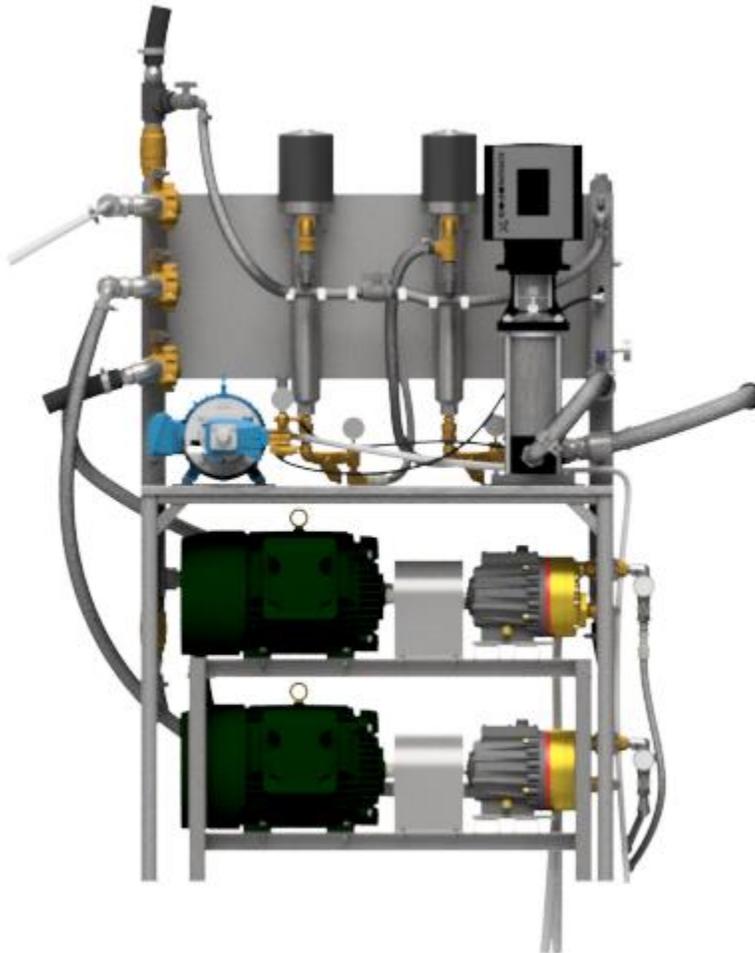


## All-In-One High Pressure Pump Station



Description: **All-In-One High Pressure Pump Station**

Part No: **E-SE-HP-480-2020-1**

Updated: **7.17.19**

## General Warning

It is important that you read this manual in its entirety before attempting to install, operate, or service the corresponding Tommy Car Wash Systems equipment. Observe all safety information and any additional instructions included with this equipment. Failure to observe these instructions may result in personal injury and / or property damage.

## System Description

Tommy Car Wash System's proprietary All-In-One High Pressure Pump Station raises the bar for car wash plumbing and pumping setups. Centralize all your wash pumping needs in a compact, 4' x 4' package to drastically reduce installation and plumbing costs.

*Note: Unit assemblies may vary. Contact Tommy Car Wash Systems with questions or for assistance with your specific unit.*

## Technical Data

- Construction: Stainless Steel
- Space Required: (Backroom) 4' x 4' x 8' + hookups
- Power Requirements: 480V / 208V
- Shipping Weight: approx. 2500 lbs.
- Noise Level: 100 Db

## Plumbing Feed Requirements

- 2" Fresh hot water feed
- 2" Reject water feed
- 2" Fresh water back-up feed
- 2" Reclaim water feed

Note: Different setups may require different plumbing

## Electrical Requirements

Pumps:

- E-HFI-224 – 3 Phase, 480 Volts, 4.8 Amps, 3 HP – (Qty. 2)
- E-SE-BP-75-480 – 3 Phase, 208/480 Volts, 19.0/11.0 Amps, 7.5 HP – (Qty. 1)
- P-SE-PG-2323 – 3 Phase, 208/480 Volts, 19.9/11.0 Amps, 7.5 HP – (Qty. 1)

Motors:

- P-SE-HP-204 – 3 Phase, 208/480 Volts, 40.0/20.0 Amps, 15 HP – (Qty. 2)

Solenoids:

- P-WAT-2479 – 24 Volts DC, 11.6 Watts – (Qty. 3)

Pressure Transducers:

- CCS-XMLG100D23 – 12/24 Volts DC, 20 milliAmps – (Qty. 2)

Switches:

- P-SE-PG-223 – 250 Volt Max – (Qty. 1)

### **Recommended Maintenance**

- Oil changes monthly where applicable.
- Change LoveJoy Spider (P-HYD-2046) once a year
- Grease motors per manufacturers spec on running hours and grease type
- Inspect hoses every 100,000 cars

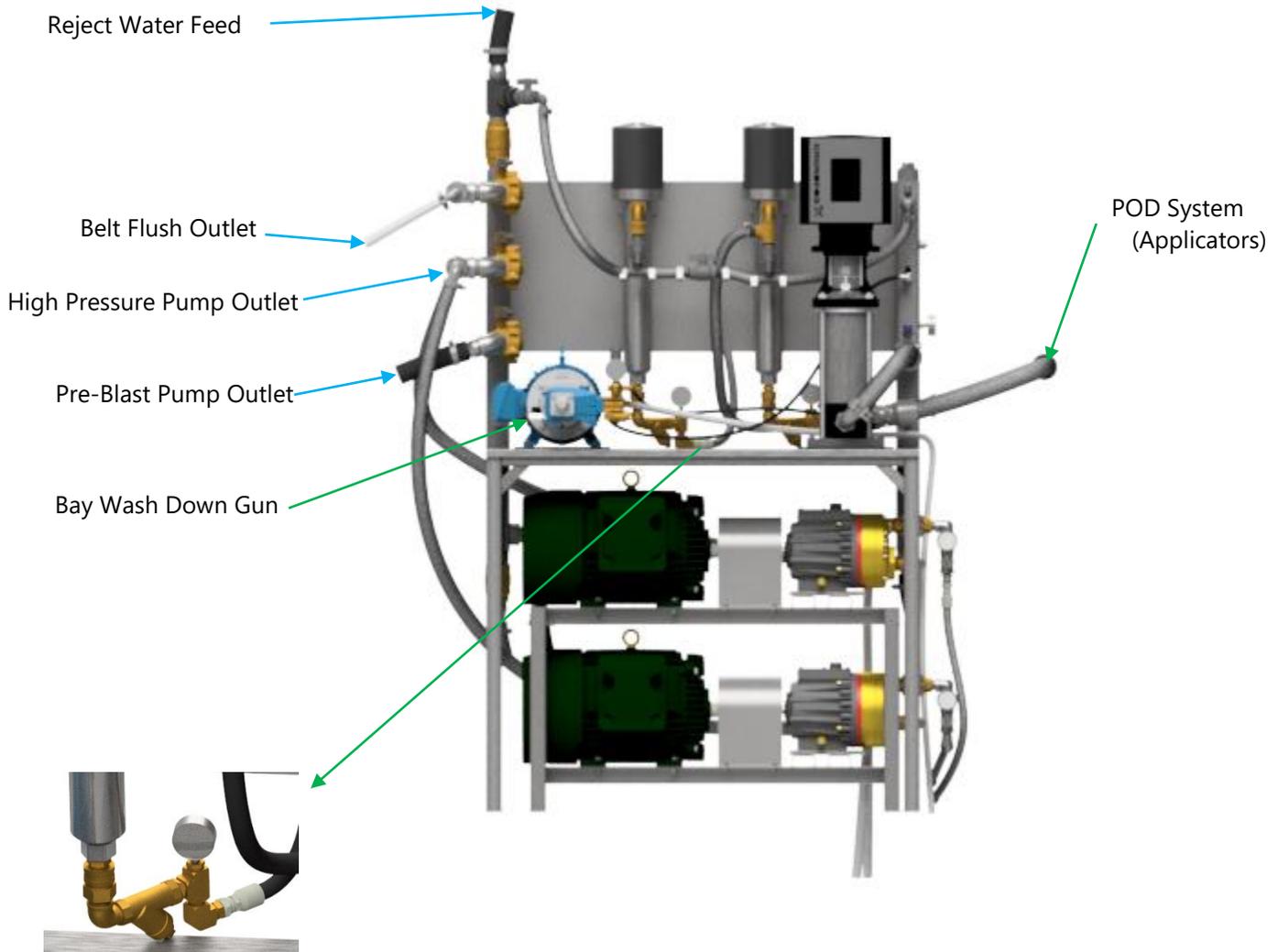
### **General Safety Information**

All WARNINGS, CAUTIONS, AND ADVISEMENTS below concern the safe installation, operation, and service of your Tommy Car Wash Systems equipment. This safety information is included for your protection and should be reviewed thoroughly prior to working with or near this equipment.

