



700/800 SERIES FOOD WASTE DISPOSERS
--

INSTALLATION AND OPERATING MANUAL

PLEASE LEAVE WITH OPERATOR



723 1PH SERIES 1	725 1PH SERIES 4	726 1PH SERIES 4	800 1PH SERIES 3
723 3PH SERIES 2	725 1PH SERIES 5	726 3PH SERIES 5	800 3PH SERIES 3

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700/800 Series Food Waste Disposer

EC DECLARATION OF CONFORMITY

(Guarantee of Production Quality)



We, Imperial Machine Company Limited of:
Unit 1, Abbey Road, Wrexham Industrial Estate, Wrexham, LL13 9RF
Declare under our sole responsibility that the machine

723 1PH SERIES 1 3PH SERIES 2
725 1PH SERIES 4 3PH SERIES 5
726 1PH SERIES 4 3PH SERIES 5
800 1PH SERIES 3 3PH SERIES 3

As described in the attached technical documentation is in conformity with the Machine Safety Directive 89/392/EEC as amended by 91/368/EEC and 93/44/EEC and is manufactured under a quality system BS EN ISO 9001. It is also in conformity with the protection requirements of the Electro Magnetic Compatibility Directive 89/336/EEC and is manufactured in accordance with harmonised standards EN 55014-1 Generic Emission and EN 55014-2 Generic Immunity (plus product specific standards).

It also satisfies the essential requirements of the Low Voltage Directive 73/23/EEC amended by 93/68/EEC and is manufactured in accordance with standards BS EN 60335-1 and BS EN 60335-16.

Approved by S Witt, Product Support Manager

A handwritten signature in black ink, appearing to read 'S Witt', is written over a horizontal line.

Signed at Wrexham, Date

MAY 2012

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GUARANTEE

This machine is guaranteed by IMC for 1 year from the date of purchase from IMC or from one of its stockists, dealers or distributors.

The guarantee is limited to the replacement of faulty parts or products and excludes any consequential loss or expense incurred by purchasers. Defects which arise from faulty installation, inadequate maintenance, incorrect use, connection to the wrong electricity supply or fair wear and tear are not covered by the guarantee.

Please observe these instructions carefully

This guarantee applies in this form to installations within the UK only.


DELIVERY

The packaged machine also comes with a Release Key and Wall Plaque

Please notify the carrier and the supplier within 3 days if anything is missing or damaged.

Check that the correct machine has been supplied and that the voltage, marked on the rating plate on the motor, is suitable for the supply and control voltage available.

Figure 1 – Sample Rating Label

imc		IMPERIAL MACHINE COMPANY Ltd				CE	
		LL13 9RF, UNITED KINGDOM					
		TEL +44 (0)1978 661155					
FOOD WASTE DISPOSER				FREQUENCY(Hz)		60	
TYPE / MODEL		FWD 723		IP RATING		IP55	
VOLTAGE RANGE		440		dB (A)		80	
PHASE		3		AMPS (MAX)		2.8	
SERIES #		1		kW (MAX)		1.1	
SERIAL NUMBER = 6011110001							

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INTRODUCTION

These machines are intended for the disposal of food waste matter by maceration under water flow and discharge into the drainage system. Before fitting this appliance ensure that the installation is allowed by the authorities.

INSTALLATION

For the installer:

These instructions contain important information designed to help the user obtain the maximum benefit from the investment in an IMC food waste disposer. Please read them carefully before starting work, and consult the supplier in the event of any queries. Be sure to leave this Instruction Manual with the user after installation of the machine is complete.

Procedure

The 723 is designed to be welded into a sink outlet. Weld the disposer inlet assembly into a 83mm diameter prepared hole in the base of the sink and the water inlet into a 22mm diameter prepared hole in the side of the sink.

