



T45AU OPERATION MANUAL

AUSTRALIA'S LEADING MIST
SYSTEM MANUFACTURER



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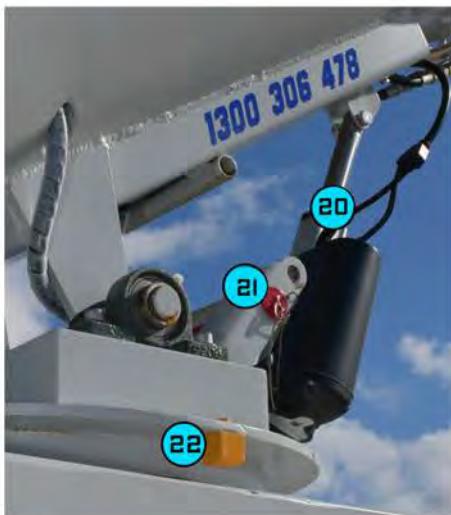
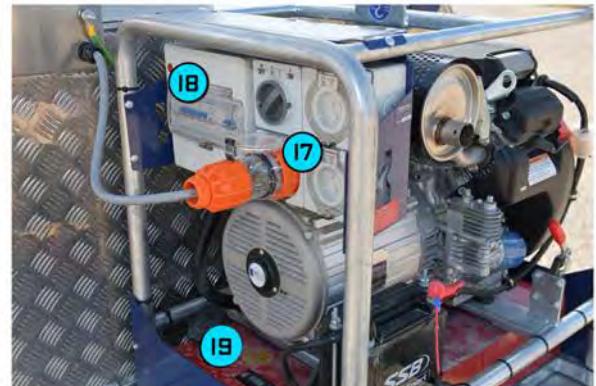


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T45AU OVERVIEW

- THE T45AU MIST CANNON HAS BEEN ASSEMBLED AND ALL FUNCTIONS TESTED IN OUR WORKSHOP. PLEASE ENSURE THAT THE UNIT IS CAREFULLY INSPECTED AFTER DELIVERY AS THINGS MAY HAVE CHANGED DURING TRANSPORT.
- EACH UNIT IS FITTED WITH A TRAVEL LATCH THAT NEEDS TO BE RELEASED BEFORE USE AND RE-ATTACHED BEFORE THE UNIT IS TRANSPORTED. IF YOUR UNIT HAS A TRAVEL PIN, SAME AS ABOVE MAKE SURE THE PIN IS REMOVED AND FITTED IN THE STORAGE HOLE DIRECTLY BELOW. THEN REINSTALLED BEFORE THE UNIT IS TRANSPORTED.
- THE FOG CANNON HAS A 2000L ALUMINIUM WATER TANK. THE TANK HAS A 3" CAMLOCK FILL POINT ON THE TOP OF THE TANK. A WATER-LEVEL GAUGE IS LOCATED BESIDE THE FILL POINT WHICH WILL SHOW THE TANK WATER LEVEL. THERE IS A 2" CAMLOCK FITTING ON THE LOWER CORNER OF THE UNIT FOR DRAINING THE SYSTEM.
A FLOAT SWITCH MONITORS THE WATER LEVELS, A RED LIGHT WILL ILLUMINATE ON THE OPERATIONS PANEL AND THE PUMP WILL TURN OFF WHEN WATER LEVELS GET TOO LOW.
- THE LARGE FAN ON TOP WILL THROW MIST OVER 45 METERS IN STILL CONDITIONS AND HAS THE ABILITY TO OSCILLATE LEFT TO RIGHT. THE CANNON CAN BE RAISED ALLOWING FOR ACCURATE TARGETING FOR THE MIST APPLICATION.
- A HIGH-PRESSURE PUMP OPERATES AT 1000PSI OR 70BAR AND MOVES 18 LITRES OF HIGH-PRESSURE MIST PER MINUTE. THE HIGH-PRESSURE PUMP IS INSTALLED IN THE TURRET BOX AND IS EASILY ACCESSIBLE FOR SERVICING.
THIS PUMP IS SUPPLIED TANK WATER BY THE TRANSFER PUMP FITTED IN THE LOWER BOX IN THE REAR OF THE UNIT.
- DUAL FILTERS ARE FITTED TO THE SIDE OF THE TURRET BOX, EACH HOUSING CONTAINS ONE 10-MICRON AND ONE 5-MICRON FILTER. MAKING SURE TO CHECK THESE REGULARLY, ESPECIALLY IF WORKING WITH POOR WATER QUALITIES.
- POWER FOR THE ENTIRE UNIT COMES FROM THE FITTED 16KVA 3 PHASE MAKINEX GENERATOR WITH HONDA ELECTRIC START ENGINE. THE GENERATOR IS SECURED TO THE TOP OF THE TANK BY TWO RODS THAT LOCK IT DOWN INTO PLACE. THE GENERATOR IS EQUIPPED WITH 1 X 3PHASE PLUG AND 2 X 250V 15A PLUGS.
- THE MAIN CONTROL PANEL HAS SWITCHES TO CONTROL ALL OF THE ELECTRICAL FUNCTIONS OF THE SYSTEM. THE M45AU UNIT ALSO INCLUDES A FULLY FUNCTIONAL REMOTE CONTROL UNIT, THIS REMOTE CAN BE USED UP TO 100 METERS AWAY FROM THE CANNON.
- FLASHING LIGHTS ARE FITTED TO THE FRONT AND THE REAR OF THE TANK UNIT. THESE WILL ACTIVATE WHEN THE GENERATOR IS SWITCHED ON.

THE T45AU IS CAPABLE OF THROWING MIST OVER 45 METERS



ALWAYS ENSURE THE TRAVEL LATCH IS DISENGAGED BEFORE USE

1. STOP BUTTON
2. NO WATER SIGNAL LIGHT
3. MANUAL FAN ADJUST LEFT & RIGHT
4. REMOTE OR MANUAL OPERATION SWITCH
5. FAN ON/OFF SWITCH (GIVE 15SEC BEFORE TURN ON MIST)
6. MIST ON/OFF SWITCH
7. OSCILLATE ON/OFF SWITCH
8. MANUAL FAN ADJUST UP/DOWN
9. LOCK FOR OPERATIONS PANEL
10. TURRET BOX CONTAINING TRANSFER & HP PUMP
11. FILL POINTS (GAUGES NO LONGER FITTED TO CANNONS)
12. FLASHING SAFETY BEACONS
13. OPERATIONS PANEL
14. INLINE DUAL FILTER HOUSING
15. SCREEN FILTER & TRANSFER PUMP
16. 2" CAM-LOCK DRAIN POINT
17. 20A 3-PHASE POWER PLUG
18. GENERATOR POWER SWITCHBOARD
19. FUEL TANK (UNLEADED PETROL ONLY)
20. CANNON LIFT ACTUATOR
21. TRAVEL PIN IN THE UNLOCKED POSITION (OLD STYLE)
22. OSCILLATION LIMIT BLOCKS
23. REMOTE & ANTENNA
24. TRAVEL LATCH ENGAGED (NEW STYLE)
25. OSCILLATION PROXIMITY SENSORS

BEFORE STARTING

ONLY EVER USE UNLEADED FUEL IN THE GENERATOR

STARTUP PROCEDURE

BEFORE STARTING IT IS RECOMMENDED THAT YOU PERFORM A SAFETY CHECK NOT LIMITED TO THE FOLLOWING ITEMS:

- PLACE THE CANNON ON A FLAT SURFACE.
- DISENGAGE THE TRAVEL LATCH FROM THE UNDERSIDE OF THE CANNON.
- CHECK THAT THE FAN SPINS WITHOUT ANY OBSTRUCTION.
- CHECK THAT ALL 60 NOZZLES ARE IN PLACE AND FIRM.
- SLIDE THE HIGH-PRESSURE PUMP OUT OF THE TURRET BOX AND CHECK THE OIL LEVEL AS SHOWN BELOW.

BEFORE STARTING

- CHECK FUEL LEVEL IN THE GENERATOR.
- ENSURE THAT THERE IS SUFFICIENT WATER IN THE TANK.
- IF YOU WISH TO USE THE REMOTE MAKE SURE THAT THE ANTENNA AND REMOTE HAVE BEEN REMOVED FROM THE CONTROL PANEL AND ARE IN GOOD CONDITION.
- ENSURE THAT THE 20A PLUG IS CONNECTED TO THE GENERATOR AND TURNED ON.