- Never service equipment while it is running.
- All personnel must be trained on the equipment and corresponding safety procedures before conducting service.
- All employees should have ready access to emergency stop buttons and should be trained on their location and operation.
- All moving and/or electrical equipment involves certain hazards. At least two qualified personnel must be on-hand during service or normal operation.
- Do not wear loose fitting clothing when working on or around moving equipment.
- All car washes must use a warning system to alert employees prior to wash activation.
- Do not attempt to operate any malfunctioning equipment.
- Unauthorized personnel or foreign objects are not permitted near functioning equipment.
- Never attempt to clean or service any area near operational equipment. Keep area clear until equipment has been fully deactivated.
- Disconnect all equipment prior to servicing.
- Do not attempt to use any equipment for any function it was not intended for.

## Pump Inlet / Outlet Feeds

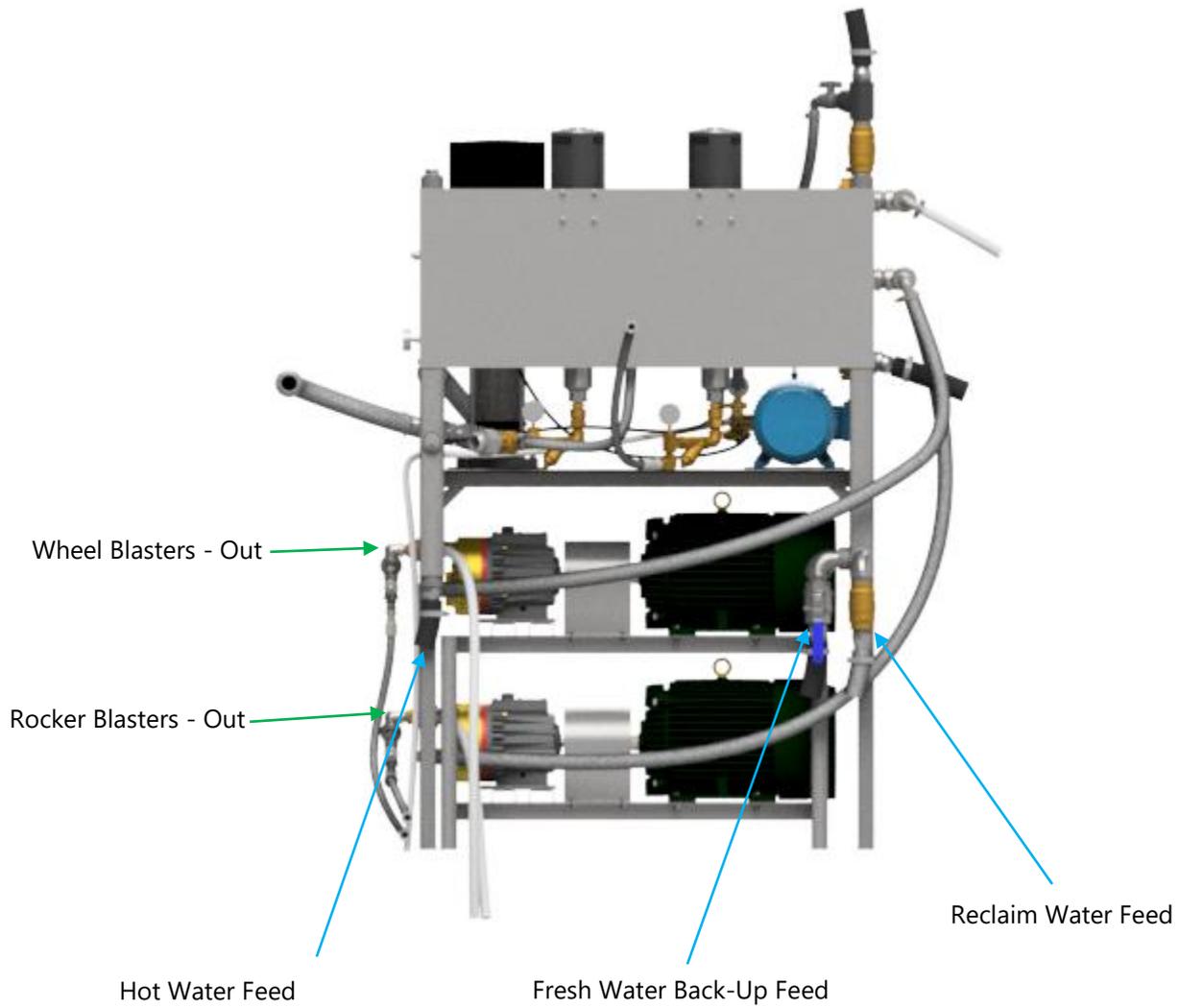
### Front View



- High Pressure Rinse
  - Teardrop Arch Side 1
  - Teardrop Arch Side 2
  - Rain Bar

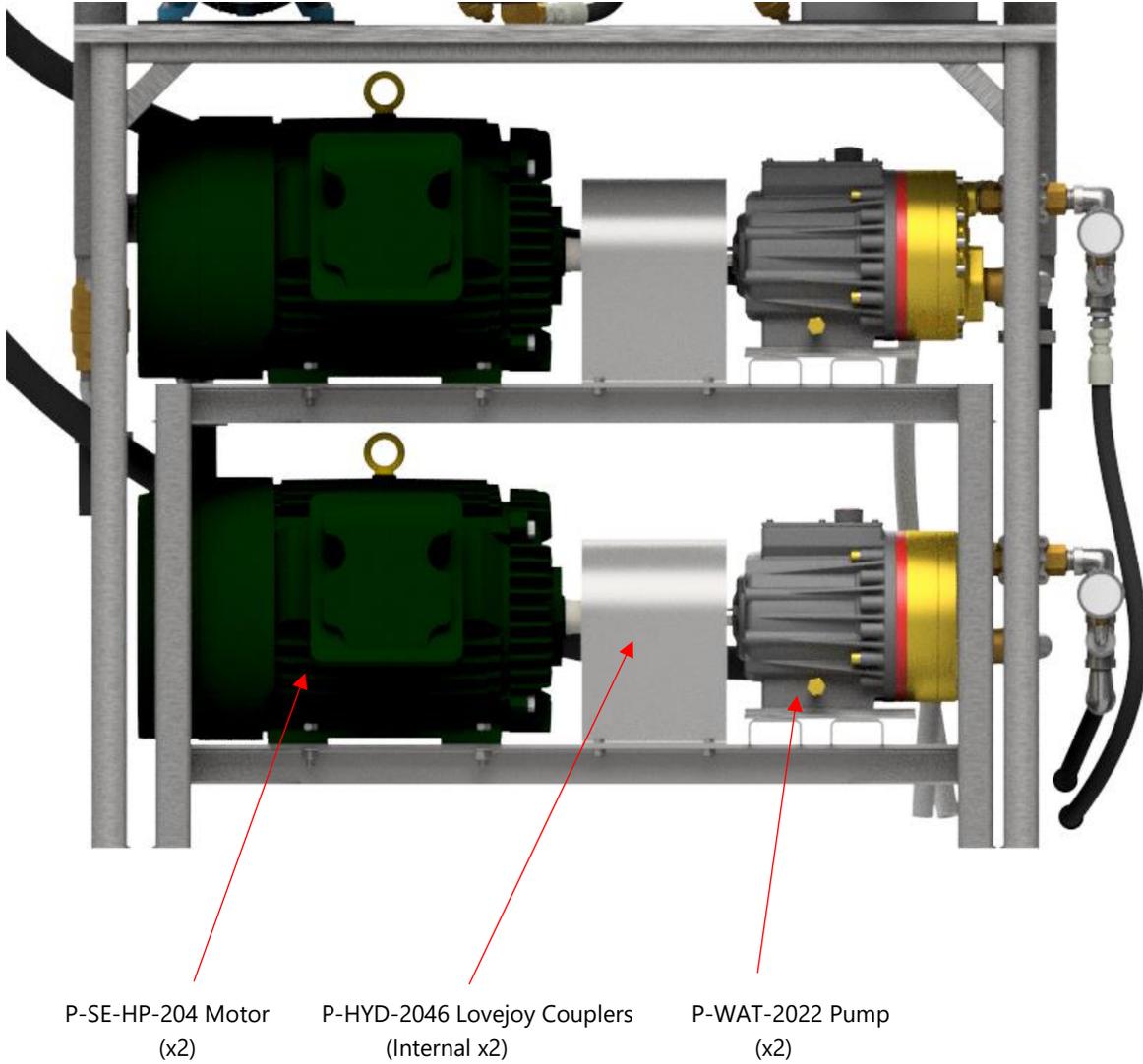
**\*Note: Pre-Blast Utilizes Separate Pump Unit.**

**Rear View**



## Equipment Components

### High Pressure Pump Components



Please reference the prints below regarding the remaining components within the All-In-One Pump Station.



