work is performed.

Failure to disconnect the power could result in serious injury, death or equipment damage.

 **CAUTION:**

Always be sure to keep area around the unit clean and free of clutter. Failure to keep this area clean may result in injury or equipment damage.

SHIPPING AND STORAGE

 **CAUTION:**

Before shipping, storing, or relocating the unit, the unit must be sanitized and all sanitizing solution must be drained from the system. A freezing ambient environment will cause residual sanitizing solution or water remaining inside the unit to freeze resulting in damage to internal components.

GENERAL DESCRIPTION

The JT20 dispenser is a counter top visual display action beverage dispenser. It is designed to dispense a variety of products.

**WARNING:**

This appliance should be earthed. This appliance is not suitable for use by unsupervised children.

LOCATION

Place the dispenser on a solid, level surface with no part of the unit extending beyond the edge of that surface.

POWER

The **JT20** requires a 120 Volt, 60Hz grounded receptacle for the unit's power cord.

The **JT20-W25** requires a 230 Volt, 50Hz earthed receptacle for the unit's power cord.

The **JT20-W26** requires a 208/230 Volt, 60Hz earthed receptacle for the unit's power cord plug.

NOTE: If the colors of the wires in the main leads of this appliance do not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The green and yellow wire must be connected to the terminal in the plug marked with any of the following:

- The letter E.
- The earth symbol.
- Colored Green.
- Colored both Green and Yellow.

The blue wire must be connected to the terminal in the plug marked with the letter N or colored blue.

The brown wire must be connected to the terminal in the plug marked with the letter L or colored orange.

POWER CORD

**CAUTION:**

If a power cord is damaged, do not attempt to replace it. Take your unit to your nearest authorized service center as a special tool is required.

OPERATING ADJUSTMENTS

**WARNING:**

Dangerous voltages are still present within the unit even if the power switch is turned off. Before attempting any adjustments inside the unit, turn the unit off and unplug it from the electrical receptacle.

- Attention is drawn to the requirements of National Regulation about connecting to and using Potable water supplies.
- Jet Spray dispensers conform to the requirements of the Model Water Bylaws of 1986 SI 1147.
- All surfaces which come into contact with food or drinking water are constructed of food quality non-toxic materials, which are non-corrosive, non-tainting and do not support the growth of bacteria.

SPECIFICATIONS

ELECTRICAL

Model	P/N	Electrical Supply	RLA*	Running Power	LRA*
JT20	621058565	120 VAC, 60Hz	3.65 AMPS	440 Watts	29 AMPS
JT20-W25	A8430	230 VAC, 50Hz	2.3 AMPS	530 Watts	11 AMPS
JT20-W26	A8450	220 VAC, 60Hz	3.3 AMPS	726 Watts	14 AMPS

*RLA - Running Load Amperage.

*LRA - Locked Rotor Amperage (compressor starting amperage).

Class of Windings

Compressor Motor - Motor Type: RSIR

ENVIRONMENT

Temperature

Operating: 60°F (16°C) to 90°F (32°C).

Storage: Above -20°F (-7°C) with bowl empty & dry.

Humidity - Below 95%

NOTE: The unit will "operate" at 110°F (43°C), but it does not guarantee beverages to be under company's specifications.

REFRIGERATION (R134A REFRIGERANT)

Model	Charge Quantity
JT20	144 grams
JT20-W25	128 grams
JT20-W26	144 grams

WEIGHT

Type	Net Weight	Shipping Weight	Carton Cube
Base Only	51 lbs (23.1 kg)	61 lbs (27.3 kg)	4.8 cu. ft. (.14 cu. m.)
Small Bowl	5 lbs (2.3 kg)	8 lbs (3.6 kg)	1.4 cu. ft. (.04 cu. m.)
Large Bowl	7 lbs (3.2 kg)	10 lbs (4.7 kg)	1.7 cu. ft. (.05 cu. m.)

