



FujiMAC Air Pump

Instruction Manual

Model:

- FujiMAC40 R2 FujiMAC60 R2 FujiMAC80 R2
 FujiMAC100 R2 FujiMAC120 R2 FujiMAC150 R2
 FujiMAC200 R2 FujiMAC250 R2 FujiMAC300 R2

Serial number: _____

Installation Date: _____

Register your
FujiMAC here:



fujimac.co.uk/warranty



Air hose sold separately

www.fujimac.co.uk

Instruction Manual

Thank you for purchasing the FujiMAC Air Pump. Be sure to read through this manual to gain full understanding before proceeding to actual operation. Please retain this manual for future reference.

SAFETY PRECAUTIONS

Read the precautions carefully before operating the air pump. The contents of this section are vital to ensure safety. Please pay special attention to the following sign.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury and/or property damage.

WARNING

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

FOR HOME USERS

WARNING – Preventing electrical shock

Do not try to open or repair the air pump yourself. Only trained personnel can provide the overhaul and repair services as needed.

CAUTION – Working air pump is hot

When in operation, the lower part of the air pump gets hot. Do not touch directly.

Neglecting this note may cause injury and burn.

CAUTION – Preventing lightning damage

Shut down the power or unplug in a thunderstorm.

Neglecting this note may cause damage to the air pumps.

CAUTION – Do not place flammable materials near the air pump

Neglecting this note may cause fire.

CAUTION – Do not step on the air pump or place any object on the air pump

Neglecting this note may cause damage to the air pumps and/or injury.

CAUTION – Do not throw water on the air pump

Neglecting this note may cause damage to the air pumps and/or electrical shock.

For Installers

INSTALLATION

WARNING

- All electrical work must be performed by a licensed electrician.
- Do not place any object on the power cord.

Neglecting this note may cause electric shock and/or fire.

CAUTION

- The diaphragms will be damaged by the chlorine gas and/or other fume so any hole and gap (i.e. conduit or air pipe) where the chlorine gas could pass through to the air pump must be sealed completely with silicon sealant or any suitable materials.
- The air pump should be installed in a well ventilated place and away from direct sunlight preferably undercover.
- Install the air pump in a place which has neither direct rain, water splashing nor water immersion.
- Do not install the air pump at the place which is under the kitchen fan or possible to take air including oil into the air pump.
- Avoid installing the air pump in a bedroom or other places where noises may be a nuisance.
- Install the air pump in a place that provides easy access for inspection and maintenance.
- Install the air pump close to the use point, preferably **within 5 meters**.
Pipe work should be with minimum bends.
- Install the air pump in a place where is apart from the building wall by over 20cm using a concrete base so as not to transfer the vibration.
- Make sure the concrete base for the air pump is level.
- Connect the air pump and the pipe by a rubber tube; tighten by a pinch cock.
- Insert the power plug firmly into the power point. Do not pull out the plug by the cable. It may damage the cable.
- The air pump must be connected to a grounded, metallic, permanent wiring system, or an equipment-grounding terminal or lead on the product.
- Please be sure to conduct earth construction work. (2 hole plug case)

FOR FREIGHT / EXPRESS / COURIER COMPANIES

CAUTION

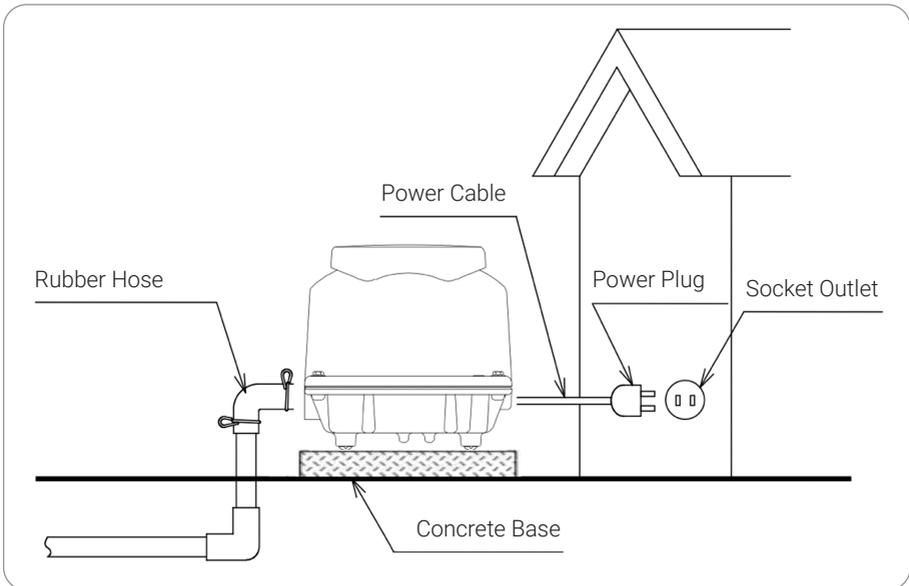
- Do not drop, throw or tilt the air pump during the transportation. The internal parts may get damaged, and the air pump may not be working properly.

