MOBILE ENERGY AUSTRALIA
Specialists in vehicle mounted compressor & generator systems

SMARTPACK 40H
Owners & Operators Manual

SERVICE MAINTENANCE AIR COMPRESSOR – HYDRAULIC DRIVEN

Revision: 3
Reviewed: 10/01/2023

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Mobile Energy Australia Pty Ltd 39 Dulacca Street, Acacia Ridge QLD 4110 Australia ABN 98 674 578 946
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MEA Product Registration Form

THE ATTACHED FORM MUST BE COMPLETED AND RETURNED WITHIN 30 DAYS OF INSTALLATION OR WARRANTY WILL BE VOID

ALTERNATIVELY, PLEASE GO ONLINE AND COMPLETE WARRANTY FORM

www.mobileenergyaustralia.com.au/warranty-registration

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MEA Product Warranty Registration Form

This form must be completed and returned to MEA at the time of Installation. Warranty will be void if this form is not received by MEA within 30 days of installation.

MEA Dealer Information

Company Name: _____

City: _____ State: _____ Country: _____

MEA Installer Information

Company Name: _____

City: _____ State: _____ Country: _____

Installation Date: _____ / _____ / _____
Day Month Year

Owner Information

Company Name: _____

Address: _____

City: _____ State: _____ Country: _____

Postcode: _____ Phone #: _____

Product Information

MEA Serial Number: _____

Model Number: _____

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1. COMPRESSOR/COMPRESSED AIR SAFETY

MEA DISCLAIMS ALL LIABILITIES FOR DAMAGE OR LOSS OF EQUIPMENT AND PROPERTY, PERSONAL INJURIES (INCLUDING DEATH), AND CONSEQUENTIAL DAMAGES ARISING OUT OF ANY MEA SYSTEM NOT USED IN ACCORDANCE WITH THE OPERATOR'S MANUAL.

ALL UNITS ARE SHIPPED WITH A DETAILED OPERATOR'S MANUAL. THIS MANUAL CONTAINS VITAL INFORMATION FOR THE SAFE USE AND EFFICIENT OPERATION OF THE UNIT. READ THE OPERATOR'S MANUAL BEFORE STARTING THE UNIT. FAILURE TO ADHERE TO THE INSTRUCTIONS COULD RESULT IN SERIOUS BODILY HARM OR PROPERTY DAMAGE.

Care is required when working with an air compressor or compressed air. Compressed air is one of the many ways energy can be stored. Releasing the stored energy in an uncontrolled manner can result in catastrophic consequences. Death and permanent disability are possibilities that can occur due to misuse. The following are suggested as minimum precautions to be used when operating the SMARTPACK Air Compressor. It is important that each work site shall perform a risk analysis and produce a procedure to eliminate or control the hazardous condition to minimise the risk to personnel and equipment. Health and Safety Regulations necessitate that this is a compulsory process to be carried out on each site. These, together with site specific safety procedures will help to minimize the risk of accidents, personnel injury and loss of life. It is the responsibility of the employer to ensure that the work site is safe for all employees and that the safety procedures are followed by all employees.

SAFETY WHEN OPERATING AN AIR COMPRESSOR

- Do not bypass or disable the oil temperature and pressure sensors – unless planning on running to failure (MEA does not recommend the practice).
- Do not expose the tank or compressor to extreme heat.
- Do not perform any service or repairs until the system has been completely relieved of air pressure.
- Maintenance and repairs on the system should only be done by qualified personnel.
- Do not operate the compressor while driving (vehicle mounted systems).
- Do not tamper with the pressure relief valve.
- Follow safe work practice, wear the appropriate personal protective equipment (PPE) when operating air-powered equipment, particularly eye and hearing protection.
- Avoid contact with rotating components, ensure all safety guards are in place.
- Avoid all contact with pressurized air. If it penetrates the skin, it can enter blood stream and cause death.
- Vaporized oil propelled by high pressure is an explosive mixture. To prevent compressor explosion or fire, make sure that the air entering the compressor is free of flammable vapors.
- Do not breathe the compressor air, vaporized oil is a respiratory hazard.
- Stay clear of all moving parts when the system is operating.
- Follow safety procedures for service operations as set by the authority.
- Run the system at idle speed and under no load conditions for 2 to 3 minutes before turning the system off to allow system cooling and lubrication to occur.

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HYDRAULIC SAFETY

ALL HYDRAULIC EQUIPMENT MUST BE TREATED WITH EXTREME RESPECT AND CARE. AS THE WORKING FLUID IS UNDER EXTREME PRESSURE, UP TO 5000PSI, WITH HIGH FLOW RATES GENERATING HIGH HEAT, ALL APPROPRIATE SAFETY PRECAUTIONS MUST BE TAKEN IN TO ACCOUNT AND SAFETY EQUIPMENT MUST BE WORN IF IN CONTACT WITH THE EQUIPMENT UNDER OPERATION. ALL LEAKS, NO MATTER HOW MINOR, MUST BE RECTIFIED IMMEDIATELY AND ANY WEAR IN THE HOSES MUST BE ADDRESSED AND EQUIPMENT REPLACED. HYDRAULIC INJECTION IS DANGEROUS AND LIFE THREATENING AND EVEN A PINHOLE LEAK WILL BLANKET AN ENTIRE ENCLOSED SPACE VERY QUICKLY WITH HAZARDOUS VAPORIZED HYDRAULIC OIL MIST.

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2. SPECIFICATIONS

Compressor Model:	NK31
Compressor Type:	Oil flooded rotary screw compressor
Hydraulic Motor Type:	11cc Gear Motor
Control:	24V/12V Electronic Control
Maximum Air Delivery:	40cfm @ 130psi, 1133 LPM @10 Bar
Oil Flow requirements:	44 LPM
Oil Pressure (Nominal):	128 Bar
Drive coupling speed:	4000 rpm
Pressure Regulation:	Mechanical Inlet control valve modulates flow in response to demand
Safety Features:	200 PSI relief valve in compressor sump Temperature safety sensor in compressor Rapid blow-down valve to discharge system pressure on shutdown
Lubrication:	MEA Certified and Approved Oil
Filters:	Paper-type replaceable air filter Spin-on type oil filter Coalescing separator element

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3. OPERATING PROCEDURE

WARNING

CAREFULLY READ THE OPERATING INSTRUCTIONS BELOW. FAILURE TO ADHERE TO THE FOLLOWING COMPRESSOR OPERATING INSTRUCTION COULD RESULT IN SERIOUS INJURY.

