

Macerator Pump 43 L – 11.5 Gal

- Shred toilet waste before pumping into septic holding tank or when emptying the septic tank at a dockside facility
- High capacity, self-priming impeller pump for discharging toilet waste water.
- Self-priming up to 1.5 m (5 ft)
- 43 Lt/min (11.5 USGPM)

Operation

1. Your Albinus Macerator 43 L Pump utilizes a rotary cutter to shred toilet waste so that it can easily be pumped through a 25 mm (1") inner diameter discharge hose and an impeller pump to pump the waste into an onshore treatment facility or overboard – please adhere to local and national regulations regarding the dumping of toilet waste into the waterways.
2. As is common for all impeller pumps, the impeller is lubricated by the liquid being pumped. If the impeller is run dry, frictional heat will build up quickly and damage the impeller and possibly the pump itself.
3. Never allow the pump to run dry for more than 30 seconds.
4. Install a momentary switch near the macerator pump so that the operator can hear the pump and immediately switch off the pump when the tank is empty (the operating sound of the pump will become louder and at a higher frequency).
5. The pump is not rated for continuous duty. Do not run the pump for longer than 15 minutes. Approximately 1 to 2.5 minutes operation will empty holding tanks from 30L (8 gal) to 100L (26 gal) tank. Make sure the battery is fully charged.
7. The macerator pump unit has been designed to handle waste and toilet tissue. It will also handle solid objects such as cigarettes, cigars, and small chunks of soft fruits or vegetables.
8. The holding tank and the pump should be flushed with much water after each pumpout.
9. After long periods of non-use, the flexible impeller may stick to the pump body preventing the macerator pump from turning freely. If this occurs, it should be disassembled, cleaned and assembled again.

Temperature

Max. ambient temperature +60°C (140°F).

Freezing weather

Glycol based anti-freezes can be used.

Do not use petroleum based anti-freeze products.

Installation

1. Your Albinus Waste Water Macerator 43 L Pump is self-priming up to 1.5 m (5 ft) may therefore be installed above your waste holding tank. For optimum operation, install the macerator pump as close as possible to the waste holding tank. Capacity of the pump is 43 L/min (11.5 USGPM) at a 3 m (9.8 ft) total head.
2. Use 38 mm (1½") inner diameter spiral reinforced smooth bore flexible (radiator type) suction hose.
3. Secure all hoses with proper hose clamps.
4. **Notice:** an air leak anywhere in the suction side of the plumbing system can cause an extended dry running which may result in damage to the impeller and pump.
5. All suction connections must be airtight and free from sharp bends or restrictions. If a waste deck fitting (for dockside pumping) is installed, it too must be airtight to ensure a proper priming.
6. Be sure there are no leaks around the deck plate cap or hose tail.
7. Use minimum 25 mm (1") ID hose for discharge and connect the thru-hull fitting located approximately 100 – 150 mm (4 – 6") above water-line.
8. **Notice:** the discharge thru-hull may be positioned below the water-line only if the discharge hose has a vented loop fitting installed at least 200 mm (8") above the water-line at all angles of heel or trim.

Through-hull fittings

For overboard waste disposal you will need through-hull fittings.

- 25 mm (1") full-bore seacock for the waste outlet.
- 25 mm (1") (Albinus part no. 07-66-028) vented loops

Follow the seacock manufacturer's instructions concerning materials and methods of installation.

Pipework: general instructions

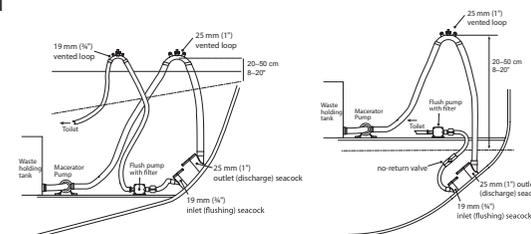
- Spiral reinforced smooth bore flexible hose for the 38 mm (1½") and 25 mm (1") internal diameter discharge hoses
- Stainless steel hose clips for the hoses
- Secure the hose runs so that the hoses cannot move, nor exert any leverage action on the hose tail fittings to which they are connected, as this may cause adjacent joints to leak

Pipework: Discharge overboard below the waterline

If the macerator pump is connected to any through-hull fitting below the waterline, for example during heavy seas, there is the risk of water flooding in, causing the boat to sink, which may result in loss of life. Therefore, if the rim of the toilet is less than 20 cm (8") above the waterline when the craft is at rest, or if there is any possibility that the overboard waste discharge may be below the waterline at **ANY** time, a **vented loop MUST** be fitted in any pipework connected to a through-hull fitting. The loop must be vented to avoid the siphoning of water back into the boat through the discharge outlet.

Discharge: 25 mm (1") Vented Loop fitting Mounting

- Arrange the discharge hose, so that its highest point is at least 20 cm (8") above the waterline and fit the vented loop at the highest point.
- Run the discharge hose from the macerator pump to the vented loop
- Run the discharge hose from the vented loop to the seacock

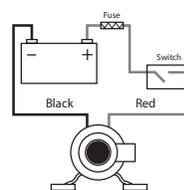


Electrical connections

The circuit for the macerator pump power supply must be independent and cannot be used for any other appliance. Connect the battery positive terminal to a fuse of adequate capacity load.

1. Connect the red wire from the pump to the appropriate connection on your controller switch. See the Switch manufacturer's wiring instructions
2. Connect the switch to the battery positive (+) terminal via a fuse
3. Connect the black wire from the pump to the battery negative (-) terminal

		Wire size per feet and meter of run (3% voltage drop)					
Voltage	Fuse size	0 m – 2.5 m (0'-10')	2.5 m – 4.2 m (10' – 15')	4.2 m – 6.8 m (15' – 25')	6.8 m – 10.1 m (25' – 40')	10.1 m – 16.9 m (40' – 60')	16.9 m – 27 m (40' – 60')
12V	20 A	1.5 mm ² (#16)	2.5 mm ² (#14)	4 mm ² (#12)	6 mm ² (#10)	10 mm ² (#8)	16 mm ² (#4)
		0 m – 11 m (0'-10')	11 m – 18.3 m (0'-10')	18.3 m – 29.3 m (0'-10')			
24V	12 A	1.5 mm ² (#16)	2.5 mm ² (#14)	4 mm ² (#12)			



part no. 03-01-005 12V • 12 A • fuse 20 A

part no. 03-01-006 24V • 7 A • fuse 12 A

Replacement Impeller Albinus part number 06-01-009

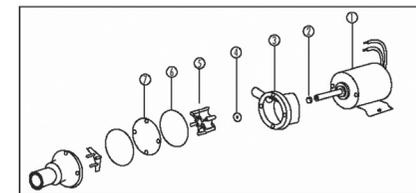


Waste handling & material recycling

At the product's end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts according to material.

Warranty

One year limited warranty.



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since 1928

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