

# INSTRUCTION MANUAL

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## 240V UREA/DEF IBC TRANSFER KIT

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L-UPM240V



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## DESCRIPTION

The 240 volt electric UREA/DEF pump is a self priming diaphragm pump with built in by-pass valve and IP55 protection. The kit is supplied complete with turbine meter, manual nozzle, 1.5m long suction hose and 6m long delivery hose.

## TECHNICAL INFORMATION

**Voltage - 240V AC**

**Power - 300 watts**

**Frequency- 50Hz**

**Flow rate - 25LPM (free flow)**

**Temperature - -10°C / +60°C**

**Relative Humidity - Max 90%**

**Duty cycle - Continuous**

**Inlet / Outlet - 3/4"**

**Maximum acceptable voltage variation is +/- 5%**



### IMPORTANT

**THIS PUMP SHOULD BE USED WITH UREA/DEF AND WATER ONLY**

**THE PUMP MOTOR IS NOT AN ANTI-EXPLOSIVE TYPE.**

Do not install pump where flammable vapours are present.

**DO NOT use this pump with gasoline, diesel or any other fluids unless specified by the manufacturer of this pump.**

### NOTE:

1. This pump has a continuous duty cycle.
2. Maximum by-pass run time is 2 minutes.

## PRELIMINARY INSPECTION

1. Open carton and check the pump for any signs of damage.
2. Clean the inlet and outlet openings with care, removing any dust or packing residue.
3. Make sure that the motor shaft turns freely.
4. Check that the electrical information corresponds with what is shown on the label.

## INSTALLATION

1. Connect the 1.5m suction hose to the hose tail and clamp supplied and fit the hose securely to the pump inlet.
2. Connect the 6m delivery hose to the hose tail using clamp supplied and fit securely to either the pump outlet or outlet of the flow meter.
3. Connect the flow meter to the Elbow on the pump.
4. Connect the dispensing nozzle to the delivery hose and secure with the clamp supplied.

## INITIAL START UP

**Note:** After assembly and installation is completed connect the power supply to start dispensing.

**Note:** When required, it is the operators responsibility to use the correct size hoses as specified in this manual.

Check all connections on a daily basis to ensure they are tight and leak free. Tighten and re-seal if necessary.

## OPERATION

1. Fit the flexible suction hose into the tank /IBC
2. Before starting the pump, make sure that the delivery nozzle is closed (dispensing nozzle or line valve).
3. Turn the ON/OFF switch to ON. The by-pass valve allows functioning with the delivery closed only for brief periods.
4. Open the delivery valve to start flow.
5. Close the delivery valve to stop dispensing.
6. When dispensing is finished, turn off the pump.

**Note:** With the nozzle is closed, the pump must only run in by-pass mode for a maximum of 2-3 minutes.

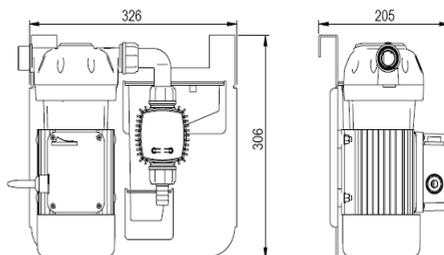
## MAINTENANCE

The pumps are designed and constructed to require a minimum of maintenance.

The following maintenance checks are recommend:

- On a weekly basis, check that the hoses and joints are tight and leak free.
- On a monthly basis, check the pump body and keep it clean of any impurities.
- On a weekly basis, check and keep clean the line suction filter.
- On a monthly basis, check that the electric power supply cables are in good condition.

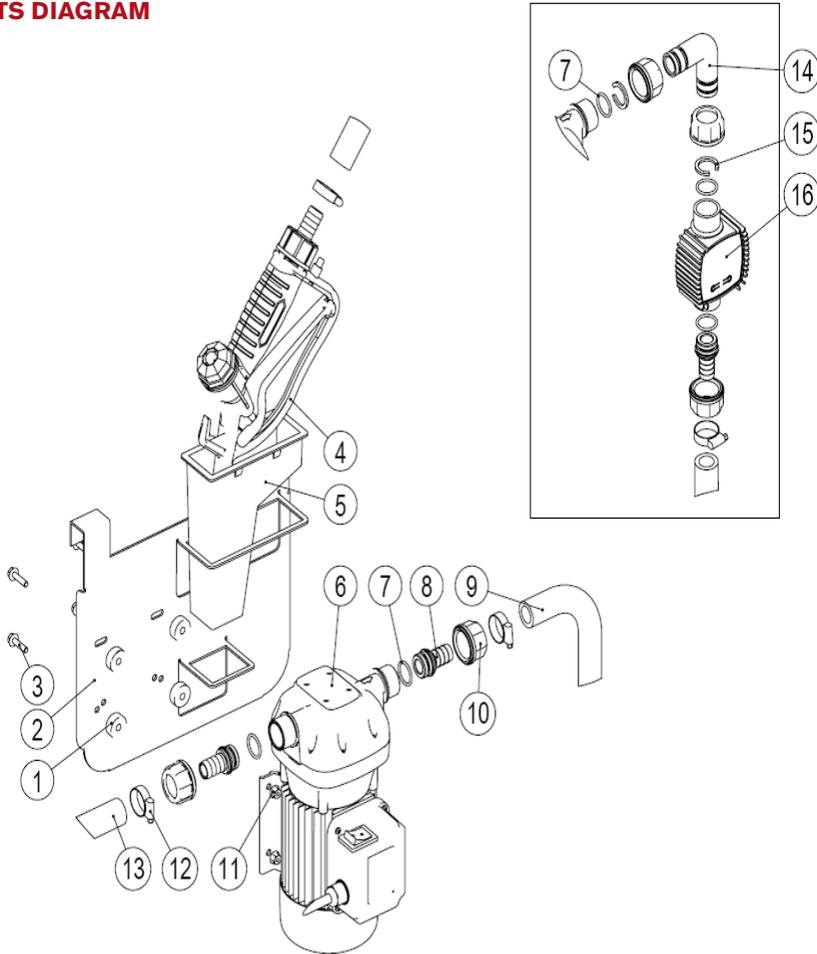
## DIMENSIONS



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## PARTS DIAGRAM



No	Description	Qty
1	Mount pads	4
2	Bracket	1
3	Bolt	1
4	Nozzle	1
5	Nozzle holder	1
6	Pump	1
7	O-ring	2 (4)
8	Hose tail	3

No	Description	Qty
9	Delivery hose	6m
10	Nut	2 (4)
11	Nut	4
12	Hose clamp	3
13	Suction hose	1.5m
14	Elbow	1
15	Circlip	2
16	Meter	1

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## TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
The motor is not turning	No power	Check electrical connections and power supply
	Motor faulty	Replace pump if the motor is faulty.
The motor turns slowly when starting	Low voltage to pump	Check for correct voltage into the pump
Low or no flow rate	Low or no fluid in tank	Re-fill tank
	Filter blocked	Clean filter
	Excess suction pressure	Lower the pump to be closer to the tank or increase the diameter of the suction hose/pipe
	By-pass valve no fully closing.	Inspect by-pass valve and ensure correct operation
	Sucking in air at the suction hose/tube connections.	Re-seal suction connections
	Suction tube is collapsing or is blocked	Replace suction hose with non-collapsing type or clear blockage.
	Suction tube is sitting on the bottom of the tank	Raise suction hose/tube
Increased pump noise	Fluid Cavitation	Reduce suction pressure
	By-bass valve not working correctly due to air in the system	Dispense fluid until the air is purged from the by-pass system
Leakage from pump body	Damaged diaphragm	Check and replace diaphragm