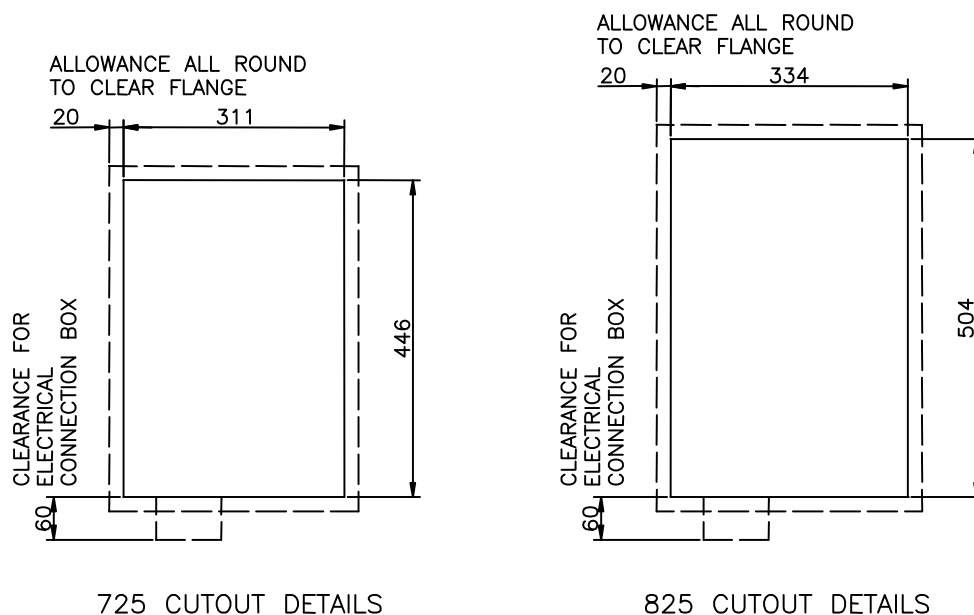
The 725 and 825 are designed to be welded into a tabletop, the required size of the cutout in the tabletop is shown below.

The 726, 826 and 826 Dump Station are designed to be free standing and must be bolted to the floor, using the bolt holes provided, to avoid straining the service connections.

When installing the food waste disposer ensure that the controls are located in a position that is readily accessible to unit operator.

The wall plaque supplied with the machine should be placed in a prominent position near the machine.

Figure 2 – 725 & 825 Tabletop cutout details



Waste Outlet Connection

All 700 & 800 Series Disposers have a 2" BSP female threaded outlet which is designed to be connected to 54mm copper or plastic piping. The size of the waste outlet must not be reduced. A running trap should be fitted although 'P' or 'S' type traps can be used. Do not fit a bottle trap. The length of run between the machine and the main junction must be kept to a minimum and the pipe must have a positive fall of at least 1 in 7. Changes of direction should be made with swept bends rather than elbows, and cleaning eyes should be fitted where possible, in accordance with standard plumbing practice.

The waste outlet position can be rotated at 90° intervals by unbolting the waste outlet casting from the hopper flange plate. Rotate the motor and waste outlet casting to the required orientation. Check that the gasket between the waste outlet casting and the flange plate is in place. Refit the nuts and bolts and tighten uniformly all round. Do not over tighten, but ensure that the gasket is nipped firmly and the hopper is rigidly fixed without any distortion of its bottom flange.

All Waste Disposers must have an independent drain pipe that does not also serve sinks, dishwashers or similar equipment. The end of the waste pipe must be beyond any grease traps and if the outlet feeds into an outside gully, the pipe should enter the gully below the covering grid. Use a back entry yard gully.

When fitting the trap make certain that the top invert of the trap lies below the waste outlet of the waste disposer. Failure to do this will prevent the machine from draining completely.

In case of difficulty contact your supplier or IMC.

Water Supply Connection

A cold water supply with a minimum head of 0.2 to 10 bar is required. This is connected to the units at the water control valve using a 15mm compression joint, supplied with the machine. A stopcock should be fitted to the water supply.

The rate of water flow for the disposal of normal food waste is 14-18 litres per minute for 700 Series machines and 18-27 litres per minute for 800 series machines. Adjust the water supply control valve to achieve the desired flow rate.

These machines have approval from the Water Research Centre to be connected to a potable water supply via a Class A air break or for connection to a storage cistern by a distributing pipe to which no fittings for other purposes are connected. IMC can supply Class A air break parts if required.

Electrical Connection

All electrical work must be carried out by a qualified electrician and in accordance with the IEE Codes of Practice. Examine the rating plate attached to the motor to ensure that the characteristics shown are correct for the supply available. The cables fitted to the controller are the minimum required for individual connection to the mains supply. Site conditions may vary with additional length of cable run, encapsulation in trunking, bunched with other cables etc. Should this apply, the electrician must alter the cable accordingly.

All machines are supplied with a starter with forward, reverse and stop buttons. The starter also controls the water flow. This unit must be connected to the mains supply using the starter provided. Omission of the starter eliminates overload protection for the motor and will invalidate the guarantee.

