

GENERAL INSTRUCTIONS FOR INSTALLATION, USE AND MAINTENANCE

INSTRUCCIONES GENERALES PARA INSTALACIÓN, USO Y MANTENIMIENTO



UNDERCOUNTER DISHWASHER

Models: FI – 48 W
FI – 64 W
FI – 72 W



Z-208432

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WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read this manual thoroughly before installing or servicing this equipment. We recommend all service performed by an authorized service technician. Follow the instructions and guidelines to ensure that your warranty remains in effect.

1 SPECIFICATIONS

1.1 MODEL: FI-48 W

PERFORMANCE/CAPACITIES

Capacities

Racks per hr.: 30
Dishes per hr.: 750
Glasses per hr.: 1080
Tank: 6.6gal. / 24.9 liters

Heating Elements

Electric wash tank heater: 2.8 Kw
Electric booster heater: 2.8 Kw

Water Consumption / Requierements

Gallons per hr. (Max. use): 27gal. / 102 liters
Gallons per cycles: .9 gal. / 3.4 liters
Inlet temperature: 140°F
Flow rinse pressure: 15-25 psi

Operating Cycles

Wash time (Seconds): 2 settings (100,160)
Dwell (Seconds): 5
Rinse time (Seconds): 15
Total Time (Seconds): 2 settings (120,180)

Wash Pump Motor

Motor (hp): 1 hp

Dimensions / Shipping

Width: 24 1/4" / 616 mm
Depth: 27 1/2" / 698 mm
Height: 38 1/2" / 978 mm
Max clearance for dishware: 12 1/2" / 318mm
Rack: 20" x 20" / 500mm x 500mm
Shipping weight: 160 lbs. / 73 kg
Shipping volume (cu. ft.): 15

Temperatures

Wash: 150°F / 66°C
Rinse: 190°F / 88°C

TECHNICAL SPECIFICATIONS

Total Power Consumption

Volts	Amps	Power (KW)
208/60/1	14.9	3.1
220/60/1	15.9	3.5
240/60/1	17.0	4.1

Boiler Power Consumption

Volts	Amps	Power (KW)
208/60/1	12	2.5
220/60/1	12.7	2.8
240/60/1	13.75	3.3

Pump Power Consumption

Volts	Amps	Power (KW)
208/60/1	2.4	.5
220/60/1	2.7	.6
240/60/1	2.9	.7

1.2 MODEL: FI-64W

PERFORMANCE/CAPACITIES

Capacities

Racks per hr.: 40

Dishes / per hr.: 1000

Wash Tank: 6.6gal. / 24.9 liters

Water Consumption

Gallons per hr. (Max. use): 36 gal. / 139 liters

Gallons per cycles: .9 gal. / 3.4 liters

Inlet temperature: 140°F

Flow rinse pressure: 15-25 psi

Wash Pump Motor

Motor (hp): 1 hp

Temperatures

Wash: 150°F / 66°C

Rinse: 190°F / 88°C

Heating Elements

Electric wash tank heater: 2.8 Kw

Electric booster heater: 6 Kw

Operating Cycles

Wash time (Seconds): 2 settings (70,160)

Dwell (Seconds): 5

Rinse time (Seconds): 15

Total Time (Seconds): 2 settings (90,180)

Dimensions / Shipping

Width: 24 1/4" / 616 mm

Depth: 27 1/2" / 698 mm

Height: 38 1/2" / 978 mm

Max clearance for dishware: 12 1/2" / 318mm

Rack: 20" x 20" / 500mm x 500mm

Shipping weight: 160 lbs. / 73 kg

Shipping volume (cu. ft.): 15

TECHNICAL SPECIFICATIONS

Total Power Consumption

Volts	Amps	Power (KW)
208/60/3	16.6	6.0
220/60/3	17.6	6.7
240/60/3	19.0	7.9

Pump Power Consumption

Volts	Amps	Power (KW)
208/60/3	1.3	.5
220/60/3	1.6	.6
240/60/3	1.7	.7

Boiler Power Consumption

Volts	Amps	Power (KW)
208/60/3	15.0	5.4
220/60/3	15.7	6.0
240/60/3	17.1	7.1

Total Power Consumption

Volts	Amps	Power (KW)
208/60/1	28.8	6.0
220/60/1	30.4	6.7
240/60/1	32.9	7.9

Pump Power Consumption

Volts	Amps	Power (KW)
208/60/1	2.4	.5

Boiler Power Consumption

Volts	Amps	Power (KW)
208/60/1	25.9	5.4
220/60/1	27.2	6.0
240/60/1	29.5	7.1

220/60/1	2.7	.6
240/60/1	2.9	.7

1.3 MODEL: FI-72W

PERFORMANCE/CAPACITIES

Capacities

Racks per hr.: 40

Trays (Dishes) / per hr.: 320 (1000)

Wash Tank: 6.6gal. / 24.9 liters

Water Consumption

Gallons per hr. (Max. use): 36 gal. / 139 liters

Gallons per cycles: .9 gal. / 3.4 liters

Inlet temperature: 140°F

Flow rinse pressure: 15-25 psi

Wash Pump Motor

Motor (hp): 1 hp

Temperatures

Wash: 150°F / 66°C

Rinse: 190°F / 88°C

Heating Elements

Electric wash tank heater: 2.8 Kw

Electric booster heater: 6 Kw

Operating Cycles

Wash time (Seconds): 2 settings (70,160)

Dwell (Seconds): 5

Rinse time (Seconds): 15

Total Time (Seconds): 2 settings (90,180)