PARTS LIST				PARTS LIST			
ITEM	PART NUMBER	QTY	DESCRIPTION	ITEM	PART NUMBER	QTY	DESCRIPTION
1	CCS-XMLG100D23	2	NAUT XMLG100D23 NAUTILUS PRESSURE TRANSDUCERS 0-100 BAR	70	P-WAT-2333	5	1" CLOSE NIPPLE X 1.5" LONG, SS SCH. 80
2	CCS-XZCP1141L5	2	CORD FOR CCS-XMLGM01D23	71	P-WAT-2336	2	1" MNPT x 3/4" FNPT REDUCING BUSHING - SS
3	E-HFI-224	2	20 GPM HYDRAFLEX BOOSTER PUMP	72	P-WAT-2349	1	2" MNPT X 2" MJIC ADAPTER - SS
4	E-SE-BP-75-480	1	GRUNDFOS HP BOOSTER PUMP 7.5 HP 480V W/VFD	73, 74, 75, 76	P-WAT-2358	28 ft	1" ID CLEAR POLYBRAID HOSE
5	E-SE-HP-036	1	ALL-IN-ONE DOUBLE STACK PUMPING STATION 2 X 20GPM (FRAME)	77	P-WAT-2370	2	2" FNPT x 2" FNPT BALL VALVE- SS, 1,000 PSI
6	P-2000	8	3/8"-16 1-1/4" SS HEX CAP SCREW	78	P-WAT-2372	2	1" MNPT x 1" FNPT 45° STREET ELBOW - BRASS
7	P-2002	12	3/8"-16 SS NYLON LOCK NUT	79	P-WAT-2374	10	2" CLOSE NIPPLE-SS
8	P-AIR-2023	1	3/8" MNPT x 1/2" QUICK CONNECT-LIQUIFIT	80	P-WAT-2388	1	2" FNPT X 2" MJIC ADAPTER - SS
9	P-AIR-2155	1	1/2" MNPT x 1/2" QUICK CONNECT- NICKEL PLATED BRASS	81	P-WAT-2389	3	2" MNPT X 1" FNPT REDUCING BUSHING - SS
10	P-AIR-2156	2	PARKER 1/2" PRESTOLOK PLUS TUBE x 1/2" MNPT 90 SWIVEL, BRASS	82	P-WAT-2393	1	#20 3/4" TO 1-3/4" DIA HOSE CLAMP 9/16" W S/S
11	P-C2147	24	FLAT WASHER 3/8"	83	P-WAT-2395	2	2" FNPT TEE- SS SCH. 40
12	P-C2286	4	1/2"-13 X 2-1/2" BEARING BOLT - SS	84	P-WAT-2418	16	T-BOLT HOSE CLAMPS, 1-1/2" HOSE - SS
13	P-M2018	4	NYLON LOCK NUT 1/2"-13	85	P-WAT-2429	2	1" QUICK CONNECT FEMALE COUPLER W/ 1" MNPT
14	P-RX-2019	2	1/2" STAINLESS STEEL PLUG	86	P-WAT-2436	2	1" MNPT x 1" MNPT - SS
15	P-SE-2077	2	1" 1,000 PSI PRESSURE REGULATOR FOR H25 PUMP	87	P-WAT-2446	1	1/4" MNPT POP OFF VALVE 1000-3000, 6 GPM, BRASS
16	P-SE-2119	1	SS THERMOMETER 0-250 DEGREE	88	P-WAT-2455	2	3/8" FNPT TEE - BRASS
17	P-SE-2120	6	1" MNPT x 1" BARB PVC	89, 90	P-WAT-2461	8 ft	HIGH TEMP 1/2" NYLON TUBING - PER FT
18	P-SE-2148	2	RUBBER VIBRATION DAMPNER PAD 10"x12"	91	P-WAT-2473	2	1" FNPT x 1" FNPT Y STRAINER, BRASS
19	P-SE-2170	1	WARNER HYDRA CELL C23 50-500 PSI PRESSURE REGULATOR	92	P-WAT-2474	3	1/4" MNPT LIQUID FILLED GAUGE, 400 PSI, 2.5" FACE
20	P-SE-HP-202	3.75 ft	2" ID GRUNDFOS OUTPUT HOSE FOR ALL IN ONE PUMP STATION	93	P-WAT-2476	2	1" MPT x 1" M QUICK DISCONNECT, BRASS
21	P-SE-PG-223	1	CAT PUMP FLOW SWITCH	94	P-WAT-2479	3	2" ASCO SOLENOID VALVE NORMALLY CLOSED
22	P-SE-PG-226	2	LIQUID FILLED GAUGE 0-1000 PSI	95	P-WAT-2483	9 ft	REINFORCED POLYBRAID HOSE 5/8", PVC
23	P-SE-PG-2323	1	BAY WASH DOWN CAT PUMP ASSEMBLY 7.5HP W/ REGULATOR - NO STAND	96	P-WAT-2484	1	1/2" PLUG, BRASS
24, 25, 26, 27, 28	P-SPL-2129	10 ft	1" PARKER GENERAL SERVICE AIR AND WATER HOSE, 200 PSI	97	P-WAT-2557	2	3/8" SOCKET HEAD PIPE PLUG, BRASS
29	P-SS-1047	8	1/2" X 1.062 OD GRADE 18-8 SAE FLAT WASHER, SS	98	P-WAT-2560	3	ASCO CONNECTOR CABLE 5J SERIES 20'
30	P-SS-1072	4	3/8-16 X 1-3/4" HEX CAP SCREWS	99	P-WAT-2584	2	3/4" MNPT x 3/4" MJIC SS
31	P-VAC-264	4	T BOLT CLAMP 1.88" TO 2.19" SS	100	P-WAT-2590	2	2" MNPT X 1-1/2" FNPT REDUCER BUSHING, SS
32	P-VAC-2016	9	2.63" TO 2.94" SS T BOLT CLAMP	101, 102	P-WAT-2609	11 ft	3/4" TOUGH COVER HOSE WITH SS FEMALE JIC END 66" LONG
33	P-VAC-2037	4	2.25" TO 2.56" SS T-BOLT CLAMP	103	P-WAT-2611	7 ft	3/4" TOUGH COVER HOSE WITH SS FEMALE JIC END 84" LONG
34	P-WAT-2092	2	1/4" STREET 90 DEGREE ELBOW	104	P-WAT-2623	1	1" MNPT x 3/4" FNPT REDUCER BUSHING, BRASS
35	P-WAT-2193	2	1" FNPT x 1" FNPT 90° ELBOW STAINLESS STEEL	105	P-WAT-2624	1	3/4" MNPT x 1/4" FNPT REDUCER BUSHING, BRASS
36	P-WAT-2197	1	2" MNPT x 2" BARB ELBOW - SS	106	P-WAT-2625	1	3/4" FNPT ELBOW, BRASS
37, 38, 39, 40	P-WAT-2204	20 ft	2" SUCTION HOSE (BLACK)	107	P-WAT-2626	1	3/4" MNPT x 3/4" MJIC ADAPTER, BRASS
41	P-WAT-2210	5	1" FNPT X 1" FNPT BALL VALVE - PVC	108	P-WAT-2666	2	1" FNPT TEE FITTING - BRASS
42	P-WAT-2213	2	2" MNPT PLUG - SS	109	P-WAT-2668	2	1" MNPT X 1" BARB ELBOW 90 DEG, SS
43	P-WAT-2230	1	2" FNPT TEE - PVC SCH. 80	110	P-WAT-2669	4	1 1/2" MNPT X 1 1/2" BARB ELBOW 90 DEG, SS
44	P-WAT-2232	2	1" FNPT CROSS - SS	111	P-WAT-2670	1	1" MNPT X 1/4" FNPT REDUCER BUSHING - BRASS
45	P-WAT-2233	1	1" MNPT X 1" FNPT STREET ELBOW - SS	112	P-WAT-2680	2	2" FNPT SPRING CHECK VALVE, BRASS
46	P-WAT-2235	4	1" MNPT x 1/4" FNPT REDUCER BUSHING - SS				
47	P-WAT-2247	2	1" MNPT x (2) 1" BARB T ADAPTER - PVC				
48	P-WAT-2249	4	1" MNPT x 1" FNPT STREET ELBOW - BRASS				
49	P-WAT-2252	1	1.5" MNPT PIPE PLUG - SS				
50	P-WAT-2254	6	2" MNPT x 2" BARB - SS				
51	P-WAT-2256	2	1" MNPT x 1" BARB ELBOW - PVC				
52	P-WAT-2257	4	1" MNPT CLOSE NIPPLE- PVC SCH. 80				
53	P-WAT-2258	2	1/2" MNPT x 1/2" FNPT MINI BALL VALVE- NICKEL PLATED BRASS				
54	P-WAT-2262	1	1" FNPT COUPLER - BRASS				
55	P-WAT-2270	3	3/8" MNPT CLOSE NIPPLE - BRASS				
56	P-WAT-2271	4	3/8" MNPT X 3/8" FNPT STREET ELBOW - BRASS				
57	P-WAT-2277	2	1" MNPT CLOSE NIPPLE - BRASS				
58	P-WAT-2278	2	3/4" MNPT CLOSE NIPPLE - BRASS				
59	P-WAT-2283	2	3/8" MNPT x 1/2" MJIC- BRASS				
60	P-WAT-2285	1	3/4" FNPT TEE - BRASS				
61	P-WAT-2286	2	3/8" MNPT x 1/4" FNPT REDUCING BUSHING-BRASS				
62, 63	P-WAT-2300	15 ft	PARKER E-Z FORM GENERAL SERVICE HOSE, 2"				
64	P-WAT-2301	1	2" MNPT X 1" FNPT REDUCING BUSHING - PVC SCH. 80				
65, 66	P-WAT-2311	25 ft	1.5" PARKER EZ FORM GENERAL SERVICE HOSE				
67	P-WAT-2313	2	1.5" MNPT x 1.5" FNPT 45° ELBOW - BRASS				
68	P-WAT-2316	1	LEAD FREE WATER PRESSURE GAUGE 0-100 PSI, 1/4" MNPT				
69	P-WAT-2327	6	2" MNPT x 2" FNPT STREET ELBOW - SS				

