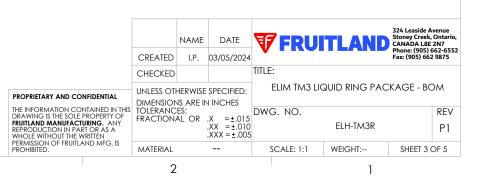


ITEM #	PART #	DESCRIPTION	QTY.		
1	PLA-TM3R	FRUITLAND LIQUID RING PUMP - 3"			
2	ELX-TM3R-01	PEDESTAL FRAME - TM2 & TM3 PUMPS			
3	ELX-TM3R-11	WATER RESERVOIR & FRAME ASSEMBLY			
4	ELX-TM3R-10	\$12 SECONDARY SHUT-OFF - 3" NPTM			
4A	P12LP-3W-3HB	12" PRIMARY LOW PROFILE LID WITH 3" HOSE BARB & 3WN - CAST ALUMINUM			
4B	ELX-TM3R-101	TM3 SECONDARY NECK ASSEMBLY - Ø12", 18" NECK, 3" NPT			
4C	HCI-300-72	HOSE CLAMP - 3"-5"			
4D	\$14-A-12	RUBBER BALL SEAT - FITS OVER 4" PIPE FOR 6" BALL	1		
4E	BC6S-13	6" BALL CAGE - 13" LONG			
4F	S14-A-04	FLOAT BALL - Ø6" - STAINLESS STEEL	1		
4G	WNKIT5	5 PC. WING NUT KIT: WN01, WN02, WN03, WN05, WN06			
5	ELX-TM3R-02	PUMP INLET FLANGE (FROM BUV)	1		
6	ELX-TM3R-03	PUMP OUTLET FLANGE (TO RESERVOIR) - 3" HB			
7	BVA-100-SA	BACK-UP VALVE DN100	1		
8	DVA-04	4-WAY DIVERTER VALVE ASSEMBLY	1		
9	ELX-TM3R-04	FLANGE - DIVERTER VALVE TO SECONDARY	1		
10	ELX-TM3R-06	FLANGE - DIVERTER VALVE TO BUV			
11	ELX-TM3R-05	FLANGE - DIVERTER VALVE TO RESERVOIR	1		
12	ELX-TM3R-12	FLANGE - DIVERTER VALVE TO EXHAUST			
12A	ELX-TM3R-1201	exhaust stack - Ø3'' - Chrome			
13	RF870-65	GASKET - DIVERTER FLANGE	4		
14	ELX-TM3R-20	Ø3" CORRUGATED RUBBER HOSE - 40" LG PUMP TO RES.			
15	ELX-TM3R-21	Ø3" CORRUGATED RUBBER HOSE - 28" LG DV TO SEC.			
16	ELX-TM3R-22	Ø3" CORRUGATED RUBBER HOSE - 8" LG. - RES. TO DV			
17	ELX-TM3R-23	GAUGE PANEL - WITH 2x PRESSURE GAUGE & TEMP. GAUGE			
17A	FGC-021-PVP	PRESSURE GAUGE - 1/4" NPT - CENTER-BACK PANEL MOUNT			
18	RHS-100-PVC	CLEAR HOSE - Ø1" x 18" LONG (SIGHT HOSE)	18"		
19	ELX-TM3R-15	RUBBER HOSE - Ø1" x 26" LONG (FOR RESERVOIR FILLING)	1		
20	FM700RAD-WR	75kW COOLER ASSEMBLY	1		
21	RHS-150-EXF	RUBBER HOSE - Ø1.5" x 21" LONG - RESERVOIR TO COOLER INLET	8"		
22	RHS-150-EXF	RUBBER HOSE - Ø1.5" x 19" LONG - COOLER OUTLET	19"		
23	FPA-101-105-BR	PIPE ADAPTOR - 1" NPT x 1" HB			
24	FPA-151-155-BR	PIPE ADAPTOR - 1-1/2" NPT x 1-1/2" HB - BRASS	2		
23	FPA-101-105-BR	COOLER OUTLET PIPE ADAPTOR - 1" NPT x 1" HB PIPE ADAPTOR - 1-1/2" NPT x 1-1/2" HB -			