Dimensions / Shipping

Width: 47 1/3" / 1203 mm

Depth: 27 1/2" / 698 mm

Height: 38 1/2" / 978 mm

Max clearance for dishware: 16 1/2" / 420mm

Rack: 20" x 20" / 500mm x 500mm

Shipping weight: 174 lbs. / 79 kg

Shipping volume (cu. ft.): 29

TECHNICAL SPECIFICATIONS

Total Power Consumption

Volts	Amps	Power (KW)
208/60/3	16.6	6.0
220/60/3	17.6	6.7
240/60/3	19.0	7.9

Pump Power Consumption

Volts	Amps	Power (KW)
208/60/3	1.3	.5
220/60/3	1.6	.6
240/60/3	1.7	.7

Boiler Power Consumption

Volts	Amps	Power (KW)
208/60/3	15.0	5.4
220/60/3	15.7	6.0
240/60/3	17.1	7.1

Total Power Consumption

Volts	Amps	Power (KW)
208/60/1	28.8	6.0
220/60/1	30.4	6.7
240/60/1	32.9	7.9

Pump Power Consumption

Volts	Amps	Power (KW)
208/60/1	2.4	.5

Boiler Power Consumption

Volts	Amps	Power (KW)
208/60/1	25.9	5.4
220/60/1	27.2	6.0
240/60/1	29.5	7.1

220/60/1	2.7	.6
240/60/1	2.9	.7

2 INSTALLATION

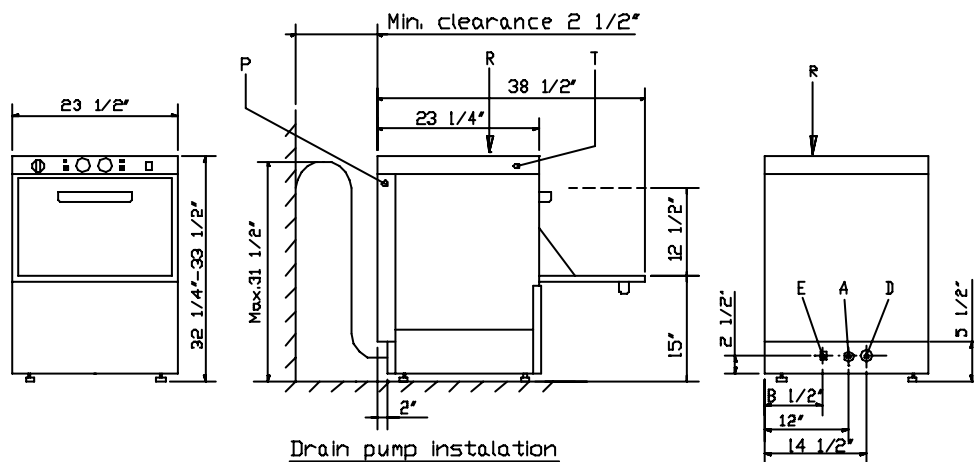
2.1 VISUAL INSPECTION

Before installing the unit, check the package and machine for damage. All machines have been tested, inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. Visually inspect the exterior of the package. Any damage should be noted and reported to the delivering carrier immediately. If damaged, open and inspect the contents with the carrier.

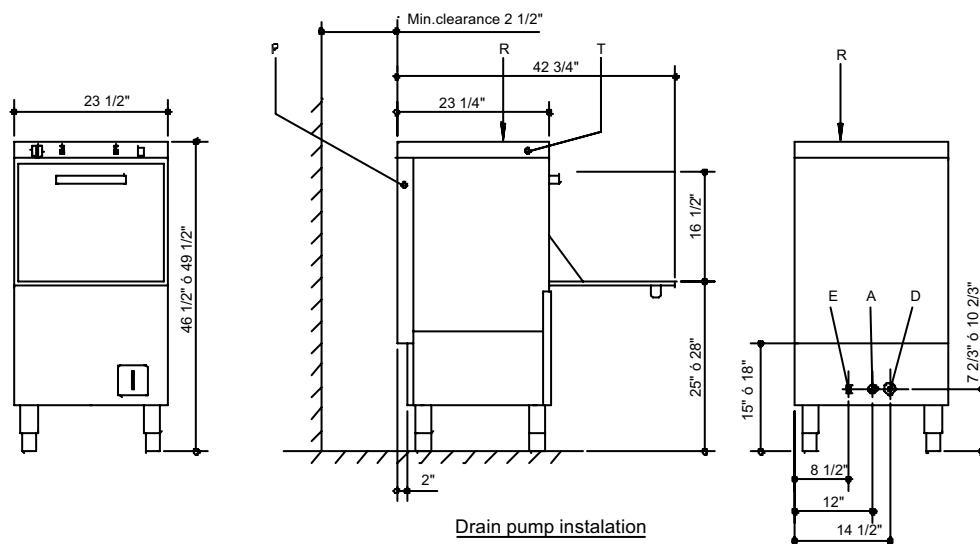
In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment notify the carrier. Notification should be made verbally as well as in written form. Request an inspection by the shipping company of the damaged equipment. Also, contact the dealer through which you purchased the unit.

2.2 INSTALLATION DIAGRAMS

FI-48W, FI-64W



FI-72W



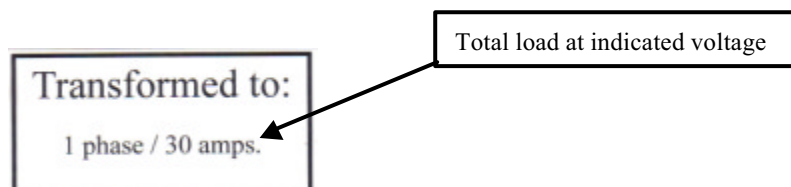
- A = Water inlet
- D = Drain hose
- E = Electrical Cable
- R = Terminal Block

Figs. 1

2.3 DATA PLATE

The data plate is located on one side of the machine. Under no circumstances should the data plate be removed from the unit. The data plate is essential to identify the particular features of your machine and is of great benefit to installers, operators and maintenance personnel. It is recommended that, in the event the data plate is removed, you copy down the essential information in this manual for reference before installation.

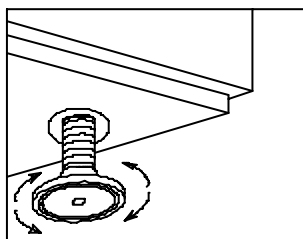
Any transformations or changes made on the machines during installation should be reflected on the data plate or using a label as below:



2.4 POSITIONING

Leveling and adjusting the height of the appliance is done by turning the leveling stands to the desired height. Ensure that the unit is level before making any connections. (Fig. 2).

FI-48W
FI-64W



FI-72W

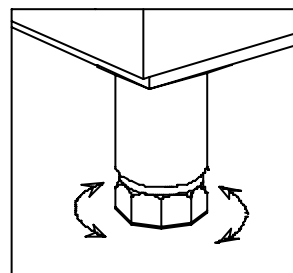
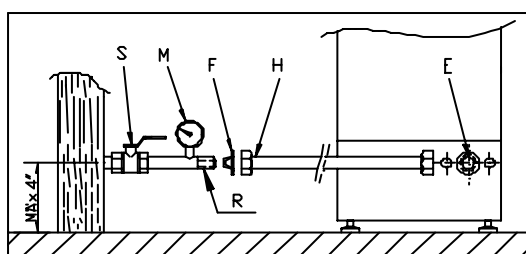


Fig.2

2.5 WATER INSTALLATION

Water installation is carried out as shown in figures 3 and 4. The hot water line to the dishwasher must provide between 20⁺⁵ psi of water pressure. The hot water heater should be set to deliver $\geq 140^{\circ}\text{F}$ water temperature to the dishwasher for best results. Use $\frac{3}{4}$ " copper tubing inlet line.



S = Gate valve
F = Filter
H = Hose
E = Fill valve
M = Pressure gauge
R = $\frac{3}{4}$ " Copper

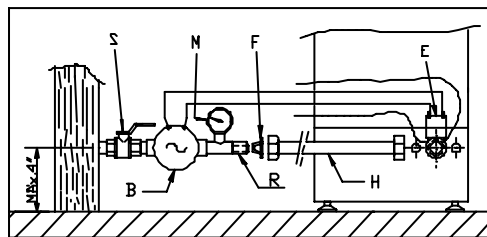
Fig. 3

CAUTION: Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a “no flow” condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the

solenoid valve is opened during the cycle

THE DISPLAY OF THE PRESSURE GAUGE SHALL BE CLEARLY VISIBLE OF THE OPERATOR OF THE MACHINE. THE GAUGE SHALL HAVE INCREMENTS OF 1 psi (7 kpa) OR SMALLER AND SHALL BE ACCURATE TO ± 2 psi (± 14 kpa) IN THE 15-25 psi (103-172 kpa) RANGE. IF THE GAUGE IS LOCATED UPSTREAM OF THE CONTROL VALVE, IT SHALL BE MOUNTED IN AN ACCESSIBLE VALVE WITH A $\frac{1}{4}$ IN IRON PIPE SIZE CONNECTION.

