

# PORTAMIST MKII ASSEMBLY & OPERATION MANUAL



[Webpage > ozmist.com.au/portamist-mk2-misting-fan/](http://ozmist.com.au/portamist-mk2-misting-fan/)

# PORTAMIST MK2 SPECIFICATIONS

The OZmist PortaMist MK2 portable misting unit is a star performer. It provides fast and efficient cooling with the added advantage of it's own on board water tank. Simply fill the tank or leave connected to a garden hose and plug into a 10amp power supply. A full tank of water will provide cool refreshing mist for around 4 hours.



**FILL,  
PLUG IN  
& GO**

**4 Hrs RUN TIME!**



**OVERALL HEIGHT:**  
2,000mm Fully Extended

**TANK CAPACITY:**  
70 litres

**POWER SUPPLY:**  
240 volt, 50 Hz, .4KW  
combined power usage

**PUMP:**  
Power 0.25KW  
RPM 1350  
Triplex Piston  
Oil 10W40 Fully Synthetic  
Operates at 1,000PSI

**FAN:**  
3 Speed, Variable  
Oscillating Function  
Oscillating On/Off control

**SPEED MAX**  
RPM 1450, Power 150Watts,  
0.72AMPS  
Motor water resistant IP54



# UNBOXING YOUR NEW PORTAMIST MKII MISTING FAN

There are three main components you need to unpack before the assembly of your new Portamist MKII Fan can take place.

- The KTW2460 Fan Head.
- Portamist Tank / Control Body.
- Portamist Fan Mounting Pole.

Please note that each KTW2460 Misting Fan comes with its original wall mount bracket. This component is not used in the assembly.

Once each component is unpacked you can begin to assemble the fan.



# ASSEMBLING YOUR NEW PORTAMIST MKII MISTING FAN

## 1) First step is to fit the Fan Pole.

We will begin by removing the two wing nuts that are located on the Front & Top of the Pole mount hole, these can be set aside for now.

With your hand over the top of the silver collar remove the through bolt that holds the collar in place, there is a large spring under the collar that can cause it to pop out if not careful. Remove the collar and the through bolt, these can be set aside.

Now take the Fan mount Pole and slide the black rubber end into the hole first, it can take a small amount of leverage to get the pole in on top of the spring, it is designed in a way that it cannot be removed once installed. Once the Pole is seated in the hole, the silver collar can be re-installed by sliding it over the top of the pole.

You will notice that there are several holes in the lower end of the Fan mounting Pole, these holes will be used to locate the through bolt. With pressure on the Pole, locate the correct hole and install the through bolt. (make sure that the two holes at the top of the Fan Pole are facing the rear of the Machine).

Once you have the pole secured the Front and Top wing nuts can be re-installed.





# ASSEMBLING YOUR NEW PORTAMIST MKII MISTING FAN

2) Second Step is to fit the KTW2460 Misting Fan and connect the power source.

With the Pole installed firmly in the Portamist MkII Body, the Fan can be installed on the top of the Pole. Each KTW Fan weighs roughly 17kg and can be awkward to hold up high to locate on the Pole, it is recommended that two people complete this step if required.

Once the Fan has been fitted you will need to use the two bolts that are supplied installed on the Portamist Pole to anchor the Fan to the Pole. Each bolt required a Screwdriver to tighten.

When the Fan is mounted and firmly anchored you will need to connect the Fan to its power source. There is one black 3 - Pin plug that comes out of the Fan and a matching Plug that comes out of the Body of the Portamist, these Plugs must be connected as shown to the right. Any excess power cable should be strapped to the Pole or Cable tied to be out of the way.

Be sure to leave enough cable for the Fan to oscillate left and right. If the cable is too tight this can damage the Plug and the Fan.



## ASSEMBLING YOUR NEW PORTAMIST MKII MISTING FAN

3) The Third and final step is to connect the water supply to the fan.

you will find a thick Hydraulic Hose that comes out of the Portamist MkII's body, this hose has a silver quick-release fitting attached to its end.