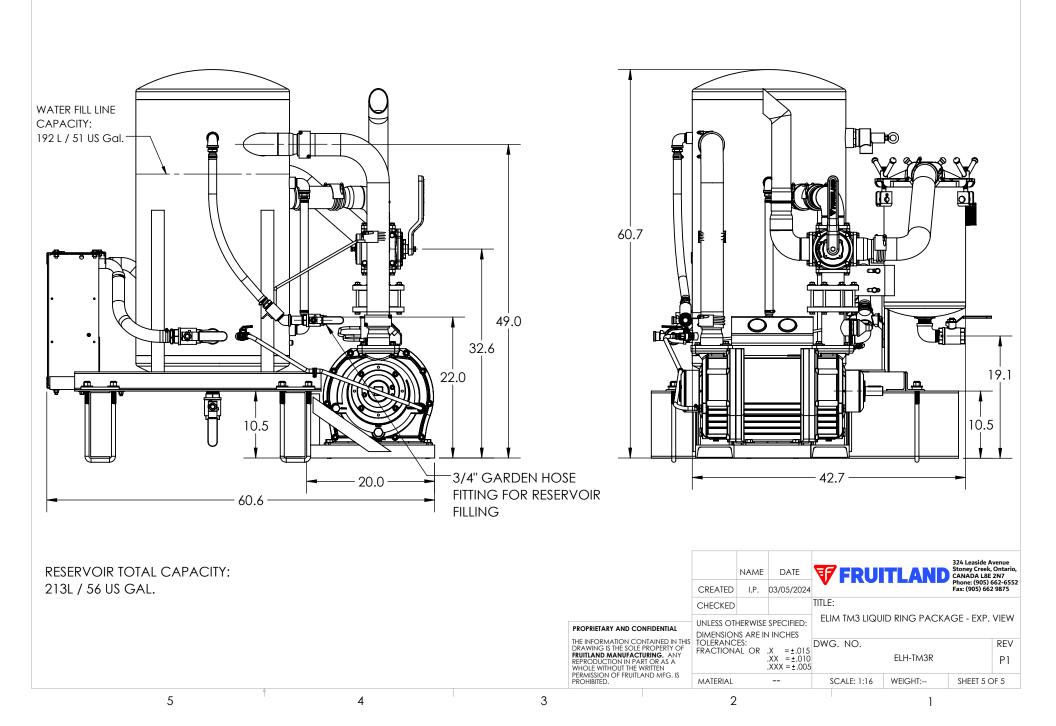
25	FPE-100-91-CS	STREET ELBOW, 90° (MxF) - 1" NPT - STEEL	3
26	FPE-100-41-CS	STREET ELBOW, 45° (MxF) - 1" NPT - STEEL	1
27	FPE-150-91-CS	STREET ELBOW, 90° (MxF) - 1-1/2'' NPT - STEEL	3
28	AI-870-83	S.S. BRAIDED HOSE - 1/4" NPT x 14" LONG	2
29	RF120-65	GASKET - PUMP OUTLET / BACK-UP VALVE	2
30	FPN-101-030-CS	PIPE NIPPLE - 1" NPT x 3" LONG - STEEL	1
31	PRV-2	PRESSURE RELIEF VALVE - 2" NPT	1
32	ELX-TM3R-19	COOLER MOUNTING ANGLE	2
33	FVB-051-052-BR	BALL VALVE - 1/2" NPT (MxF)	1
34	FVB-102-BR	BALL VALVE - 1" NPT	1
35	FVB-152-BR	BALL VALVE - 1-1/2" NPT	4
36	FPA-101-077-BR	GARDEN HOSE FITTING - 3/4" GHT x 1" NPT - BRASS	1
37	HCI-300-PLD	POWER LOCK HOSE CLAMP - 3" - DOUBLE BOLT	6
38	ELX-TM3R-16	HOSE - Ø1/2" x 36" LG. (RESERVOIR TO PUMP)	1
39	HCI-040-625	HOSE CLAMP, SAE4 (7/32'' - 5/8'')	2
40	HCM-060-035	HOSE CLAMP - 1" (32-35mm)	4
41	HCM-080-055	HOSE CLAMP - 1-1/2" (52-55mm)	4
42	HCI-062-SVD	LOOP CLAMP - 5/8'' - SNUG FIT VIBRATION DAMPENING	1
43	FPA-051-055-BR	PIPE ADAPTOR - 1/2" NPT x 1/2" HOSE BARB - BRASS	1
44	FPA-053-055-BR	PIPE ADAPTOR - 1/2" BSPT x 1/2" HOSE BARB BRASS	1
45	FPN-151-017-CS	CLOSE NIPPLE - 1-1/2" NPT	2
46	FPP-021-SBR	PIPE PLUG - 1/4" NPT - BRASS	1
47	FPE-022-45-CS	ELBOW, 45° (FxF) - 1/4" NPT - STEEL	2
48	VB	VACUUM RELIEF VALVE - 1-1/2" NPT	1