STARTUP

- OPEN THE CHOKE ON THE GENERATOR AND TURN THE KEY. WHEN THE ENGINE STARTS CLOSE THE CHOKE.
- USE THE UP & DOWN SWITCH TO RAISE THE POSITION OF THE CANNON.
- USE THE LEFT & RIGHT SWITCH TO MANUALLY POSITION THE CANNON.
- SWITCH THE FAN ON AND WAIT APPROX 15 SECONDS FOR THE FAN TO WIND UP TO FULL SPEED.
- TURN THE MIST SWITCH TO ITS ON POSITION.
- ONCE YOU HAVE MIST OBSERVE THE MISTING RING TO CHECK THAT EACH NOZZLE IS MISTING.
- NOW THAT THE M45AU IS OPERATING YOU CAN CHOOSE TO EITHER TARGET THE CANNON MANUALLY USING THE FAN UP/DOWN/LEFT/RIGHT OR SET THE CANNON TO OSCILLATE AUTOMATICALLY.
- TO USE THE REMOTE CONTROL FIND THE REMOTE SWITCH ON THE CONTROL PANEL AND TOGGLE THIS FROM MANUAL TO REMOTE. YOU WILL SEE THE GREEN LIGHT ILLUMINATE. YOU CAN NOT CONTROL THE CANNON FROM THE REMOTE CONTROL AT UP TO 100 METERS AWAY.

AFTER USE & TRANSPORT

OUR CANNONS ARE INCREDIBLY EASY TO MOVE TO AND FROM OR AROUND THE WORKSITE. IT IS IMPORTANT TO FOLLOW THESE STEPS WHEN YOU ARE PACKING DOWN YOUR MACHINE AFTER OPERATING. THIS WILL ENSURE THAT YOUR MACHINE IS READY TO BE USED DAY IN DAY OUT.

AFTER USE PROCEDURE

- CENTRE THE CANNON OVER THE GENERATOR AND MAKE SURE THAT THE CANNON IS LOWERED ALL THE WAY DOWN INTO ITS CRADLE.
- ENGAGE THE TRAVEL LATCH SO THAT THERE CAN BE NO MOVEMENT THROUGH THE CANNON.
- ACTIVATE THE STOP BUTTON ON THE CONTROL PANEL.
- ON THE GENERATOR YOU WILL SWITCH OFF THE MAIN POWER SUPPLY AND REMOVE THE PLUG. IF STORING THE MACHINE FOR LONG PERIODS PLEASE SWITCH THE CIRCUIT BREAKERS TO OFF.
- ONCE THE GENERATOR IS OFF AND DISCONNECTED YOU CAN OPEN THE CONTROL PANEL AND STORE THE REMOTE CONTROL AND ANTENNA IF THEY HAVE BEEN USED.
- IF THE MACHINE IS NOT GETTING USED FOR A LONG DURATION IT IS BEST TO DRAIN THE TANK, IF TRAVELLING A LONG DISTANCE, AVOID TRAVELLING WITH AN ULLAGE.

TRANSPORTING

- THE T45AU SHOULD BE TREATED LIKE ANY TRAILER. MAKE SURE THE HANDBRAKE IS DISENGAGED, THE JOCKEY WHEEL IS RETRACTED AND ROTATED, THE TRAILER IS SECURED WITH THE SAFETY CHAINS AND THE 7-PIN PLUG IS CORRECTLY CONNECTED TO THE VEHICLE.
- THE M45AU UNIT MEASURES 1900MM X 1200MM IN LENGTH AND WIDTH MAKING IT PRACTICAL TO CARRY ON MOST TRUCKS AND UTES.
- IF TRANSPORTING THE M45AU ON THE BACK OF A UTE OR TRUCK, MAKE SURE THAT THE LOAD IS SECURED WITH LOAD RATED STRAPS. RATCHET STRAPS CAN BE RUN ACROSS THE TOP OF THE TURRET BOX, DO THIS WITH CAUTION AND KEEP AWAY FROM THE PROXIMITY SENSORS. DO NOT RUN STRAPS OVER THE CONTROL PANEL.
- DOUBLE-CHECK THAT THE CANNON HAS BEEN LOWERED INTO ITS CRADLE AND THAT THE TRAVEL LATCH IS ENGAGED.
- IF THE MACHINE IS BEING TRANSPORTED ON UTE OR OPEN-AIR TRUCK IT IS A GOOD IDEA TO COVER THE CANNON TO PROTECT FROM BUGS AND OTHER ELEMENTS WHILE TRANSPORTING.



THE OZMIST T45AU MIST CANNON FEATURES ONE OF OZMIST'S RENOWNED INDUSTRIAL PUMP UNITS, CAPABLE OF PRESSURISING 18 LITRES OF WATER PER MINUTE AT 1000PSI OR 70 BAR. OUR PUMPS ARE KNOWN FOR THEIR RELIABILITY AND PERFORMANCE AND WILL KEEP YOU RUNNING FOR YEARS TO COME. BUT LIKE EVERY PUMP IT NEEDS TO BE PROPERLY MAINTAINED.

THESE PUMPS NEED AN OIL CHANGE EVERY 500 HOURS OF OPERATION. YOU SHOULD ALSO CHECK THE OIL REGULARLY TO ENSURE THAT THE OIL IS AT THE CORRECT LEVEL.

CHECKING THE OIL

- UNDO THE CATCH ON THE TURRET DOOR AND LOWER THE LID.
- ONCE OPEN, REMOVE THE PIN THAT STOPS THE HIGH-PRESSURE PUMP FROM SLIDING OUT ON ITS RAILS.
- WHEN REMOVED, SLIDE THE PUMP OUT ON ITS RAILS SO YOU CAN REACH THE SILVER CANISTER ON THE TOP OF THE PUMP.
- UNSCREW THE CAP ON THE SILVER CANISTER AND CHECK THE OIL LEVEL. THE OIL LEVEL SHOULD BE HALFWAY UP THE SILVER CANISTER. IF BELOW PLEASE TOP UP WITH 10W - 50 FULLY SYNTHETIC OIL.

CHANGING THE OIL

- AS ABOVE, REMOVE THE PIN AND SLIDE THE PUMP OUT ON ITS RAILS UNTIL YOU CAN LOCATE THE BRASS OIL DRAIN PLUG ON THE UNDERSIDE OF THE PUMP UNIT.
- PLACE A SUITABLE CONTAINER UNDER THE PUMP TO CATCH THE OIL.
- REMOVE THE DRAIN PLUG AND OIL SHOULD FLOW FROM THE PUMP INTO YOUR CONTAINER, WHILE DRAINING REMOVE THE CAP FROM THE TOP OF THE SILVER CANISTER AND STORE SOMEPLACE SAFE.
- ONCE THE PUMP HAS DRAINED ALL ITS OIL YOU CAN REPLACE THE DRAIN PLUG AND TIGHTEN IT FIRMLY.
- PROCEED TO FILL THE PUMP FROM THE SILVER CANISTER POURING OIL VERY SLOWLY, ALLOWING AIR TO DISSIPATE. POUR UNTIL THERE IS OIL HALFWAY UP THE SILVER CANISTER.

IT IS GOOD PRACTICE TO RUN THE PUMP FOR A SHORT AMOUNT OF TIME AFTER AN OIL CHANGE. ONCE RUN FOR A SHORT TIME CHECK THE OIL LEVEL AGAIN.

ONLY USE 10W - 40 OR 10W - 50 FULLY SYNTHETIC OIL IN OUR PUMPS.

PLEASE REFERENCE THE MAKINEX GENERATOR USER MANUAL THAT IS SUPPLIED WITH EVERY MIST CANNON TO FIND THEIR RECOMMENDED SERVICE INTERVALS.



DO NOT ADJUST NOZZLES WHILE THE MACHINE IS OPERATIONAL

NOZZLES

EACH CANNON IS FITTED WITH 60 HIGH PRESSURE MISTING NOZZLES. IT IS IMPORTANT TO VISUALLY INSPECT THESE NOZZLES PERIODICALLY TO CHECK FOR BLOCKAGES. IF YOU HAVE A BLOCKED NOZZLE, SHUT DOWN THE UNIT AND ONCE STOPPED REMOVE THE FACE OF THE BLOCKED NOZZLES (SHOWN IN IMAGE) BEING CAREFUL NOT TO LOSE ANY OF THE SMALL COMPONENTS THAT ARE SEATED INSIDE.

WASH THE BLOCKED NOZZLE FACE IN CLEAN WATER.

IT IS ALSO POSSIBLE TO SOAK THE NOZZLE FACE IN PRODUCTS SUCH AS CLR CLEAR TO REMOVE ANY CALCIUM BUILD-UP.



WATER FILTRATION

THERE ARE TWO INLINE 10" CARTRIDGE FILTERS INSTALLED ON THE INSIDE EDGE OF THE TURRET BOX. THE FILTER CLOSEST TO THE WATER INLET IS A 10-MICRON FILTER WITH THE NEXT BEING A 5-MICRON FILTER. THESE SHOULD BE CHECKED REGULARLY AS A BLOCKED FILTER CAN CAUSE ISSUES WITH THE HIGH-PRESSURE PUMP CAUSING DOWNTIME WITH THE MACHINE. OUR FILTERS CAN BE PURCHASED FROM MOST PLUMBING SUPPLY STORES.