1. Check Oil Level.
2. Check Hoses and fittings for leaks. Make sure the hoses are not loosened nor damaged.
3. Check and make sure hydraulic supply/return/ (drain optional) are installed correctly.
4. Check Air Filter for Blockage.
5. Check the Safety circuit switch operation (Reset Switch).
6. Switch on the vehicle and activate the vehicle flow control (turn PTO on; for vehicle mounted system). In other systems, start the hydraulic system by starting the hydraulic pump.
7. Turn on the compressor either at the control box (or in the cab) and ensure it is in the unloaded state (check load/unload switch).
8. Turn on the unload/load switch to load and see if the compressor builds pressure to the regulated setting.
9. Plug an air tool into the air outlet and operate. Ensure that the compressor works as required.
10. When the work is finished, switch the compressor to unload.
11. It is good practice to allow the compressor to run under no load for 2-3 minutes.
12. Switch off at either the control box or in Cab and switch off the vehicle.
13. It is good practice to check for any visible signs of hydraulic fluid leakage and or compressor fluid leakage after each use.

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4. INSTALLATION

The SMARTPACK 40H is designed as an integrated compressor system for connection to an existing hydraulic system. The SMARTPACK 40H only requires connection of a pressure line in and a return line out (optional: a motor drain line) connections to the tank line and a method for controlling flow such as solenoid valve and flow orifice.

WARNING(!) When setting the compressor unit up, ensure there is a safety mechanism in place to prevent any excessive flow or pressure into the compressor hydraulic circuit. MEA will not warrant any damage caused and will void warranty due to inadequate safety protection of the existing hydraulic system.

IMPORTANT: COMPRESSOR MUST ROTATE IN THE COUNTER-CLOCKWISE DIRECTION WHEN LOOKING AT THE COMPRESSOR SHAFT END.

1. Install SMARTPACK 40H into position on the vehicle using 6 x M12 x 1.75 Grade 8.8 Fasteners and rubber isolators between the vehicle and compressor. Rubber isolator can be supplied if required (MEA P/N 7251-P0032).

2. Install the hydraulic lines including any flow control (such as unloader valve), i.e., Pressure in, Tank out.

3. Connect the electrical harness to the vehicle.
    a. If purchasing the electrical control box; be sure to place an in-line weatherproof fuse (30A – 12V and 15A – 24V) within 300mm of the vehicle battery.
    b. If purchasing the basic electrical control (Murphy) ensure the voltage supplied is compatible with your vehicle's voltage rating.

4. Connect the pressure gauge line from the control box to the compressor (black nylon tubing). Ensure when you connect that the tube is inserted correctly.

5. Check the level of oil in the compressor. Fill if required to the level indicated.

6. Start the vehicle and turn on PTO to start hydraulic pump.

7. Turn on the compressor either at the control box or in cab and test the hydraulic solenoid for operation.

8. Turn the unload/load switch to load and check the compressor builds pressure to the regulated pressure setting.

9. Plug an air tool into the air outlet and operate, checking that the compressor works as required, run for 10mins. Whilst it is running check for oil leaks and air leaks in any of the hosing and nylon tubing.

10. Unload the compressor, switch off the control box, switch off the vehicle and check for any visible signs of hydraulic fluid leakage. When cool (safe to touch), and switched off, re-check compressor oil level

ENSURE THAT A WATER SEPARATOR IS MOUNTED AS FAR FROM THE COMPRESSOR AS POSSIBLE OR THAT IT HAS AT LEAST TWO METRES OF HOSING BETWEEN THE COMPRESSOR DISCHARGE AND SEPARATOR INLET.

IMPORTANT: PLEASE CONTACT MOBILE ENERGY AUSTRALIA FOR MORE INFORMATION IF YOU HAVE ANY QUESTIONS REGARDING THE SETUP AND OPERATION OF PRODUCTS.

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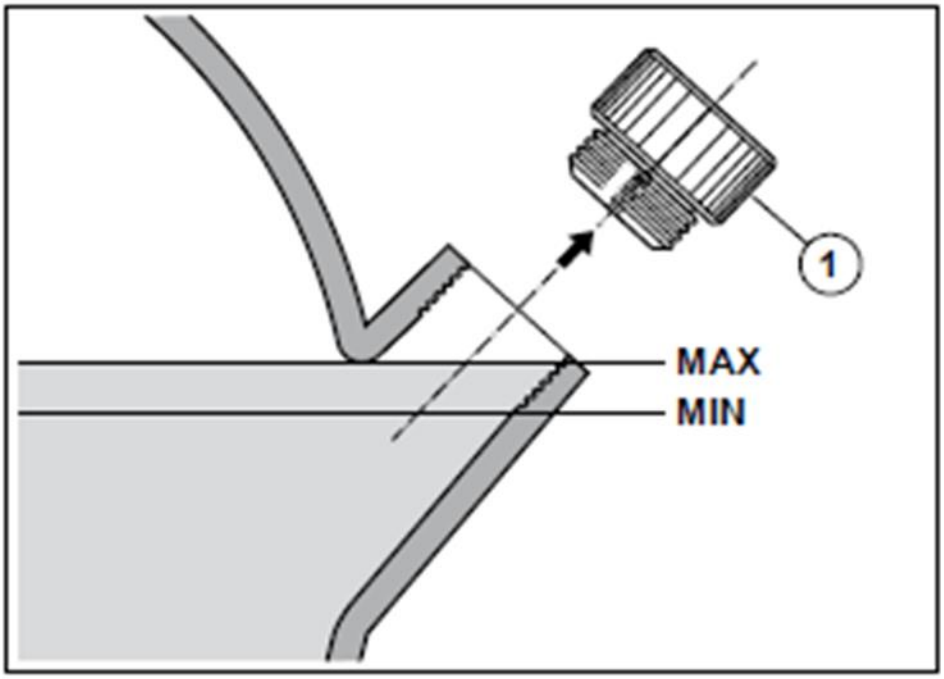
5. SCHEDULE MAINTENANCE

The maintenance intervals recommended are based on standard operating conditions. The intervals for inspection, lubrication and maintenance given herein are maximum intervals and it should be noted to schedule the maintenance accordingly to sites.

When the unit is being operated in a dusty environment, in high ambient temperatures or in other unusual conditions, an assessment needs to be done for shorter service interval.
A planned program of periodic inspection and maintenance will help to avoid premature failure and costly repairs. Daily visual inspections should become routine.

MAINTENANCE INTERVALS	MAINTENANCE WORK
BEFORE COMMISSIONING	**CHECK OIL LEVEL IN SEPARATOR TANK**
ONCE AFTER 50 HOURS	**CHECK OIL LEVEL IN SEPARATOR TANK** **TIGHTEN ALL SCREW PIPE FITTINGS AND ELECTRICAL SCREW TERMINALS** **CHECK ALL OTHER CONNECTIONS FOR FIRM**
EVERY 400 HOURS OR 6 MONTHS	**REPLACE OIL AND OIL FILTER** **CHECK AND CLEAN AIR FILTER ELEMENT**
EVERY 1000 HOURS OR 1 YEAR	**REPLACE OIL AND OIL FILTER ELEMENT** **REPLACE COALESCING FILTER ELEMENT** **REPLACE AIR FILTER ELEMENT** **CHECK SYSTEM FOR LEAKS**



How to Check Oil Level

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6. SPARE PARTS

PLEASE CONTACT MEA SALES-SPARE PARTS FOR FURTHER INFORMATION ON ANY MAINTENANCE PARTS REQUIRED.