HARDWARE LIST					
F1	HBM-100-301	и-100-301 HEX BOLT - M10 x 30mm LONG - Z.P.			
F2	HBM-100-401	HEX BOLT - M10 x 40mm LONG - Z.P.	4		
F3	HBM-100-1201	HEX BOLT - M10 x 120mm LONG - Z.P.	8		
F4	HBM-120-401	HEX BOLT - M12 x 40mm LONG - Z.P.	8		
F5	HBI-620-252	HEX BOLT - 5/8"-11 NC x 2-1/2" LONG - Y.Z.P.	4		
F6	HBI-380-122	HEX BOLT - 3/8"-16 NC x 1-1/4" LONG - Y.Z.P.	4		
F7	HBI-380-102	HEX BOLT - 3/8"-16 NC x 1" LONG - Y.Z.P.	4		
F8	HBI-100-102	HEX BOLT - #10-24 NC x 1" LONG - Z.P.	1		
N1	HNM-100-H1	HEX NUT - M10 x 1.5mm - Z.P.	12		
N2	HNI-620-N2	NYLOCK HEX NUT - 5/8"-11 NC - Y.Z.P.	4		
N3	HNI-380-N2	NYLOCK HEX NUT - 3/8"-16 NC - Y.Z.P.	6		
N4	HNI-100-N2	NYLOCK HEX NUT - #10-24 NC - Y.Z.P.	1		
L1	HWM-100-21	LOCK WASHER - M10 - Z.P.	28		
L2	HWM-120-21	LOCK WASHER - M12 - Z.P.	8		
W1	HWM-100-01	FLAT WASHER - M10 - Z.P.	23		
W2	HWI-620-32	FLAT WASHER, SAE (SMALL) - 5/8" - Y.Z.P.	8		
W3	HWI-380-32	FLAT WASHER, SAE (SMALL) - 3/8" - Y.Z.P.	4		
W4	HWI-380-42	FLAT WASHER, USS (LARGE) - 3/8" - Y.Z.P.	8		
W5	HWI-100-01	FLAT WASHER - #10 - Z.P.	1		
TFM-11	TFM-11R - REGULAR INSTALLATION KIT				
K1	TFM-11-A3	U-BOLT - 3-1/2" x 5/8"-11 NC	4		
K2	TFM-11-09	TIE BAR PLATES FOR 3-1/2" U-BOLTS	4		
К3	HWI-620-42	FLAT WASHER, USS (LARGE) - 5/8" - Y.Z.P.	8		
K4	HNI-620-N2	NYLOCK HEX NUT - 5/8"-11 NC - Y.Z.P.	8		

PART # ELH-TM3R

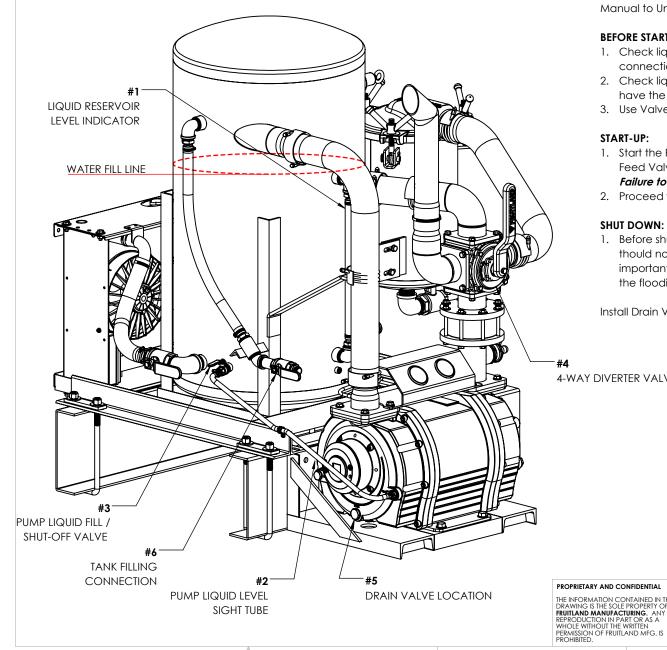


PART # ELH-TM3R



RESERVOIR VOLUME: TOTAL CAPACITY - 213L (56 US GAL) WATER CAPACITY - 192L (51 US GAL)

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FRUITLAND LIQUID RING PUMP START-UP INSTRUCTIONS

IMPORTANT:

Please Read Liquid Ring Pump Installation, Operation, and Maintenance Manual to Understand Pump Operation.

BEFORE START-UP:

- 1. Check liquid level in the Tank #1. Add up to the Fill Line through filling connection #6 if required.
- 2. Check liquid level in pump through hose location #2. It is important to have the liquid up to the center line of the pump.
- 3. Use Valve **#3** to add liquid to the Vacuum Pump
- 1. Start the Pump and within 20sec of starting the pump, open the Liquid Feed Valve #3 to start feeding liquid to the pump.

Failure to Open the Valve will Result in Serious Pump Damage.

- 2. Proceed with regular pump operation.
- 1. Before shutting off the pump, turn off the Liquid Supply Valve #3. There thould not be more than a 10sec delay between the two steps. It is important to shut off the water when the pump is not running to prevent the flooding of the pump, diverter valve, and other parts of the system.

Install Drain Valve #5 at the bottom of the pump to drain a flooded pump.

4-WAY DIVERTER VALVE

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		NAME	DATE	17	FRU	TLAND	324 Leaside A Stoney Creek CANADA L8E	, Ontario, 2N7
	CREATED	I.P.	05/03/2024	•			Phone: (905) Fax: (905) 66	
	CHECKED			TITLE:				
ONFIDENTIAL ONTAINED IN THIS E PROPERTY OF CTURING. ANY ART OR AS A WRITTEN LAND MFG. IS	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES			ELH-TM3 - START-UP INSTRUCTIONS				
			X = ±.015 XX = ±.010 XXX = ±.005	DWG.		ELH-TM3-STARTU	IP	rev P0
	MATERIAL			SC	ALE: 1:12	WEIGHT:	SHEET 1 (OF 1
	2					1		