

NOTE: The pump is equipped with a pressure relief valve set to 120 psi (8.3 bar). If system pressure exceeds this limit, fluid will discharge from the rear of the pump through the relief valve.

Chapter 6

MAINTENANCE

6.1. Maintenance Schedule

1. Disconnect the suction and pressure hoses. Drain the fluid from the hoses by depressing the plunger in the center of the quick connect with a blunt object.
2. Fill a container with a mild soapy solution. Cycle the solution through the pump until the discharge fluid is clean.
3. Disconnect the suction and pressure hoses. Drain soapy solution from the hoses.
4. Fill a container with clean water or anti-freeze solution if the ambient temperatures are below freezing. Cycle the liquid through the pump until all the soapy solution is cleaned out.
5. Disconnect the suction and pressure hoses. Drain the fluid from the hoses.

Chapter 7

TROUBLESHOOTING

Problem	Possible Cause	Solution
The pump does not discharge fluid	The flow control knob must be adjusted, the power switch is not turned on, the power source is disconnected, inlet/outlet connections are not attached, inlet filter is not placed in a fluid.	Ensure the flow control knob is rotated clockwise, the power switch is turned on, the power cord is plugged into a live source, the inlet/outlet fittings are fully inserted, and the inlet filter is submerged in the fluid reservoir.
Pump flow inconsistent	Hose kinked, hose split, inlet filter plugged. Fluid too thick.	Ensure hoses are not split or kinked, and remove/replace the inlet filter. Check fluid viscosity.

7.1. Technical Support

Contact: Jireh Industries Ltd. | 780.922.4534 | jireh.com | 53158 Range Road 224, Ardrossan, AB T8E 2K4

Chapter 8

SPARE PARTS

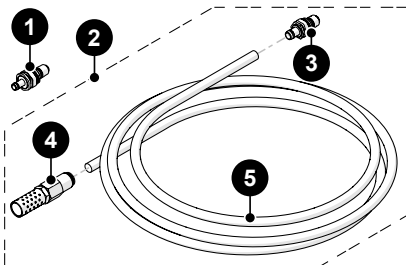


Fig. 6 - Inlet hose spare parts

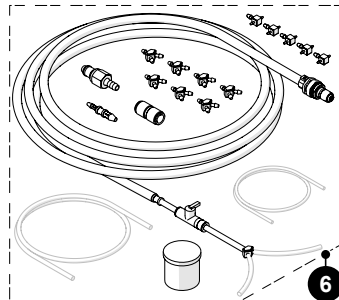
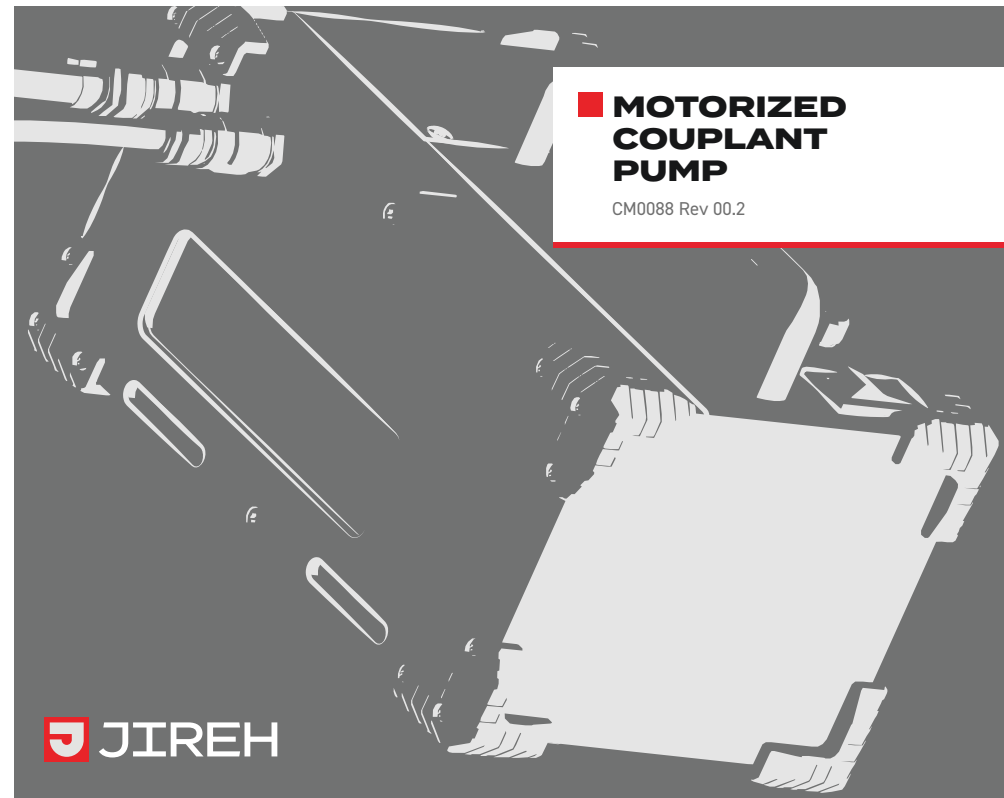


