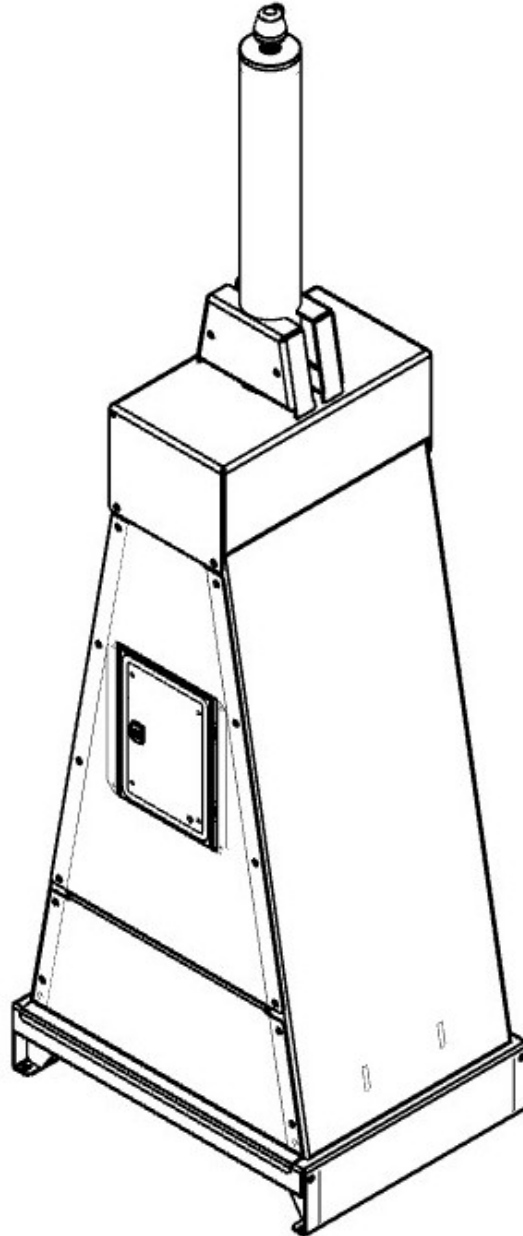




## OPERATION & MAINTENANCE MANUAL



JetMister Series JMT Dust Suppression Machine

# IMPORTANT

Read, understand and obey these safety rules and operating instructions before operating or maintaining this machine

Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, please contact Dustquip

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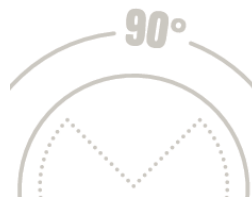
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# TECHNICAL DATA SHEET



## DUST CONTROL 45°-90° OSCILLATION MISTING TOWER – 20M

**Mobile Dust Suppression Jet Misting Tower** with an electric-powered pressure pump that can be positioned in locations to control heavy dust issues. The tower unit will throw a water mist of up to 20 meters with the option of 45° or 90° auto oscillations. Easy to position and then plug in water and power for quick operations.



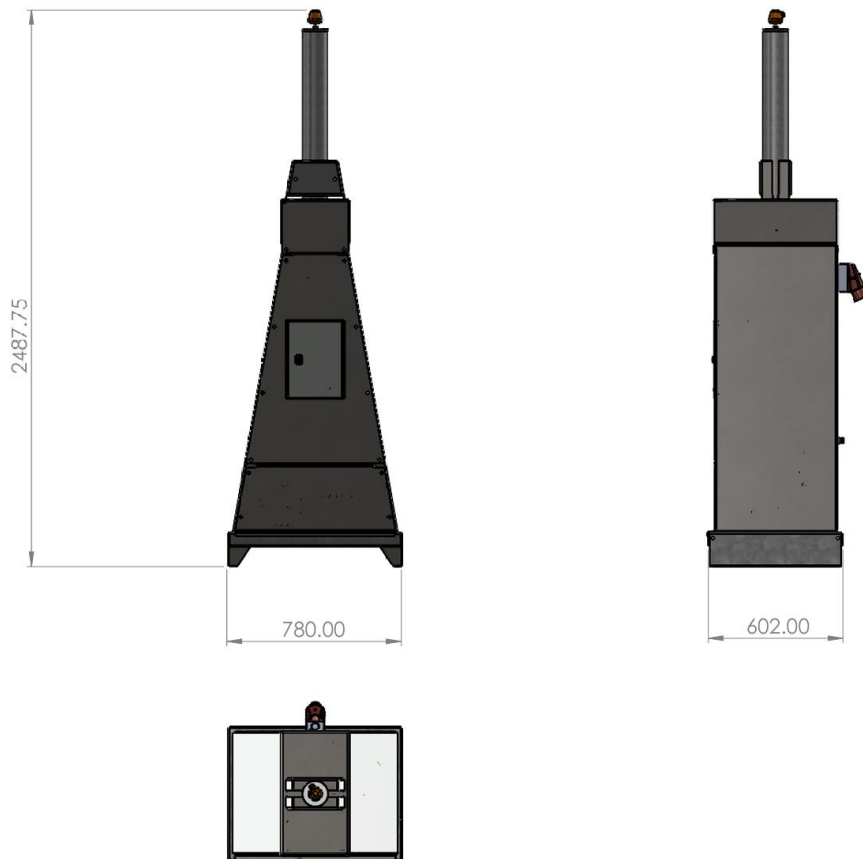
### FEATURE

- Optional remote control of up to 100 meters with start/stop and oscillation options.
- Belt drive pressure pump 110v, 240v options.
- Fork or pallet truck to position.
- Optional frost protection insulation available
- Only 12 LPM water saving advantages

### PRODUCT SPECIFICATIONS

	JMT-110V	JMT-240V
Pump Motor Power	110v 2.5 Kw	240v 2.5 Kw
Pump Pressure / Flow	150 bar / 12 lpm	150 bar / 12 lpm
Dimensions (LxWxH) mm	780x605x2490	
Water Droplet Size µm	5 - 10	
Weight Kg	230 Kg	

# TECHNICAL DATA SHEET



# INTRODUCTION & GENERAL INFORMATION

## INTRODUCTION

Thank you for choosing a Dustquip JetMister

Please take time to carefully read the contents of this manual before you commence using the JetMister. Ensure everyone responsible for its use is fully conversant with the procedures for preparing for use, operating and maintaining the JetMister

By following, understanding and practicing the information and procedures in this manual, your Dustquip JetMister will give you many years of reliable and safe use.

Certain information contained in this manual is governed by law and is subject to review and change without prior notice. Great care however, has been taken to ensure that the information in this manual is correct at time of publication. However, it is the owners/users sole responsibility to ensure that they fully comply with all legal requirements. The Terracore Group Ltd cannot and will not accept any liability for any inaccuracy or incorrectly stated legal requirements

The Terracore Group Ltd maintains a policy of continuous product improvement. We reserve the right to alter pump, engine, motor & performance specifications without prior notice.