EVERY MIST CANNON PURCHASED IS SUPPLIED WITH THE APPROPRIATE TOOLING TO REMOVE AND REPLACE THE FILTERS ON THE SPECIFIC MACHINE.

THE T45AU IS ALSO FITTED WITH A SCREEN FILTER THAT CAN BE BACKFLUSHED IF REQUIRED. THIS SCREEN FILTER IS FITTED IN THE STEP ON THE REAR OF THE MACHINE DIRECTLY BELOW THE DUAL FILTER HOUSINGS.

KEEP IN MIND THAT RUNNING A MACHINE WITH DIRTY FILTERS CAN ALLOW DIRT TO TRAVEL THROUGH THE SYSTEM AND END UP IN THE NOZZLES, ESPECIALLY IF YOU ARE DRAWING FROM A POOR QUALITY WATER SOURCE.



KEEP YOUR SPARE PARTS IN A SAFE AND DRY LOCATION

THERE IS A NUMBER OF SPARE PARTS THAT ARE PROVIDED IN A TOOLBOX WHEN YOU PURCHASE ONE OF OUR MOBILE MIST CANNONS. THIS TOOLBOX WILL ALSO HOUSE ALL THE DOCUMENTATION NEEDED FOR MACHINE OPERATION.

THESE SPARES INCLUDE CONSUMABLE PRODUCTS SUCH AS:

- REPLACEMENT 5 & 10-MICRON CARTRIDGE FILTERS
- REPLACEMENT 0.5MM HIGH-PRESSURE MISTING NOZZLES
- A 1-LITRE BOTTLE OF 10W-50 FULLY SYNTHETIC OIL

YOU WILL ALSO RECEIVE COMPONENTS AND TOOLS IN THE SPARE PARTS BOX:

- OSCILLATION BLOCKS FOR LIMITING THE MACHINES LEFT & RIGHT ROTATION
- PLASTIC SPANNER FOR REMOVING FILTER HOUSING FOR INSPECTION AND REPLACEMENT
- KEY TO UNLOCK THE OPERATIONS PANEL DOOR



TROUBLESHOOTING

GENERATOR IS
RUNNING BUT FAN
WILL NOT START?

- CHECK THE POWER CABLE IS CONNECTED TO THE GENERATOR.
- CHECK THE MAIN POWER SWITCH IS IN ITS 'ON' POSITION ON THE GENERATOR.
- POWER SUPPLY CIRCUIT COULD BE OVERLOADED AND TRIPPED ON THE GENERATOR.
- CHECK THE WATER LEVEL IN THE TANK, THE WATER LIGHT ON THE CONTROL PANEL SHOULD BE ILLUMINATED.
- TURN OFF THE GENERATOR AND HAVE QUALIFIED PERSONS CHECK THE SAFETY SWITCH INSIDE THE CONTROL PANEL.

CANNON WILL NOT
TILT UP FROM ITS
HOMED POSITION?

- CHECK THAT THERE IS POWER, THE GREEN LIGHT ON THE CONTROL BOARD SHOULD BE ILLUMINATED.
- CHECK THAT THE STOP BUTTON IS DISENGAGED.
- CHECK THAT THE CIRCUIT BREAKER HAS NOT BEEN TRIPPED ON THE GENERATOR.
- TURN THE GENERATOR OFF AND HAVE QUALIFIED PERSONS CHECK THE CIRCUIT BREAKER INSIDE THE CONTROL PANEL.
- IF THE CANNON HAS BEEN RAISED SLIGHTLY WITH THE TRAVEL LATCH IN ITS LOCKED POSITION THERE WILL BE PRESSURE ON THE LATCH AND IT WILL NOT UNDO, WITH THE MACHINE RUNNING HOLD THE DOWN SWITCH UNTIL THE LATCH CAN BE SAFELY UNDONE.

MIST CANNON NOT
GIVING A
CONSISTANT MIST
OUTPUT

- THIS USUALLY OCCURS WHEN THE FILTERS ARE DIRTY OR BLOCKED SEE THE "MAINTENANCE PAGE" THAT REFERS TO FILTRATION CARE AND REPLACEMENT.

IF YOU HAVE AN ISSUE WITH YOUR M45AU MIST CANNON PLEASE CONTACT



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REMOTE OPERATION



REMOTE FUNCTIONS

1. REMOTE ON BUTTON
2. REMOTE OFF BUTTON
3. FAN ON / OFF BUTTON
4. MIST ON / OFF BUTTON
5. CANNON UP BUTTON
6. CANNON DOWN BUTTON
7. OSCILLATE ON / OFF BUTTON
8. N/A
9. ANTENNA

*MAKE SURE THAT THE ANTENNA IS STUCK TO THE SIDE NOT THE TOP OF THE OPERATIONS BOX. THIS WILL ALLOW WATER TO DRIP OFF THE ANTENNA AND NOT INTO THE BOX.

CONTACT DETAILS

INFO@OZMIST.COM.AU - 1300 306 478

OZMIST

LIMITED WARRANTY AGAINST DEFECTS POLICY

THIS DOCUMENT SETS THE LIMITED WARRANTY AGAINST DEFECTS FOR CERTAIN PRODUCTS MANUFACTURED BY OZ MIST PTY LTD ACN 096 811 488 (REFERRED TO IN THESE TERMS AND CONDITIONS AS 'OZMIST', 'WE', 'US', OR 'OUR'). A PERSON OR ORGANISATION WHO HAS PURCHASED AN OZMIST PRODUCT WILL BE REFERRED TO IN THIS DOCUMENT AS 'YOU' OR 'YOUR'.

OZMIST WARRANTS THAT THE PRODUCTS THAT IT SELLS DIRECTLY TO YOU ARE FREE FROM DEFECTS IN WORKMANSHIP. OUR PRODUCTS ARE PUT THROUGH TESTS AND INSPECTIONS BEFORE THEY ARE SOLD TO YOU. IF WITHIN THE WARRANTY PERIOD DEFINED BELOW, YOU BELIEVE A PRODUCT YOU HAVE PURCHASED FROM US DOES NOT COMPLY WITH THIS WARRANTY, THEN YOU MUST FOLLOW THE PROCESS SET OUT IN THIS WARRANTY DOCUMENT.

1. AUSTRALIAN CONSUMER LAW DISCLAIMER

OUR GOODS AND SERVICES COME WITH GUARANTEES THAT CANNOT BE EXCLUDED UNDER THE AUSTRALIAN CONSUMER LAW. YOU ARE ENTITLED TO A REPLACEMENT OR REFUND FOR A MAJOR FAILURE AND COMPENSATION FOR ANY OTHER REASONABLY FORESEEABLE LOSS OR DAMAGE. YOU ARE ALSO ENTITLED TO HAVE THE GOODS REPAIRED OR REPLACED IF THE GOODS FAIL TO BE OF ACCEPTABLE QUALITY AND THE FAILURE DOES NOT AMOUNT TO A MAJOR FAILURE. THIS WARRANTY IS IN ADDITION TO YOUR RIGHTS UNDER THE AUSTRALIAN CONSUMER LAW.

2. WHAT THE WARRANTY COVERS

THIS WARRANTY APPLIES:

1. TO ANY OZMIST PRODUCTS, INCLUDING PARTS OF A PRODUCT, EXCEPT AS EXCLUDED IN CLAUSE 3 (PRODUCT); AND
2. FOR 1 YEAR FROM THE DATE YOU PURCHASED THE PRODUCT FROM US (WARRANTY PERIOD).

3. EXCLUSIONS

THIS WARRANTY DOES NOT COVER ANY CONSUMABLES, INCLUDING BUT NOT LIMITED TO NOZZLES, PUMPS, INTERNAL SEALS, WATER FILTERS, NYLON TUBES AND SIMILAR COMPONENTS OF A PRODUCT.

THIS WARRANTY ALSO DOES NOT COVER ANY DEFECT WHICH IS A RESULT OF YOUR OR ANOTHER PARTYS FAULT, INCLUDING BUT NOT LIMITED TO:

- FAILURE TO PROPERLY INSTALL THE PRODUCT IN ACCORDANCE WITH OUR INSTRUCTION MANUALS;
- FAILURE TO USE THE PRODUCTS IN ACCORDANCE WITH OUR INSTRUCTION MANUALS;
- EXPOSURE TO CONDITIONS DUE TO THE MANNER IN WHICH THE PRODUCT IS INSTALLED, USED OR STORED;
- POWER SUPPLY ISSUES THAT AFFECT THE INSTALLATION OR USE OF THE PRODUCT;
- FAILURE TO STORE THE PRODUCT IN A SECURE FACILITY;
- MODIFICATION OR MISUSE OF THE PRODUCT;
- REGULAR WEAR AND TEAR;

WARRANTY

CONTACT DETAILS

INFO@OZMIST.COM.AU - 1300 306 478

4. HOW TO MAKE A CLAIM UNDER THIS WARRANTY

1. MAKING A CLAIM

IF WITHIN THE WARRANTY PERIOD, YOU BELIEVE THAT A PRODUCT YOU PURCHASED IS FAULTY, YOU MUST IMMEDIATELY STOP USING THE PRODUCT AND PLEASE CONTACT US BY USING THE EMAIL ADDRESS PROVIDED IN THE HEADER OF THIS WARRANTY DOCUMENT WITH FULL DETAILS OF THE FAULT (INCLUDING IMAGES).