OTHER SPECIFICATIONS

Power Cord	7 ft with ground connection (2.1 meters)
Size	16" wide X 19" long X 26" high
	40.6 cm wide X 48.3 cm long X 67.7 cm high
Beverage Bowl & Cover	Transparent, virtually unbreakable LEXAN® resin.
Cabinet	Stainless steel and beige LEXAN® resin.
Capacity	Over 10 U.S. gallon, 40 litres.
	Over 6 U.S. gallons, 24 litres
Refrigeration	Jet Spray 1/5 h.p. hermetically sealed system.
Spray Drive and Fan Motor	No oiling required
Power Drive Magnet	Permanent INDOX magnet.

INSTALLATION AND OPERATING INSTRUCTIONS

SETTING UP YOUR JT20

- Set dispenser chassis in desired location. Dispenser should be level and located on a solid counter.
- Be sure dispenser has adequate free space on both sides, approximately 3" away from any wall or obstruction.
- Be sure top cover of dispenser is free from objects.

CLEANING THE DISPENSER

- Removing the Push Handles (see Fig 1)

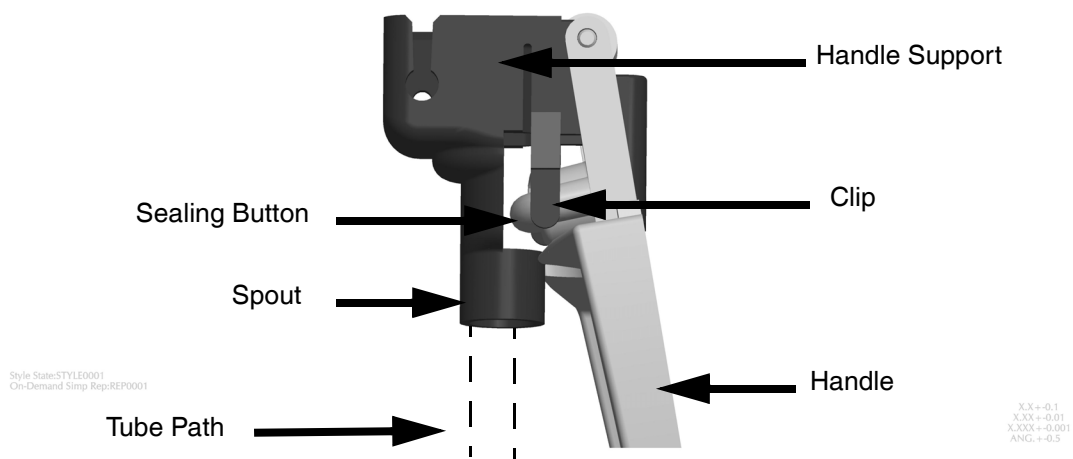


Figure 1.

- Push handle back until it stops.
- Grasp clips on handle. Squeeze clips until they are free from panel. Pull straight down on handle.
- Disassemble the bowl, lid, gasket and pump housing assemblies.

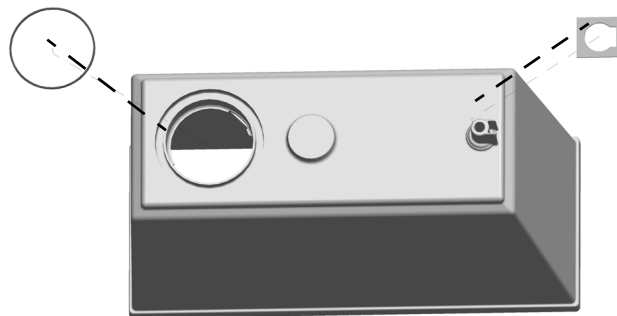
NOTE: To remove pump housing, push back on top of housing just below spray tube and lift up and out of bowl. Clean in warm water and mild nonabrasive detergent and rinse thoroughly.

⚠ WARNING:
Abrasive cleaners will scratch plastic parts.

ASSEMBLING THE DISPENSER

1. Slide the drip tray with grille into place.
2. Consider installation of a drain hose which connects to outlet on drip tray bottom (Part No. 18747001).
3. Turn bowl upside down and insert gasket into groove. Wet gasket for ease of insertion, pressing gasket into groove while following numbers (see Fig. 2).