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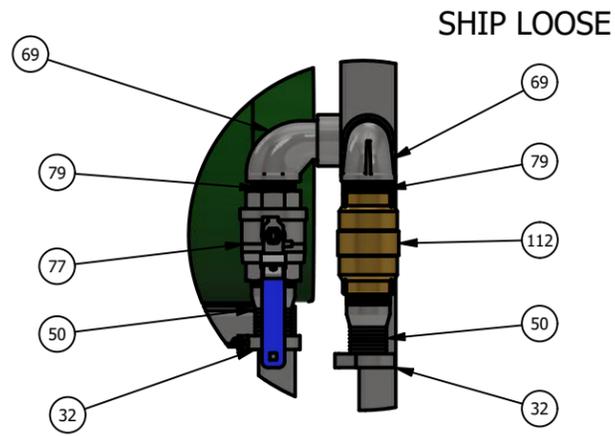
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SCALE	1 / 20	

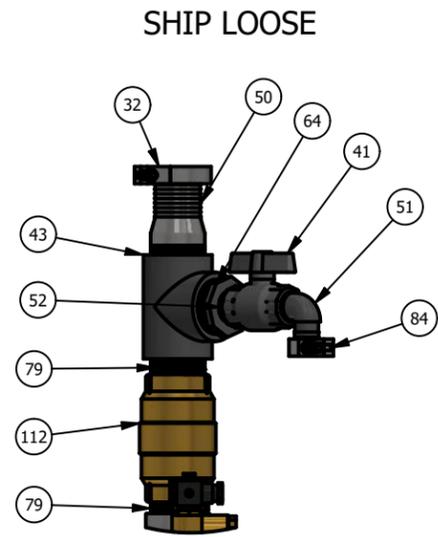




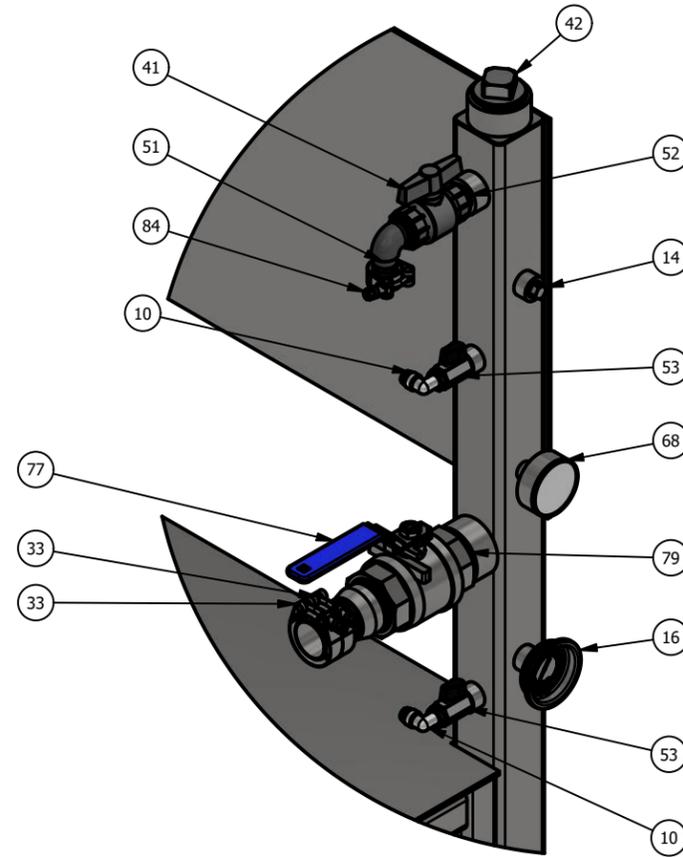
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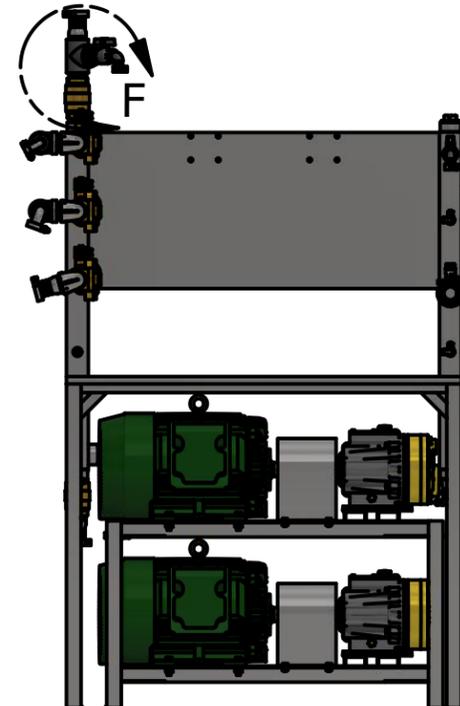
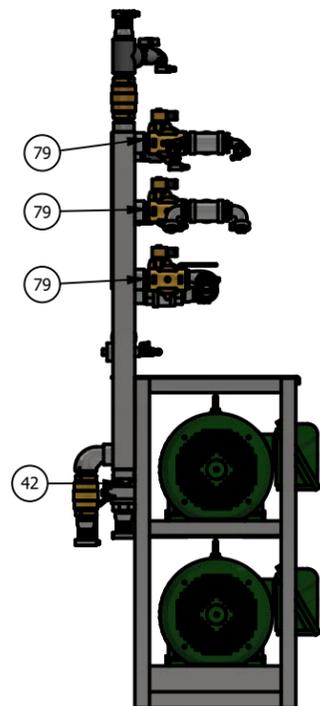
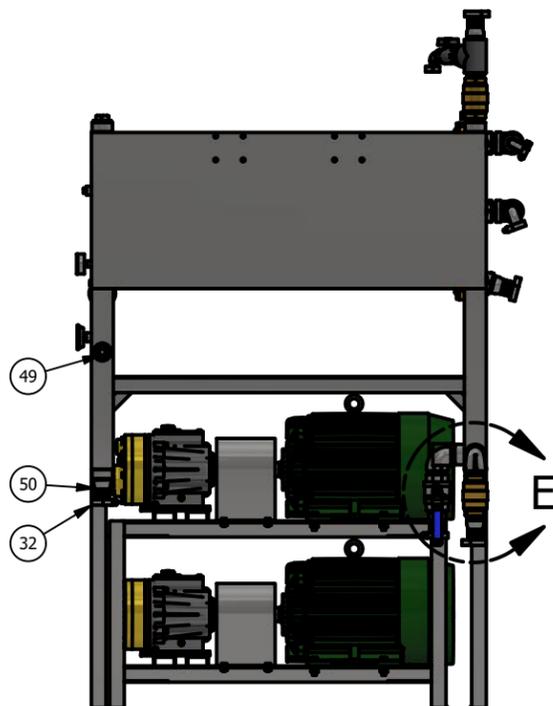
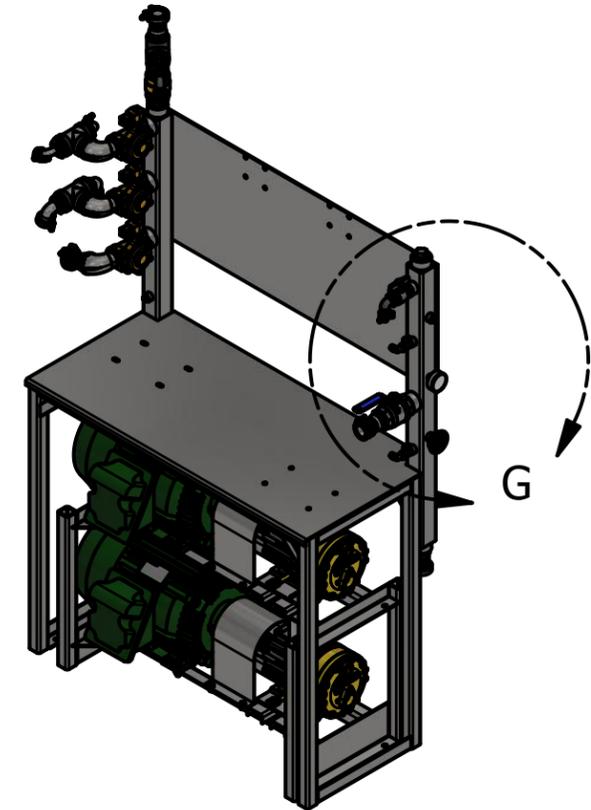
DETAIL E  
SCALE 1/10