If the water pressure is less than 20 psi (1.4 kg/cm^2), installation of a water pump is required as shown in Fig. 4. In areas where the pressure fluctuates or is greater than the recommended pressure, it is suggested that a water pressure regulator be installed.



- S = Stop cock
- F = Filter
- H = Hose
- E = Electro valve
- B = Electro pump
- M = Manometer
- R = $\frac{3}{4}$ " Copper

Fig. 4

It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction, prior to connecting to the machine.

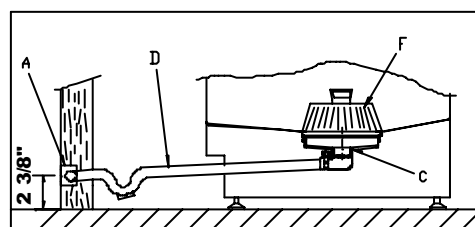
Use only the supplied hoses ($\frac{3}{4}$ " Female hose connector) at the water connections. Failure to do so may result in damage to the solenoid valve threads and leaking. Tighten by hand. Connect the bent side of the hose to the machine. Adaptor supplied for $\frac{3}{4}$ " female garden hose connection.

FOR HARD WATER SUPPLIES WITH A HARDNESS OF OVER 2 GRAINS OR 10°F AND PH BEYOND THE RANGE OF 7.0 – 8.5, A WATER CONDITIONER MUST BE INSTALLED.

Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

2.6 WATER DRAINAGE

Attach the drain hose as shown in Fig. 5. It is recommended to affix a siphon pipe to prevent odors. All piping from the machine to the drain must be a minimum 1-1/2" I.P.S. There should also be an air gap between the machine drain line and the drain. For natural overflow efficiency use floor drain.



- D = Drain hose
- C = Drain collector
- A = Air Gap
- F = Scrap Basket

Fig. 5

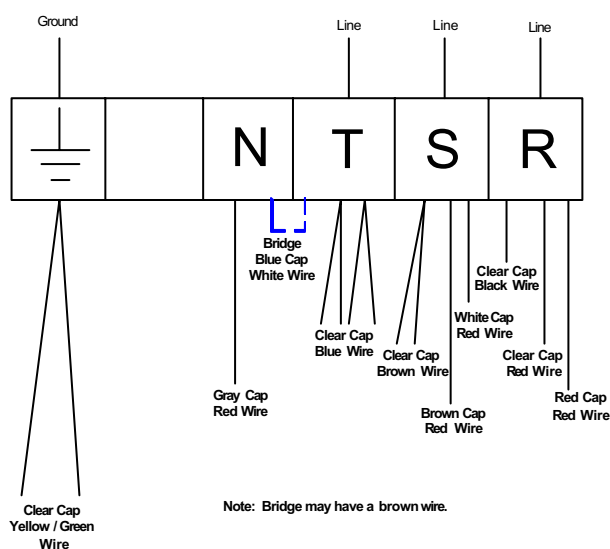
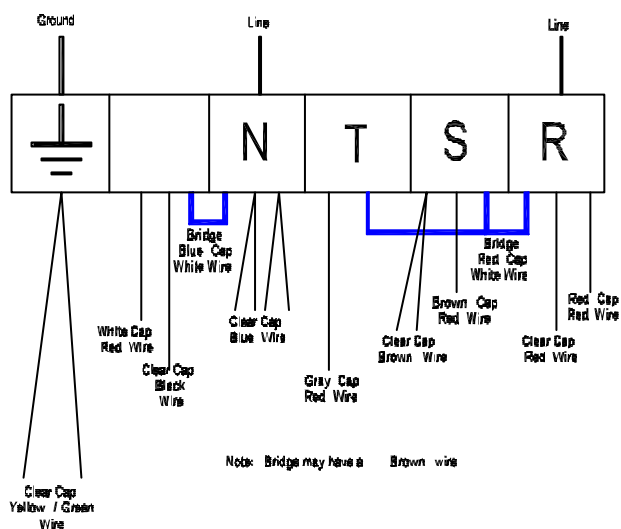
2.7 ELECTRICAL CONNECTION

- To access to the electrical terminal block (R) (Fig. 1), remove the top cover (T) (Fig. 1) and the rear panel (P) (Fig. 1). Connect the wires as shown in figure 6. Insert the power cord through the cord holder (E) (Fig. 1) and make sure to leave enough cable to remove the electrical panel from the front for service. Tighten the connections.
- Leave free $\geq 39''$ (≥ 1000 mm) of power cord from the rear to facilitate cleaning of the location of the dishwasher.
- Install a circuit breaker in accordance to required consumption guidelines and data plate.
- The machine must be grounded.

WARNING: Electrical Shock Hazard

It is the personal responsibility and obligation of the customer to contact a qualified electrician to assure that the electrical installation is adequate and is in conformance with the National Electrical Code, ANSI / NFPA 70 – latest edition and all local codes and ordinance.

FI-64W, FI-72W
208-220 volts/1phase



FI-64W, FI-72W
208-220-240 volts/3phase

Fig.6

3 INSTALLATION CHECKLIST

CHECK OFF THE FOLLOWING ITEMS AS THEY ARE COMPLETED BEFORE PROCEEDING TO OPERATE OR SERVICE THE DISHWASHER.

- ☐ Has the dishwasher been checked for concealed/hidden damage?
- ☐ Has the dishwasher been properly leveled?
- ☐ Has the service voltage been checked to ensure that it meets the requirements listed on the dishwasher data plate?
- ☐ Has the dishwasher circuit breaker/service breaker been sized correctly, given the dishwasher's amperage requirements?
- ☐ Has the dishwasher been properly grounded?
- ☐ Is the water valve open?
- ☐ Is the incoming water supply at 20 - 40 psi?
- ☐ Has been installed with the supplied water hose?
- ☐ Is the water hose not kinked?
- ☐ Has the incoming water supply been flushed for debris?
- ☐ Is the hot water supply at the minimum recommended temperature as indicated on the dishwasher plate?
- ☐ Is the water hardness =2.0gpg/34.2ppm and PH level 7 - 8.5ph ?
- ☐ Has the drain plumbing been installed according to the instructions in this manual?
- ☐ Is the drain hose not kinked?
- ☐ Is the overflow tube with the O-ring fitted in its position inside the tank

MODEL NO. _____

SERIAL NO. _____

INSTALLATION DATE _____

SERVICE REP. NAME _____

PHONE N° _____

4 USE

4.1 USE OF THE APPLIANCE

FI – 48 W

Set the selector knob (1) (Fig. 7) to the 120 seconds or 180 seconds cycle. The Pilot light (2) will come on and the rinse and wash water start filling the machine.

Once fill is completed the rinse (booster) element will come on , heating the rinse water to a temperature of (185°F +or- 5°). Upon reaching the set rinse temperature (3) the tank element will start to heat the wash water to a temperature of (150°F +or- 5°). Once the wash temperature is met (4), the machine is ready for a wash cycle.

To start the washing cycle set the selector knob # 1 to the desire wash time 120 sec. or 180 sec. Setting and depress the start switch # 5. Note: the start switch will be illuminated until the completion of the selected cycle.