Part Number	Description
10008-P0019	AIR FILTER ELEMENT
10008-P0021	SPIN ON COALESCER
10008-P0016	OIL FILTER
10019-K0005	5 LITRE SEMI SYNTHETIC COMPRESSOR OIL
10012-P0084	UNLOADER VALVE 24V
10012-P0083	UNLOADER VALVE 12V
20012-P0004	RELAY 12V
20012-P0005	RELAY 24V
TO BE REQUESTED	COUPLING SET
TO BE REQUESTED	COUPLING (SPIDER)
TO BE REQUESTED	SHAFT SEAL

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7. TROUBLESHOOTING

Fault	Possible cause	Remedy
Incorrect direction of rotation	Phases reversed	Reconnect 2 supply lines
System does not start	No electricity	Check
	Combistat switches off due to excessively high temperature	Check oil level, cooling, thermo-bypass
System difficult to start	Motor output insufficient	Check
	Drive gear ratio „too fast“	Check
	Star-delta switchover incorrect	Set
	Compressor is flooded with oil	Check
	System has not been discharged yet	Check
	Oil filling too viscous	Check viscosity
Differential pressure	Pressure in separator cartridge too high with clogged or full separator cartridge	Replace separator cartridge
Combistat switches off due to excessively high temperature	Oil shortage	Check oil level in oil reservoir and top up if necessary
	Oil filter soiled	Replace oil filter cartridge
	Thermostat defective	Replace thermostat
	Oil cooler soiled	Clean oil cooler on air side, clean on oil side if necessary
	Incorrect installation a) Room ventilation b) Exhaust air blocked c) Thermal short circuit	Observe recommendation on installing system
	Combistat faulty or incorrectly adjusted	Adjust combistat or replace
	Fan has failed	Check

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Fault	Possible cause	Remedy
Safety valve blows off	Safety valve defective	Replace safety valve
	Fine separator cartridge soiled	Replace cartridge
	System does not relieve Continuous operation	
	System does not switch off automatically (drop-out mode)	
Oil in compressed air	Oil extraction line with nozzle in oil sight glass soiled	Clean oil extraction system
	Fine separator cartridge defective	Check cartridge and replace if necessary
	Oil level in oil reservoir too high; possibly excessive condensate	Observe oil level marking; drain and replace if necessary
System is not discharged during continuous operation, system does not switch off automatically in case of intermittent operation, i.e. safety valve blows off	Upper switching point of network pressure monitor set too high	Readjust network pressure monitor
	Solenoid valve defective Relief valve defective	Replace solenoid valve/ relief valve
	Minimum pressure valve jammed	Check minimum pressure valve for smooth movement; ensure smooth movement if necessary
System continually discharges, low feed quantity	Solenoid valve defective Relief valve defective	Replace solenoid valve/ relief valve
	Break in electric supply line to solenoid valve	Eliminate break
No or insufficient feed quantity	Intake filter soiled	Replace filter insert
	Oil shortage	Check oil level and top up if necessary
	Intake control valve does not open	Check control valve
	Leaks in system	Check, seal off

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Fault	Possible cause	Remedy
Control valve does not close	Pressure switch, or control valve	Check setting
Oil exits through intake control valve during stopr	Sealing surface on intake control valve damaged, spring in intake control valve broken	Check parts and replace if necessary
System does not relieve	Solenoid valve/electrical system	Check
	Impulse-pressure relief valve	Check and replace parts if necessary
Control valve constantly discharges	Solenoid valve/electrical system	Check
Oil escapes during discharging (oil foam in fine separator cartridge)	Oil type incorrect	Oil change
	Oil foam forms during stop	Install discharge delay valve, replace with different nozzle diameter
	Oil level too high	Drain off oil

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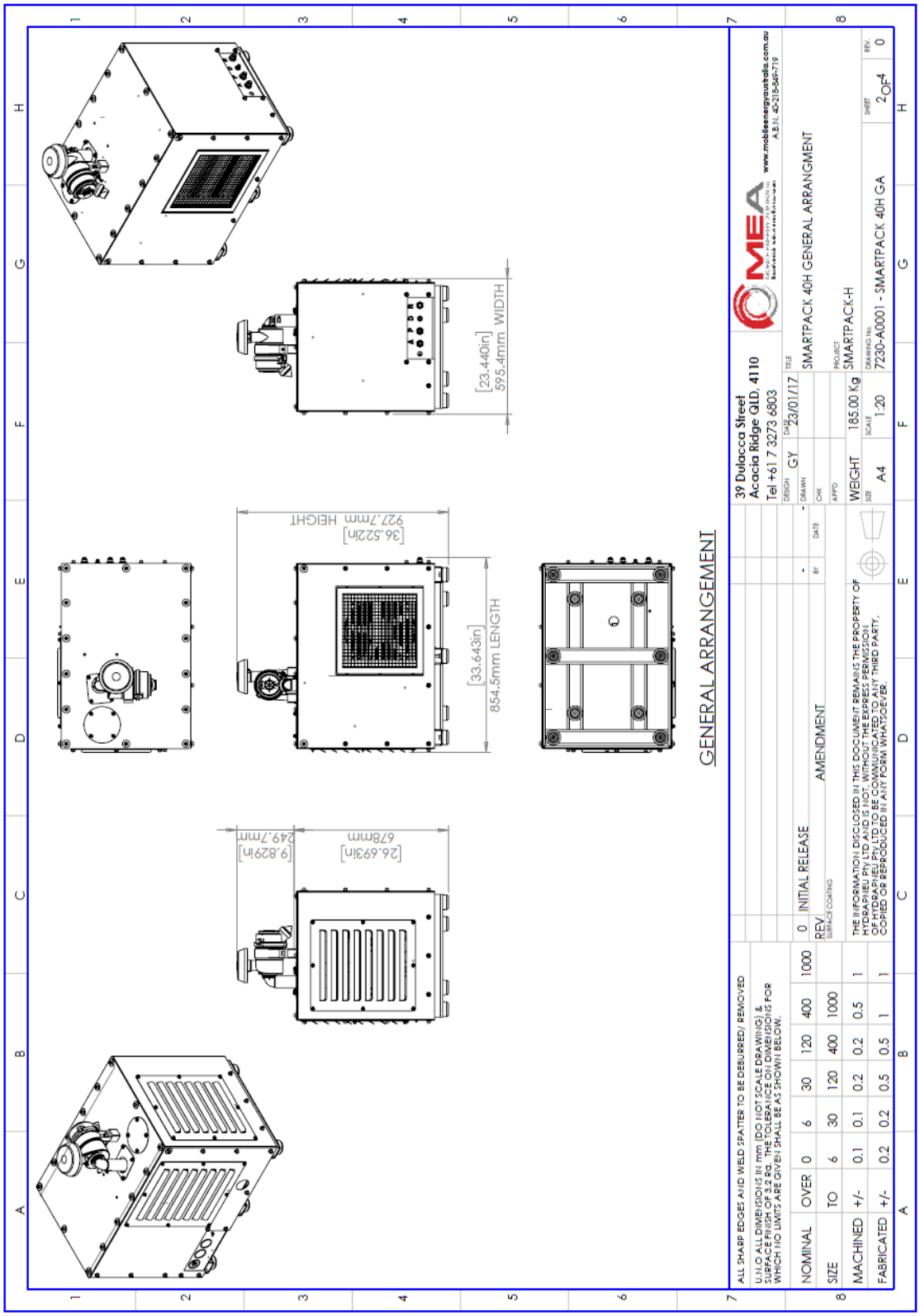
8. DRAWINGS & ILLUSTRATIONS