## GENERAL INFORMATION

The information contained in the Handbook is correct at the time of publication, and can be altered by the manufacturers without prior notice.

The Operator must read this handbook and the motor/engine & pump operators handbook (appended to this document) and be familiar with all controls before operating the equipment.

The contents of this handbook are a guide to the machines control, operation, operating scope and maintenance. It is not a training manual.

These are the original Instructions in the English Language issued by The Terracore Group Ltd.

The Operation Handbook must be stored near the machine in an environment protected against humidity and heat. The handbook must be attached to the machine in the event it is hired or sold. Damaging, modifying or removing part of the manual is prohibited.

# WARRANTY CONDITIONS

Warranty is our commitment to you to address product defects arising because of defects in materials and workmanship.

## CUSTOMER OBLIGATIONS

- To maintain the machine in accordance with the regular maintenance requirements as detailed in the Operator's Handbook
- To release the machine for the first applicable service
- To use only genuine parts, or parts of equivalent quality
- To make the machine available immediately for warranty repairs
- To ensure that trained personnel carry out the regular services detailed in the Operator's Handbook
- To ensure that only fully trained and experienced personnel are allowed to operate the machine
- To complete the online registration process within 30 days of purchase
- In the event of a fault occurring with the machine, to contact your nearest Dustquip dealer, giving an accurate description of the fault, the machine model and its serial number.

## MACHINE REGISTRATION

It is the responsibility of the end user to within 30 days of purchase to qualify for the 12-month warranty. Registration should be carried out online <https://www.dustquip.com/warranty-application> and to include uploading a proof of purchase.

## WARRANTY PERIOD

The warranty period commences on the day of delivery to the first owner/end-user, or 6 months (250 operational hours) after the date of shipping from the Terracore Factory for unregistered machines

## 1. WARRANTY COVERAGE

All registered Dustquip machines manufactured by Terracore Ltd are covered by a warranty for a period of one (1) year or 500 operational hours, whichever comes first, from the date of purchase.

- The warranty covers defects in materials and workmanship under normal use and service
- The warranty does not cover misuse, abuse or neglect.

## 2. WARRANTY REPAIRS & SERVICE

- Warranty service must be performed by an authorized Dustquip Service Centre.
- Customers are responsible for shipping the machine to the factory for warranty service at their own expense
- Terracore Ltd/Dustquip will cover the cost of repairs or replacements for components covered under warranty
- No warranty repairs will be carried out elsewhere.

# WARRANTY CONDITIONS

---

## 3. EXCLUSIONS

This warranty does not cover damage resulting from

- Misuse, abuse, or neglect
- Unauthorized modifications or repairs
- Failure to follow operating instructions
- Acts of nature, such as floods, fires or frost damage
- Normal wear and tear
- The disconnection of the hour meter will invalidate the warranty
- This list is not exhaustive

## 4. CLAIM PROCESS

To initiate a warranty claim, customers must:

Contact your Dustquip dealer or log into <https://www.dustquip.com/warranty-claim> and complete the on-line claim form.

- On receipt of a completed form, an ISS Number will be issued.
- Ship the machine to the designated Dustquip factory, with the ISS number clearly marked.
- Dustquip will inspect the machine upon receipt to determine warranty coverage
- If the issue is covered under warranty, repairs will be carried out in a timely manner
- If the issue is deemed to be not covered by warranty a quotation for the repairs will be provided to the customer
- In the case of a Dustquip Technician is required to attend site, an order number will be required from the customer to cover the site 'call out' charge. If the issue is deemed to be covered by warranty, the 'call out' will not be charged.

## 5. LIMITATION OF LIABILITY

- Terracore Ltd/Dustquip shall not be liable for any incidental or consequential damages arising from the use or inability to use the machine, including but not limited to loss of profits, loss of business or interruption of operations

## 6. TRANSFERABILITY

- This warranty is not transferable and applies only to the original purchaser of the machine

## 7. GOVERNING LAW

- This warranty policy shall be governed by and construed in accordance with the laws of your region, without regard to its conflict of law principles

## 8. MODIFICATION OF TERMS

- Terracore Ltd/Dustquip reserves the right to modify or amend this warranty policy at any time, without notice

## 9. CONTACT INFORMATION

- For warranty enquiries or assistance please contact Dustquip main office, who will advise of a Dustquip dealer in your local region.

By purchasing a Dustquip machine, you acknowledge that you have read, understood, and agreed to the terms and conditions of this warranty.

# SAFETY

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.



Do Not Operate Unless:

You learn and practice the principles of safe machine operation contained in this operators manual.

You read, understand and obey the manufacturer's instructions and safety rules - safety and operators manuals and machine decals, employers safety rules and work site regulations & applicable governmental regulations

## DANGER

You are properly trained to safely operate the machine

1. Avoid hazardous situations. Know and understand the safety rules before going on to the next section
2. Always perform a pre-operation inspection
3. Always perform function tests prior to use
4. Inspect the workplace
5. Only use the machine as it was intended



## ELECTROCUTION HAZARDS

**This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current**

- Do not operate the machine during lightning or storms
- Do not use the machine as a ground for welding
- Ensure safe routing of power cable to minimise risk of electrocution



## EXPLOSION AND FIRE HAZARDS

Do not operate the machine in hazardous locations, or locations where potentially flammable or explosive gases or particles may be present





# SAFETY

## SETUP HAZARDS

Check work area for obstructions and other possible hazards. The machine discharges water which could cause slip hazards, your RA & MS will need to take this into account

- Do not use the machine whilst under the influence of alcohol or drugs (prescription or recreational)
- Ensure machine is sited properly on level stable ground
- Do not alter or disable machine components that in any way affect the safety and stability
- Be aware of ground surface prior to installation
- Do not use the machine on a moving or mobile surface or vehicle
- Do not alter or disable any safety switches or guards
- Do not operate the machine in strong or gusty winds



## BODILY INJURY HAZARDS

- Use common sense and planning when positioning and using the machine
- Keep hands & limbs away from rotating parts and pinch points
- Always wear the correct PPE

## COMPONENT DAMAGE HAZARDS

When using a generator, ensure it is fitted with a voltage regulator before use & is adequately grounded

Ensure constant water supply to pump. Pump damage will occur if allowed to run dry

Do not use the machine as a ground for welding

## DAMAGED MACHINE HAZARDS

Do not use a damaged or malfunctioning machine

Conduct a thorough pre-operation inspection of the machine and test all functions before work shift. Immediately remove from service a damaged or malfunctioning machine & report it to your company manager/hire provider.

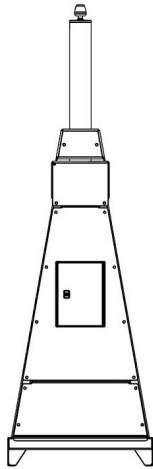
Ensure all maintenance has been carried out as specified in this manual.

Be sure all decals are in place and legible.