2. FURTHER INSPECTION

IF WE DETERMINE THAT YOUR PRODUCT MAY BE DEFECTIVE, WE WILL EITHER;

1. REQUEST THAT YOU SEND YOUR PRODUCT (OR A PART OF A PRODUCT, SUCH AS THE MOTOR) BACK TO US, AT YOUR COST, FOR FURTHER INSPECTION USING OUR OWN TESTING METHODS, INCLUDING ANY REQUESTED ACCESSORIES, DOCUMENTATION OR REGISTRATION SHIPPED WITH THE PRODUCT. OR;
2. IF YOUR PRODUCT IS LOCATED WITHIN A REASONABLE DISTANCE OF OUR BUSINESS ADDRESS PROVIDED IN THE HEADER OF THIS WARRANTY DOCUMENT (PRODUCT LOCATION), WE MAY, AT OUR ABSOLUTE DISCRETION, VISIT THE PRODUCT LOCATION FOR FURTHER INSPECTION OR TO PICK UP THE PRODUCT FOR REPAIRS, WITHIN A REASONABLE TIME NOTIFIED BY US TO YOU. IF WE CHOOSE TO DO THIS, WE WILL COMMUNICATE TO YOU THE DATE/S AND TIME/S WE WILL TRAVEL TO THE PRODUCT LOCATION AND YOU MUST ENSURE THAT YOU OR A REPRESENTATIVE IS AVAILABLE AT THOSE DATES AND TIMES.

3. AFTER INSPECTION

IF WE DETERMINE, IN OUR ABSOLUTE DISCRETION;

1. THAT THE RELEVANT PRODUCT IS FAULTY AND COVERED BY THIS WARRANTY, WE WILL PROVIDE YOU WITH A REPAIR, REPLACEMENT OR REFUND OF THE PRODUCT AT OUR COST. OR;
2. THAT THE RELEVANT PRODUCT IS NOT FAULTY OR IS FAULTY DUE TO YOUR FAULT OR ANY EXCLUSIONS SET OUT IN CLAUSE 3, WE WILL REFUSE YOUR WARRANTY CLAIM.

4. NO OTHER WARRANTIES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES NOT EXPRESSLY STATED IN THIS WARRANTY DOCUMENT, OR IN ANY WRITTEN TERMS AND CONDITIONS ISSUED BY US, ARE EXCLUDED.

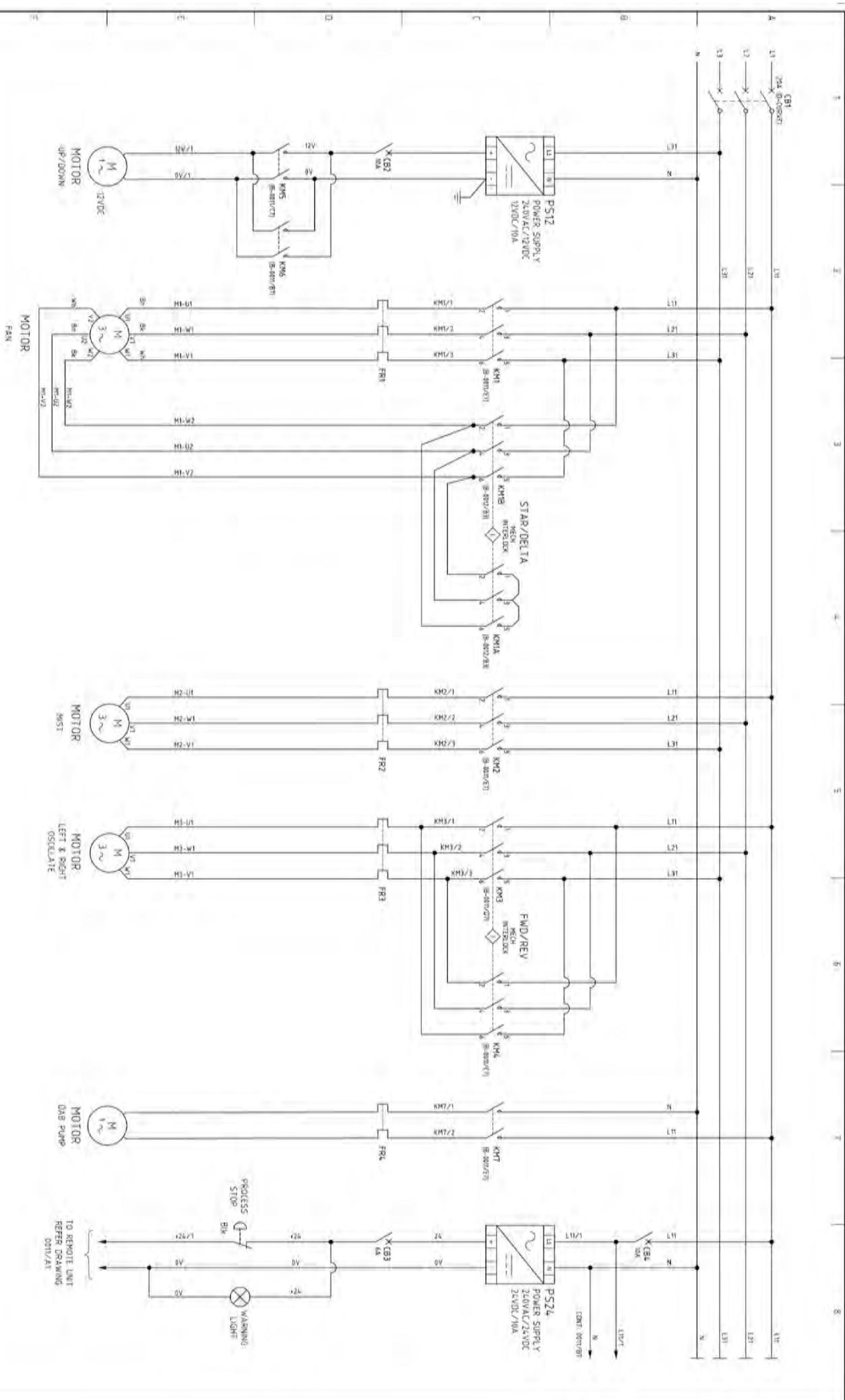
5. LIABILITY

TO THE MAXIMUM EXTENT PERMITTED BY LAW, WE EXCLUDE ANY LIABILITY THAT MAY ARISE AS A RESULT OF YOU PURSUING A WARRANTY CLAIM IN ACCORDANCE WITH THIS WARRANTY DOCUMENT.