Fig. 7 - 6 mm ID Irrigation Kit

BOM ID	Part #	Description
1	LA165	1/4-in Quick Connect
2	CMS042	Motorized Pump Inlet Tube
3	LA163	3/8-in Quick Connect

BOM ID	Part #	Description
4	CMS044	Inlet Filter
5	LA169	Inlet Hose
6	CMG009- <u> </u>	6 mm ID Irrigation Kit (7/16 in Quick Connect) (Various hose lengths are available.)



Chapter 1

SAFETY WARNINGS / PRECAUTIONS

KEEP THIS MANUAL – DO NOT LOSE
THIS MANUAL IS PART OF THE MOTORIZED COUPLANT PUMP AND MUST BE RETAINED FOR THE LIFE OF THE PRODUCT. PASS ON TO SUBSEQUENT OWNERS.
Ensure any amendments are incorporated with this document.



CAUTION! The MOTORIZED COUPLANT PUMP is designed for a specific use. Using the MOTORIZED COUPLANT PUMP outside of its intended use could cause damage to the product. Read and understand this manual before using.



CAUTION!

- Do not freeze.
- Use proper PPE (*personal protective equipment, i.e. gloves and glasses*).
- Do not connect input to pressurized fluid source.
- Do not pump fluids hotter than 70° C (158° F).



WARNING!

- Use with GFCI (*ground fault circuit interrupter*) power source.
- Do not use in an explosive environment.
- Service by qualified personnel only.
- Do not use in a wet environment.
- Do not use with flammable liquid.



WARNING! DO NOT DISASSEMBLE. No user-serviceable parts. Disassembling any of the components in this product, beyond the instructions in this user manual, could void the regulatory certifications and/or effect the safety of the product.



The **WEEE** symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately.

WEEE Directive: In accordance with European Directive on Waste Electrical and Electronic Equipment (WEEE), this symbol indicated that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to Jireh Industries for return and/or collection systems available in your country.

Chapter 2

COMPLIANCE DECLARATIONS

2.1. ISED Emissions Compliance (Canada)

CAN ICES-003(A) / NMB-003(A)

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

2.2. FCC Suppliers Declaration of Conformity (United States)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RESPONSIBLE PARTY NAME:	Jireh Industries
ADDRESS:	2955 S Sam Houston Pkwy E Suite 300 Houston, Texas United States 77047
TELEPHONE:	832-564-0626

2.3. European Union CE Declarations

Jireh Industries hereby declares that the Motorized Couplant Pump product complies with the essential requirements and other relevant provisions of the following European Union directives:

2014/30/EU	EMC Directive
2014/35/EU	Low Voltage Directive
2012/19/EU	Directive on Waste Electrical and Electronic Equipment
2011/65/EU	Directive on Restriction of Hazardous Substances (RoHS)



2.4. UKCA Declarations

Jireh Industries hereby declares that the Motorized couplant pump product complies with the essential requirements and other relevant provisions of the following UK directives.

Title	Edition/Date of Issue
Electromagnetic Compatibility Regulations	2016
Electrical Equipment (Safety) Regulations	2016
Waste Electrical and Electronic Equipment Regulations	2013
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations	2012



Chapter 3

SPECIFICATIONS

3.1. Intended Use

The motorized couplant pump is intended to deliver non-toxic, non-flammable couplant fluid from a reservoir to compatible scanners for non-destructive testing applications.