You need to separate the two fittings on the end of the hose by pulling the knurled collar back towards the hose and pulling the end fitting in the other direction.

The barbed fitting will thread into the Fan head, you will need to use a spanner or shifter to get this fitting nice and firm (please note the fitting has thread tape pre-applied).

Once the fitting has been tightened firmly you can connect the other half of the hose. The Hose can be routed around the back of the pole to keep it out of the way.

**Do not** tension the Hydraulic Hose tightly against the frame, if there is not enough flex to accommodate the oscillation you can damage the hose and/or fittings.

Your Portamist MkII is now ready for use.



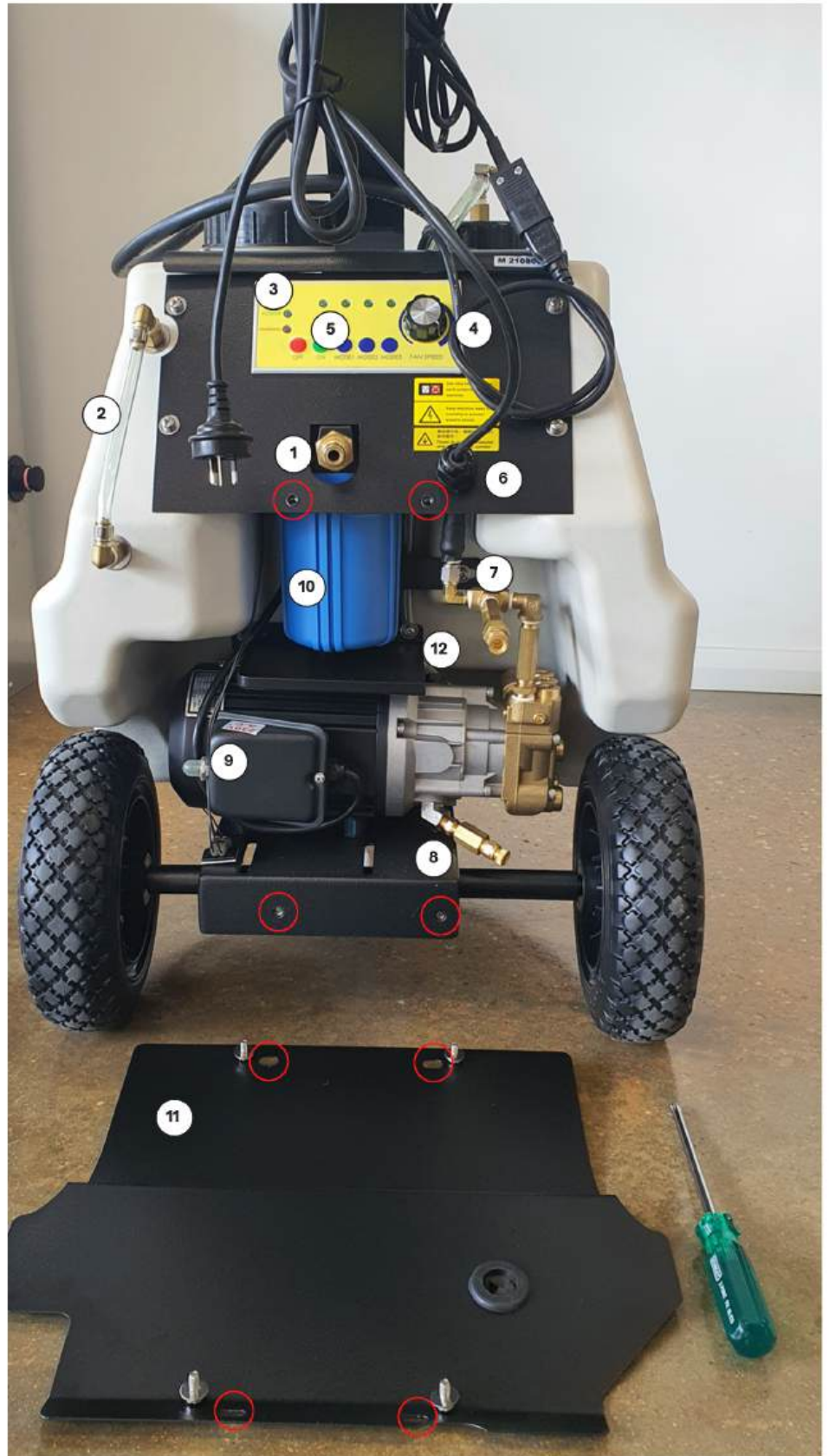