To empty the tank completely, remove the overflow tube (A) (Fig.13), set selector to position and depress start button (5) (Fig. 7). ***DON'T REMOVE THE ROUND SCRAP BASKET, ONLY THE TUBE.*** When the working day is complete set selector knob (1) to the 0 setting.

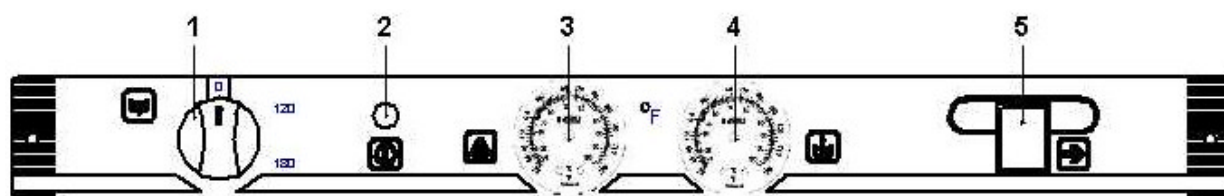


Fig. 7

FI – 64 W

Set the selector knob (1) (Fig. 7) to the 90 seconds or 180 seconds cycle. The Pilot light (2) will come on and the rinse and wash water start to fill the machine.

Once fill is completed the rinse (booster) element will come on , heating the rinse water to a temperature of (185°F +or- 5°). Upon reaching the set rinse temperature (3) the tank element will start to heat the wash water to a temperature of (150°F +or- 5°), once the wash temperature is met (4), the machine is ready for a wash cycle.

To start the washing cycle set the selector knob # 1 to the desire wash time 90 sec. or 180 sec. setting, and depress the start switch # 5. Note: the start switch will be illuminated until the completion of the selected cycle.

To empty the tank completely, remove the overflow tube (A) (Fig.13), set selector to position and depress start button (5) (Fig. 7). ***DON'T REMOVE THE ROUND SCRAP BASKET, ONLY THE TUBE.*** When the working day is complete set selector knob (1) to the 0 setting.

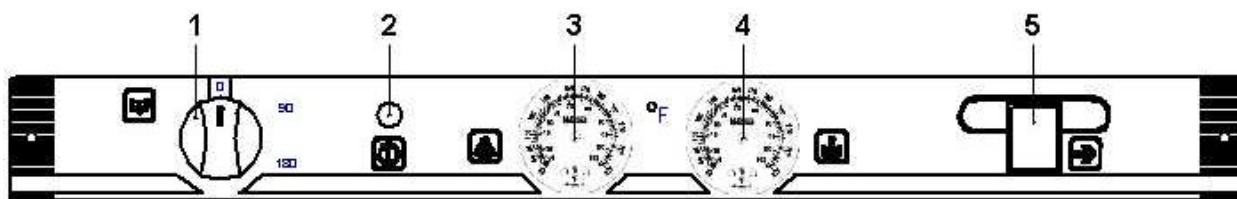


Fig. 8

FI – 72 W

Set the selector knob (1) (Fig. 8) to the 90 seconds or 180 seconds cycle. The Pilot light (2) will come on and the rinse and wash water start to fill the machine.

Once fill is completed the rinse (booster) element will come on, heating the rinse water to a temperature of (185°F +or- 5°). Upon reaching the set rinse temperature (3) the tank element will start to heat the wash water to a temperature of (150°F +or- 5°), once the wash temperature is met (4), the machine is ready for a wash cycle.

To start the washing cycle set the selector knob # 1 to the desire wash time 90 sec. or 180 sec. setting, and depress the start switch # 5. Note: the start switch will be illuminated until the completion of the selected cycle.

To empty the tank completely, remove the overflow tube (A) (Fig.13)

4.2 ADVICE ON HOW TO WASH CORRECTLY - DETERGENT

CONTROL

- Use commercial grade detergent low suds. Fagor doesn't recommend any specific brand name of chemicals. Contact your local chemical distributor for questions concerning these subjects.
- All machines come equipped with integral rinsing dispenser and detergent dispenser, as well as tubes to place inside the containers.
- Dispensers include a visual means to verify that detergent and rinse aid are delivered to the tank.
- Put the amount of detergent indicated by the manufacturer into the tub Fig.9 indicate the doser regulation range.

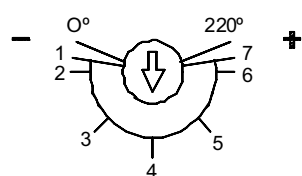


Fig.9

	Gal./h.
1	0
2	0.06
3	0.20
4	0.40
5	0.53
6	0.66
7	0.80

- Control and maintain the level of detergent and rinse aid of the tanks. Keep pipe and filters submerged.

Preparing the crockery

- Remove big pieces of food from dishes before putting them in the baskets.
- Wash glassware first
- Put trays in the baskets, making sure it is in its separate rack (Fig.12).
- Put plates in the baskets, making sure each is in its separate rack (Fig. 11).
- Put glasses in upside down.
- Put cutlery in the cutlery baskets handles down. Mix spoons with knives and forks. (Fig. 10)
- Put the special cutlery baskets in the base baskets.

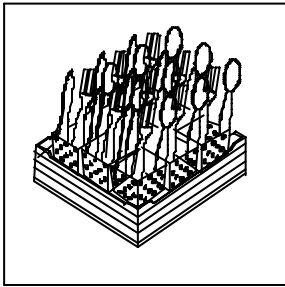


Fig. 10

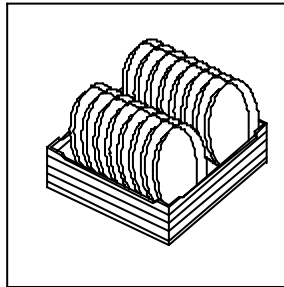


Fig. 11

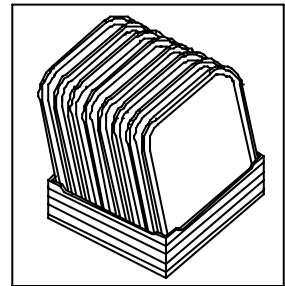


Fig.12

5 MAINTENANCE

Regular wiping of the outside surface with a soft, damp sponge or cloth and mild detergent is all that is necessary to maintain the appearance of your dishwasher.

- Check the rinse aid dispenser from time to time and refill when necessary.
- Clean scrap basket (F) (Fig.13) everyday. To do this; remove the overflow tube (A), turn scrap basket counterclockwise and lift (F). Replace the clean scrap basket (F) by putting the groves into the slots and turning clockwise (Fig. 13).
- If the machine is not going to be used for a long period of time, coat surfaces with petroleum jelly.

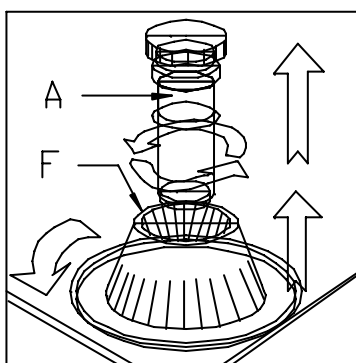


Fig. 13

Optional accessories

The manufacturer has the following optional accessories which can be fitted to the machine.