GENERAL ARRANGEMENT DRAWING (FRAMED)



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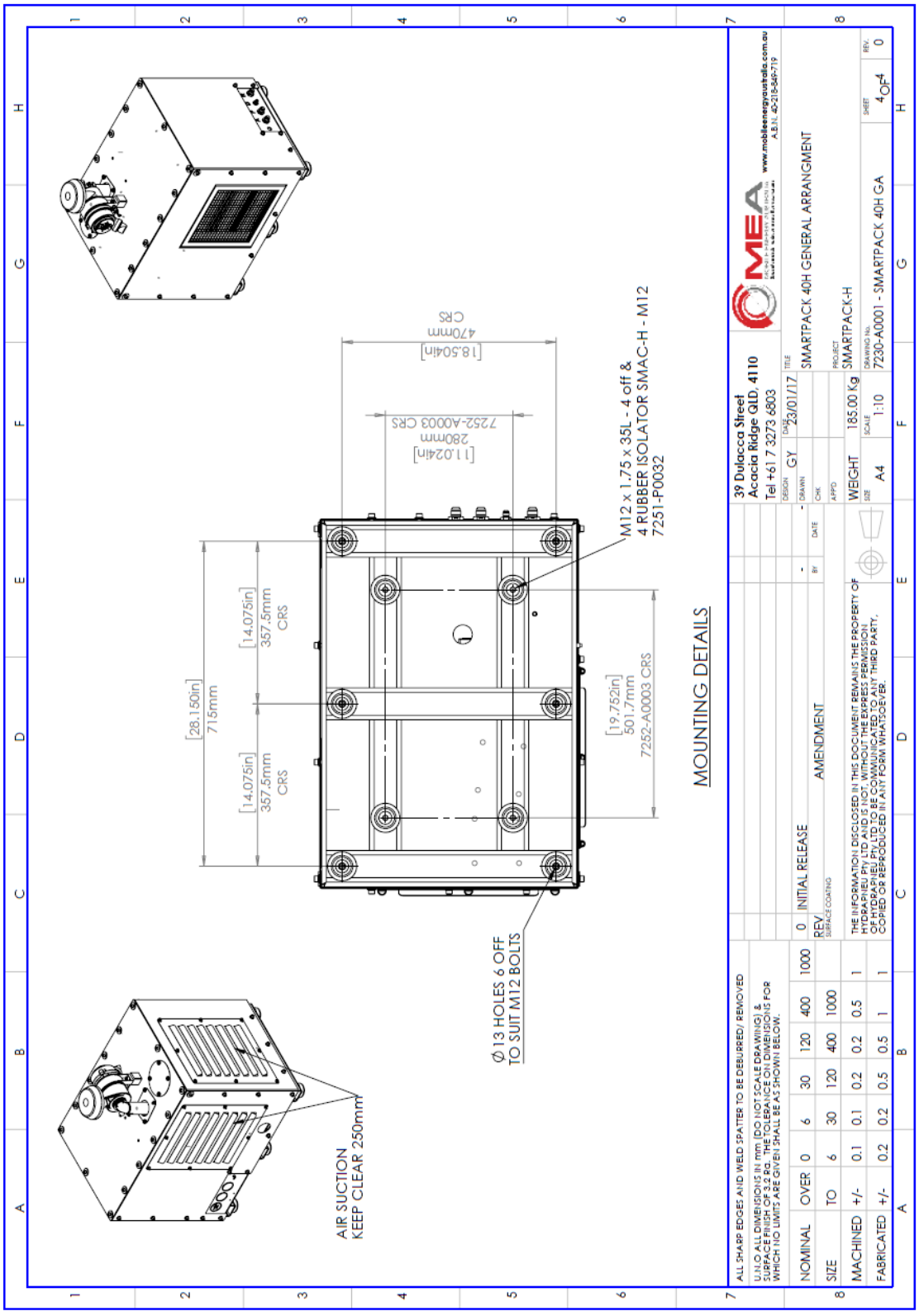