Press until the gasket is completely sealed



Bowl Spout Gasket

Figure 2.

4. Install bowl spout gasket.
5. Lock pump housing in bowl by pushing housing straight into bowl location until it snaps into position. Press down on top of the impeller section to assure it is down all the way into well section (see Fig. 3).



Figure 3.

NOTE: If a bowl circulator kit is used in place of the pump housing assembly, see Changing the Bowl in Page 10 for assembly.

6. Lock spray tube in by pushing down in opening, then rotate clockwise. Correctly installed, tube will face front of bowl (see Fig. 4).



Figure 4.

7. Slide bowl over the cooling tubes and assemble the bowl to the dispenser. Be careful not to wrinkle gasket as it will result in beverage leaking out of bowl (see Fig. 5).



Figure 5.

8. Push down on pump housing to make sure it is in position.
9. Replacing push handle assembly and pinch tube.
 - a. Push handle assembly straight through rectangular hole until clips snap into place (see Fig 6).

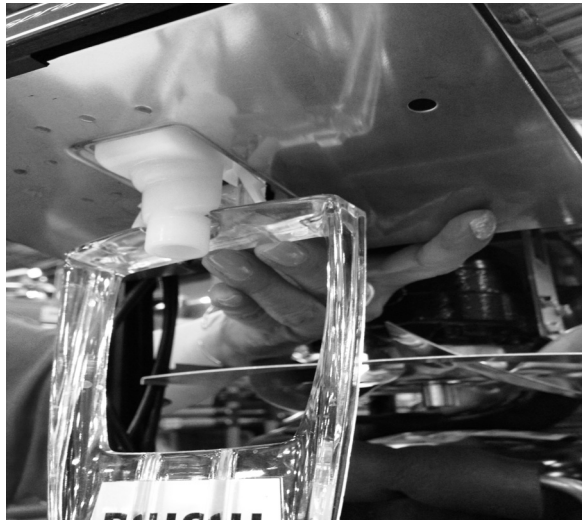


Figure 6.

- b. Remove pinch tube from plastic bag and wash.
- c. Before installing, wet the bowl spout surface and pinch tube. Push back handle until it stops.
- d. Carefully insert pinch tube into bowl spout opening and on into lower opening of handle support spout. Make sure end of tube does not get caught on edge above handle support spout opening, pull end of tube for final seating into bowl spout seat. Make sure tube is free of wrinkles and extends below support spout above $\frac{1}{4}$ inch (see Fig 7)



Figure 7.

OPERATING PROCEDURES

1. Follow beverage manufacturer's directions in filling bowls. To aid in filling, the bowls have gallon and liter markers up the center of the front wall -- gallons on left, liters on right.
2. Turn on the refrigeration and spray switches. Product should be cold enough to serve in 2 hours. Switches should be left "ON" 24 hours a day to ensure efficient operation.

NOTE: If unit is to be used to dispense beverage from only one bowl, use right hand bowl, but add a gallon of water to left bowl to assure proper cooling.

3. The thermostat is preset at the factory and will not normally require resetting by owner.

FREQUENT MAINTENANCE PROCEDURES

CLEANING THE BOWLS

1. Before removing the bowls, turn off both the refrigeration and spray switch. Unplug unit from power source.
2. Drain beverage from bowls.
3. Remove pinch tube by pushing handle until it stops. Pull up on pinch tube until it is free, then remove handle (see Page 8). Lift off bowls, drip trays, and covers and clean.
4. Clean as described in "Cleaning the Dispenser" (Page 6).
5. After cleaning, assemble as described in "Assembling the Dispenser" (Page 6). Replace push handle, and insert pinch tube into bowls.

CLEANING CONDENSATE DRAINS

1. To remove condensation drains, push in on front panel just under drain and pull down with fingers (see Fig. 8).



Figure 8.