- External electric water pump; to increase water pressure.
- Water softener; to treat hard water

6 TROUBLESHOOTING

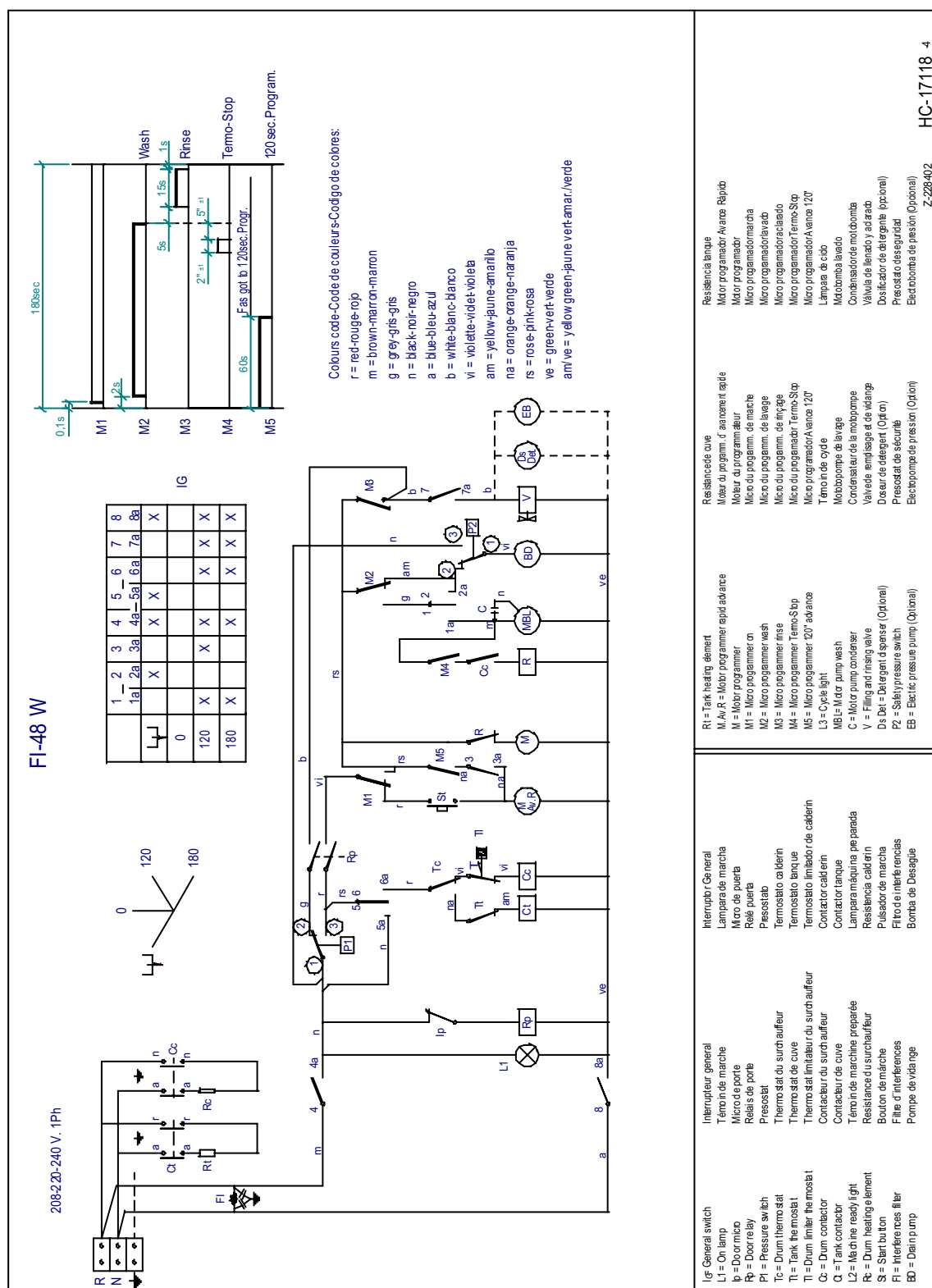
First be sure that the “Installation Checklist” in this manual was completed and check out that all the items still remains in effect. For support or further service information contact Fagor Service Department toll free at 1-866-GO-FAGOR (46-32467). The diagnosing, testing and repair of any electrical, mechanical device is to be performed solely by trained service technicians.