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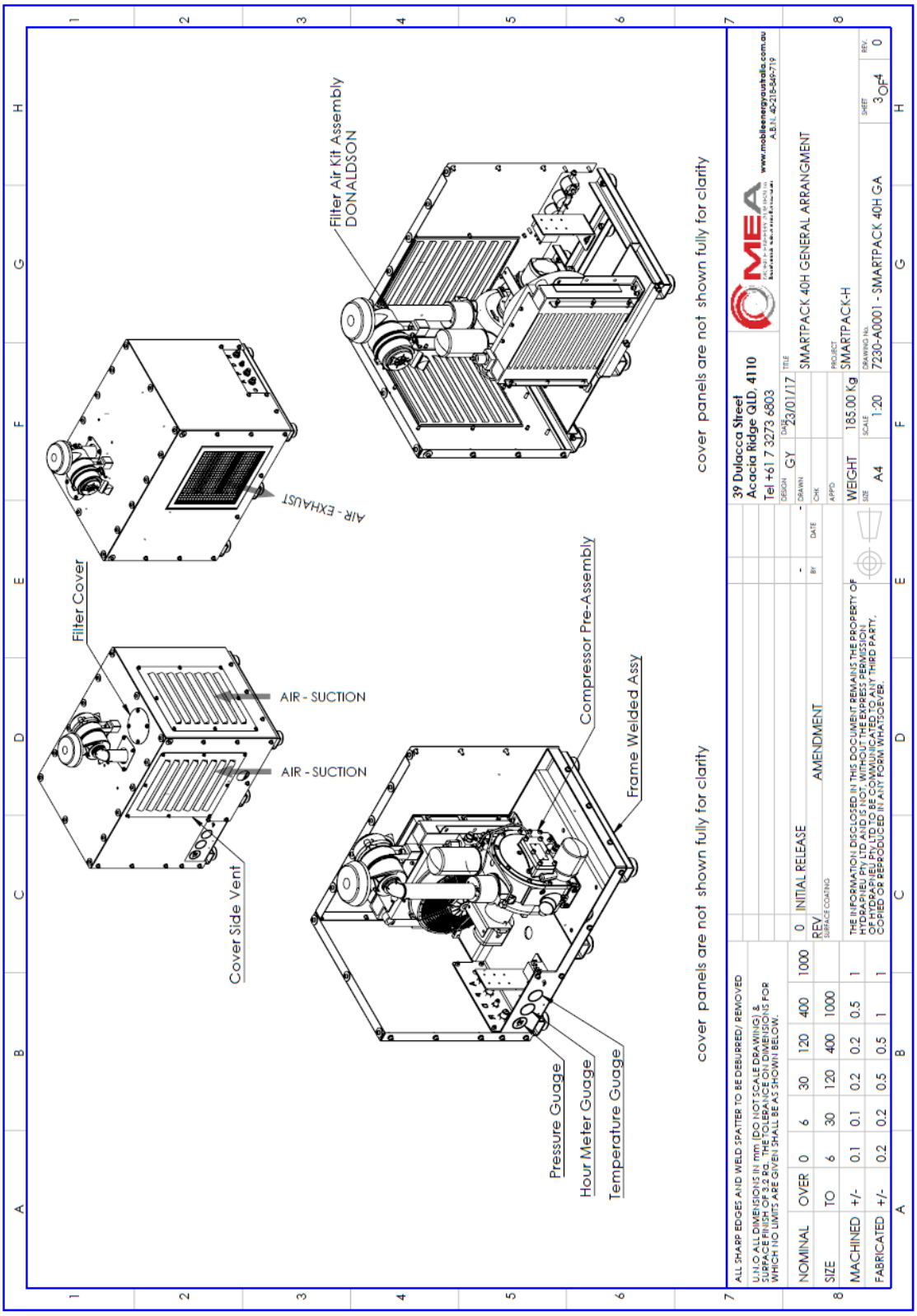

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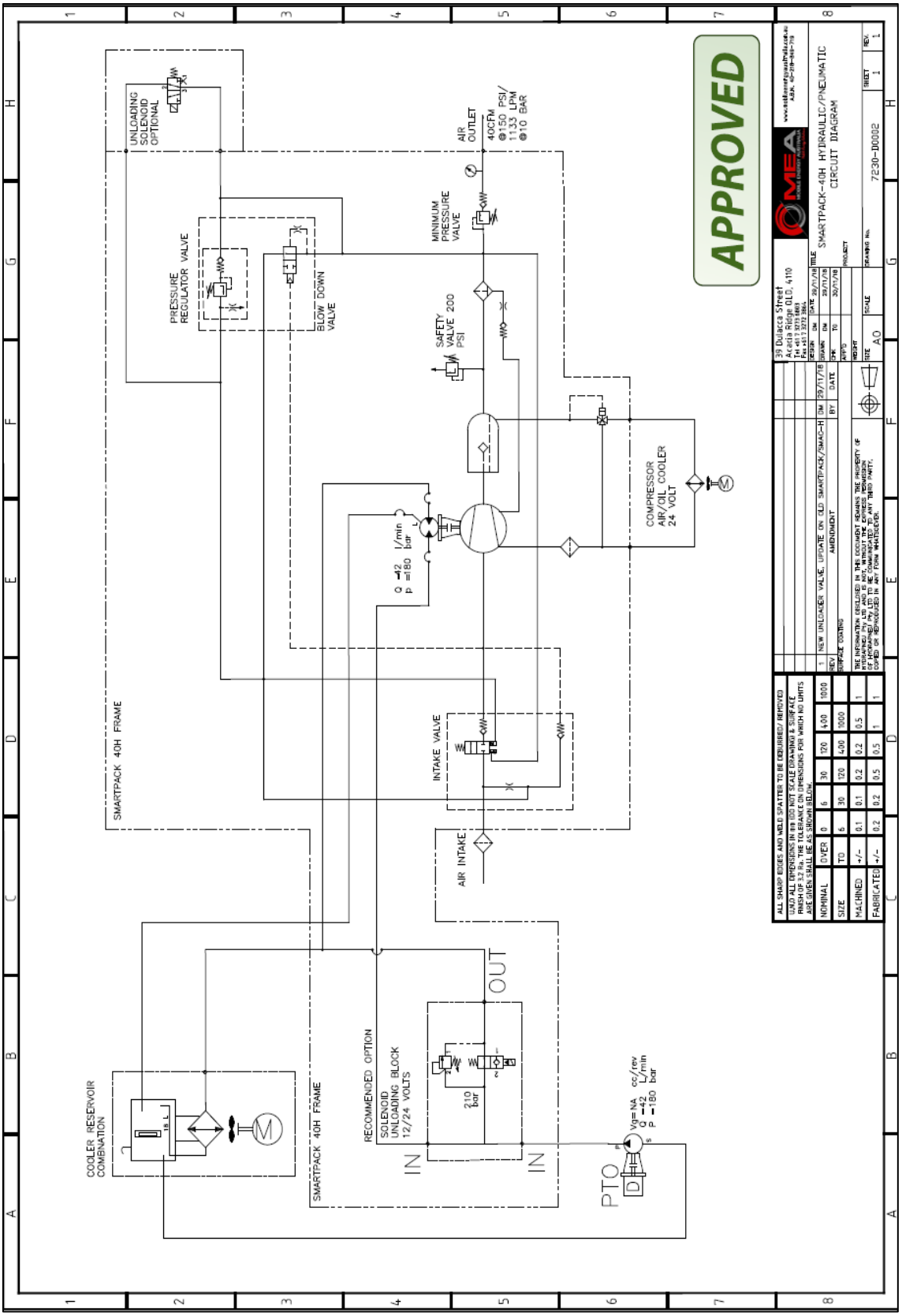
HYDRAULIC/PNEUMATIC CIRCUIT DIAGRAM OPEN CENTRE