# LEGEND

1. Machine Controls
2. Mast & Jet Nozzle
3. Wheels
4. Lifting Eyes
5. Water Inlet
6. Machine Handle

# DECALS



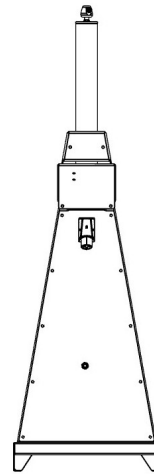
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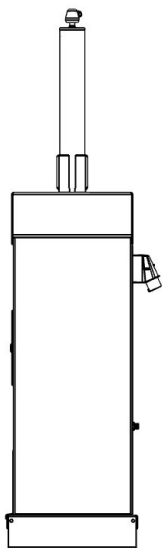
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6

3



1



2

- 1. JetMister Decal
- 2. Serial Plate
- 3. Safe Use Decal

- 4. Pinch Point
- 5. Locking Pin Decal
- 6. Operation Decal

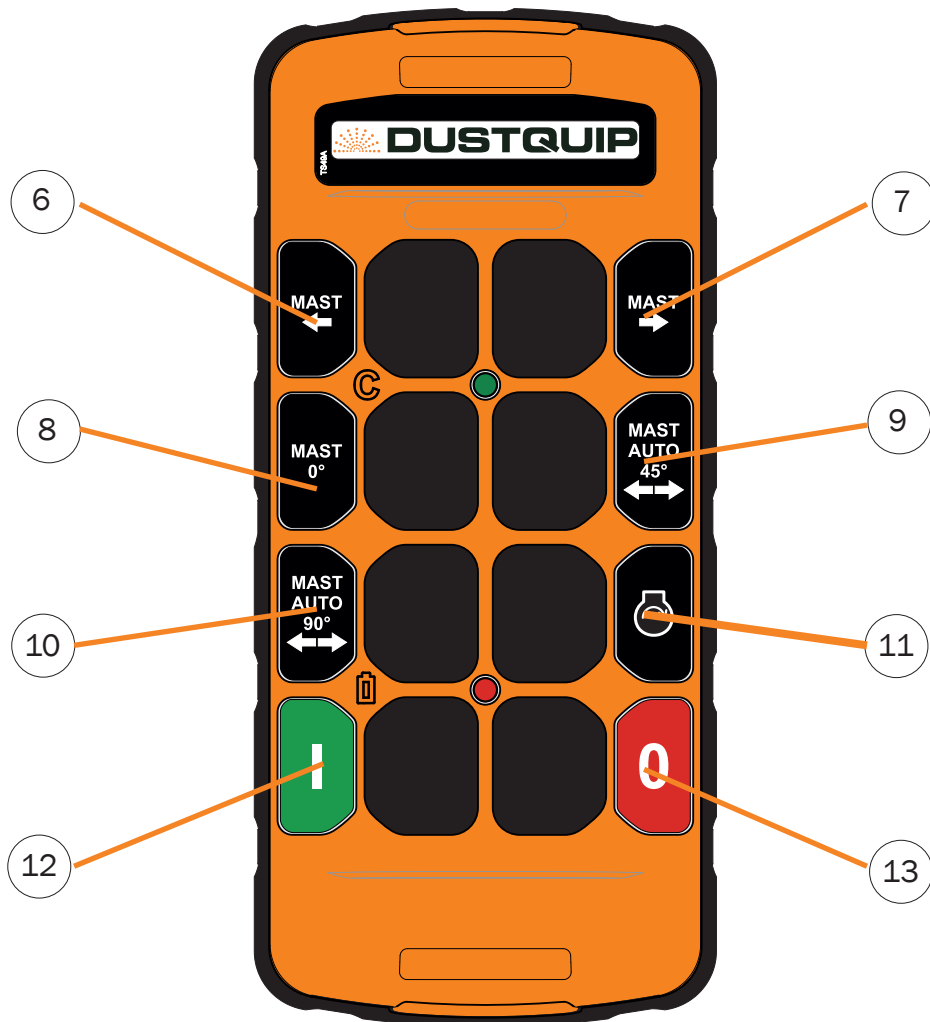
## CONTROLS (Local)



1	Ignition Switch
2	Oscillate Spray Mast Left / Right
3	Auto Oscillate 45 / 90 Degree
4	Diagnostic Light
5	Emergency Stop Switch

# CONTROLS\* (Remote)

\*Optional Extra



6	Oscillate Spray Mast to the Left	10	Auto Oscillate Mast 90 Degree
7	Oscillate Spray Mast to the Right	11	Crank/Start Pump
8	Central Spray Mast	12	Power on Remote
9	Auto Oscillate Mast 45 Degree	13	Power off Remote

# PRE OPERATION INSPECTION



**DANGER**

## DO NOT OPERATE UNLESS:

**You learn and practice the principles of safe machine operation contained in this operators manual.**

1. Avoid hazardous situations
2. Always perform a pre-operation inspection. Know and understand the pre-operation inspection before going on to the next section
3. Always perform function tests prior to use
4. Inspect the workplace
5. Only use the machine as it was intended

## FUNDAMENTALS

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift

The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items and locations for modifications, damage or loose/missing parts.

A damaged or modified machine must never be used. If damage or variation from factory delivered condition is discovered, the machine must be tagged and removed from service

Repairs to the machine may only be made by a qualified service technician according to the manufacturers specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturers specifications.

# PRE-OPERATION INSPECTION

## PRE-OPERATION INSPECTION:

1. Be sure that all decals are legible and in place. See *“Decals” section*
2. Ensure all guards are in place
3. Be sure the correct accessories & manual is present. See parts list

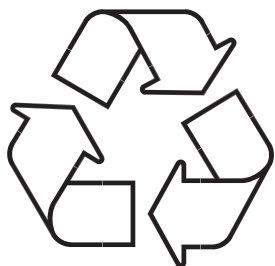
Check the following components or areas for damage, modifications and improperly installed or missing parts:

4. Electrical components
5. Wiring
6. Pump oil level
7. Fluid leaks
8. Safety interlocks

## Check entire machine for:

1. Cracks in welds or structural components
2. Dents or damage to the machine
3. Be sure that all structural and other critical components are present and all associated fasteners are in place and properly tightened

## ENVIRONMENTAL RESPONSIBILITY



- Be environmentally responsible. Follow these procedures along with your environmental policy for hazardous waste disposal. Failure to follow these procedures may seriously harm the environment.
- Follow the guide lines of the relevant environmental department in your country (EPA in USA and EA in UK etc) for the proper disposal of hazardous materials such as engine oil, diesel fuel and engine coolant. This includes used filters. Consult the local authorities or reclamation facility
- Never dispose of hazardous materials irresponsibly by dumping them into a sewer, on the ground or into ground water or waterways

# MAINTENANCE

## MAINTENANCE SYMBOLS LEGEND

### NOTICE

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below



#### **OBSERVE AND OBEY:**

Only routine maintenance items specified in this manual shall be performed by the operator.

Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturers specifications and the requirements specified in the responsibilities manual



#### **BURN HAZARD**

Keep your hands and other body parts away from hot engine surfaces such as the muffler, exhaust pipe and engine block during operation and shortly after you shut the engine down. These surfaces are extremely hot while the engine is operating and could seriously burn you

Failure to comply could result in death or serious injury.



#### **FIRE AND EXPLOSION HAZARD:**

- Diesel fuel is extremely flammable and explosive under certain circumstances.
- Only fill the fuel tank with diesel fuel. Filling the fuel tank with petrol or gasoline may result in a fire



Indicates tools will be needed to carry out this operation.

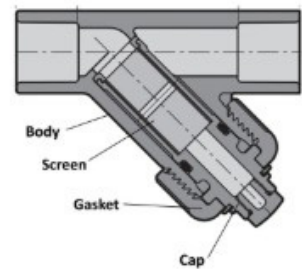
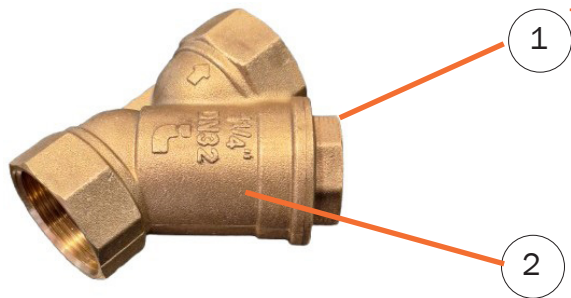


# MAINTENANCE

## INLET FILTER CHECKING & CLEANING



Maintaining a clean inlet (1) filter is essential to good machine performance. Operating the machine with a clogged inlet filter will result in degraded performance and could damage the pump



**NOTICE** - CHECK FILTER WITH WATER SUPPLY TURNED OFF AND PUMP OFF

### Inlet Filter Location

It is essential that the water is filtered prior to entering the pump unit.

When the item is included in separate system and the water is supplied pre-filtered, the Y stainer is not required.

As a standard feature this strainer is supplied and will be located inside the cabinet immediately after the the main water inlet.

*Tools Required:* - Adjustable spanner

1. Loosen the Y strainer access plug (1) using a suitable spanner
2. Carefully unwind the plug and withdraw the filter gauze from filter body (2)
3. Clean gauze with clean water
4. Insert the gauze back into the filter body, screw in the access plug ensuring the gasket is in place and in good condition
5. Tighten access plug

# MAINTENANCE

## CHECK PUMP OIL LEVEL



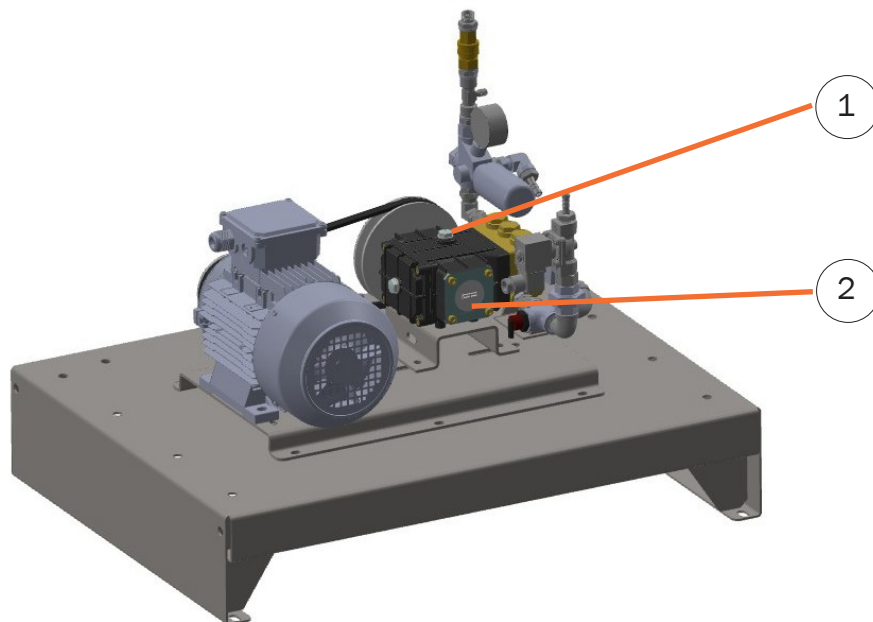
### **NOTICE** - CHECK OIL WITH WATER TURNED OFF AND ENGINE OFF

Ensuring the gearbox has the correct oil level is essential to prevent possible gearbox damage. The oil level can be observed through the sight glass (2). The level can be topped up via the oil port (1).



The correct oil level is approx half way up the sight glass.

The correct oil grade can be found in the specifications section of this manual



1. Check oil level and condition via the sight glass (2).
2. If oil is required, remove the vent plug by twisting anti-clockwise until it is free of the pump housing
3. Pour the correct grade oil into the pump until the level reaches approx half way up the sight glass
4. Refit vent plug & tighten

## OIL APPEARANCE

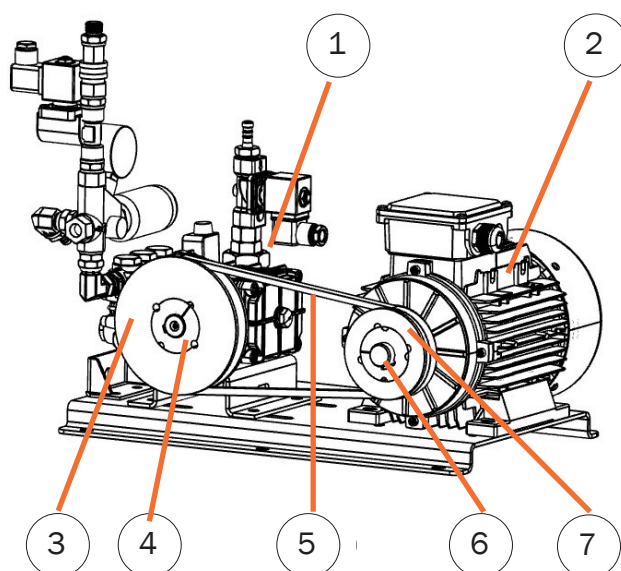
Should the oil take on a milky appearance please contact your Dustquip repair centre. This could indicate internal pump seal failure & water contamination. The machine must be taken out of service until the pump has been inspected & repaired if necessary.

If the oil has taken on a dark brown/black appearance an oil change is recommended. Oil discolouration will occur during normal operation - this is to be expected

The oil should have a bright clear golden appearance.