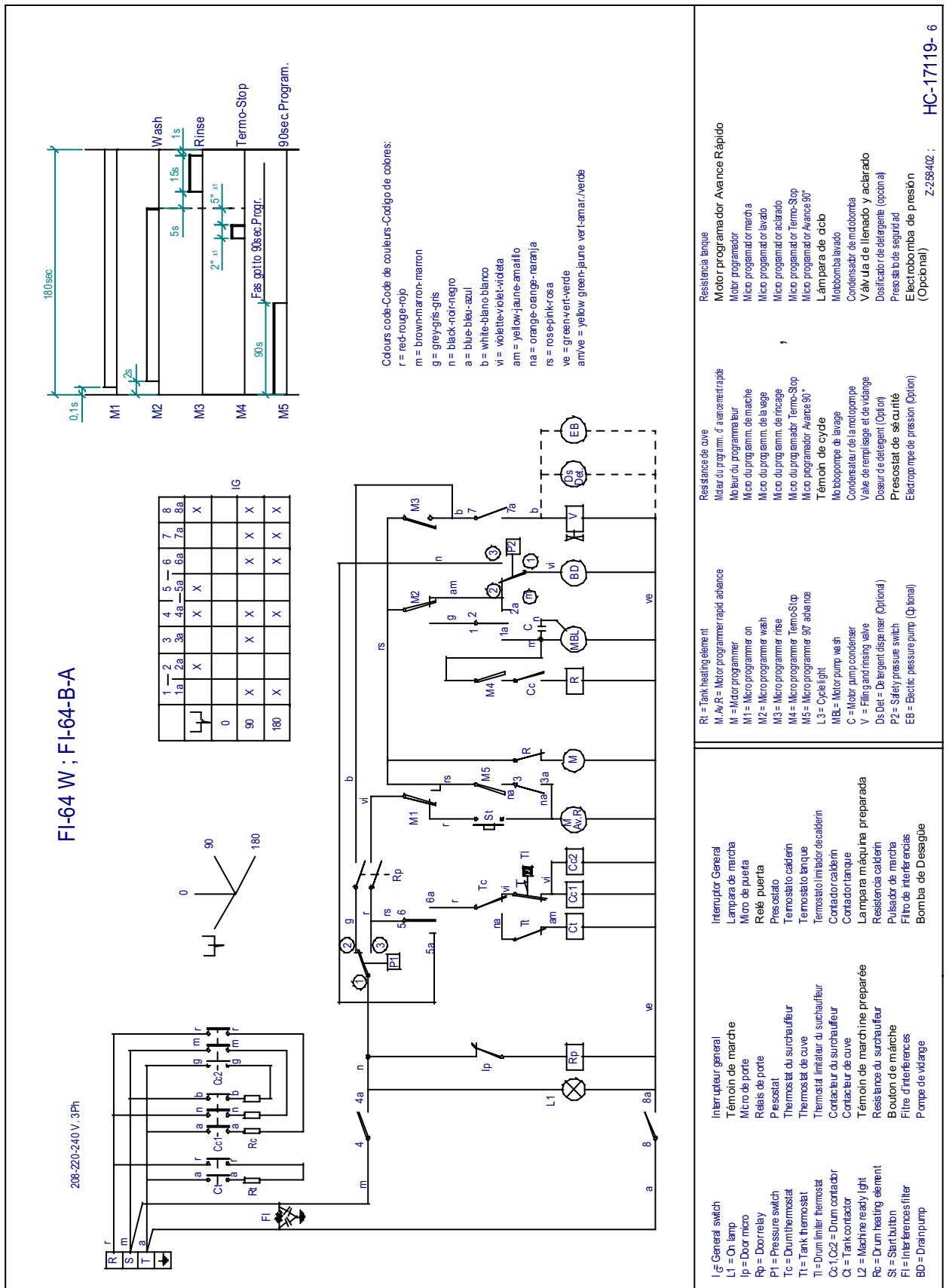
SYMPTOM	POSSIBLE CAUSE	ACTION
Dishwasher will NOT FILL after the door is closed. Power “ON” light (L1) is not illuminated.	Service breaker tripped	Reset. If the breaker trips again, contact an electrician to verify amps or possible short.
	Machine not connected to power source.	Verify the unit is connected to a hot (live) feed. Verify voltage and proper phasing.
	Faulty selector switch (Ig)	Verify the wiring of the switch; if correct, replace the switch. (Position 4-4a / 8-8a)
Dishwasher will NOT FILL after the door is closed. Power “ON” light (L1) is illuminated.	No water to machine	Verify hose is not blocked or kinked, water valve is open and pressure > 20 PSI.
	Overflow tube not attached or broken / missing O-ring.	Check condition of overflow tube.
	Faulty door switch	Verify the wiring of the switch; if correct, replace the switch (Ip) or the door relay (Rp)
	Faulty fill pressure switch (P1)	Verify position change 1-2 / 1-3 to pressure switch. Possibly stuck .
	Faulty fill valve (V)	Verify the wiring and voltage received; if correct replace fill valve.
Dishwasher will NOT RUN after the door is closed. Power “ON” light (L1) is illuminated and the unit has completed the filling and heating cycle.	Fill pressure switch’s pipe clogged	Drain the unit, fill again, even manually and run a cycle
	Faulty fill pressure switch (P1)	Verify it changes position of the switch; If not replace it.
	Start button (St) faulty	Verify start button is operating properly. If not replace it.
	Faulty Timer (M)	Verify the timer is rotating (M1, M2 & M3). If not, check to see that the motor is receiving power. If so, replace the timer assembly. Ohm out timer motor leads.
	Faulty wash pump (MBL)	Verify that the wash pump is getting power. If so, replace the pump. Ohm out windings.
	Selector switch faulty (IG)	Verify voltage at (1,2 to1a) at selector switch
Dishwasher RUNS continuously in the wash cycle or not rinsing. <i>(Continue next page)</i>	Timer faulty (M)	Verify the programmer is rotating (M1, M2, M3, and M4 & M5). If not, check to see that the motor is receiving power. If so, replace the programmer assembly. Ohm out timer motor leads.

SYMPTOM	POSSIBLE CAUSE	ACTION
Dishwasher RUNS continuously in the wash cycle or not rinsing.	Operating t-stat faulty (Tc)	Verify position change if temperature has been met. Opening circuit to tank relay and closing thermo relay.
	Faulty thermo relay (R)	Verify thermo-relay is not energized and (pk/pk) from m1 to timer run motor is closed
	Faulty rinse valve (V)	Verify the wiring and voltage received; if correct, ohm out. If open replace valve.
	No water to machine.	Verify hose is not blocked or kinked, water valve is open and pressure > 20 PSI.
Dishwasher FILLS slowly and/or rinse is weak.	Clogged or obstructed rinse arms	Remove and clean rinse arms/nozzles.
	Poor water pressure	Verify the inlet water pressure is at a min of 20 psi and max 60 psi.
	Hose strainer is clogged	Check strainer or any filters installed.
	Bad fill valve (V)	Valve can be clogged or lazy, causing poor flow.
Dishwasher RUNS. RINSE WATER NOT REACHING REQUIRED TEMPERATURE.	Temperature gauge in front panel is defective.	Check temperature with a calibrated thermometer. Replace temperature gauge if necessary.
	Misadjusted/faulty thermostat (Tc)	Verify operation and setting of thermostat; replace if necessary. If thermostat is not receiving voltage, check wiring or replace selector switch (IG)
	Faulty high limit stat (TI)	Reset thermostat, depressing red button. Replace if necessary.
	Faulty heater relay (Cc)	Ohm out booster relay, closed when solenoid receiving voltage. If not replace.
	Rinse heater (Rc) faulty	Ohm out element check for continuity; if open, replace heater.
	Bad selector switch (IG)	Verify voltage between positions (6/6a) (Pk/r); replace if no voltage.
Dishwashing machine RUNS. WASH WATER NOT REACHING REQUIRED TEMPERATURE.	Faulty operation t-stat (Tc)	Verify position change to tank t-stat (Tt); replace if necessary.
	Misadjusted/faulty thermostat (Tt)	Verify voltage to t-stat and position change from booster to tank.
	Tank heater relay (Ct) faulty.	Verify contacts are close when there is voltage to relay also check for stuck or pitted contacts.
	Rinse heater (Rt) faulty	Check element for continuity; if open, replace heater.

SYMPTOM	POSSIBLE CAUSE	ACTION
Dishwasher RUNS perfectly but NOT DRAINING.	Overflow tube not removed.	Check and remove.
	Drain pump (BD) clogged.	Open drain pump cover and remove debris. (Lower front panel; unscrew white removable cover, rotate c/cw)
	Drain hose kinked	Make sure the drain hose is not kinked
	Drain pump (BD) faulty	Verify voltage to drain pump; if receiving voltage, ohm out drain pump if open, replace it.
	Faulty safety pressure switch (P2)	Verify position changes from (1-3 to -1-2)
Dishes are not coming out clean enough.	Machine temperatures or pressure may not be to specification.	Verify that the water pressure is at a min. of 20psi and max 60 psi. The water temperature should be at the recommended 140 F.
	None or too little detergent being used.	Make sure detergent to dish ratio is followed to manufacturer specification.
	Improper loading or overloading	Read chapter on proper loading of dishwasher.
	Washing and or rinsing arms jammed or dirty.	Check that arms rotate properly, and that rinsing and washing nozzles are not blocked or dirty. Clean if necessary

7 ELECTRICAL DIAGRAMS





Interrupteur general
L1 = On lamp
Ip = Door micro
Rp = Door relay
P1 = Pressure switch
Tc = Drum thermostat
Tl = Tank thermostat
Ct = Drum liner thermostat
C2 = Drum contactor
C1 = Machine ready light
Rc = Drum heating element
St = Start button
FI = Interference filter
BD = Drain pump

Interruptor General
Lámpara de marcha
Micro de puerta
Relé puerta
Presostato
Termostato Calderín
Termostato tanque
Termostato iniciador de Calderín
Contactador Calderín
Contactador de cuve
Lámpara máquina preparada
Resistencia Calderín
Botón de marcha
Filtro de interferencias
Bomba de Desagüe

