

# GREASE TRAP SYSTEMS

## GREASY WATER LIFT SYSTEM

Under bench installation



## PROTECTING THE ENVIRONMENT

Mastrap Grease Traps are chosen nationwide for their robust and lightweight construction, ease of installation and they are a trusted first choice for cafes, restaurants, hotels, retirement villages and major hospitality venues. Mastrap is known for creating innovative systems like this self-cleaning under bench pump chamber that lifts greasy water to a conveniently located grease trap.



### Product Code<sup>1</sup>

Prefix	MTUB
Size	60/100/250
Mono or Duo Pumps	M/D
Hot Water Jets	J
Float Switch or Duty Control	F/C

## OPERATION

The Mastrap Greasy Water Lift System is designed to move fat, oil, and grease laden water from a commercial kitchen to a grease trap. The small pump chamber is located inside the kitchen and all the greasy water is lifted to the grease trap. The pump chamber comes with a self-cleaning function that activates regularly to spray hot water onto the pump(s) and float activation system.

The Greasy Water Lift System moves the greasy water through a pressure pipe to a conveniently located grease trap where separation occurs. The separation of fat, oil and grease from the wastewater happens away from the kitchen and there is little maintenance required by kitchen staff.

The greasy water lift is generally used where there is a good location for an external grease trap but, for whatever reason, it is not possible to have gravity flow from the kitchen to the grease trap.



<sup>1</sup> Example: 100L chamber with single pump, control system, and hot water jets = MTUB100MCJ



## OPTIONS

### Chamber Size

The Greasy Water Lift System is available with three chamber sizes, 60L, 100L and 250L. The chamber should be sized to contain the hydraulic volume of all fixtures discharged so that the high-level alarm activates in the event of a pump outage, but the unit does not overflow or backflow.



	MTUB60	MTUB100	MTUB250
Length (mm)	605	730	1020
Width (mm)	400	430	530
Height (mm)	353	430	580
Inlet DVW 50mm PVC. Inlet Invert - Minimum of 180mm			
Outlet 40mm threaded BSP			

### Mono or Duo Pumps

The Greasy Water Lift System is fitted with mono (single) or duo (dual) pumps. When fitted with the optional Duty Controller the dual pumps will operate in duty cycle mode and high-level backup. Duty cycle means that in each pump cycle the alternate pump is activated. In this way the pumps share the load. High-level backup means that in the event of a high-level alarm the alternate pump activates concurrently to reduce the level. High-level backup protects the operation from a single pump failure and/or an unexpected inflow.

### Float Switch or Duty Control

The pump(s) can be fitted with a float switch or operate with duty control. A float switch is usually only appropriate with a mono (single) pump. Where duo (dual) pumps are fitted duty control will provide better pump utilisation. Enhanced features are only available with duty control, either mono or duo.

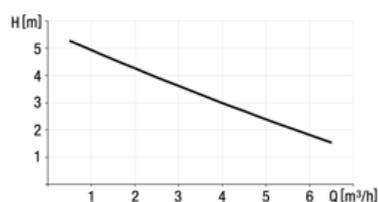
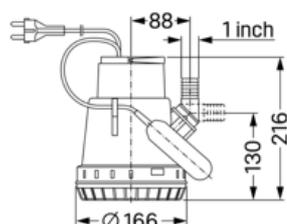
### Hot Water Jets

Lifting greasy water is problematic because the pump chamber inevitably turns into a primary grease trap. The Greasy Water Lift System helps mitigate the issues associated with a greasy water lift by incorporating hot water rinse jets to clean the chamber with every pump cycle.

## PUMP SPECIFICATION

The standard Greasy Water Lift System pump is the Kessel KTP300. For lifts higher than 3m or for wastewater with high levels of particulate matter then alternative pumps may be specified. The "one-hand snap closure" feature means that special tools are not required to remove the pump.

Input Power	Voltage	Operating Mode	Pumping Capacity	Pumping Height
280W	230V	S1	Max 8m <sup>3</sup> /h	Max 5m





## CONTROLLER

The Duty Controller supports duty cycle for dual pumps. The Duty Controller manages the dual pumps in duty cycle mode and high-level backup. Duty cycle means that in each pump cycle the alternate pump is activated. High-level backup protects the operation from a single pump failure and/or an unexpected inflow.

## INSTALLATION

### Location

Locate the Greasy Water Lift System on a firm surface and (if necessary) brace it to a wall or alternative support to prevent it from moving or tipping. Ensure there is room above the Greasy Water Lift System so the access cover can be fully opened and allow for the pumps to be removed for servicing.

If space above the unit is limited, then consider optional Easy Removal Trolleys and Quick Connect fittings so that the Greasy Water Lift System can be quickly disconnected from the plumbing and rolled out from under the bench for cleaning.

### Connections

The inlet connection is DVW 50mm PVC. The outlet piping should be 40mm High Pressure PVC. The outlet connection is 40mm threaded BSP.

## CARE AND SERVICING

### Water temperature

The Greasy Water Lift System can operate with water temperatures up to 60°C. Higher inflow temperatures require the cold-water refill option.

### Sink Filters

Ensure food scraps and sauces are scraped from plates and utensils to trash before washing.

Ensure that sink filters and/or food traps are installed in the sinks. If food scraps, sauces, flours, and other solids build up as sediment in the bottom of the Greasy Water Lift System there will be an increased need for maintenance and can be a source of unpleasant odours.

## WARRANTY

Provided that the system is installed and operated in accordance with the specifications provided with each system:

1. The Greasy Water Lift System chamber is warranted for quality of manufacture for one (1) year.
2. The pump and electronic components included are warranted for a period of one (1) year. The pump warranty does not include failure that can be attributed to excess temperature.
3. All warranties are for parts or system replacement only, such part or system replacement at the absolute discretion of Mactrap and does not include labour or other charges from associated service suppliers.
4. Mactrap warranty does not include maintenance and servicing of the Greasy Water Lift System.