TEST OPERATION

CAUTION

- The airline outlet area must be filled with water up to the prescribed line before turning on the air pump.
- Make sure the aeration is conducted properly.
- Make sure the air pump is making no abnormal noise and vibration.
- Measure the working pressure between the use point and air pump. The accepted value for the pressure is $\pm 20\%$ of the normal pressure which is specified on the air pump name plate.

EXAMPLE OF SUGGESTED INSTALLATION



Inspection and Maintenance as required

A diaphragm change is only permitted by trained maintenance personnel. Work on electrical components may only be carried out by qualified electricians in accordance with the applicable regulations.

AIR FILTER

INSPECT AND CLEAN EVERY 3 OR 4 MONTHS AND REPLACE EVERY YEAR

In order to optimize the lifespan of the air filter when it is used in areas where dust accumulation may be high, frequent maintenance is required. If the air filter gets too dirty, replacement will be necessary.



ATTENTION

Neglecting this note may cause abnormal heat generation, decrease in air flow volume, and/or early breakdown of the diaphragm.

DIAPHRAGM/VALVE

REPLACE THE DIAPHRAGM/VALVE EVERY YEAR

If the diaphragm/valve becomes damaged, the automatic stop function engages (except FujiMAC40 R2). Further action must be taken to rectify the problem or deterioration of the use point due to an inoperable air pump may result. A discernible odour will be present in this event. The diaphragm/valve assembly should be replaced before it gets damaged.



ATTENTION

Neglecting this note may adversely affect the performance of the use point.

PRESSURE

HIGH PRESSURE IS STRICTLY PROHIBITED

Irregular heat generation and/or early diaphragm breakage may result if operation of the air pump is sustained at an abnormally high pressure. The accepted value for the working pressure between the use point and the air pump is +/- 20 % of the normal pressure which is specified on the pump name plate.



WARNING

Neglecting this note may cause material damage.



ATTENTION

Working air pump is hot! While operating, the lower part of the air pump gets hot. Do not touch directly. Neglecting this note may cause injury and burn.

POWER PLUG

FIRE ACCIDENT PREVENTION



WARNING

Check whether any dirt and/or dust has built up on the power plug at least once a year and insert to the base and fit firmly. Dirt/dust accumulation and/or a faulty connection may cause electric shock and/or a fire accident.

AUTO-STOP FUNCTION

MAKE SURE TO INSPECT THE FUNCTION EVERY TIME THE DIAPHRAGM/VALVE ASSEMBLY IS REPLACED

Remove the auto-stop piece and put in the plug to ensure the auto-stop function works properly. After checking, disconnect the plug from the power point and set the auto-stop piece in the right position. (See below)



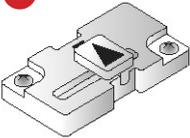
WARNING

Make sure to turn off the power when replacing the diaphragm/valve assembly and/or handling the auto-stop piece. Neglecting this note may cause an electric shock.

1 HOW TO REMOVE AN AUTO-STOP PIECE

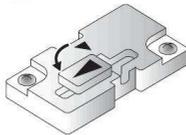
WATCH ONLINE

1



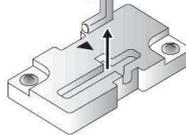
Normal position.

2



Turn auto-stop piece and face ▲ symbol along slit.