Rt = Tank heating element
M, Av, R = Motor programmer rapid advance
M = Motor programmer
M1 = Micro programmer wash
M2 = Micro programmer rise
M3 = Micro programmer Termo-Stop
M4 = Micro programmer 90° advance
M5 = Micro programmer 90° advance
L3 = Cycle light
C = Motor pump wash
V = Filling and rinsing valve
Ds Det = De l'argent dispenser (Optional)
P2 = Safety pressure switch
EB = Electric pressure pump (Optional)

Resistance de cuve
Moteur du programme d'avancement rapide
Moteur du programme
Micro du programme de lavage
Micro du programme de rinçage
Micro du programme Termo-Stop
Micro programmeur Avance 90°
Témoin de cycle
Moteur pompe de lavage
Condensateur de la motopompe
Vale de remplissage et de vidange
Doseur de détergent (optionnel)
Presostat de sécurité
Électropompe de pression (Optionnel)

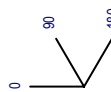
Resistencia tanque
Motor programador Avance Rápido
Motor programador
Micro programador marcha
Micro programador lavado
Micro programador aclarado
Micro programador Termo-Stop
Micro programador Avance 90°
Lámpara de ciclo
Moto bomba lavado
Condensador de motobomba
Válvula de llenado y aclarado
Dosificador de detergente (opcional)
Presostato de seguridad
Electrobomba de presión (Opcional)

Resistência tanque
Motor programador Avance Rápido
Motor programador
Micro programador marcha
Micro programador lavado
Micro programador aclarado
Micro programador Termo-Stop
Micro programador Avance 90°
Lâmpara de ciclo
Moto bomba lavado
Condensador de motobomba
Válvula de llenado y aclarado
Dosificador de detergente (opcional)
Presostato de segurança
Electrobomba de pressão (Opcional)

3N ~ 380/415V.



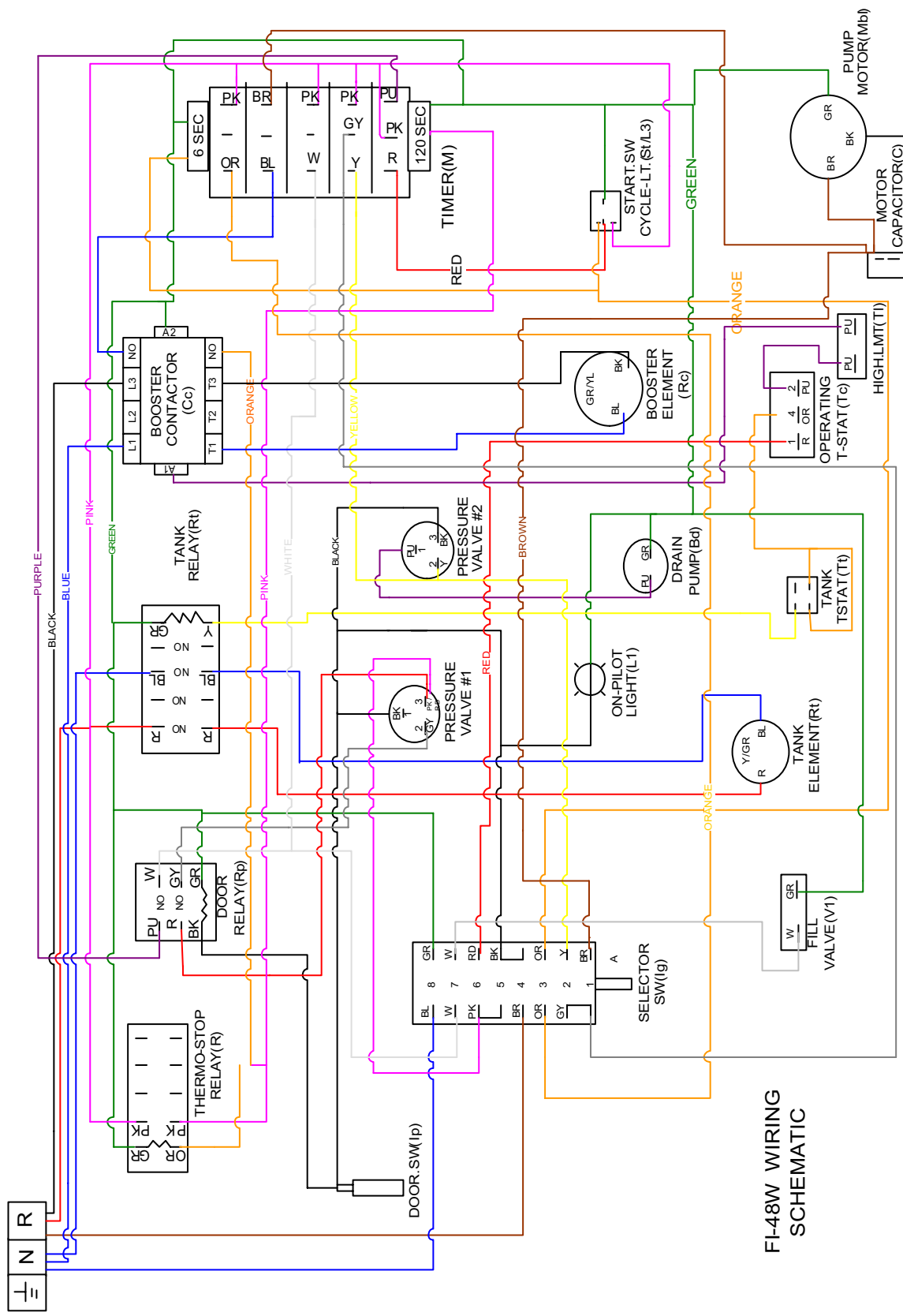
	1 1a	2 2a	3 3a
0			
90	X	X	X
180		X	X



Interupteur general	Interruptor General	R = Tank heating element	Resistance de cuve	Resistancia de cuve
Témoin de marche	Lampara de marcha	M.A.V. R = Motor programmer rapid advance	M.A.V. R = Moteur programmeur rapide	Motor programador Avance Rapido
Micro de porte	Micro de puerta	M = Motor programmer	Moteur du programmeur	Motor programador
Relais de porte	Relé puerta	M1 = Micro programmer on	Micro du programmeur	Micro programador marcha
Pp = Pres sure switch	Presostato	M2 = Micro programmer wash	Micro du programmeur de lavage	Micro programador laido
Pc = Drum thermostat	Thermosstat	M3 = Micro programmer rinse	Micro du programmeur de rinçage	Micro programador aclarado
Tl = Drum thermostat	Thermosstat cuidein	M4 = Micro programmer Temo-Stop	Micro du programmeur Temo-Stop	Micro programador Temo-Stop
Tl1 = Drum liner thermostat	Thermosstat liner	L3 = Cycle light	Temo time cycle	Lampara de ciclo
Cct/Cc2 = Drum contactor	Contacteur du surchauffeur	Mbl = Motor pump wash	Motopompe de lavage	Motor ombla laido
Ct = Tank contactor	Contacteur tanque	C = Motor pump container	Conteinaieur de la motopompe	On densador de motobomba
Rc = Drum heating element	Resistance du surchauffeur	V = Filling and rinsing valve	Valve de remplissage et de vidange	Valvula de llenado y aclarado
Sl = Start button	Bouton de marche	Da Del = Detergent dispenser (Optional)	Doseur de detergent (Option)	Disfuctor de detergente (opcional)
R = Interferences filter	Filtre d'interferences	EB = Electric pressure pump (Optional)	Electropompe de pression (Optional)	Biedo bomba de presión (Optional)