2. To replace condensation drains, hold drain against front panel under rectangular hole (opening in side of drain should be toward front panel). Push up through hole until drain snaps into place (see Fig 9).

Towards Front
Panel

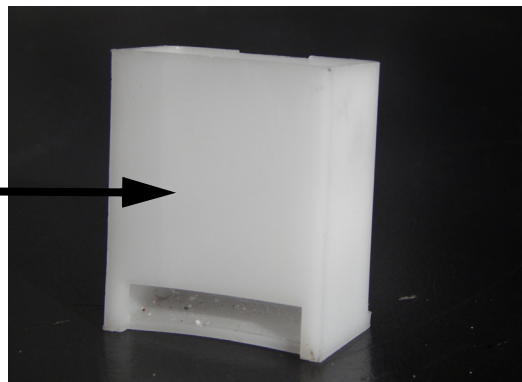


Figure 9.

SANITIZING UNIT

After cleaning, add one gallon of water between 75°F and 100°F to bowl. Mix one tablespoon of approved **powdered chlorine sanitizer*** in a pint of water and when dissolved, pour into bowl. Replace lid and run unit two or three minutes. Then shut off unit and drain contents through valve.

*Diversey-MultiChlor or equivalent powder or liquid sanitizer.

WARNING:

Do not run refrigeration switch when sanitizing.

VENTILATION

NOTE: Air flow is essential. Allow at least 3 inches of space on back and side of dispenser. Lint or dust collecting on the condenser will result in poor refrigeration. Placing on top of the cover of the dispenser also affects the performance of the unit.

CLEANING CONDENSER

1. Turn off Refrigeration Switch.
2. Remove right side panel. Clean filter(s) by running a stream of hot water through the inside surface of filter(s), and allow to dry. Filter(s) should be replaced, if necessary. (See Parts List).
3. Clean condenser with vacuum cleaner or brush making sure no loose dirt goes into the dispenser.
4. Clean and replace panels.

CORRECTING DISPENSER DIFFICULTIES

No Spray or Circulation

1. Be sure switch is "ON".
2. If unit does not spray, remove pump housing and check impeller. Impeller must spin freely. Sugar and solids can crystallize, causing impeller to bind. Frequent washing will eliminate this.
 - a. Pump housing : For New Units remove pin holding impeller in pump housing by pushing down on top and pulling out on impeller magnet. Clean parts thoroughly. (See Fig. 10)

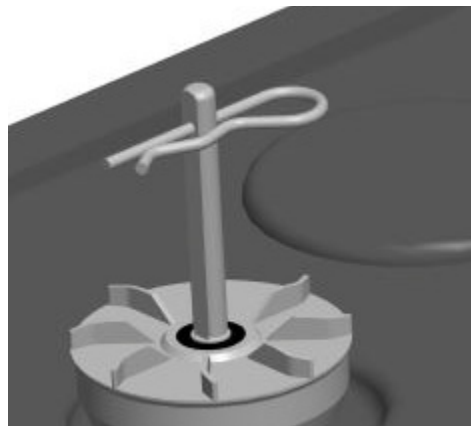


Figure 10.

- b. Circulator : Slide impeller up on shaft and clean underside of impeller at center. If impeller rubs on base of circulator, replace.

NOTE: Switch must be "OFF" when inserting the pump housing assembly into the bowl to assure magnetic coupling.

NOTE: Long pieces of pulp may partially plug pump housing and bind impeller blades. Juices with excessive pulp must be strained in order to spray. However, if it is desired to retain pulp, use Jet Spray Circulator Kit No. A 1620 in place of the pump housing assembly. Wash sediment from pump well.

- Pump housing assembly should be locked into place properly (See "Assembling the Dispenser", point 5).

Bowl Leaks

- Do not confuse drippings from condensation on the outside of the bowl as bowl or faucet leaks. High humidity causes more condensation.
- Be sure gasket has been put on properly. Check gasket for tears or cuts in rubber as they cause leaks.
- Remove and examine pinch tube for holes.

