

RT-8574 Stainless Steel Enclosed Pump Station



This packaged system is pre-engineered designed for harsh environments such as landfill leachate applications. The system is capable of providing flooded suction pumping from a process tank downstream for storage, treatment or disposal purposes.

Features:

- 7.5 HP 480V 3PH PRM Pump
- 3' x 2' Aluminum Channel Skid
- Design Flow Rate is 47-113 GPM
- Max Pressure is 78 ft (33.8 psi)
- 7.5 HP Yaskawa VFD
- Nema 4X Insulated Exterior Enclosure, Heated and Fan forced cooling finished with 304SS on the pump station interior
- 20" x 28" NEMA 4X SS UL Listed Control Panel with Allen Bradley Compactlogix PLC Remote backplane for interfacing/controlling from Compactlogix Fiber Network



Short or Long Term Lease Options or
Purchase Available!

(888-TREAT-IT) • www.prmfiltration.com • sales@prmfiltration.com

CONTROL PANEL

1. PANEL LISTING	508
2. DEADFRONT	YES
3. VOLTAGE	480V
4. PHASE	3
5. FLA	
6. AUTO RESTART	YES
7. BREAKERS IN PANEL	YES
8. HOUR METERS	YES, ON DEADFRONT
9. AMP METERS	YES, VFD
10. HOA AND RESTART BUTTON	PHYSICAL BUTTON
11. OXIDIZER INTERLOCK	NO
12. PLC	ALLEN BRADLEY REMOTE RACK
13. 7/24 TIMER	YES, REMOTE RACK
14. SURGE PROTECTOR	YES
15. PHASE MONITOR	YES
16. PANEL TRANSFORMER	YES
17. FAN IN PANEL	YES
18. TELEMETRY	VIA REMOTE RACK
19. TELEMETRY SERVICE	TBD
20. BATTERY BACKUP	YES

3D MODEL LINK: <https://a360.co/40f4EHA>

PRE-ENGINEERED WEATHERIZED PUMPING STATION

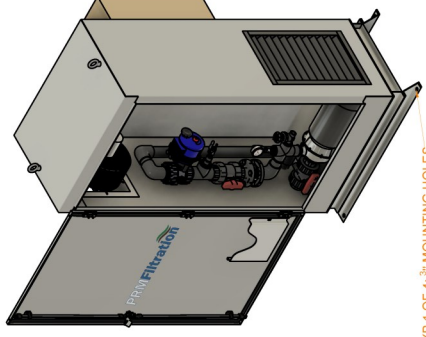
GENERAL NOTES

1. WALLS AND CEILING TO BE INSULATED WITH R5 INSULATION.
2. FLOOR TO HAVE 3/4" PLYWOOD.
3. R5 INSULATION TO BE MOUNTED UNDER ENCLOSURE.
4. FLOOR, WALLS, AND CEILING TO BE COVERED WITH 20ga. SS SHEET METAL ON INTERIOR.
5. MOUNT PUMP AS CLOSE TO LEFT WALL THAT PLUMBING WILL ALLOW.
6. 14x20" RECTANGLE OF R5 INSULATION TO BE PROVIDED LOOSE TO COVER VENT IN THE WINTER.
7. COVER FOR FAN FINGER GUARD TO BE PROVIDED LOOSE TO COVER FAN OPENING IN THE WINTER.
8. FIBER OPTIC CONVERTER AND ETHERNET SWITCH TO BE INCLUDED IN PANEL.
9. ALL WIRING TO BE MADE FOR UNCLASSIFIED ENVIRONMENT.

PRM PARTS LISTS

QTY	PRM PARTS	DESCRIPTION	PRM#
1	PI-1	0-100 PSI PRESS GAUGE	PGCNBTY6301524100PSISS

REMOTE PUMP SYSTEM ISOMETRIC DETAIL



PUMP FRONT ELEVATION DETAIL

TYP 1 OF 2: 2" SCH80 PVC DOUBLE ELBOW TO BRING DISCHARGE TO THE SAME ELEVATION AS INLET

2" ELECTRICALLY ACTUATED PVC TRUE UNION BALL VALVE BONOMI #BEPVCBVZ-023-2

1.5X0.25" SCH80 PVC BUSHING

3/4" SCH80 PVC GATE VALVE

1.5" SCH80 PVC MALE ADAPTER

GOULDS XYLEM #3SN1KCA4 7.5HP 480V 3PH TEFC

2" SCH80 PVC PIPE THREADED ON ONE END

2" SCH80 PVC TRUE UNION BALL VALVE

3/4" SS BALL VALVE

2" CONNECTION FROM RAW LEACHATE SUPPLY TANK

2" CONNECTION TO PUMP SKID BEHIND SUCTION

2" CONNECTION TO PUMP SKID BEHIND SUCTION

2" CONNECTION TO PUMP SKID BEHIND SUCTION

REMOTE PUMP SYSTEM BACK ELEVATION DETAIL

20x26x8" NEMA 4X SS CONTROL PANEL

ENCLOSURE HEATER DAYTON #3UG76D

7.5HP YASKAWA VFD

3" SCH80 PVC THREADED ADAPTER

DUPLEX GFCI UNDER PANEL

2" SS WAFER STYLE CHECK VALVE PRM #SS304CVDPV0200

3x2" - 3" AL CHANNEL SKID

2KVA TRANSFORMER

REMOTE PUMP SYSTEM FRONT ELEVATION DETAIL

12" STANDARD LOCATION FAN AC INFINITY #AC-ALT12 120V, 1PH

SINGLE RECEPTACLE FOR FAN

PRESSURE TRANSMITTER CERABAR #PMP11-AA1L1HRVJ

20x26x8" NEMA 4X SS CONTROL PANEL

ENCLOSURE HEATER DAYTON #3UG76D

7.5HP YASKAWA VFD

3" SCH80 PVC THREADED ADAPTER

DUPLEX GFCI UNDER PANEL

2" SS WAFER STYLE CHECK VALVE PRM #SS304CVDPV0200

3x2" - 3" AL CHANNEL SKID

2KVA TRANSFORMER

REMOTE PUMP SYSTEM LEFT ELEVATION DETAIL

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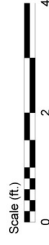
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DRAWING NUMBER: M-1

NO.	REVISION	DATE
1	AS-BUILTS	02/15/24

PROJECT NUMBER	PROJECT NAME

QUOTE NUMBER	DATE
	11/29/23

SHEET TITLE	DRAWN BY
PRE-ENGINEERED WEATHERIZED PUMP STATION	JDH

CLIENT	PROJECT TITLE
PRM FILTRATION	

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