# MAINTENANCE

## Pump Drive Belt - Maintenance & Replacement



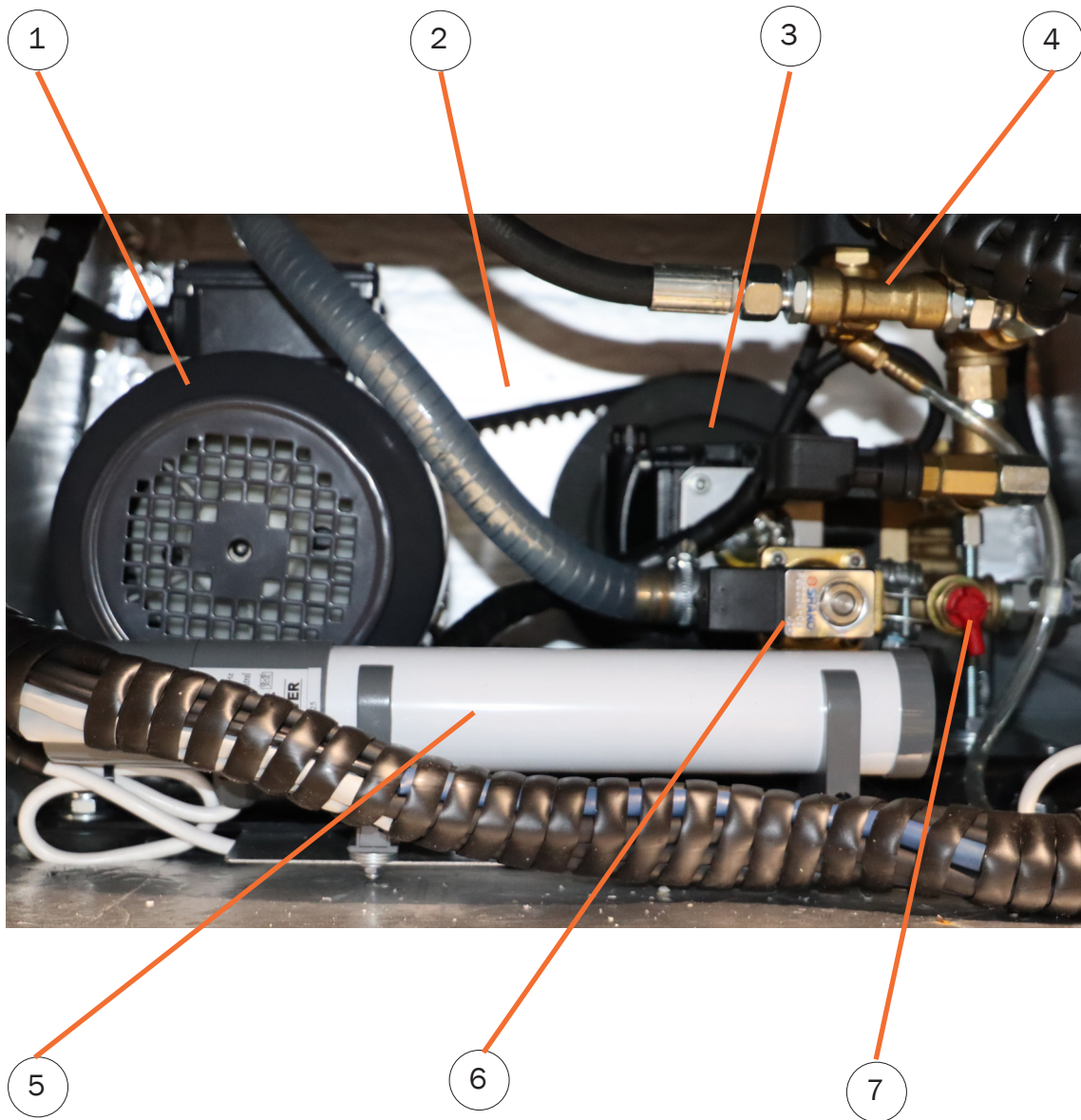
No	Item	Qty
1	High Pressure Motor Assembly	1
2	Electric Motor	1
3	Pump Single Belt Pulley	1
4	Pump Pulley Bush	1
5	Drive Belt	1
6	Motor Pulley Bush	1
7	Motor Single Belt Pulley	1

**WARNING - Ensure Machine is switched off and Isolated prior to any work or inspection on the drive belt assembly.**

The drive belt tension and condition should be checked on a regular basis. Damaged or under tensioned belts will result in loss of power and poor pump performance. It is possible to remove the complete motor assembly as show to assist in maintenance.

1. The Electric Motor (2) is in a fixed position and should not be moved.
2. Loosen the bolts fixing the High Pressure Pump (1) to the bed plate
3. Adjust or replace 'V' belt - The pump can be moved either direction in the slots provided in the bed plate.
4. Re-tension the pump bolts
5. Test run to ensure line up and then check tension again.

# OVERVIEW



1	Electric Drive Motor
2	Drive Belt
3	High Pressure Water Pump
4	Off loader Valve (Factory Pre-Set)
5	Ant Frost Heater (Optional)
6	Inlet Solenoid Valve
7	Thermal Relief Valve

# FUNCTION TESTS



## FUNDAMENTALS:

The function tests are designed to discover any malfunctions before the machine is put into service

The operator must follow the step by step instructions to test all machine functions

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service

Repairs to the machine may only be made by a qualified service technician, according to the manufacturers specifications

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service

## DO NOT USE UNLESS

You learn and practice the principles of safe machine operation contained in this operators manual.

1. Avoid hazardous situations
2. Always perform function tests prior to operation. Know and understand the function tests before going on to the next section
3. Always perform function tests prior to use
4. Inspect the workplace
5. Only use the machine as it was intended

# FUNCTION TESTS

## FUNCTION TESTS

1. Select an area that is firm, level and free of obstructions
2. Ensure a water supply is connected to the inlet and turned off

## AT THE CONTROLS

1. Ensure the e-stop button is not pressed in
2. Turn the power switch to the “ON” position, the Diagnostic lamp should rapidly flash
3. Turn the centre switch to the “Left” and hold, the nozzle will turn to the left. Release the switch and the nozzle will stop. Ensure the nozzle moves all the way to the left
4. Turn the centre switch to the “Right”, the nozzle will then turn to the right. Release the switch and the nozzle will stop. Ensure the nozzle moves all the way to the right
5. Turn the right switch to “45” the nozzle will cycle left to right through 45 degrees.
6. Turn the right switch to “90” the nozzle will cycle left to right through 90 degrees.
7. Set the right switch back to “0”
8. Turn the power switch to “Crank” - the pump will not try and start.
9. Check the “Diagnostic” lamp flashes slowly
10. Turn on water supply
13. Turn the power switch to “Off” and then back to “On” to reset the controller
14. Ensure the area where water will be discharged is clear
15. Turn the power switch to “Crank” and start the high pressure pump
16. Check the nozzle is discharging correctly & no leaks from pipe work
17. Turn pump off, check for pipe work leaks and pump oil leaks
18. Check all fixings are tight & secure

**If the machine fails any of these function tests, it should be removed from service and repaired**

# WORKPLACE INSPECTION

## FUNDAMENTALS



The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace

It is the operators responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

### DO NOT USE UNLESS

You learn and practice the principles of safe machine operation contained in this operators manual.