3.2. Specifications

Power Input:	-N	100-264 VAC	47-63Hz	1.1-2.2A
	-E	100-264 VAC	47-63Hz	1.1A
	-U	100-264 VAC	47-63Hz	1.1A
Output:	690 kPa (100 psi), 3.8 L/min (1.0 GPM)			
Maximum Fluid Viscosity:	100 cSt			
Part Number:	CMA020			

3.3. Operating Environment

The motorized couplant pump is designed for use in a dry, non-explosive industrial environment between -20°C (-4°F) and 50°C (122°F).

3.4. Dimensions and Weight

A Width:	27.8 cm	10.9 in
B Depth:	20.9 cm	8.2 in
C Height:	18.3 cm	7.2 in
Weight:	7.6 kg	16.8 lb

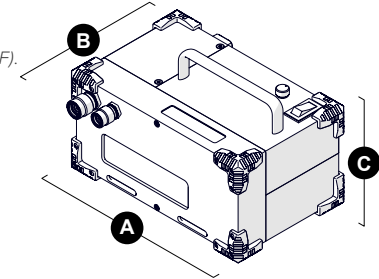


Fig. 1 - Pump dimensions

Chapter 4

PREPARATION FOR USE

4.1. Motorized Couplant Pump Component Identification

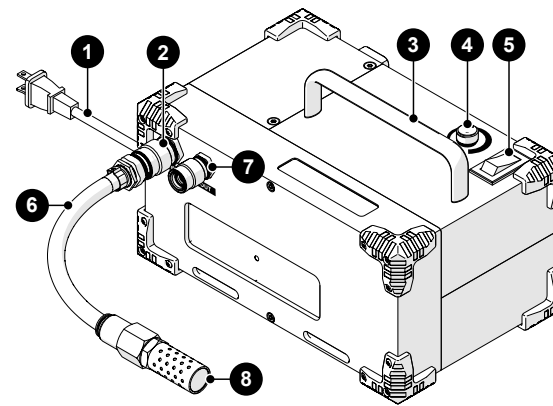


Fig. 2 - Motorized couplant pump component identification

- 1 Power Cord
- 2 Inlet
- 3 Handle
- 4 Flow Control Knob
- 5 Power Switch
- 6 Inlet Hose
- 7 Outlet
- 8 Inlet Filter

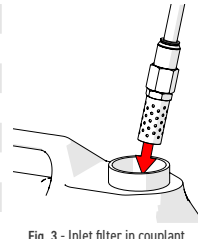


Fig. 3 - Inlet filter in couplant

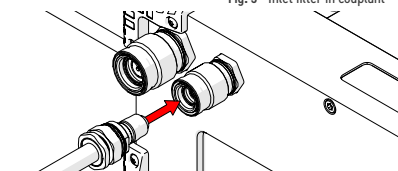


Fig. 4 - Connect irrigation kit to outlet hose

4.2. Pump Setup

1. Ensure the power switch is **OFF** (Fig. 2-5).
2. Place the inlet filter (Fig. 2-8) into a reservoir of non-toxic, non-flammable couplant (Fig. 3). Ensure the opposite end of the inlet hose is connected to the motorized pump's inlet connection (Fig. 2-2).
3. Connect the irrigation kit (sold separately) to the outlet (Fig. 4).
4. Plug the power cord (Fig. 2-1) into a GFCI (ground fault circuit interrupter) protected power source.

Chapter 5

OPERATION

1. Ensure the flow control knob (Fig. 2-4) is rotated counterclockwise to prevent unwanted couplant discharge upon unit activation.
2. Turn the power switch to **ON** (Fig. 2-5).
3. Turn the flow control knob (clockwise) until the desired flow is achieved (Fig. 5).
4. Turn the flow control knob counterclockwise to stop the fluid flow.
5. When the motorized couplant pump use is complete, turn the flow control knob counterclockwise and turn the power switch **OFF**.

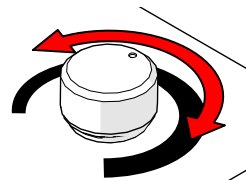


Fig. 5 - Flow control knob