The 700/800 Series Disposers should be connected to a 30A isolator providing at least 3mm separation in all poles. The table below illustrates typical fuse ratings for an ambient temperature of 25 to 35°C. Should the environment temperature be greater than this, derate accordingly.

Unit	Voltage	Full Load Current	Fuse Rating per Phase
700	400-3-50	2.8 Amps	5 Amps
	230-1-50	7.4 Amps	15 Amps
800	400-3-50	5.3 Amps	15 Amps

The supply to the machine must also be protected by a 30mA RCD.

Warning: This appliance must be earthed.

If the supply cord becomes damaged it must be replaced by qualified electrician in order to avoid a hazard.

COMMISSIONING

1. Turn on the water supply, and check for leaks in the supply pipework.
2. Switch on the electricity supply.
3. Press one of the start buttons the unit will start and water flow into the disposer. Press the red button to stop the machine. All models are reversing and have two start buttons, one for each direction (check them both).
4. Inspect the waste piping for leaks. Adjust the water supply control valve to achieve the desired flow rate. Maximum flow is with the handle in line with the pipe.
5. Feed a small amount of food into the disposer to check that there are no obstructions in the waste pipe.
6. With the machine running unscrew the hopper baffle knob. The machine will switch itself off. By the time the knob is fully unscrewed and the baffle removed the rotor in the grinding chamber will have stopped.

USAGE

The 700/800 series disposers are designed for the disposal of food waste. Fat can be safely disposed of provided that it has solidified. Non food waste may also be disposed of in small quantities providing they are mixed in with the food waste.



DO NOT PUT CLING FILM, LIQUID FAT, STRING, CLOTH, PLASTIC, WIRE, GLASS, CORK, STYROFOAM OR METAL OBJECTS INTO THE DISPOSER.

Do not introduce waste into the machine unless it is running. More efficient disposal will be obtained by introducing mixed rather than accumulating and introducing waste of a similar nature into the disposer.

OPERATION

723 Disposer

1. Turn on the cold water tap to medium flow.
2. Press the START button. NOTE units are reversing and have two start buttons, one for each direction, use them alternately
3. Feed in the food waste and leave the machine running until the noise of grinding ceases.
4. Allow to run for 20-30 seconds longer to ensure thorough flushing through.
5. Press the red STOP button and turn off tap.

725, 726 and 800 Series Disposers

1. Close the baffle and screw the interlock knob fully down
2. Switch on at the mains isolating switch
3. Press the START button. NOTE units are reversing and have two start buttons, one for each direction, use them alternately
4. Place waste food into the baffle and push into the disposal chamber
5. Allow the machine to run until the disposal is complete. The noise of operation will indicate when the disposal chamber is empty.
6. Press the red STOP button

RELEASING A JAM

Food Waste Disposers can jam under overload or if unsuitable materials are placed inside. IMC machines are designed to withstand this and no damage will normally result as the machine will switch itself off. It is necessary to clear the jam as follows:

723 Disposer

1. Switch off at the mains isolating switch.
2. Take out any bulk waste in the baffle chamber. Rubber gloves are recommended
3. Lower the release wrench through the aperture in the baffles and locate between the hexagonal boss on the centre of the rotor and the vane of the rotor. Exert pressure in both directions until the jammed material releases.
4. Remove the release wrench
5. Switch on at the mains isolating switch.
6. Press the START button and continue disposal.

725, 726 and 800 Series Disposers

1. Switch off at the mains isolating switch.
2. Remove the baffle by unscrewing the interlock knob and lifting off.
3. Take out any bulk waste in the disposal chamber. Rubber gloves are recommended. If the item which blocked the disposer is apparent, remove it.
4. Place the hexagon socket of the release wrench over the central hexagonal boss on the rotor and lever backwards and forwards until the jammed material releases. Remove the release wrench and pull out the material.
5. Replace the wrench and ensure that the rotor is totally free throughout its full rotation. Remove the release wrench.
6. Replace the baffle, screwing the interlock knob fully home.
7. Switch on at the mains isolating switch.
8. Press the START button and continue disposal.

In the event of difficulty, call your supplier or the manufacturer for a qualified service engineer.

WATER FLOW CONTROL (OPTIONAL EXTRA)

Your IMC Food Waste Disposer is equipped with a device with which the operator can adjust the volume of water that flows through the Food Waste Disposer whilst it is processing food waste.