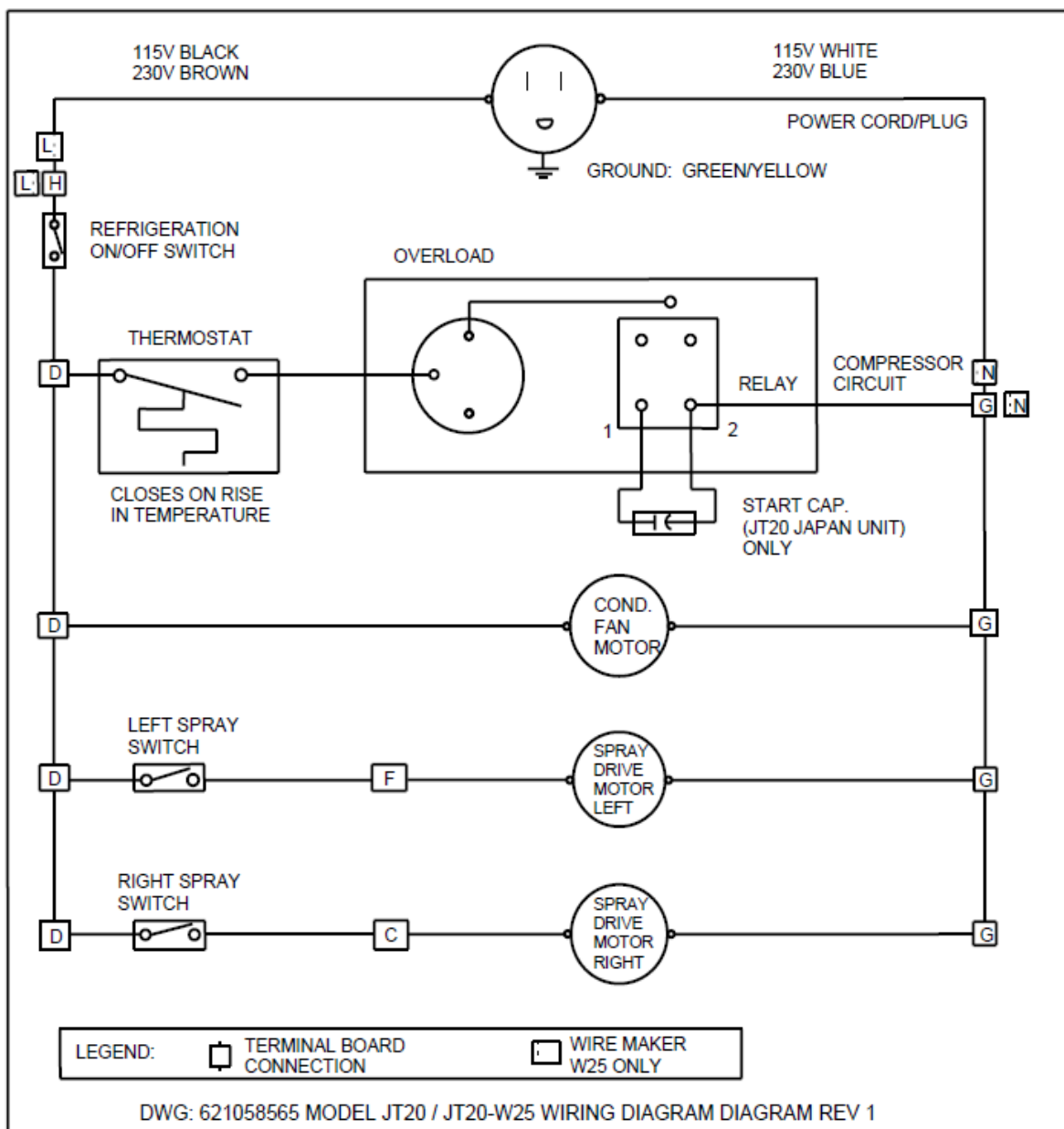


Figure 11. JT20 Wiring Diagram



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