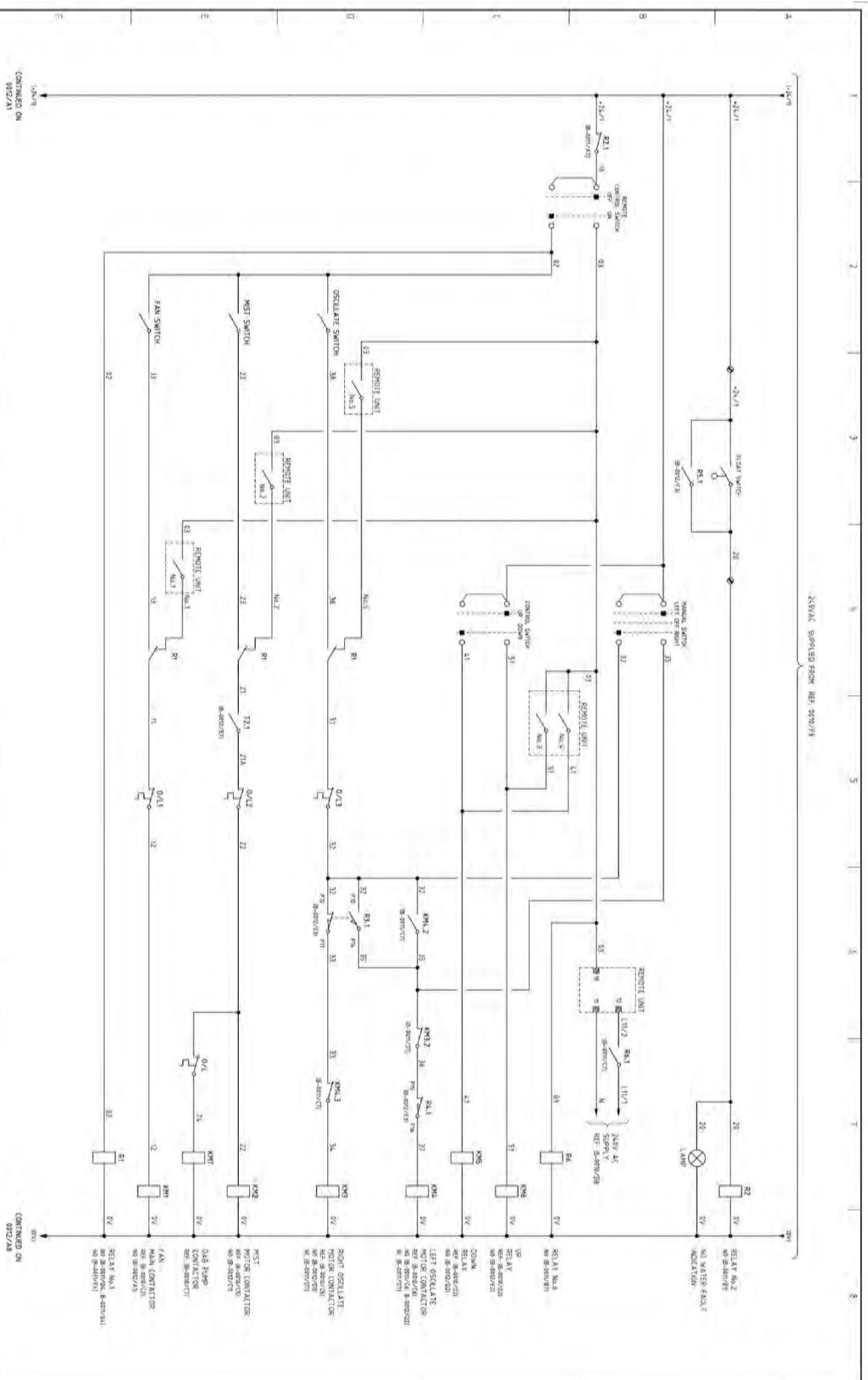
6. JURISDICTION

THIS WARRANTY DOCUMENT IS GOVERNED BY THE LAWS OF VICTORIA, AUSTRALIA.





Ref	Part No	QTY	Descr
1	PS12	1	POWER SUPPLY
2	PS24	1	POWER SUPPLY
3	FR1	1	RELAY
4	FR2	1	RELAY
5	FR3	1	RELAY
6	FR4	1	RELAY
7	FR5	1	RELAY
8	FR6	1	RELAY
9	FR7	1	RELAY
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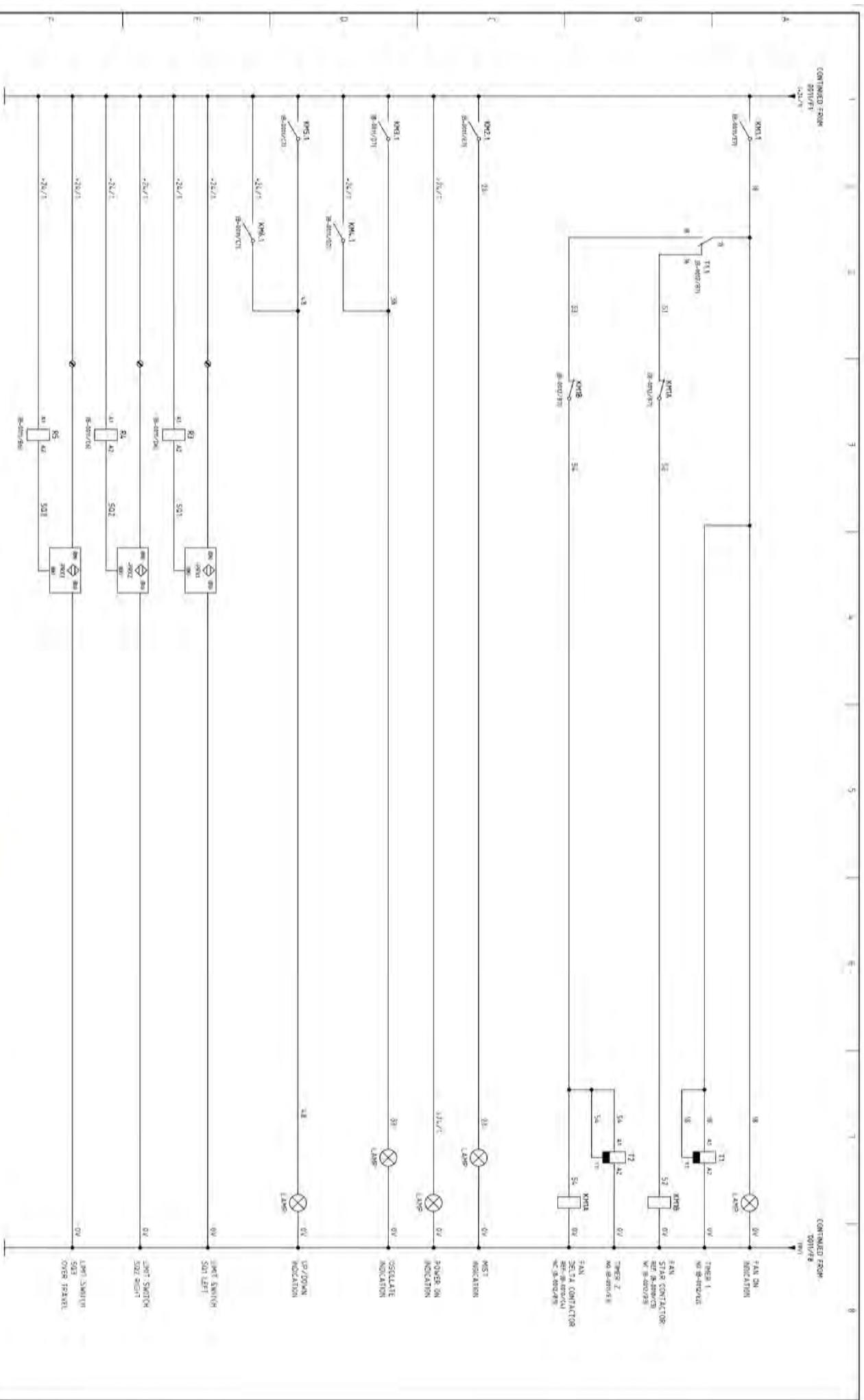
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0212/AB



EDC electrical
design & construction
INC. BOSTON
800-343-9270 • 617-451-0000

0212/AB



Date: 25th February 2020
Revision: 1
Reference: 250220OzMist

Dean McDonald
Director
OzMist

Dear Dean,

Thank you for participating in the Electrical Safety Risk Assessment on the Ozmist Mist Cannon Trailer.

This assessment was required to accurately determine if and what type of Emergency Stop is required.

Results of the risk assessment have determined that no Electrical E-Stop circuit is required if the following mechanical guarding is installed;

Rack & Pinion

- New Fixed Guarding to be installed on the most outer ring of the turret to isolate all internal moving parts. Resulting in satisfactory guarding complying with the Australian Standards (AS 4024.1801-2006 – Table 1 safety distances used where a low risk exists)

4.2.2 Reaching over protective structures

Figure 2 shows the safety distance for reaching over a protective structure.

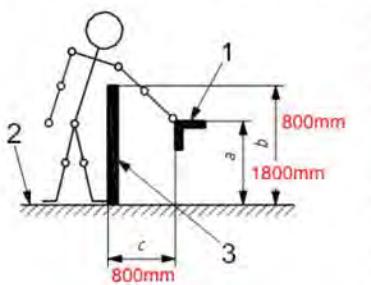


Table 1 — Reaching over protective structures — Low risk

Dimensions in millimetres

Height of hazard zone ^a m	Height of protective structure ^b m								
	1 000	1 200	1 400	1 600	1 800	2 000	2 200	2 400	2 500
Horizontal safety distance to hazard zone, c									
2 500	0	0	0	0	0	0	0	0	0
2 400	100	100	100	100	100	100	100	100	0
2 200	600	600	500	500	350	250	0	0	0
2 000	1 100	900	700	600	500	350	0	0	0
1 800	1 100	1 000	900	800	600	0	0	0	0
1 600	1 300	1 000	900	800	500	0	0	0	0
1 400	1 300	1 000	900	800	100	0	0	0	0
1 200	1 400	1 000	900	800	500	0	0	0	0
1 000	1 400	1 000	900	800	300	0	0	0	0
800	1 300	900	600	0	0	0	0	0	0
600	1 200	500	0	0	0	0	0	0	0
400	1 200	300	0	0	0	0	0	0	0
200	1 100	200	0	0	0	0	0	0	0
0	1 100	200	0	0	0	0	0	0	0

^a Protective structures less than 3 000 mm in height are not included because they do not sufficiently restrict movement of the body.