DETAIL F  
SCALE 1/8



DETAIL G  
SCALE 1/8



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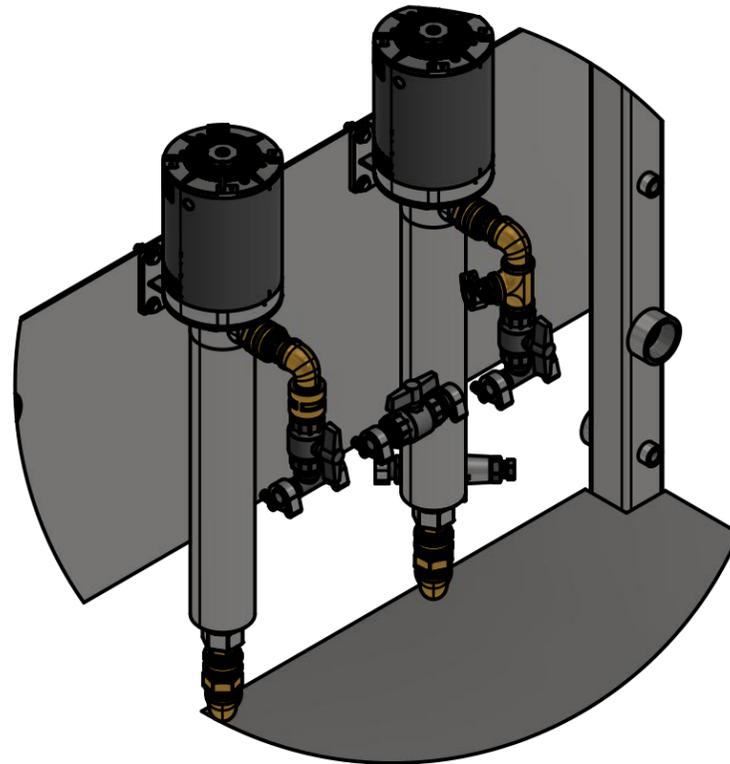
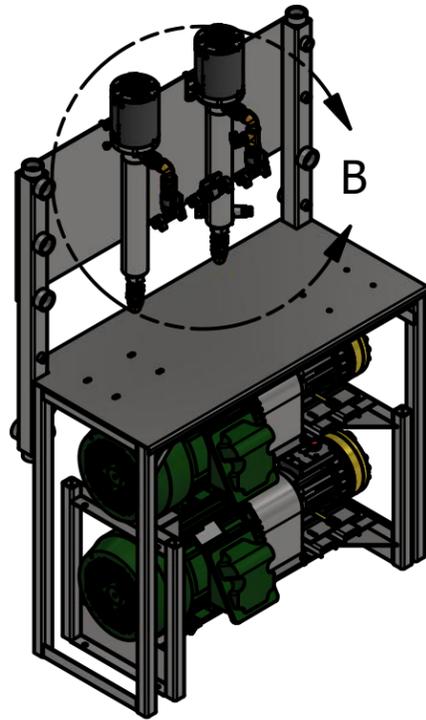


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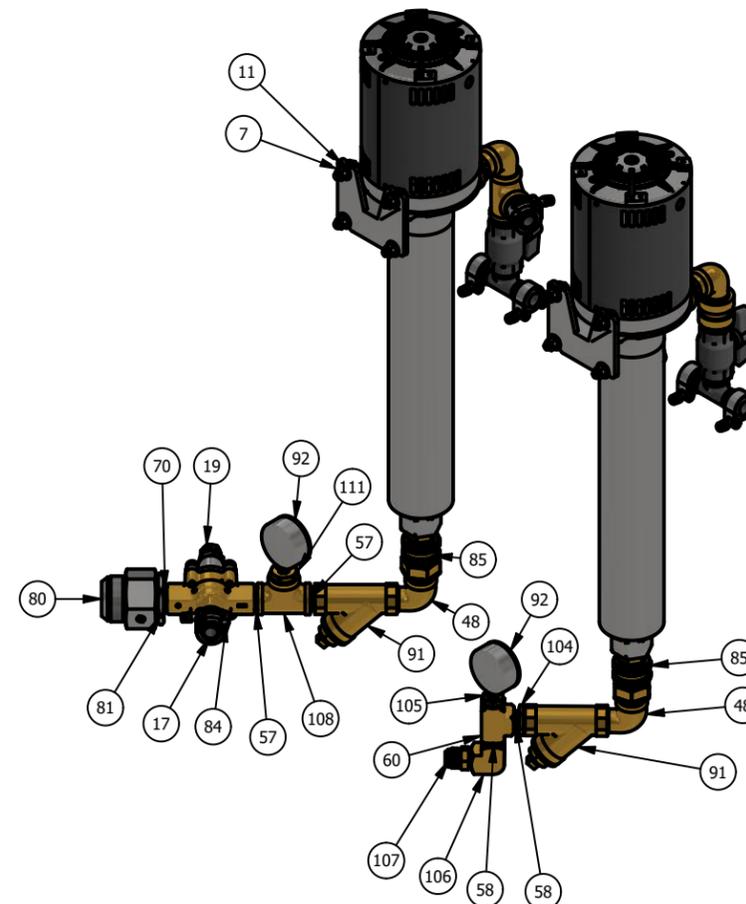
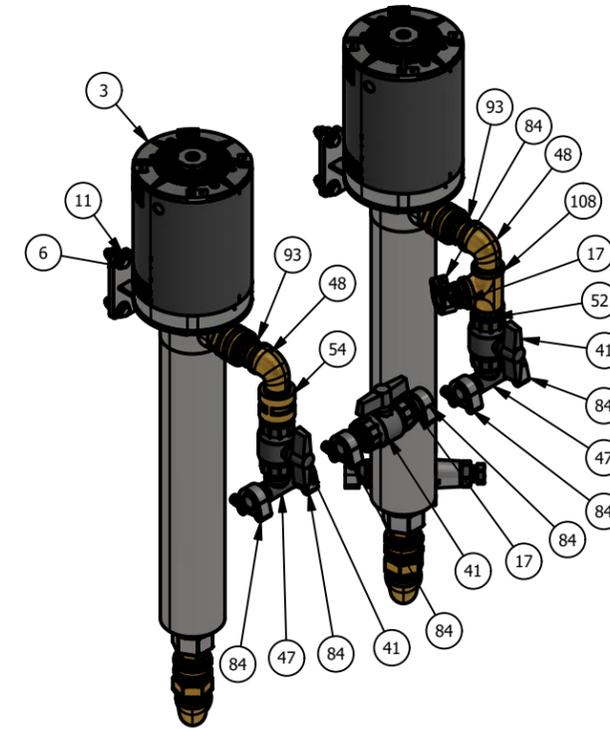
PART #: E-SE-HP-480-2020-1  
DESC: ALL-IN-ONE HIGH  
PRESSURE PUMP  
STATION, 6 POLE,  
2020  
MATL:



# WALL MOUNT PUMPS & FITTINGS



DETAIL B  
SCALE 1 / 10



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
3	2	E-HFI-224	20 GPM HYDRAFLEX BOOSTER PUMP
6	8	P-2000	3/8"-16 1-1/4" SS HEX CAP SCREW
7	8	P-2002	3/8"-16 SS NYLON LOCK NUT
11	16	P-C2147	FLAT WASHER 3/8"
17	4	P-SE-2120	1" MNPT x 1" BARB PVC
19	1	P-SE-2170	WARNER HYDRA CELL C23 50-500 PSI PRESSURE REGULATOR
41	3	P-WAT-2210	1" FNPT X 1" FNPT BALL VALVE - PVC
47	2	P-WAT-2247	1" MNPT x (2) 1" BARB T ADAPTER - PVC
48	4	P-WAT-2249	1" MNPT x 1" FNPT STREET ELBOW- BRASS
52	2	P-WAT-2257	1" MNPT CLOSE NIPPLE- PVC SCH. 80
54	1	P-WAT-2262	1" FNPT COUPLER - BRASS
57	2	P-WAT-2277	1" MNPT CLOSE NIPPLE - BRASS
58	2	P-WAT-2278	3/4" MNPT CLOSE NIPPLE - BRASS
60	1	P-WAT-2285	3/4" FNPT TEE - BRASS
70	1	P-WAT-2333	1" CLOSE NIPPLE X 1.5" LONG, SS SCH. 80
80	1	P-WAT-2388	2" FNPT X 2" MJIC ADAPTER - SS
81	1	P-WAT-2389	2" MNPT X 1" FNPT REDUCING BUSHING - SS
84	8	P-WAT-2418	T-BOLT HOSE CLAMPS, 1-1/2" HOSE - SS
85	2	P-WAT-2429	1" QUICK CONNECT FEMALE COUPLER W/ 1" MNPT
91	2	P-WAT-2473	1" FNPT x 1" FNPT Y STRAINER, BRASS
92	2	P-WAT-2474	1/4" MNPT LIQUID FILLED GAUGE, 400 PSI, 2.5" FACE
93	2	P-WAT-2476	1" MPT x 1" M QUICK DISCONNECT, BRASS
104	1	P-WAT-2623	1" MNPT x 3/4" FNPT REDUCER BUSHING, BRASS
105	1	P-WAT-2624	3/4" MNPT x 1/4" FNPT REDUCER BUSHING, BRASS
106	1	P-WAT-2625	3/4" FNPT ELBOW, BRASS
107	1	P-WAT-2626	3/4" MNPT x 3/4" MJIC ADAPTER, BRASS
108	2	P-WAT-2666	1" FNPT TEE FITTING - BRASS
111	1	P-WAT-2670	1" MNPT X 1/4" FNPT REDUCER BUSHING - BRASS