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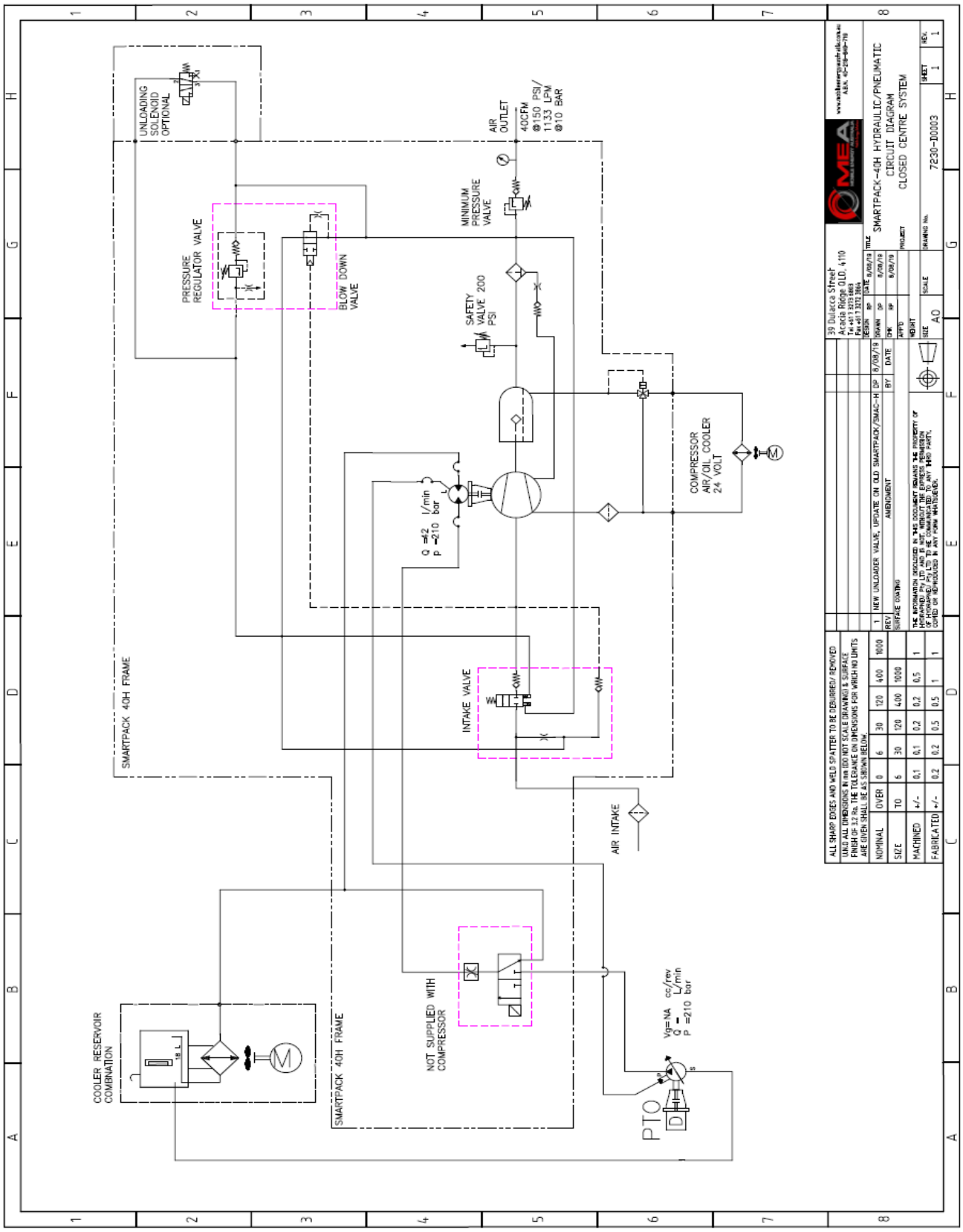
HYDRAULIC/PNEUMATIC CIRCUIT DIAGRAM CLOSED CENTRE



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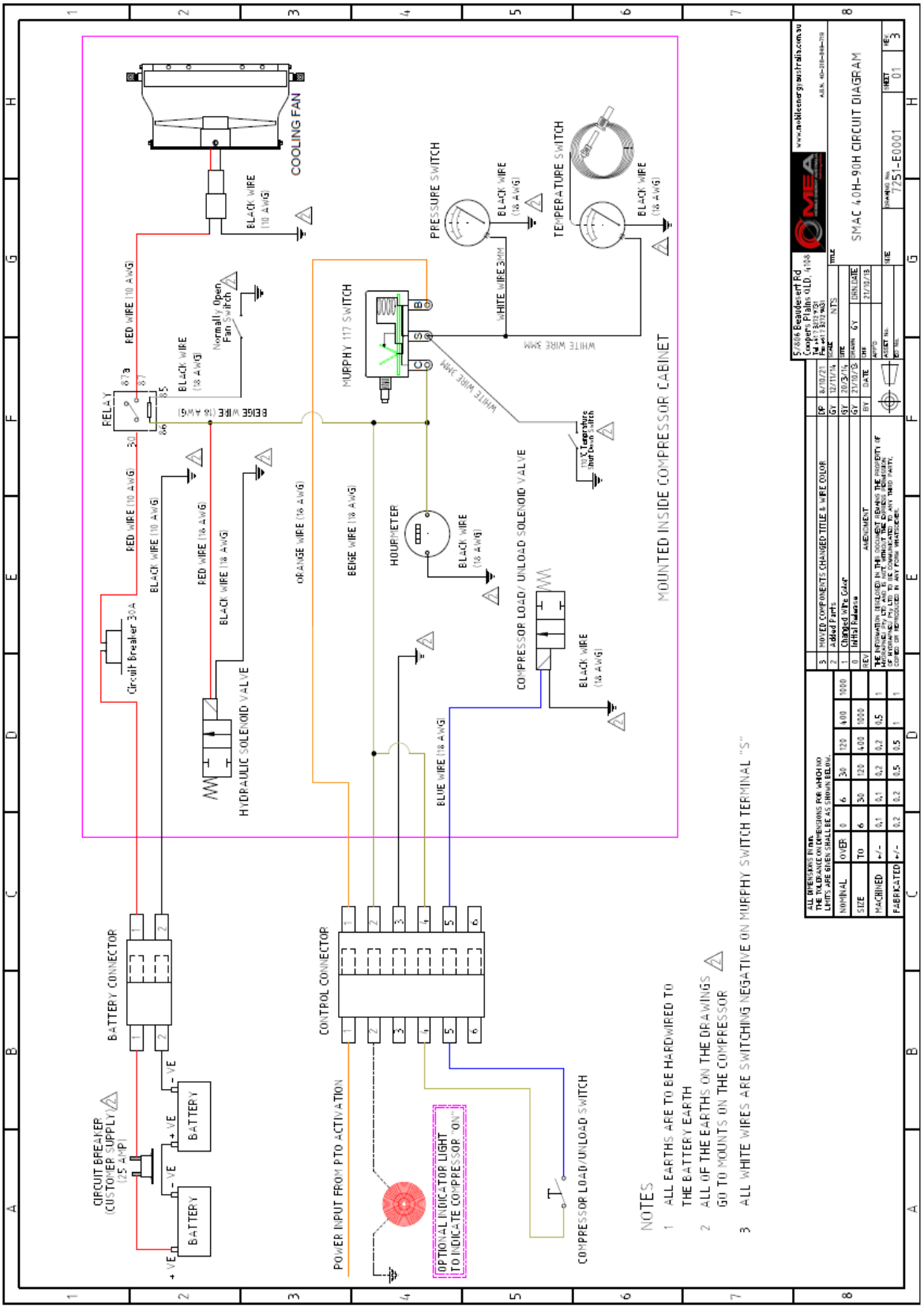
ELECTRICAL DIAGRAM FRAMED MURPHY