^b For hazard zones above 2 500 mm, refer to 4.2.1.

For additional information on the risk assessment, List of possible hazards considered, and performance level required scoring. Please refer to the electrical safety risk assessment attached.

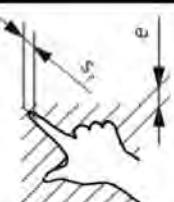
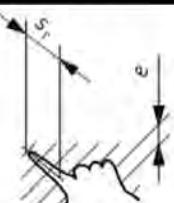
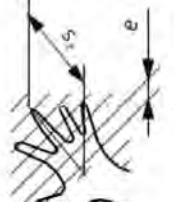
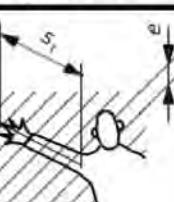


Fan Blades

- 20mm Spacers have been deemed sufficient to increase the safety distance due to the larger sized mesh installed. Noting only an additional 10mm is required to comply with the Australian Standards (AS 4024.1801-2006 – Table 4 Reaching through openings for >14 year old)

Table 4 — Reaching through regular openings — Persons of 14 years of age and above

Dimensions in millimetres

Part of body	Illustration	Opening	Safety distance, s_f			
			Slot	Square	Round	
Fingertip		$e \leq 4$	W 2	W 2	W 2	
		$4 < e \leq 6$	W 10	W 5	W 5	
Finger up to knuckle joint		$6 < e \leq 8$	W 20	W 15	W 5	
		$8 < e \leq 10$	W 80	W 25	W 20	
		$10 < e \leq 12$	W 100	W 80	W 80	
		$12 < e \leq 20$	W 120	W 120	W 120	
		$20 < e \leq 30$	W 850 ^a	W 120	W 120	
Hand		$30 < e \leq 40$	W 850	W 200	W 120	
		$40 < e \leq 120$	W 850	W 850	W 850	
Arm up to junction with shoulder		$30 < e \leq 40$	W 850	W 200	W 120	
		$40 < e \leq 120$	W 850	W 850	W 850	
The bold lines within the table delineate that part of the body restricted by the opening size.						
^a If the length of the slot opening is $u \leq 65$ mm, the thumb will act as a stop and the safety distance can be reduced to 200 mm.						

For additional information on the risk assessment, List of possible hazards considered, and performance level required scoring. Please refer to the electrical safety risk assessment attached.

We have amended your electrical schematics removing the emergency stop contacts and recommend replacing with a black mushroom style (Process Stop).

This will still allow the machine to function as designed by OzMist with no changes to the electrical circuit required on previous or future builds



Review Undertaken By:

Name:	Qualifications:	Company:	Date:
Mark Pfeiffer	Director, Functional Safety Trained (TÜV Rheinland)	EDC Electrical	25/02/2020
Darren Stephens	Functional Safety Qualified (TÜV Rheinland)	EDC Electrical	25/02/2020

Reference Codes, Standards and Publications:

- Occupational Health and Safety Act 2004
- Vic OH&S regulation 2017
- Electrical Safety (Installations) Regulations 2009 of Victoria
- WorkSafe Plant hazard check list
- AS/NZS 4024 series. 2014 Safety of machinery standards
- AS 3000 – Electrical installations (known as the Australian/New Zealand Wiring Rules)

Disclaimer

This review has been undertaken to identify foreseeable hazards and determine control measures to ensure that obligations under the Vic OH&S Act 2004 are met.

Whilst every effort has been made to thoroughly identify foreseeable hazards, determine control measures and assess equipment for compliance with the relevant standards, it should be noted that it remains the responsibility of the designer, manufacture, supplier, installer and business owner to thoroughly assess the design, manufacture and installation for compliance to ensure that all hazards have been adequately controlled to prevent injury.

Residual risk needs to be managed as part of equipment ongoing hazard identification and risk assessment and Standard Operating Procedures

We also advise that where hazards are identified and not eliminated a risk assessment must be undertaken as soon as possible in consultation with employees and in accordance with the Vic OH&S Act 2004

Yours Faithfully



Mark Pfeiffer

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Phone: +61 2 6024 6044
Fax: +61 2 6024 6055
Email: markpfeiffer@edcelectrical.com.au
Website: www.edcelectrical.com.au



MACHINE SAFETY INSPECTION & TEST PLAN
OZMIST
MIST CANNON ELECTRICAL RISK ASSESSMENT PROCESS

ITP NUMBER	J23055.ITP.01
DATE	25/02/2020
REV	1

PROJECT	Mist Cannon	LOCATION	EDC Workshop	PREPARED BY	Mark Pfeiffer	REVIEWED BY	Darren Stephens
REV NO	1	BUILDING / AREA		DATE	25/02/2019	APPROVED BY	
CLIENT	OzMist		<th></th> <td><th></th><th></th></td>		<th></th> <th></th>		

LEGEND

R	Risk Assessment	Overall process comprising a risk analysis and a risk evaluation
PLE	Performance Level Evaluation	Performance level applied in order to achieve the required risk reduction for each safety function
MSD-E	Machine Safety Design Electrical	Electrical equipment designed and installed, to meet both the functional and performance requirements of the safety functions
MSD-M	Machine Safety Design Mechanical	Mechanical works for safeguarding and complementary protective measures
SATE	Site Acceptance Test Electrical	Electrical test activity to be undertaken and recorded
SAT-M	Site Acceptance Test Mechanical	Mechanical test activity to be undertaken and recorded
H	Hold Point	Work shall not proceed past the hold point until released by the organization imposing the Hold point
RV	Review	Review of reports or other evidence of compliance

REFERENCE DOCUMENTS

Development:	Electrical Safety Risk Assessment
Implementation:	N/A

APPROVAL/REVISION

Rev	Date	Details	Approved by	Date
1	25/02/2020	Assessment Completed	Mark Pfeiffer & Darren Stephens	25/02/2020

MACHINE SAFETY INSPECTION & TEST PLAN

OZMIST

MIST CANNON ELECTRICAL RISK ASSESSMENT PROCESS

ITP NUMBER	J23055.ITP.011
DATE	25/02/2020
REV	1

Item No.	Activity / Basic Job Step	Responsible	Acceptance Criteria	Applicable Standard	Verification By			Verifying Records / Checklists
					Name / Position	Signature	Date	
1	Risk Assessment	EDC	All Electrical hazards identified & Risk assessment completed	AS/NZS 4024.1201:2014	Mark Pfeiffer Electrical Design Darren Stephens Functional Safety Qualified ((TÜV Rheinland))		25.02.2020	
2	Performance Level Evaluation	EDC	Identify the safety related parts which carry out the safety function	AS/NZS 4024.1503:2014	Mark Pfeiffer Electrical Design Darren Stephens Functional Safety Qualified ((TÜV Rheinland))		25.02.2020	
3	Machine Safety Design Electrical	EDC	Completed design of the safety related parts of a control system	AS/NZS 4024.1501:2014	Mark Pfeiffer Electrical Design Darren Stephens Functional Safety Qualified ((TÜV Rheinland))		25.02.2020	
4	Machine Safety Design Mechanical	OZMIST	Completed design of the safeguarding and complementary protective measures					
5	Site Acceptance Test Electrical	EDC	Demonstrated and documented that each safety related part meets the requirements of AS 4024.1501	AS/NZS 4024.1502:2014	Not Required	Not Required	Not Required	Not Required

Note: Once each stage of the job is completed please sign under the Verification Activity, include name / position and also date when the final task was completed for that line item.



ELECTRICAL SAFETY RISK ASSESSMENT

for

Client: Ozmist

Site Location: EDC Workshop

Reference:

Plant / Equipment Location: Transportable

Plant / Equipment Details: Misting Fan (Application Dust Suppression)

Asset Number: N/A

Assessment Requirement:

EDC Representatives : Mark Pfeiffer
Darren Stephens

Client Representatives: Dean McDonald

Date Of Assessment: 25.02.2020

Date : 25.02.2020

Report No :
Rev : 1.0

Client:	Ozmist
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)
Asset Number:	N/A



1.0 Reference Standards

Reference	Standards Title
AS/NZS4024.1-2014	Safety of Machinery: Series 1 Australian/ New Zealand Standard
AS4024.2801-2008	AS4024.2801-2008 Safeguarding of Machinery – Installation and commissioning requirements
AS 60204-1:2006	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2009-02)

2.0 Plant & Machinery Hazard Analysis

The initial stage of Risk Assessment is concerned with the identification of the hazards. In the case of new machinery in the design stage, it may be possible to identify a hazard and conduct a redesign to reduce or eliminate the risks. In the case of existing machinery, this option is rarely possible. The options from this point are to provide protective measures. These usually involve the provision of a combination of fixed and distance guarding.