1. Avoid hazardous situations
2. Always perform function tests prior to operation
3. Inspect the workplace. Know and understand the function tests before going on to the next stage
4. Only use the machine as it was intended

## WORKPLACE INSPECTION

Be aware of and avoid the following hazardous situations.

1. Bumps, floor obstructions or debris.
2. Slopes.
3. Unstable or slippery surfaces.
4. Overhead obstructions.
5. Hazardous locations.
6. Inadequate surface support to withstand all load forces imposed by the machine.
7. Wind and weather conditions.
8. The presence of unauthorised personnel.
9. Low temperature & freezing conditions.
10. Other possible unsafe conditions.
11. Ensure any equipment or objects that could be damaged by water are removed from the area.



# OPERATING INSTRUCTIONS



## DO NOT USE UNLESS

You learn and practice the principles of safe machine operation contained in this operators manual.

1. Avoid hazardous situations
2. Always perform function tests prior to operation
3. Inspect the workplace. Know and understand the function tests before going on to the next stage
4. Only use the machine as it was intended

## FUNDAMENTALS:

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operators responsibility to follow all the safety rules and instructions in the operators, safety and responsibilities manuals

This JetMister is designed to provide water assisted dust suppression for a wide range of dust types. Only clean tap water must be used - please refer to the Legionella section for further information.

Care must be taken when positioning the machine that the water mist generated by the machine does not cause any unintended damage. The Terracore Group Ltd cannot be held responsible for any damage caused.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must be qualified operators and are all expected to follow all safety rules and instructions in the operators safety and responsibilities manuals. This means every new operator should perform a pre-operation inspection, function tests , and a workplace inspection before using the machine.

## COLD WEATHER PRECAUTIONS.

**NOTE, exposure to low temperatures will cause serious internal damage, the following steps must be carried out to prevent damage**

1. Disconnect water supply & drain pipe work of residual water
2. Fill pipe work & pump with suitable antifreeze
3. Ensure power is turned off

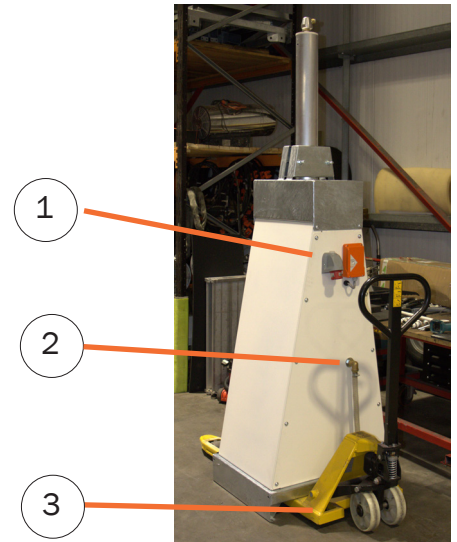


# OPERATING INSTRUCTIONS

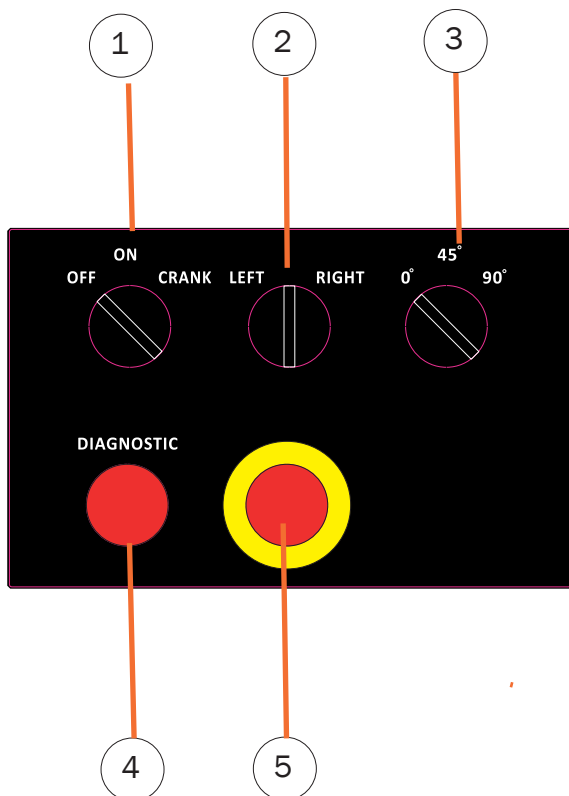
## Positioning & Set Up

The JMT can be positioned with a fork-lift or pallet truck as shown (3).

1. Prior to operation the unit must be positioned on a firm level surface ideally bolted down into position.
2. Connect water supply (2-5 Bar 12 Lpm) via the inlet coupling on the rear of the unit (2).
3. Connect the electrical supply using 32A, 400V Socket



## Starting the Machine



### To Start the machine (From the control panel)

1. Ensure the e-stop button is not depressed (5), and auto oscillation is set to "0" (3)
2. Turn the power switch (1) to the "ON" position
3. The diagnostic lamp (4) will flash rapidly for a few seconds then go solid red. This indicates the pump is ready to be started
4. Turn the power switch (1) to crank and hold in position until the pump is running.

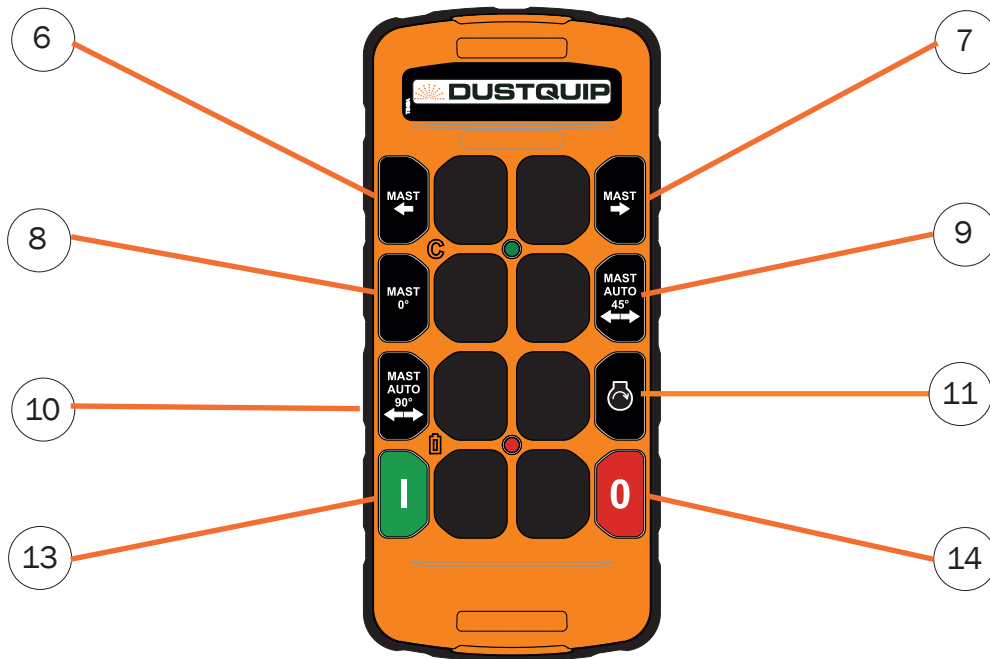
### Low water shutdown:

The machine is equipped with a low water shut down feature, if the machine shuts down on first start follow the below procedure:

5. Set power switch (1) to off and back to on
6. Crank engine to restart & release switch
7. Should the pump shut down again repeat steps 1-2.
8. If the engine repeatedly shuts down check water supply has sufficient pressure & flow rate

# OPERATING INSTRUCTIONS

## Starting the Machine Using the Remote Control (Optional)



6	Swing Spray Mast to the Left	10	Auto Swing Mast 90 Degree
7	Swing Spray Mast to the Right	11	Crank/Start Pump
8	Central Spray Mast	12	Turn on Remote
9	Auto Swing Mast 45 Degree	13	Turn off Remote

### To Start the machine.

1. Ensure the e-stop button is not depressed (5), and auto oscillation is set to “0” (3)
2. Turn the power switch (1) to the “ON” position
3. The diagnostic lamp (4) will flash rapidly for a few seconds then go solid red. This indicates the pump is ready to be started
4. Press the green power button on the remote control handset (6). The green connected indicator will now rapidly flash.
5. Press and hold the Crank button (11), release once the pump has started

### Stopping the machine.

1. Turn switch (1) to off, engine will stop (on the control panel)
2. Press the red stop button (10) on the remote control, engine will stop. (NOTE - control panel remains on - ensure power switch is set to the off position. Failure to do so will cause a flat battery)
3. Turn off water & disconnect supply

# OPERATING INSTRUCTIONS



**Control Panel**

## Setting the Auto Oscillation.

1. Ensure the power is switched on.
2. For 45 degree cycle, set switch (3) to 45. The nozzle will cycle from left to right in a 45 degree arc
3. For 90 degree cycle, set switch (3) to 90. The nozzle will cycle from left to right in a 90 degree arc

## For Manual nozzle control.

4. Ensure the power is switched on & oscillation switch (3) is set to "0"
5. To move the nozzle to the left, hold switch (2) to the left, release switch when nozzle is in the desired location
6. To move the nozzle to the right, hold switch (2) to the right, release switch when nozzle is in the desired location



**Remote Control**

## Setting the Auto Oscillation.

1. Ensure the power is switched on (12)
2. For 45 degree cycle, press switch (9) to 45. The nozzle will cycle from left to right in a 45 degree arc
3. For 90 degree cycle, press switch (10) to 90. The nozzle will cycle from left to right in a 90 degree arc

## For Manual nozzle control.

4. Ensure the power is switched on (12) & 0 oscillation button (8) has been pressed
5. To move the nozzle to the left, hold button (6) to the left, release switch when nozzle is in the desired location
6. To move the nozzle to the right, hold button (7) to the right, release switch when nozzle is in the desired location

# TRANSPORT INSTRUCTIONS

## OBSERVE AND OBEY



Common sense and planning must be applied to control the movement of the machine when moving it with a vehicle

The transport vehicle must be parked on a level surface

## SECURING TO TRUCK OR TRAILER FOR TRANSIT:

- Always check the machine is on a level surface with all wheels and are in contact with the surface
- Inspect the entire machine for loose or unsecured items
- Ensure hoses and lances are secured and placed within the machine

**TIE DOWN & STRAPPING** - Only use the lifting eyes for strapping. (If fitted)

**DO NOT OVER TIGHTEN STRAPS** - Excessive tension of the straps will cause damage to the machine



## Moving with Pallet Truck

- Only use if the fork supports go right through under the frame
- Ensure ground is level
- Proceed with care to avoid unit tipping of the fork trolley
- Disconnect power and water supply before moving this unit

# SPECIFICATIONS

JMT	
Mist Distance M (Ft) (no wind)	Up to 25 M (80 ft)
Surface coverage M <sup>2</sup> (ft <sup>2</sup> )	300 M <sup>2</sup> (3250 ft <sup>2</sup> )
Water Consumption Lpm (gpm)	11 Lpm (3 gpm) 120 bar/1740 psi
Water Output Pressure	120 bar/1740 psi
Applications Indoor	Wood chip wetting and stone ballast dust suppression
Applications Outdoor	Demolition, stone ballast dust suppression

	JMT
Voltage	415
Current Consumption	N/A
Power Connection	3 PH
Pump Motor Kw	55
Dimensions mm (inch)	780L x 600W x 2500H (30"x 24"x 98")
Weight Kg (Lbs)	Empty 235 KG (520 Lbs)
Number of Nozzles	1
Oscillation	45° - 90°
Water Supply Connection	3/4" Claw Coupling
Required Water Pressure / min flow	2-5 bar / 12 Lpm
Water quality	Potable / Filtered
Operating Temperature	+2°C - 50°C