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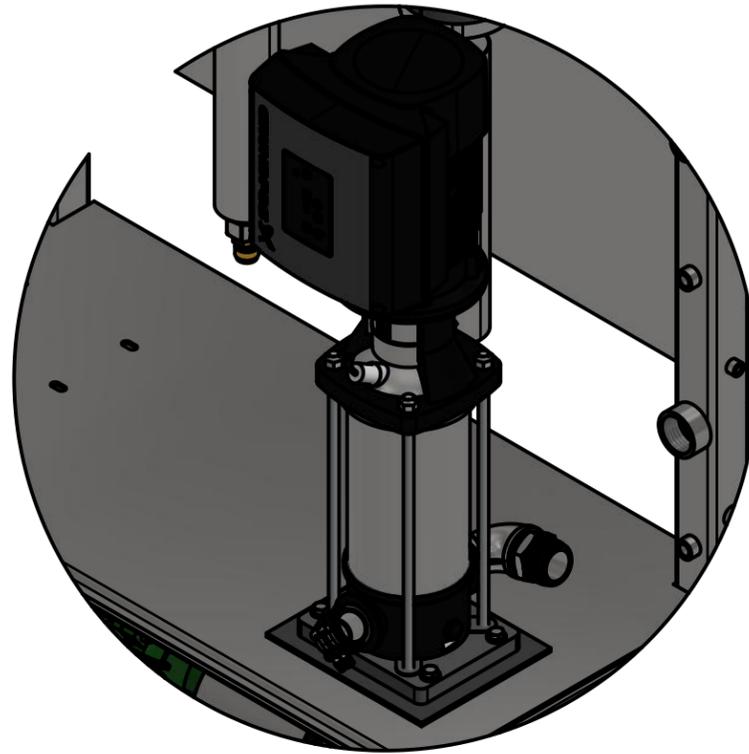
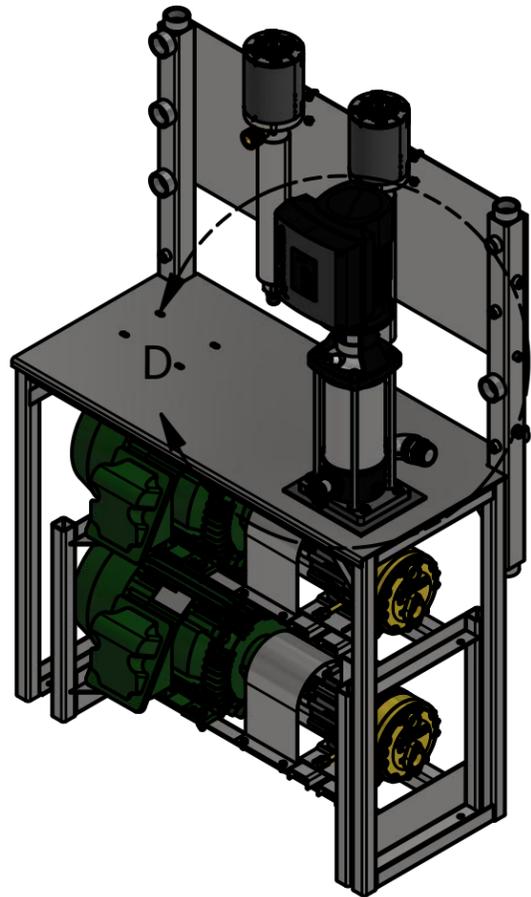


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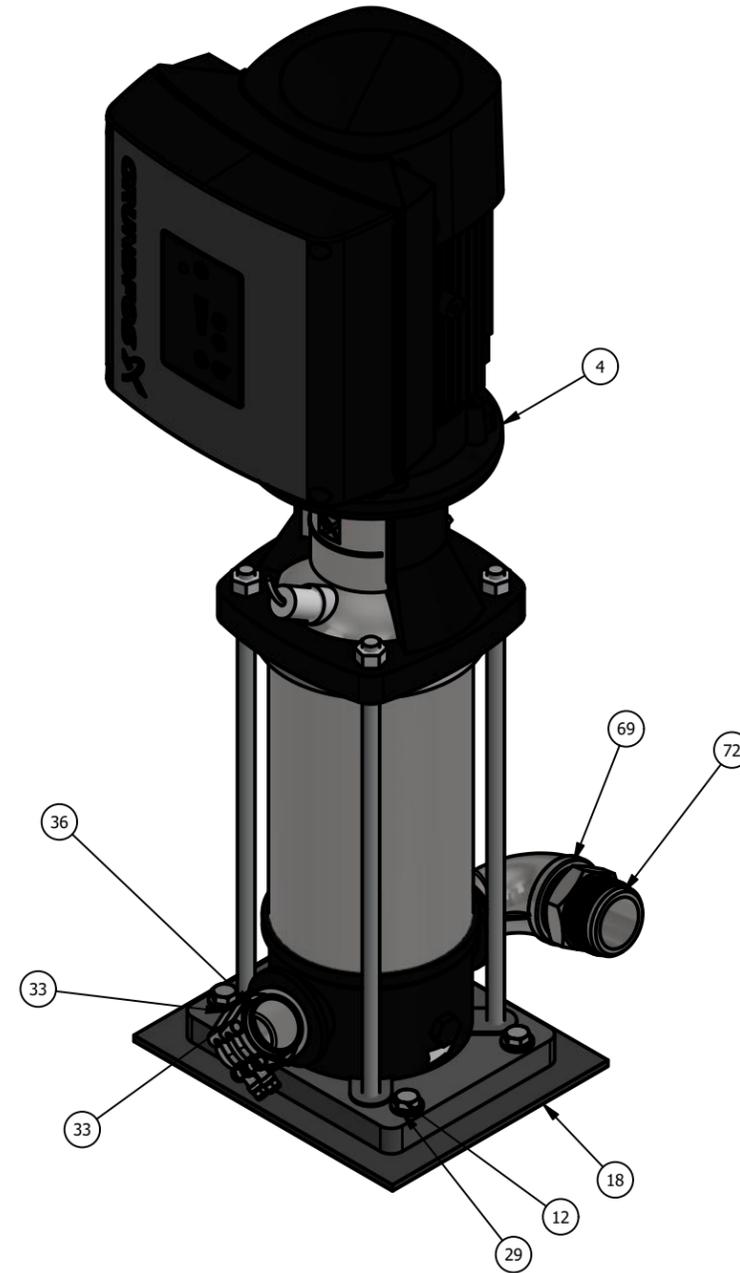
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DESC: ALL-IN-ONE HIGH  
PRESSURE PUMP  
STATION, 6 POLE,  
2020

PROJECT	SHEET
DATE	7
SCALE	1 / 25

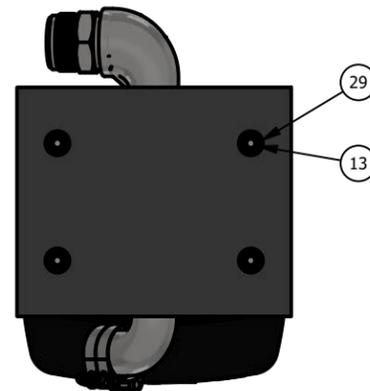
BOOSTER PUMP & FITTINGS



DETAIL D  
SCALE 1 / 10



ISO ISOLATED VIEW  
SCALE 1/6



BOTTOM ISOLATED VIEW  
SCALE 1/8

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
4	1	E-SE-BP-75-480	GRUNDFOS HP BOOSTER PUMP 7.5 HP 480V W/VFD
12	4	P-C2286	1/2"-13 X 2-1/2" BEARING BOLT - SS
13	4	P-M2018	NYLON LOCK NUT 1/2"-13
18	1	P-SE-2148	RUBBER VIBRATION DAMPNER PAD 10"x12"
29	8	P-SS-1047	1/2" X 1.062 OD GRADE 18-8 SAE FLAT WASHER, SS
33	2	P-VAC-2037	2.25" TO 2.56" SS T-BOLT CLAMP
36	1	P-WAT-2197	2" MNPT x 2" BARB ELBOW - SS
69	1	P-WAT-2327	2" MNPT x 2" FNPT STREET ELBOW - SS
72	1	P-WAT-2349	2" MNPT X 2" MJIC ADAPTER - SS