# PORTAMIST MKII CONTROL PANEL

- 1 Constant Water Connection
- 2 Sight Glass for Water Level
- 3 Operational LED Indicators
- 4 Fan Speed Dial (Not used)
- 5 On/Off Buttons, Mode 1 to 3 are Preset Timer Modes
- 6 Power Cable 240v 10a 3-Pin Plug
- 7 Air Bleed Valve
- 8 Oil Drain Valve
- 9 Contactor Trip Switch
- 10 Inlet Water Filter
- 11 Rear Cover with Screws
- 12 Oil Fill Port

## Servicing Your Portamist MkII

Please refer to the supplied documentation for service intervals. Each Portamist Unit is sold with a spare parts bag.



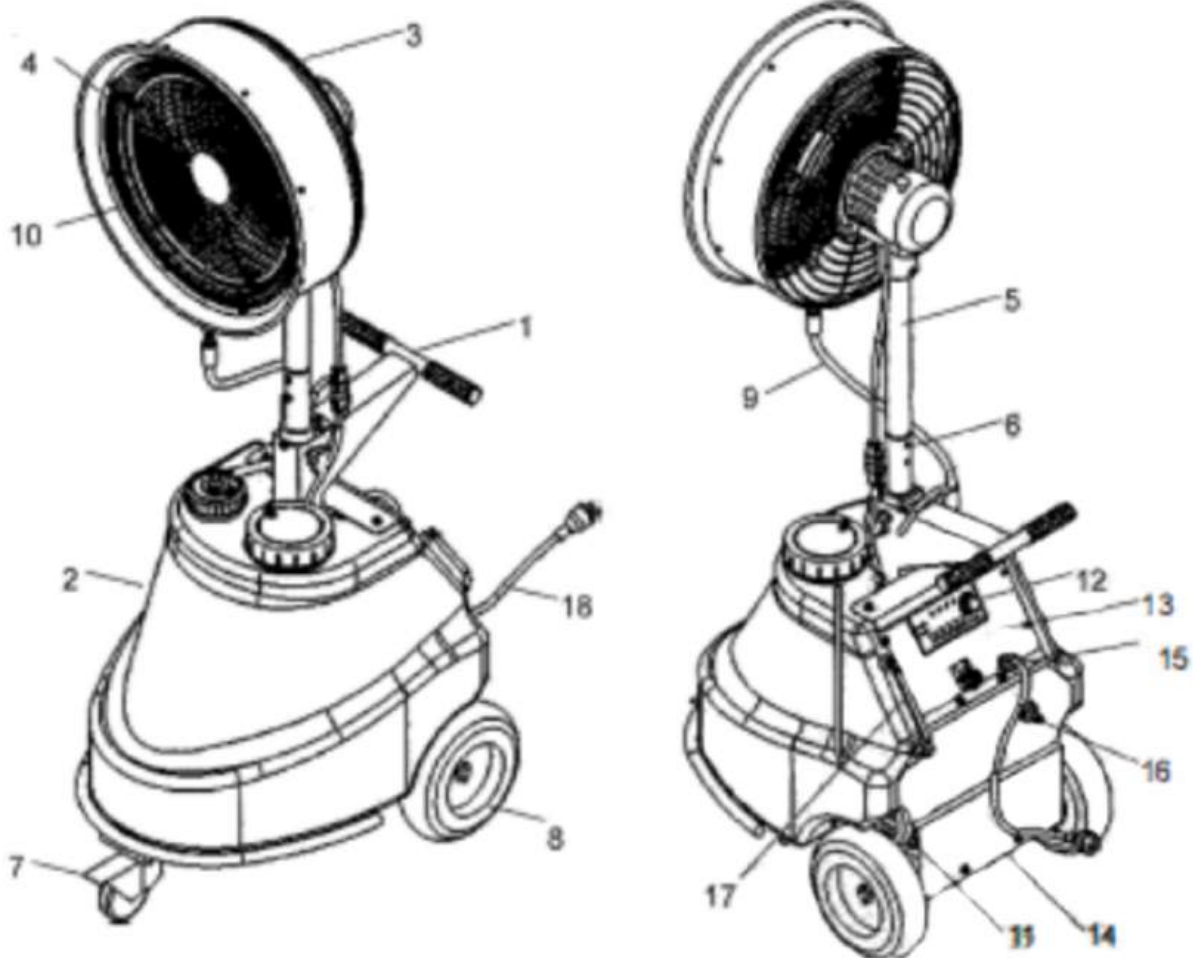
Have a question about your new Portamist MkII that is not covered in this guide?  
Contact OZmist on 1300 306 478 or [enquiries@ozmist.com.au](mailto:enquiries@ozmist.com.au)