The lists below provide examples of possible hazards which may exist on plant/machinery and a list of recommended control measures which may be implemented to mitigate or eliminate the hazards.

List of Possible Hazards

None Identified
 Mech - Crush hazard from falling material
 Mech - Crush hazard on Loading System
 Mech - Conveyor/Roller; Nip/Pinch Point
 Mech - Automatic Cycle / Unexpected Start
 Mech - Cut hazard on blades/ Machine Parts
 Mech - Plant tipping or rolling over
 Mech - Being trapped between plant or fixed structures
 Mech - Suspended Live Load
 Control Sys - Safety Control Category
 Control Sys - Fail to Stop
 Control Sys - Defeated/Jumpered Safeguard Devices
 Control Sys - Automatic Cycle / Unexpected Start
 Control Sys - Jogging / Unlimited Speed
 Control Sys - Electric Shock
 Multiple hazards in emergency situations
 Electrical - Improper Grounding
 Electrical - Live parts
 Electrical - Flash
 Electrical - Water ingress
 Pneumatic - Safety Control Category
 Pneumatic - Overpressure
 Coming in contact with sharp or flying objects
 The plant (parts of) or work pieces disintegrating
 Ejection of work pieces from plant
 Uncontrolled or unexpected movement of the plant
 The mobility of the plant
 Entrapment in cell during full body access
 Hydraulic - Overpressure
 Pressure Vessel
 Slip / Trip / Fall
 Temperature / Burn
 Temperature from friction of moving parts
 Hot / Boiling liquids
 Chemical / Fumes
 Ergonomics
 Fire / Explosion
 Noise
 Other factors not mentioned

List of Recommended Control Measures

None Present / Client Responsibility
 Administrative Controls / PPE
 Fixed Guard: Replace / Repair existing and/or Fasteners
 Fixed Guarding: Add new and/or Fasteners
 Fixed Guard: High level/platform guarding and gate
 Fixed Guard, Polycarbonate: Replace existing
 Fixed Guard, Polycarbonate: Add New
 Movable Guarding/Gate: Replace / Repair existing and/or Fasteners
 Movable Guarding/Gate: Add new, Interlocked
 Conveyor Underside Guarding: Add new
 Conveyor Underside Guarding: Add new, Interlocked
 Zone Control: Define/create and guard Safety Zones
 Zone Control: Relocate existing controls outside of Safety Zones
 E-Stops Upgrade: Replace with compliant E-Stop PB & Safety Reset
 E-Stops: Install new Emergency Stop
 E-Stops: Install new Pull-cord/Lanyard
 Upgrade Safety Controls: PLr Safety-rated components
 Access Control: Add non-locking Gate Switch
 Access Control: Add Gate Locking Switch
 Access Control: Add Trapped Key Switch
 Access Control: Add Enabling Switch
 Access Control: Two-Hand Controls
 Presence Sensing: Add Light Curtain
 Presence Sensing: Add Safety Mat
 Presence Sensing: Add Edge Detector
 Presence Sensing: Add Laser Scanner
 Pressure Control/Monitoring: Add pressure switch to safety circuit
 Temperature Control/Monitoring: include in safety circuit
 Safe/Zero Speed: Add Speed Sensing relays/controls for safe access
 Safe/Zero Speed: Add control reliable circuits for safe access
 Pneumatic Isolation: safety contactor/relay only
 Pneumatic Isolation: safety contactor/relay pair
 Pneumatic Isolation: safety valve; block/bleed
 Hydraulic Isolation: safety contactor/relay only
 Hydraulic Isolation: safety contactor/relay pair
 Hydraulic Isolation: safety valve; block/bleed
 Hydraulic Isolation: Add Hose Burst protection
 Mechanical: Add mechanical stop to prevent machine movement
 Other factors not mentioned

Client:	Ozmist
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)
Asset Number:	N/A



3.0 Risk Estimation & Evaluation Criteria

In order to identify, estimate and reduce the hazards present in machinery a Preliminary Hazard Analysis is performed using Hazard Rating Number (HRN). Using this technique, it is possible to assign a number to a specific risk with higher numbers representing greater risks. Risk is generally described in AS/NZS 4024.1201:2014 (EN 12100) as a function of : frequency of exposure, severity of harm, number of persons exposed & the likelihood of occurrence.

The four parameters are evaluated in the HRN process: $HRN = FE \times DPH \times NP \times LO$

Frequency of Exposure (FE)

0.5	Annually	0.1	Scratch / Bruise
1	Monthly	0.5	Burn, cut, short illness
1.5	Weekly	2	Fracture: minor bone or minor illness (temporary)
2.5	Daily	4	Fracture: major bone or major illness (temporary)
4	Hourly	6	Amputation of a limb, one eye or partial hearing loss
5	Constantly	10	Amputation of two limbs, eyes or total loss of hearing or sight
		15	Fatality

Degree of Possible Harm (DPH)

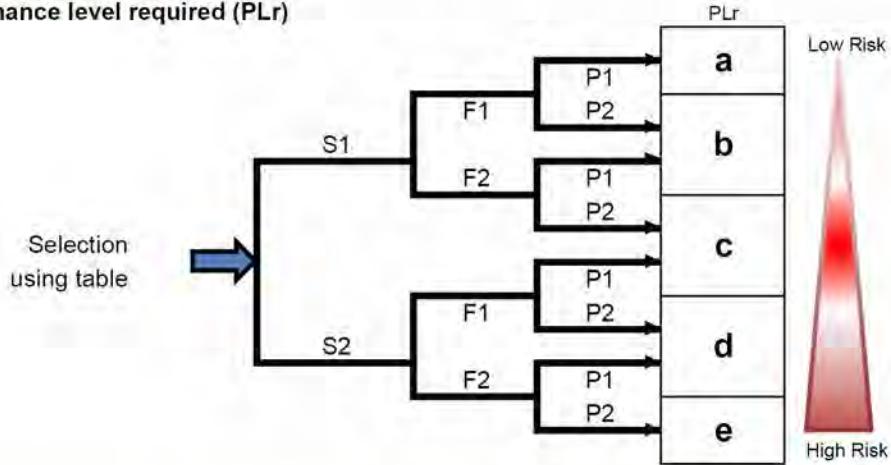
Number of Persons at Risk (NP)

Likelihood of Occurrence (LO)

1	1- 2 persons	0.033	Little/low possibility, extreme circumstances
2	3 - 7 persons	1	Highly improbable, but still possible
4	8 - 15 persons	1.5	Improbable, but still possible
8	16 - 50 persons	2	Possible, but unusual
12	More than 50 persons	5	Although improbable, it may happen
		8	Probable – Not surprising
		10	Probable – Can be expected
		15	Certain – No doubt

HRN	Risk	Comment
0-4.9	Negligible Risk	Presents very little risk to health and safety. The residual risks are to be controlled by awareness training and in some cases by warning signs.
5 – 49.9	Low but significant risk	These are risks that need to be reduced by applying suitable control measures but are not considered urgent
50-499.9	High risk	Having potentially dangerous hazards, which require control measures to be implemented urgently
500 >	Unacceptable Risk	These hazards are extreme and the equipment should not be operated until the level has been reduced.

4.0 Selection of Performance level required (PLr)



S	Severity of injury	Description
S1	slight (normally reversible injury)	bruise, abrasion, puncture wound, minor injury
S2	serious (non-reversible injury or death)	skeletal injuries, amputations and death
F	Frequency and/or exposure to hazard	
F1	seldom to less often and/or exposure time is short	less frequently than every two weeks
F2	frequent to continuous or exposure time is long	more often than every two weeks

Client:	Ozmist	 EDC electrical <small>design & construction</small>
Location:	EDC Workshop	
Equipment Loc:	Transportable	
Equipment Detail:	Misting Fan (Application Dust Suppression)	
Asset Number:	N/A	
P	Possibility of avoiding hazard or harm	
P1	possible under specific conditions	slow movements, plenty of space, low power
P2	scarcely possible	quick machine movements, crowded, high power

Client:	Ozmist	HRN	Risk:
Location:	EDC Workshop	0.5	Negligible
Equipment Loc:	Transportable	6-50	Low/ significant
Equipment Detail:	Misting Fan (Application Dust Suppression)	51-500	High
Asset Number:	N/A	> 500	Inconceivable



A. ENTANGLEMENT									
Can anyone's hair, clothing, gloves, needle, jewellery, cleaning brushes, rings or other materials become entangled with moving parts of the plant, or materials in motion?									
ITEM #	PICTURE REF #	Possible Hazard	Exists Y/N	Machine Task / Comments	Recommended Control Measures	Existing / Administrative Controls / PPE	Likelihood of Occurrence (LO)	Freq of Exposure (FE)	Degree of Possible Harm (DPH)
A-1	3	Loose clothing getting caught in the rack & Pinion Assembly	Yes	Set-up / Changeover	Administrative Controls / PPE	Improbable but still possible (1.5)	Daily (2.5)	Break / Minor, bone or minor illness (temporary) (2)	1-2 persons (1)
A-2	1	Long hair getting sucked into the fan causing entanglement	Yes	Normal Operation	Administrative Controls / PPE	Improbable but still possible (1.5)	Daily (2.5)	Break / Major, Bone or Major illness (temporary) (4)	1-2 persons (1)
A-3									
A-4									

NOTES

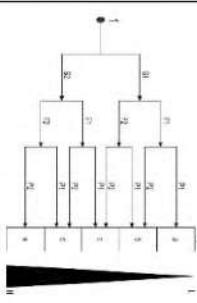
Hair to be neat and tidy with any considerable length to be contained to ensure hair cannot be sucked into fan causing entanglement.