3



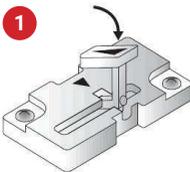
Remove auto-stop piece from air pump auto-stop holder.



fujimac.co.uk//maintenance

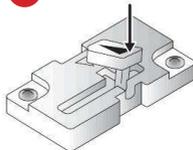
2 HOW TO SET AN AUTO-STOP PIECE

1



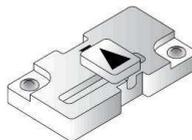
Face ▲ symbol from auto-stop piece towards ▲ symbol on auto stop holder and slide the piece into the holder.

2



Push in until it clicks.

3



Ready for use.

SPECIFICATIONS

Model		FujiMAC40 R2	FujiMAC60 R2	FujiMAC80 R2	FujiMAC100 R2	FujiMAC120 R2
Air Flow Volume	L/min	40	60	80	100	120
Normal Pressure	mbar	120	150		180	
Rated Voltage	V	230-240				
Frequency	Hz	50				
Outlet Pipe Size		O.D.18mm (I.D.13mm)				O.D.26mm (I.D.20mm)
Weight	kg	5.0				
Power Consumption (at Normal Pressure)	W	27 / 28	35 / 38	47 / 51	68 / 80	86 / 101
Rated power input (at open flow)	W	36	67	70	90	130
Power Cable		2 or 3 x 18AWG x 1.5m				
Country of Origin		Japan				

Model		FujiMAC150 R2	FujiMAC200 R2	FujiMAC250 R2	FujiMAC300 R2
Air Flow Volume	L/min	150	200	250	300
Normal Pressure	mbar	200			
Rated Voltage	V	230-240			
Frequency	Hz	50			
Outlet Pipe Size		O.D.26mm (I.D.20mm)			
Weight	kg	9.0			
Power Consumption (at Normal Pressure)	W	100 / 125	140 / 159	186 / 226	250
Rated power input (at open flow)	W	170	205	260	280
Power Cable		2 or 3 x 18AWG x 1.5m		2 or 3 x 18AWG x 1.5m or 2.0m	
Country of Origin		Japan			

200mbar is equivalent to 2m water depth.

OVERALL VIEW (ALL DIMENSIONS IN MILLIMETERS)

FujiMAC40 R2	FujiMAC60 R2 / 80 R2 / 100 R2
<p>Technical drawing of FujiMAC40 R2 showing top, front, and side views. Dimensions: top width 207, front width 182, height 161, depth 33, diameter 18, and base width 110.</p>	<p>Technical drawing of FujiMAC60 R2 / 80 R2 / 100 R2 showing top, front, and side views. Dimensions: top width 207, front width 182, height 161, depth 33, diameter 18, and base width 110.</p>
FujiMAC120 R2	FujiMAC150 R2 / 200 R2 / 250 R2 / 300 R2
<p>Technical drawing of FujiMAC120 R2 showing top, front, and side views. Dimensions: top width 207, front width 182, height 161, depth 33, diameter 26, and base width 110.</p>	<p>Technical drawing of FujiMAC150 R2 / 200 R2 / 250 R2 / 300 R2 showing top, front, and side views. Dimensions: top width 325, front width 300, height 180, depth 25, base width 186, and base depth 104.</p>



Service Log



Installed:	/ /	
	Maintenance Date	By
Clean Filter	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Change Filter	/ /	
Change Diaphragm	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Change Filter	/ /	
Change Diaphragm	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Change Filter	/ /	
Change Diaphragm	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Clean Filter	/ /	
Change Filter	/ /	
Change Diaphragm	/ /	

Warranty



fujimac.co.uk/warranty

SCAN TO

REGISTER YOUR WARRANTY

- 12 month warranty as standard on all FujiMAC R2 / RII air pumps
- Register your FujiMAC R2 / RII within 30 days of purchase to activate your **FREE 2nd year of warranty** and receive a **FREE** replacement air filter
- Extend your warranty to 3 years, for a modest fee, and get a **FREE** service kit including replacement diaphragm and air filter



Air hose sold separately.

Warranty - terms and conditions apply, parts only,
does not affect your statutory rights, see website for full details (www.fujimac.co.uk/warranty).

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MADE IN
JAPAN



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The FujiMAC R2 / R11 model range is optimised for aeration of wastewater, septic tanks and packaged sewage treatment. Please refer to datasheets (available at www.fujimac.co.uk) for normal operating parameters. Air hose sold separately.



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