# Safety Information

- **Before using this product please read this manual and follow all safety rules and operating instructions. Failure to comply with instructions could result in personal injury and/or property damage.**
- **This manual is considered a part of the machine and must be kept in a safe place for future reference.**
- **When using electrical appliances, basic safety precautions and common sense should always be used:**
- **The PortaMist unit must only be used when on a flat, level and firm surface**
- **To protect against electrical shock, ensure the unit and plug remain dry. Do not connect to a power socket if the plug is wet**
- **Make sure you have an adequate and stable power supply. Using long extension cords may cause a power drop at the unit which can harm the electrical components.**
- **The power cord for the fan has a special plug fitted. Do not attempt to use the power cord for anything other than connecting the fan.**
- **Always supervise children when they are close to the unit. Although they are very stable, they could also be knocked over causing injury**
- **Unplug the fan from the power supply when not in use, when moving the fan or before cleaning.**
- **Do not operate in the presence of explosives and/or flammable fumes**
- **Do not operate fan with a damaged power cord, plug or if the fan malfunctions or has been dropped or damaged in any manner**
- **Do not use or leave the unit exposed to excessive water which may cause damage to the control panel.**
- **In the unlikely event that the unit malfunctions, cease operation immediately and contact a suitably qualified person to assess before restarting happen, stop using this machine immediately**
- **The fan spins very quickly. DO NOT insert anything through the open guard of the fan that will come in contact with the spinning blade as an injury will occur.**



# Parts Diagram



1	HANDLE / FRAME	11	HIGH PRESSURE PUMP
2	WATER TANK	12	CONTROL PANEL
3	KTW2460 FAN	13	UPPER ACCESS PANEL / FILTER
4	STAINLESS STEEL FRONT MESH	14	LOWER ACCESS PANEL / PUMP
5	FAN SUPPORT POLE	15	WATER INLET (5"PP FILTER)
6	FAN HEIGHT ADJUST SCREW	16	WATER BLEED VALVE WATER
7	4" LOCKABLE CASTOR	17	WATER LEVER GAUGE
8	10" SOLID WHEELS	18	POWER CORD
9	HYDRAULIC WATER HOSE		
10	S/S 6 NOZZLE MISTING RING		

# COMPLIANCE LABEL

PORTAMIST PORTABLE MK2 MIST FAN		
INPUT	240V - 50Hz	1 PHASE
PUMP MOTOR	.4 KW - 1.8 AMPS	.5 L/PM @ 70 BAR
FAN MOTOR	.15 KW - .7 AMPS	R.P.M 920 RPM
OPERATING PRESSURE 70 BAR		
PUMP OIL 15W/40 FULL SYNTHETIC		
MADE IN ITALY		
SERIAL #	DOM	
OZMIST PTY LTD 26 ROWAN ST WANGARATTA, VIC 3677 PH: 1300 306 478 E: info@ozmist.com.au		