Assess Risk With No Safeguards To Determine Category Rating Required									
No safeguards (determine PLR requirements)									
ITEM #	PICTURE REF #	Possible Hazard	Exists Y/N	Machine Task / Comments	Recommended Control Measures	Likelihood of Occurrence (LO)	Freq of Exposure (FE)	Degree of Possible Harm (DPH)	No. Persons Exposed (NP)
A-1	3	Loose clothing getting caught in the rack & Pinion Assembly	Yes	Set-up / Changeover	Administrative Controls / PPE	Improbable but still possible (1.5)	Daily (2.5)	Break / Minor, bone or minor illness (temporary) (2)	1-2 persons (1)
A-2	1	Long hair getting sucked into the fan causing entanglement	Yes	Normal Operation	Administrative Controls / PPE	Improbable but still possible (1.5)	Daily (2.5)	Break / Major, Bone or Major illness (temporary) (4)	1-2 persons (1)
A-3									
A-4									

Description of recommended Control Measures

After Hazop the following corrective measures were discussed to remove the Hazard

- Install Guarding on the tunnel Guarding to be installed on the outer most ring to isolate all internal moving parts.



Crushing

Client	Ozmet
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)
Asset Number:	N/A

HRN	Risk
6-5	Medium
6-50	Low, significant
51-500	High
> 500	Unacceptable

C. CUTTING, STABBING AND PUNCTURING

C. CUTTING, STABBING AND PUNCTURING

ITEM #	PICTURE REF #	Possible Hazard	Status Y/N
C-1	2	Fingers Coming in contact with sharp or flying objects	Yes
C-2			
C-3			

NOTES

Guarding on the back of the fan is unsatisfactory. Additional 20mm spacers to be installed between fan housing and mesh. Guarding to be installed to comply with Table 1 (AS4024 1901-2006, Safety Distances used where a low risk exists).



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Client:	Ozmist
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)

Asset Number:	N/A
D. SHEARING Can anyone's body parts be sheared due to:	
ITEM #	PICTURE REF #
D-1	
D-2	
D-3	

EDC electrical
design & construction

HRN	Risk
0-5	Negligible
6-50	Low significant
51-500	High
> 500	Unacceptable

HRN = LO x FE x DPH x NF

No safeguards
(requirements)

Assess Risk With No Safeguards To Determine Category Rating Required

Existing / Recommended Control Measures	Likelihood of Occurrence (LO)	Freq of Exposure (FE)	Degree of Possible Harm (DPH)	No. Persons Exposed (NP)	Mechanical Guarding	Hazard Rating	Risk Level	S	F	P	Category	PL
E-Stops Upgrade, Replace with compliant E-Stop PB & Safety Reset	Highly Unlikely - though conceivable (1)	Daily (2/5)	Laceration / mid ill-effect (0.5)	1-2 persons (1)	No	Negligible	S1	F1	P1	B	a	
											P1	
											P2	

NOTES

Description of recommended Control Measures

After Hazop the following corrective measures were discussed to remove the Hazard

- Install Guarding on the turret. Guarding to be installed on the outer most ring to isolate all internal moving parts.

1300 306 478



Client:	Ormist	HRN:	Risk
Location:	EDC Workshop	0.5	Negligible
Equipment Loc:	Misting Fan (Application Dust Suppression)	0-50	Low significant
Equipment Detail:		51-500	High
Asset Number:	N/A	> 500	Unacceptable



F. TEMPERATURE
Can anyone be burnt due to contact with :

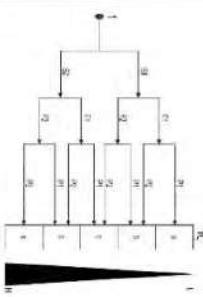
Assess Risk With No Safeguards To Determine Category Rating Required

No safeguards
(determination of PLc)
HRN = LO x FE x DPH x NF

ITEM #	PICTURE REF #	Possible Hazard	Exists Y / N	Comments / Task.	Recommended Control Measures	Existing / Control Measures	Likelihood of Occurrence (LO)	Freq of Exposure (FE)	Degree of Possible Harm (DPH)	No. Persons Exposed (NP)	Mechanical Hazard Rating	Risk Level	S	F	P	Ca	PLc
F-1		None Identified															P1
F-2																	P1
F-3																	P2

NOTES

Description of recommended Control Measures



Pic 1

Pic 2

Pic 3

Pic 4

Pic 5

Pic 6

Client:	Omnist
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)



G. HIGH PRESSURE
Can persons come into contact with High Pressure from:

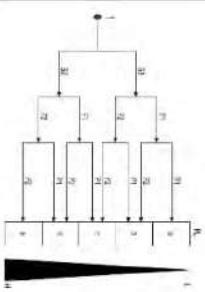
ITEM #	PICTURE REF #	Possible Hazard	Exists Y/N	Comments / Task	Recommended Control Measures	Existing /
G-1		None Identified				Likelihood of Occurrence (LO)
G-2						Freq of Exposure (FE)
G-3						Degree of Possible Harm (DPH)

HRN	Risk
0.5	Negligible
6-50	Low significant
51-500	High
> 500	Unacceptable

Assess Risk With No Safeguards To Determine Category Rating Required
(determination of RL requirements)

HRN = LO x FE x DPH x NHR
No safeguards

NOTES	
Description of recommended Control Measures	



Pic 1

Pic 2

Pic 3

Pic 4

Pic 5

Pic 6

EDC electrical design & construction																		
Client:		Oznist																
Location:		EDC Workshop																
Equipment Loc:		Transportable																
Equipment Detail:		Misting Fan (Application Dust Suppression)																
Asset Number:		N/A																
H. ELECTRICAL Can anyone be injured by electrical shock or burn due to: <div style="background-color: #ADD8E6; width: 100%; height: 100px; margin-top: 10px;"></div>																		
Assess Risk With No Safeguards To Determine Category Rating Required																		
ITEM #	PICTURE REF #	Possible Hazard	Exists Y/N	Comments / Task	Existing / Recommended Control Measures		Likelihood of Occurrence (Lo)	Freq of Exposure (FE)	Degree of Possible Harm (DPH)	No. Persons Exposed (NP)	Mechanical Guarding Rating Yes/No	Risk level	S	F	P	Cat	PLR	
H-1		None Identified															P2	
H-2																	P1	
H-3																	P2	
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Client:	Ozmet
Location:	EDC Workshop
Equipment Loc:	Transportable
Equipment Detail:	Misting Fan (Application Dust Suppression)
Asset Number:	N/A



I. EXPLOSION
Can anyone be injured by explosion of:

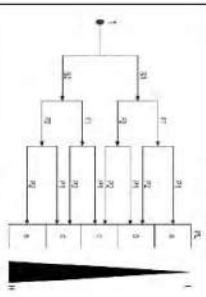
HRN = LO x FE x DPH x NF
HRN = Likelihood x Risk

Assess Risk With No Safeguards To Determine Category Rating Required
No safeguards
(determination of PL_r requirements)

ITEM #	PICTURE REF #	Possible Hazard	Exists Y/N	Comments / Task	Recommended Control Measures	Likelihood of Occurrence (LO)	Freq. of Exposure (FE)	Degree of Possible Harm (DPH)	No. Persons Exposed (NP)	Mechanical Guarding Rating Number	Hazard Rating Number	Risk Level	S	F	P	Cat	PL _r
I-1		None Identified															P2
I-2																	P1
I-3																	P2

NOTES

Description of recommended Control Measures



Pic 1

Pic 2

Pic 3

Pic 4

Pic 5

Pic 6