HC-17773

8 WIRING SCHEMATICS



FI-48W WIRING SCHEMATIC

FI - 64 W / FI-72W WIRING SCHEMATIC

9 RECOMMENDED SPARE PARTS

FI – 48 W

<i>Part Number</i>	<i>Description</i>
Z201720	Heating element for booster 2800 W. 230V.
Z203009	Door switch
Z203014	Booster thermostat
Z203050	Contactactor for booster 230V. 50/60 Hz.
Z203062	Door relay 230V 50/60Hz (Z203018 up to May 02)
Z203023	Level pressure switch
Z203511	Pump Motor 60Hz.
Z203601	Heating element for tank 2800W. 230V.
Z211903	Rinsing nozzle
Z213007	Contactactor 230V. 50-60Hz.
Z213014	Safety thermostat
Z213033	Start button
Z223001	General modes switch
Z223005	Safety pressure switch
Z228412	Timer 60 Hz. T. Stop
Z683087	Contactactor 230V. 50/60 Hz.
Z701135	Water fill valve
Z718441	Tank thermostat
V321300	10 MF Capacitor
Z223501	Drain pump

FI – 64 W, FI – 72 W

<i>Part Number</i>	<i>Description</i>
Z241703	Heating element for booster 6000W. 230V.
Z203009	Door switch
Z203014	Booster thermostat
Z203062	Door relay 230V 50/60Hz (Z203018 up to May 02)
Z203023	Level pressure switch
Z203511	Pump Motor 60Hz.
Z203601	Heating element for tank 2800W. 230V.
Z211903	Rinsing nozzle
Z213007	Contactactor 230V. 50-60Hz.
Z213014	Safety thermostat
Z213033	Start button
Z223001	General modes switch
Z223005	Safety pressure switch
Z258412	Timer 60 Hz. T. Stop
Z683087	Contactactor 230V. 50/60 Hz.
Z701135	Water fill valve
Z718441	Tank thermostat
V321300	10 MF Capacitor
Z223501	Drain pump

FAGOR COMMERCIAL LIMITED WARRANTY

Warranty:

Fagor Commercial, Inc. ("Fagor") warrants to the first-end-user purchaser (the "User") that the Fagor brand equipment sold hereunder, except for parts and accessories which carry the warranty of a supplier (the "Equipment") will be free from defects in material and factory workmanship under normal conditions of use and maintenance for a period of (1) one year from the date of Installation (Warranty Commencement date), but in no event to exceed (15) fifteen months from the date of shipment.

Warranty Coverage:

If there is a defect in material or factory workmanship covered by this Warranty reported to Fagor during the period the applicable Warranty is in force and effect, Fagor will repair or replace, at Fagor's option, that part of the Equipment that has become defective. Fagor will cover labor cost within one year from the Warranty Commencement date or 15 months from shipment date, whichever occurs first with the exception of the Glasswasher models which will be a 90 days labor and one year parts warranty. Fagor shall bear all labor costs in connection with the installation of these replacement parts, provided that, the installation is conducted by Fagor or its authorized representative. Charges for warranty travel time to round trip total of (2) two hours or up to 100 miles total. Any charges exceeding those stated herein must have prior authorization by Fagor.

Parts Warranty Coverage:

Fagor warrants all new machine parts produced or authorized by Fagor to be free from defects in material and workmanship for a period of 90 days from the Warranty Commencement Date. If any defect in material and workmanship is found to exist within the warranty period, Fagor will replace the defective part without charge. Defective parts become the property of Fagor.

Fagor will have no responsibility to honor claims received after the date the applicable Warranty expires. **Notwithstanding the foregoing, any claim with reference to the Equipment or any parts therefore for any cause shall be deemed waived unless submitted by the User to Fagor within thirty (30) days after the date the User discovered, or should have discovered, the claim.** In connection with all claims under this Warranty, Fagor will have the right, at its own expense, to have its representatives inspect the Equipment at the User's premises and to request all of User's records pertaining to the Equipment to determine whether a defect exists, whether the conditions set forth in this Warranty have been satisfied, and whether or not the applicable Warranty is in effect.

Exclusions from and Conditions to Warranty Coverage:

This Warranty does not cover parts or accessories, which (a) carry the warranty of a supplier or (b) are, abused by incorrect (noncommercial) grade detergents. Application of this Warranty is further conditioned upon the following:

- **Installation.** The Equipment must be properly installed in accordance with Fagor's installation procedures and instructions and reviewed and tested by Fagor's authorized representative.
- **No Alteration.** The Equipment must not have been modified or altered from its condition at the date of original installation.
- **Use.** FAGOR EQUIPMENT IS NOT DESIGNED FOR PERSONAL, FAMILY OR HOUSEHOLD PURPOSES, AND ITS SALE FOR SUCH PURPOSES IS NOT INTENDED. IN THE EVENT THE EQUIPMENT IS SO USED, THIS WARRANTY SHALL BE NULL AND VOID, AND THE EQUIPMENT SHALL BE DEEMED TO HAVE BEEN SOLD "AS IS-WHERE IS" WITHOUT ANY WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- **Water Quality.** Water supply should have hardness between .25 and 2.0 grains per gallon, pH level between 7.0 – 8.5 and TDS level at 250 PPM. Equipment failure due to inadequate water supply is not covered by this Warranty.
- **Proper Maintenance and Operation.** The Equipment must be properly maintained and operated in accordance with Fagor's maintenance and operating procedures. All service, labor and parts must be acquired from Fagor or its authorized service representative for the User's area.
- **Minor Parts.** No labor will be associated with the replacement of minor items such as, and not limited to, switches, pilot lights, gauges, fuses, etc. or replacement of wear items such as curtains, squeeze tubes, etc.
- This warranty is void if failure is a direct result of handling &/or transportation, fire, water, accident, misuse, acts of

God, attempted repair by unauthorized persons, improper installation, improper reparation, if serial number has been removed or altered, or if unit is used for purpose other than it was originally intended.

Failure to comply with any of these conditions will void this Warranty. In addition, this Warranty does not cover defects due to apparent abuse, misuse or accident.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY REPRESENTATION OF PERFORMANCE AND ANY IMPLIED WARRANTIES OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO OTHER WARRANTIES ARE AUTHORIZED ON BEHALF OF FAGOR UNLESS SPECIFICALLY ISSUED BY FAGOR.

Fagor shall have no liability for incidental or consequential losses, damages or expenses, loss of sales, profits or goodwill, or punitive or exemplary damages directly or indirectly arising from the sale, handling or use of the Equipment or from any other cause relating thereto, whether arising in contract, tort, warranty, strict liability or otherwise. Fagor's liability hereunder in any case is expressly limited, at Fagor's election, to the repair or replacement of Equipment or parts therefore or to the repayment of, or crediting the user with, an amount equal to the purchase price of such goods.



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