Required Oils		
Component	Specification	Volume Required
Pump	SAE 10W40	1.2l

# FAULT FINDING

<b>Fault</b>	<b>Cause</b>	<b>Remedy</b>
Pump running normally but pressure low on installation	<ul style="list-style-type: none"> <li>• Inlet filter blocked or dirty.</li> <li>• Pump sucking air</li> <li>• Valve sticking</li> <li>• Unloader valve seat faulty</li> <li>• Jet tip wrong size</li> <li>• Worn piston packing</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; clean inlet filters</li> <li>• Check water supply &amp; possibility of air ingress</li> <li>• Check &amp; clean or replace</li> <li>• Check &amp; replace if needed</li> <li>• Check &amp; replace if needed</li> <li>• Check &amp; replace if needed</li> </ul>
Fluctuating pressure	<ul style="list-style-type: none"> <li>• Inlet filter blocked</li> <li>• Valves worn</li> <li>• Blockage in Valve</li> <li>• Pump sucking air</li> <li>• Worn piston packing</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; clean inlet filters</li> <li>• Check &amp; replace if needed</li> <li>• Check &amp; replace if needed</li> <li>• Check water supply &amp; air ingress at joints in suction line</li> <li>• Check &amp; replace if needed</li> </ul>
Pressure low after periods of normal use	<ul style="list-style-type: none"> <li>• Inlet filter blocked or dirty</li> <li>• Tips worn</li> <li>• Tips blocked</li> <li>• Suction or delivery valves worn or blocked</li> <li>• Worn piston packing</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; clean Inlet filters</li> <li>• Check &amp; replace if necessary</li> <li>• Check &amp; clean or replace</li> <li>• Check &amp; replace if necessary</li> <li>• Check &amp; replace if necessary</li> </ul>
Pump Noisy	<ul style="list-style-type: none"> <li>• Inlet filter blocked</li> <li>• Air in suction lines</li> <li>• Broken or weak suction or delivery valve springs</li> <li>• Foreign matter in the valves</li> <li>• Worn bearings</li> <li>• Excessive temperatures of water</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; Clean Inlet filters</li> <li>• Check water supply &amp; connections in suction line</li> <li>• Check &amp; replace if required</li> <li>• Check &amp; clean if required</li> <li>• Check &amp; replace if required</li> <li>• Reduce below 75 centigrade</li> </ul>
Presence of oil in the water	<ul style="list-style-type: none"> <li>• Oil seals worn</li> <li>• High humidity in the air</li> <li>• Piston packing worn</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; replace if required</li> <li>• Check &amp; reduce oil change intervals.</li> <li>• Check &amp; replace if required</li> </ul>
Water dripping from below pump	<ul style="list-style-type: none"> <li>• Piston packing worn</li> <li>• Plunger retainer O ring worn</li> <li>• Leaking connections</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; replace if required</li> <li>• Check &amp; replace if required</li> <li>• Check &amp; tighten or reseal</li> </ul>
Oil dripping	<ul style="list-style-type: none"> <li>• Oil seal warn</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; replace if needed</li> </ul>
Excessive vibration in the delivery line	<ul style="list-style-type: none"> <li>• Inlet filter blocked or dirty</li> <li>• Valves probably blocked</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; clean inlet filter</li> <li>• Check and replace if necessary</li> </ul>
No water from nozzle	<ul style="list-style-type: none"> <li>• Inlet filter blocked or dirty</li> <li>• Unloader valve in constant by-pass</li> <li>• Blocked tips</li> </ul>	<ul style="list-style-type: none"> <li>• Check &amp; Clean inlet filter</li> <li>• Check &amp; turn knob to pressure</li> <li>• Check &amp; clean if necessary</li> </ul>

# WIRING DIAGRAM

# LEGIONELLA HEALTH RISK



**DANGER**

## YOU MUST ENSURE

- Drain system and supply tanks when not in use
- Only use drinking water supply
- Follow a Legionella risk assessment that meets the requirements of the local water authority regulations
- Follow regular tank/system cleaning procedures using disinfectant and/or steam.

## WATER MISTING CAN CAUSE LEGIONELLA DISEASE

One of the main health risks from contamination in engineering water systems is the bacterial infection Legionella.

This bacterium can be transmitted through water vapour or mist and inhaled, hence leading to respiratory infections.

The more severe cases are from Legionnaires disease, which can lead to symptoms of pneumonia and other secondary infections, in its worst case can lead to death.

The milder forms are Pontiac Fever and Lochgilhead fever.

***If you develop symptoms of Flu/Pneumonia after operating this machine seek urgent medical attention.***

Legionella Microorganisms flourish in water temperatures of between 22°C and 45°C (71.6 - 113F), particularly, if an abundance of nutrients such as sludge, sediment or rust reside in the water system.







# MANUFACTURERS IDENTIFICATION DATA

Manufacturer	Terracore Group Ltd
Brand	Dustquip JetMister JMT
Head Office	Quercus Court, Armstrong Way, BS37 5NG
Telephone	01454 513 000
Email	info@dustquip.co.uk
Website	www.dustquip.co.uk

## CE & UKCA MARKING

All machines are identified with a Model & Serial ID plate which includes the CE & UKCA marking

 <b>DUSTQUIP</b>  	
<b>Manufactured By:</b> Dustquip Ltd Armstrong Way, Yate Bristol, BS37 5NG	Mfg. Date: <input type="text"/>
	Serial No: <input type="text"/>
	Model: <input type="text"/>
	Power: <input type="text"/>
	Weight: <input type="text"/>
 Bristol UK +44 (0)1454 513 000	
SP001	

Some machines may have a UKCA label affixed to the machine adjacent to the Serial Number plate.

# UKCA DECLARATION OF CONFORMITY

## UK CA

Terracore Group Ltd  
Declaration of Conformity

In accordance with UK Government Guidance

1. Product Model

- a. Product: Free Standing JetMister
- b. Model: JMT
- c. Serial: 1000-99999
- d. Specification: Electric powered high Pressure, high flow jet misting unit.

2. Manufacturer

- a. Name: Terracore Group Ltd
- b. Address: Quercus Court, Armstrong Way, Yate, BS37 5NG (UK)

3. This declaration is issued under the responsibility of the above mentioned manufacturer.

4. The object of the declaration described above is in conformity with the relevant UK Statutory Instruments and their amendments:

Supply of Machinery (Safety) Regulations 2008

Noise Emission in the Environment by Equipment for use Outdoors  
Regulations 2001

Electromagnetic Compatibility Regulations 2016

Radio Equipment Regulations 2017 (where remote control fitted)

The Restrictions of the Use of Certain Hazardous Substances in Electrical and  
Electronic Equipment Regulations 2012

5. Additional information:

The technical documentation for the machinery is available from:

Name: Terracore Group Ltd T/A Dustquip  
Address: Quercus Court, Armstrong Way, Yate, BS37 5NG  
Signed for & behalf of: Dustquip Ltd  
Place of issue: Yate, United Kingdom  
Name: Neal Davies

Position: Director

Signature: *Neal Davies*

# CE DECLARATION OF CONFORMITY



## Terracore Group Ltd EC Declaration of Conformity

In accordance with EU Government Guidance

1. Product Model
  - a. Product: Free Standing JetMister
  - b. Model: JMRT35
  - c. Serial: 1000-99999
  - d. Specification: Electric powered high Pressure, high flow jet misting unit.
2. Manufacturer
  - a. Name: Terracore Group Ltd
  - b. Address: Quercus Court, Armstrong Way, Yate, BS37 5NG (UK)
3. This declaration is issued under the responsibility of the above mentioned manufacturer.
4. The object of the declaration described above is in conformity with the relevant EU Statutory Instruments and their amendments:

Machinery Directive 2006/42/EC

Outdoor Noise Directive 2000/14/EC

Electromagnetic Compatibility - Directive 2014/30/EU

Radio equipment - Directive 2014/53/EU

Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) - Directive 2002/95/EC

5. Additional information:

The technical documentation for the machinery is available from:

Name: Terracore Group Ltd T/A Dustquip  
Address: Quercus Court, Armstrong Way, Yate, BS37 5NG  
Signed for & behalf of: Dustquip Ltd  
Place of issue: Yate, United Kingdom  
Name: Neal Davies

Position: Director

Signature: *Neal Davies*

## SERVICE RECORD

[illegible]

## NOTE

This service record will need to be provided in the event of a warranty claim

A missing or incomplete service record may result in warranty claim being declined or voided

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[illegible]

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**Terracore Group Ltd**  
**Dustquip Division**  
+44(0) 1454 513 000

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