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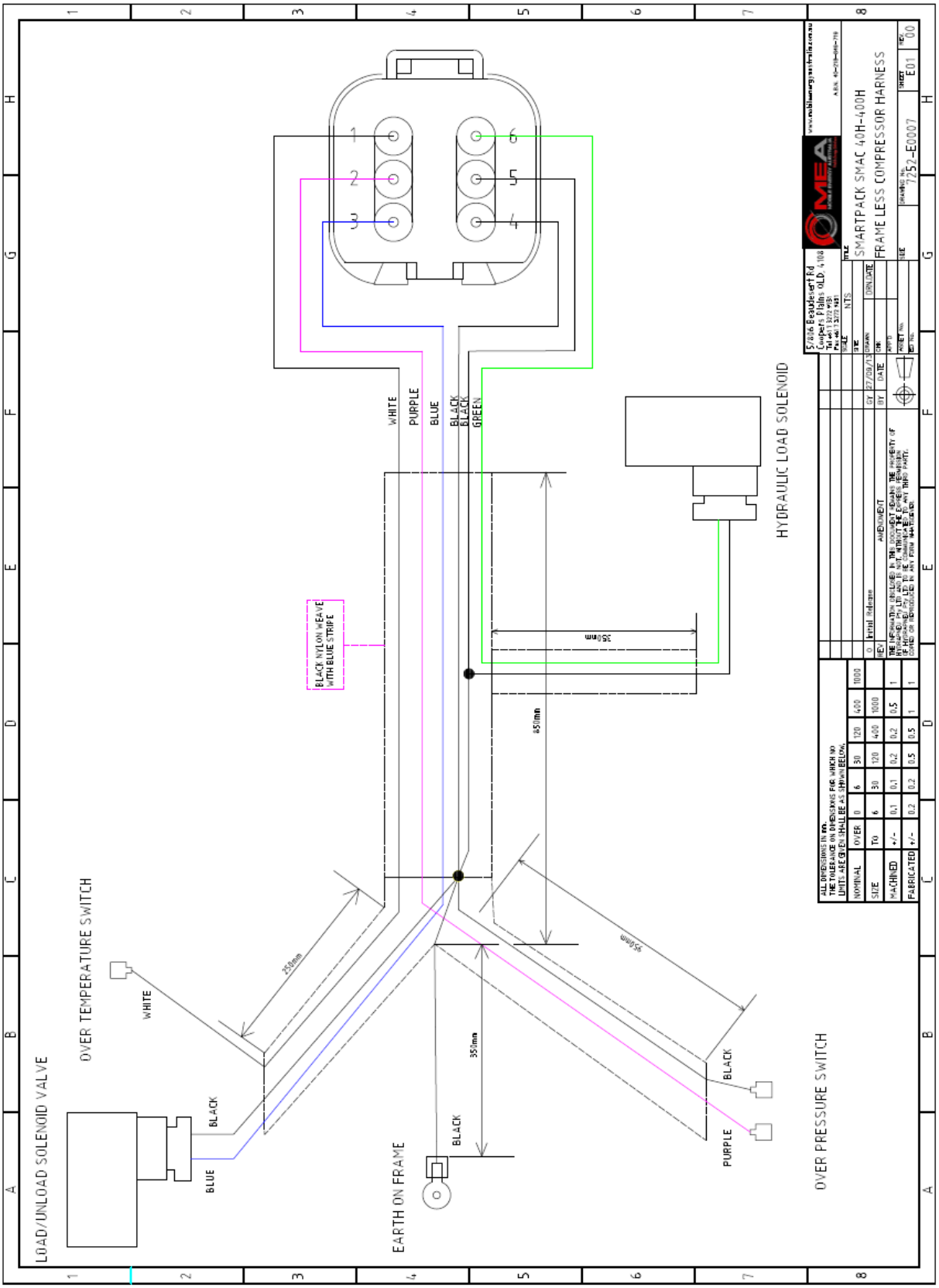
ELECTRICAL DIAGRAM (ELECTRONIC COMPRESSOR HARNESS)



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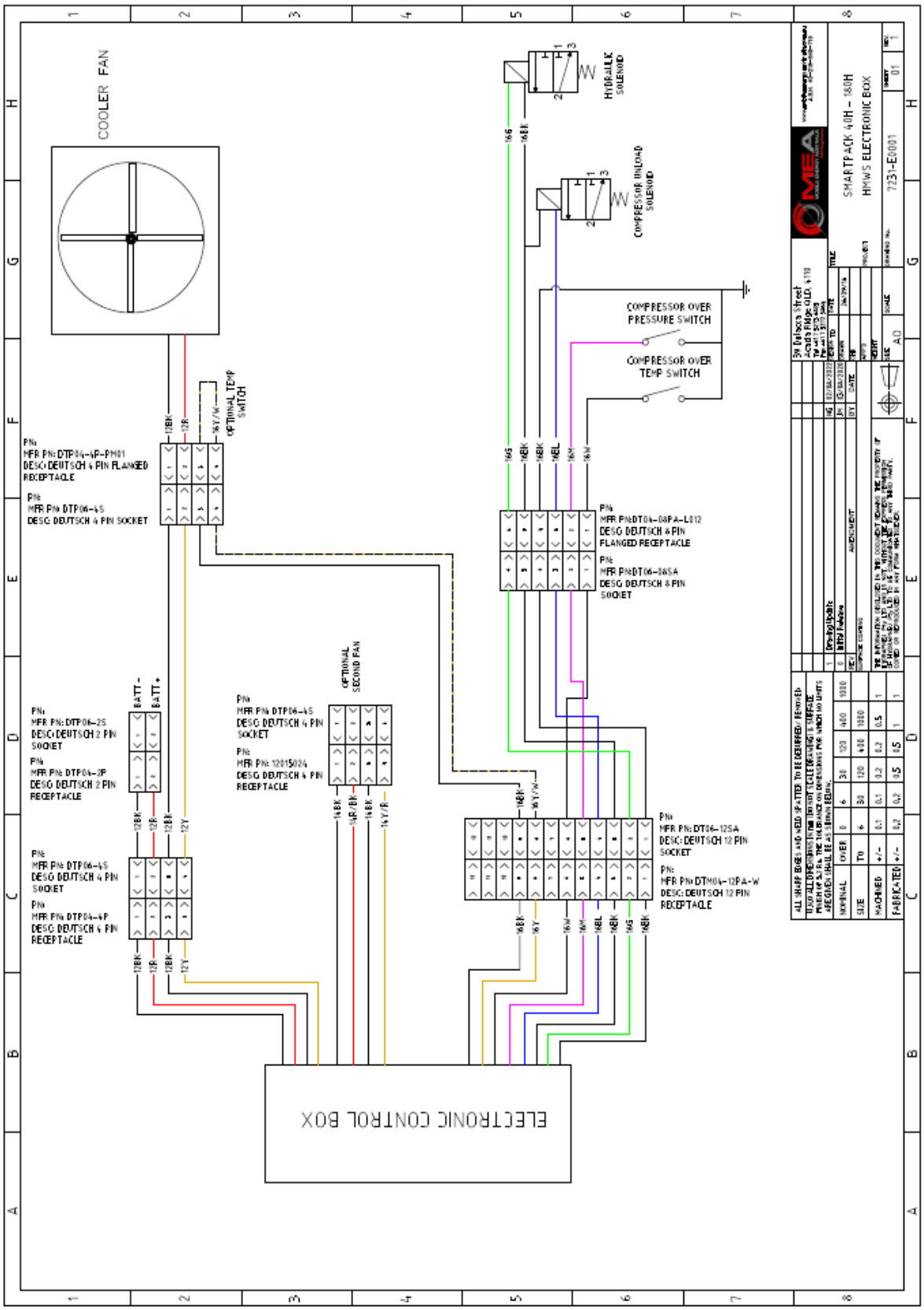
REMOTE ELECTRONIC CONTROL WIRING