## Lubricating Oil

- You must continually check the oil level inside the pump head. Failure to maintain adequate and clean oil will cause damage to seals, bearings and the pump head.
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- Oil changes should be performed at 250-hour intervals.
- We recommend a 10W/40 FULLY SYNTHETIC OIL
- You will need approximately 150cc required per oil change
- To change the pump oil remove the Lower black panel at the back of the unit. Using the numbered picture on Page 7, locate the Oil Drain Valve - # 8 and Oil Fill Point - #12. Remove the Oil Fill Cap and place a suitable container under the Oil Drain Valve before opening. Allow all of the oil to drain from the pump head before tightening the Oil Drain Valve. You will need to fill the small oil bottle that was provided with the PortaMist unit and then slowly fills the pump head with oil, stopping periodically to allow the oil to work its way through the pump head and not overflow.
- Refit the Oil Fill Cap and replace the rear panel.

## Water Connection

- Water for the mist pump enters the tank before being drawn through the high-pressure pump. On the back of the unit is a 'snap on' hose connector. When connected, water travels into the tank via a 6" sediment filter and a ball float valve that controls the water level and doesn't allow the tank to overflow.
- There is another fill point under the black lid on top of the tank.
- Do not use dirty water as this will block the ultra-fine misting nozzles and can do damage to the water pump seals.
- Do not use water above 50° through the system
- The minimum water pressure required for a hose connection is 135Kpa and upwards of 10L/PM
- Regularly clean the water tank. This can be done by opening the cap under the front of the tank.



# OPERATION

The PortaMist MK2 unit has a touch pad Control Panel fitted at the rear of the tank. The Control Panel allows the user to perform a number of basic functions as listed below.

- To start the fan - plug the lead into a power socket and turn the switch on. Turn the speed selector mounted to the back of the motor to speed 1, 2 or 3. The fan will start and run.
- To turn the misting function on press the GREEN ON button. If the tank has been emptied you may have to bleed the pump by opening the brass bleed valve protruding through the back panel. Once water flows through the open valve, push the RED OFF button to stop the pump. Tighten the brass valve and then press the GREEN ON button again. Mist should start to flow through the mist nozzles on the front of the fan.
- With the mist pump turned on, press MODE 1 to run the mist for 30 seconds and off for 30 seconds
- With the mist pump turned on, press MODE 2 to run the mist for 40 seconds and off for 40 seconds
- With the mist pump turned on, press MODE 3 to run the mist for 50 seconds and off for 50 seconds
- The MODE functions are particularly useful if the temperature is warm but not too hot or if its humid and stopping the mist for a short period allows it to evaporate without getting too humid.
- The Green indicator light is to indicate that the mist pump is operating.
- The lights above the MODE buttons indicate which mode the pump is operating in
- The Fan Speed dial is to control the speed of the fan
- The Red Warning light indicates that the water tank is empty.



# FAN OPERATION

The PortaMist unit is supplied with a KTW2460 Outdoor Mist Fan. The KTW fan is 3 speed, Oscillates from side to side, is tilt adjustable powder coated Gloss Black. The fan has been corrosion treated and has an IP44 water ingress rating making it suitable for outdoor use.

- To start the fan turn the dial from 0 to either 1, 2 or 3
- To stop the fan do the reverse
- The oscillation function of the fan can be stopped at any point through its travel arc.
- When the fan is in the desired location simply push the knob down.
- To allow the fan to oscillate lift the knob up.



# INTERNAL WATER FILTER

Ensure the water filter that is located behind the top panel is clean and replaced as required.



# MISTING NOZZLES

The misting nozzles fitted to the stainless steel ring on the front of the fan are extremely fine and easily blocked if the water supply has sediment or calcium.

If they do block, unscrew the body from the stainless steel ring. Being very careful, unscrew the top of the nozzle from the main body. Inside is a neoprene ball and spring assembly.

(The nozzle will not function without them so be careful not to drop them)

Blow through the front face of the nozzle and then the body. Wash gently in water and reassemble. Screw the nozzle into the stainless steel ring and hand tighten. Turn the pump on to make sure it is clear. If not, repeat.