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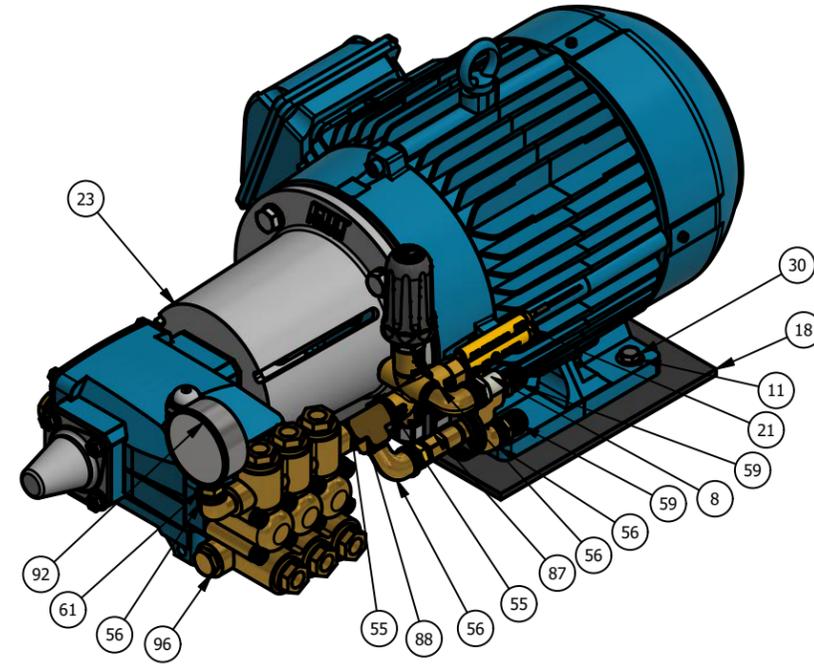
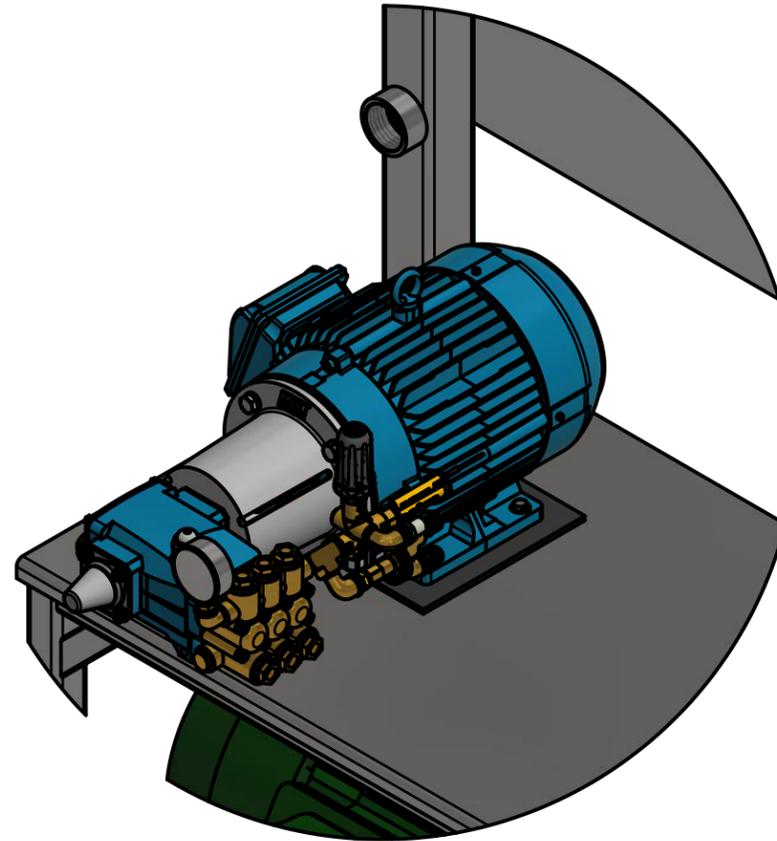
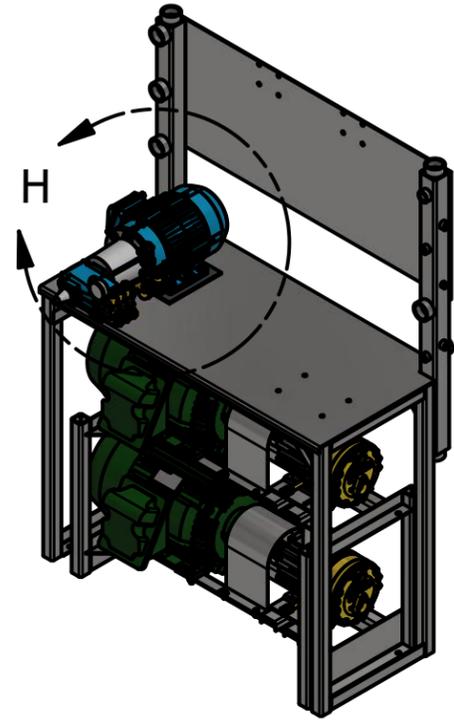


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XXX ± 0.005  
ANGLE ± 0.5°

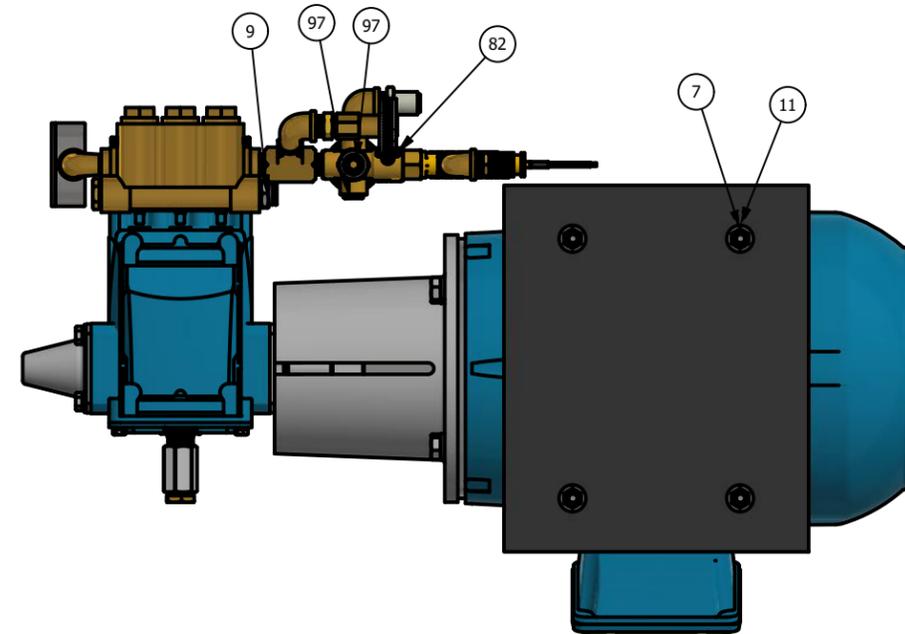
PART #: E-SE-HP-480-2020-1  
DESC: ALL-IN-ONE HIGH  
PRESSURE PUMP  
STATION, 6 POLE,  
2020  
MATL:

DATE: 9/24/2018  
SCALE: 1 / 20

# CAT PUMP ATTACHMENTS



DETAIL H  
SCALE 1/8



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
7	4	P-2002	3/8"-16 SS NYLON LOCK NUT
8	1	P-AIR-2023	3/8" MNPT x 1/2" QUICK CONNECT-LIQUIFIT
9	1	P-AIR-2155	1/2" MNPT x 1/2" QUICK CONNECT- NICKEL PLATED BRASS
11	8	P-C2147	FLAT WASHER 3/8"
18	1	P-SE-2148	RUBBER VIBRATION DAMPNER PAD 10"x12"
21	1	P-SE-PG-223	CAT PUMP FLOW SWITCH
23	1	P-SE-PG-2323	BAY WASH DOWN CAT PUMP ASSEMBLY 7.5HP W/ REGULATOR - NO STAND
30	4	P-SS-1072	3/8-16 X 1-3/4" HEX CAP SCREWS
32	5	P-VAC-2016	2.63" TO 2.94" SS T BOLT CLAMP
42	1	P-WAT-2213	2" MNPT PLUG - SS
50	1	P-WAT-2254	2" MNPT x 2" BARB- SS
55	3	P-WAT-2270	3/8" MNPT CLOSE NIPPLE - BRASS
56	4	P-WAT-2271	3/8" MNPT X 3/8" FNPT STREET ELBOW - BRASS
59	2	P-WAT-2283	3/8" MNPT x 1/2" MJIC- BRASS
61	2	P-WAT-2286	3/8" MNPT x 1/4" FNPT REDUCING BUSHING-BRASS
69	3	P-WAT-2327	2" MNPT x 2" FNPT STREET ELBOW - SS
82	1	P-WAT-2393	#20 3/4" TO 1-3/4" DIA HOSE CLAMP 9/16" W S/S
84	2	P-WAT-2418	T-BOLT HOSE CLAMPS, 1-1/2" HOSE - SS
87	1	P-WAT-2446	1/4" MNPT POP OFF VALVE 1000-3000, 6 GPM, BRASS
88	2	P-WAT-2455	3/8" FNPT TEE - BRASS
92	1	P-WAT-2474	1/4" MNPT LIQUID FILLED GAUGE, 400 PSI, 2.5" FACE
96	1	P-WAT-2484	1/2" PLUG, BRASS
97	2	P-WAT-2557	3/8" SOCKET HEAD PIPE PLUG, BRASS
98	3	P-WAT-2560	ASCO CONNECTOR CABLE 5J SERIES 20'