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9. WARRANTY

1 GENERAL PROVISIONS AND LIMITATIONS

1.1 Mobile Energy Australia (hereafter “MEA”) warrants to each original retail purchaser (hereafter “Buyer”) that such product(s) are, at the time of delivery to the buyer, free of manufacture ring defects in material and workmanship.

2 NO WARRANTY IS MADE WITH RESPECT TO

2.1 Any product(s) which in the judgment of MEA has been subject to negligence, accident, improper storage, improper installation, improper application, improper operation, or maintenance or has been repaired or altered by others without the written authority of MEA.

2.2 Components or accessories manufactured, warranted, and serviced by others.

2.3 Damages caused by the lack of normal maintenance, service, and repairs such as the replacement and service of filters and seals.

2.4 Damages caused by the lack of normal minimum action, such as adjustments and inspections, replacement of items, such as service filters, seals, and service kits.

2.5 Consequential damages caused by product(s) failure.

2.6 Any product(s) if other than MEA’s genuine components are used in the product(s).

2.7 Normal wear and tear of product(s).

3 WARRANTY PERIOD

3.1 The warranty period will commence upon installation of the product(s). The returned registration form marks the date of installation. If the registration form is not received, the warranty period will be deemed to commence 30 days from date of shipment from MEA.

3.2 The Product(s) is warranted against manufacturer defects in materials and workmanship for a period of 12 months.

3.3 The compressor air end is warranted to be free from defects in material and workmanship for a period of two (2) years from the date of installation.

3.4 Components supplied under warranty shall be warranted for the remainder of the original warranty period.

3.5 MEA factory rebuilt components shall be warranted for a period of 6 months from date of shipment.

4 MEA OBLIGATIONS

4.1 The obligation of MEA is limited to repairing or replacing parts, during normal business hours, at an authorized service facility, any component, that in the judgment of MEA are defective.

4.2 The obligation of MEA is limited to replacement of faulty parts. No liability is accepted for any freight costs, consequential damages, injuries, or expenses directly or indirectly related to the Product(s) failure.

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5 BUYER OBLIGATIONS

5.1 Buyer shall notify MEA of the alleged defect within 10 days of initial discovery and return the allegedly defective component(s) within 30 days of initial discovery.

5.2 The Buyer must prepay all costs associated with the warranty.

5.3 The Buyer must return components claimed under this warranty to a facility designated by MEA for evaluation, to establish a claim under this warranty.

5.4 Buyer shall maintain and service MEA Product(s) in accordance with the MEA Product(s) Owner's Manual.

6 WARRANTY REGISTRATION VALIDATION

6.1 A registration form is provided to the Buyer with the product(s). The form must be fully completed by the Buyer and returned to MEA upon completion of the installation of the product(s) to validate the warranty. No warranty claims will be processed unless MEA has received a fully completed warranty registration form.

7 DISCLAIMER AND WARRANTY SERVICE

7.1 Any labour costs claimed more than MEA's set rate and/or times are not provided by this warranty. If applicable, any labour costs more than MEA rate schedules caused by, but not limited to, location or inaccessibility of the equipment, travel time or labour provided by unauthorized service personnel are not provided by this warranty.

7.2 This warranty is in lieu of all other warranties or obligations expressed or implied. MEA expressly disclaims all implied warranties of merchantability or fitness for a particular purpose.

7.3 Warranty claims must be pre-authorized by MEA, and the components returned via prepaid freight using the designated "Returned Merchandise Authorization" number and form.

PLEASE NOTE:

MEA Product Registration Form MUST be returned to MEA.

WARNING!!!

Failure to return PRODUCT WARRANTY REGISTRATION FORMS detailed above may result in the delayed processing of warranty claims.

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10. MOBILE ENERGY AUSTRALIA - CONTACTS

Sales

Email: sales@mobileenergyaustralia.com.au

Office: 07 3273 6803

Spare Parts

BH Office: 07 3273 6803

Email: sales@mobileenergyaustralia.com.au

Service

Email: workshop@mobileenergyaustralia.com.au

Office: 07 3273 6803

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11. APPENDIX A – DESIGN REGISTRATION

MEA
MOBILE ENERGY AUSTRALIA
Mobile Energy Solutions

www.mobileenergyaustralia.com.au

TRHC Pty Ltd ATF for the ThoroughClean Trust
ABN 98 674 578 946

11 January 2023

To whom it may concern

Smartpack 40H Design Registration

The Smartpack 40H design has been assessed against the requirements of the Work Health & Safety Act 2011 and Australian Standard 4343:2014. The Smartpack 40H has been found to comply with the requirements of AS4343:2014 Hazard Level E and as such does not require design registration.

Regards

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12. APPENDIX B – FLUIDS & MATERIAL SAFETY DATA SHEETS

FLUID TYPE	DESCRIPTION	PART NUMBER
Compressor Oil	Semi Synthetic Compressor Oil 68	10019-P0002

Please use QR code to link you to relevant MSDS

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