To reduce water flow, simply turn the water control knob to the left i.e. anti-clockwise.

To increase water flow, turn the knob to the right i.e. clockwise.

When operating the FWD, the water flow control should initially be set at its highest position before turning it down whilst the waste is being processed. The rate of water flow can be adjusted up or down for each installation to take account of unique factors such as the length of, and number of bends in, the drainage piping, the fall of the pipe, the amount of liquid already present in the waste and whether a Dewaterer and / or Grease Trap is fitted downstream of the FWD.

When operating the system on reduced water flow it is recommended that, at the end of each "session," the water flow is turned up full for a minimum of 15 seconds to ensure that any residue is flushed through the drainage system. A bucket of warm, soapy water poured into the FWD's hopper at the end of each day will both clean the equipment and help disperse any residual solids in the piping.

Note: The control knob operates within an arc from vertical (min water flow) to the 3 o'clock position (max water flow). Please do **NOT** force the control knob beyond its end stop positions.

Unless the FWD is being used to process food that is either consistently very wet or very dry, IMC recommends that the water pressure should be set at the mid-point of the published scale when the equipment is first installed.

CLEANING

723 Disposers

Clean the sink thoroughly after use.

725, 726 and 800 Series Disposers

Clean down thoroughly after use especially inside the hopper. Unscrew the interlock knob and open the baffle to gain access internally.

Cleaning is assisted by the use of a low pressure spray, an IMC Pre-Rinse Spray or a Reel-Kleen retractable hose reel.

Wipe over the exterior of the machine, including the back areas not normally visible with a damp cloth, using a mild detergent if required.

DO NOT USE CLEANING MATERIALS CONTAINING ABRASIVES OR BLEACHES. DO NOT STEAM CLEAN.

MAINTENANCE

12 Monthly, All models

Check for bearing wear by the sound of motor and side to side movement of rotor. Remove and clean the water strainer incorporated in the water control valve.

WARNING – BEFORE ATTEMPTING SERVICE WORK ENSURE THAT ELECTRICITY AND WATER SUPPLIES ARE TURNED OFF AT THE MAIN SUPPLY AND STOP COCK.

Regular inspection of catering equipment can extend its working life. Please phone IMC for details of service contracts.

DO'S AND DON'TS

- | | |
|--------------|--|
| DO | Ensure controls and isolator are accessible to the disposer operator. |
| DO | Switch on disposer before introducing the waste. |
| DO | Clean the machine after use. |
| DON'T | Place hands inside the grinding chamber. |
| DON'T | Put cling film, liquid fat, string, cloth, plastic, wire, glass, cork, styrofoam or metal objects into the disposer. |

FAULT DIAGNOSIS**Machine does not start**

Cause	Action
Electrical supply is not turned on.	Switch on supply.
The fuses have blown or the circuit breaker has tripped.	Call site electrician to change fuse or reset circuit breaker. If problem persists contact service personnel.
Baffle is not correctly fitted.	Check baffle is secured. If problem persists contact service personnel.

Unexpected system stop

Cause	Action
Electrical supply turned off.	Switch on supply.
The fuses have blown or the circuit breaker has tripped.	Call site electrician to change fuse or reset circuit breaker. If problem persists contact service personnel.
Baffle is not correctly fitted.	Check baffle is secured. If problem persists contact service personnel.
Waste jammed in disposer grinding unit.	Remove blockage from grinding unit. See instructions on page 6.
Motor overload has tripped.	Allow motor to cool for 10 minutes and restart. If problem persists contact service personnel.

Waste not processed

Cause	Action
A blockage has occurred in the waste pipe.	Clear blockage from waste pipe

ORDERING SPARE PARTS:

In the event that spare parts or accessories need to be ordered, please always quote the SERIES AND SERIAL NUMBER of the machine. This is to be found on the rating plate located near the supply cable.

For installations outside the UK please contact your supplier.

For information on IMC spares and service support (if applicable), please call IMC on +44 (0)1978 661155. Alternatively, contact us via email or fax:

IMC Service Desk

Fax: +44 (0)1978 667766

E-mail: service@imco.co.uk

IMC Spares Desk

Fax: +44 (0)1978 667759

E-mail: spares@imco.co.uk

MATERIAL CONTENT

The 700/800 Series disposers contain the following material:

Metals	Stainless steel, mild steel, brass and copper.
Plastics and rubber	Neoprene rubber. ABS and nylon
Other	Electrical components