GENERAL NOTES  
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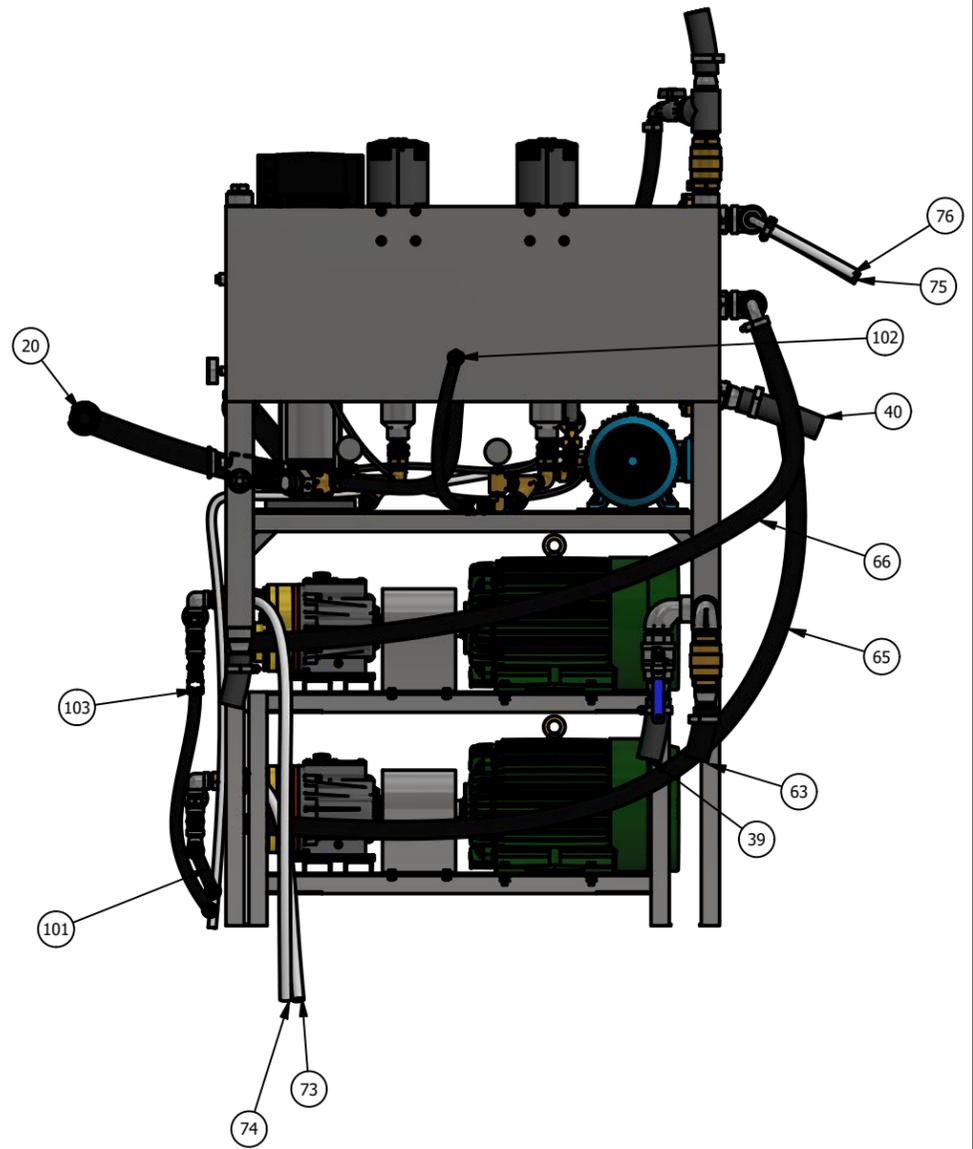
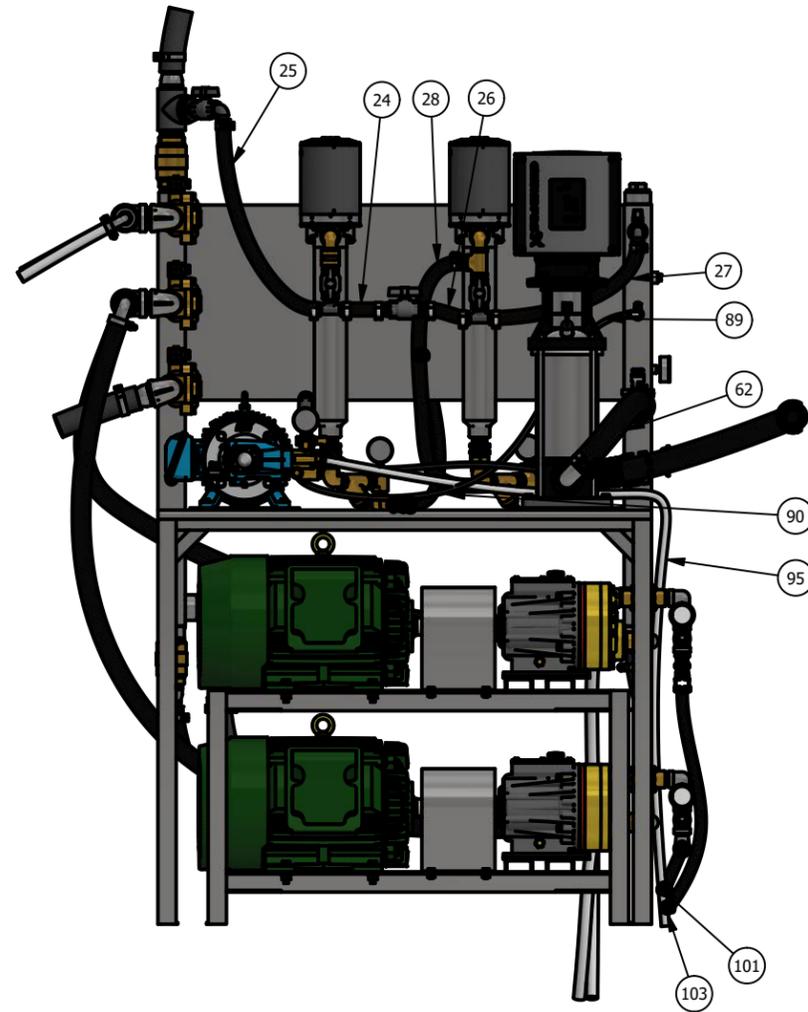
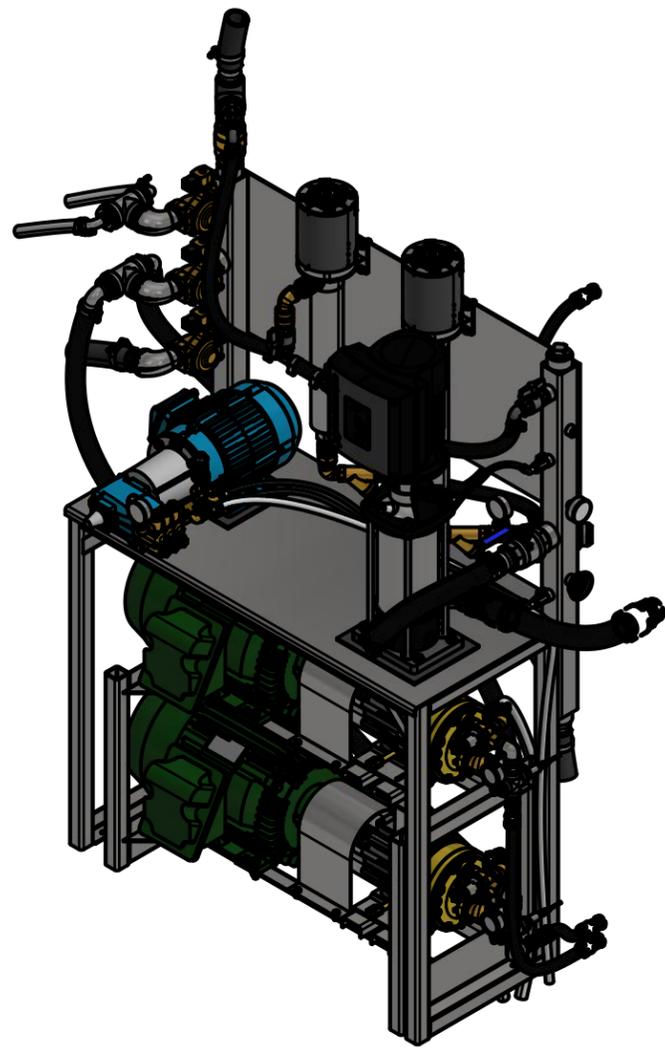
INITIAL RELEASE	9/24/2019
NO.	REVISION/ISSUE DATE



X ± 0.1  
 XX ± 0.01  
 XXX ± 0.005  
 ANGLE ± 0.5°

PART #: E-SE-HP-480-2020-1  
 DESC: ALL-IN-ONE HIGH  
 PRESSURE PUMP  
 STATION, 6 POLE,  
 2020  
 MATL:

PROJECT	SHEET
DATE	9/24/2018
SCALE	1 / 25
9	



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PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
20	3.750 ft	P-SE-HP-202	2" ID GRUNDFOS OUTPUT HOSE FOR ALL IN ONE PUMP STATION
24, 25, 26, 27, 28	10.000 ft	P-SPL-2129	1" PARKER GENERAL SERVICE AIR AND WATER HOSE, 200 PSI
37, 38, 39, 40	20.000 ft	P-WAT-2204	2" SUCTION HOSE (BLACK)
62, 63	15.000 ft	P-WAT-2300	PARKER E-Z FORM GENERAL SERVICE HOSE, 2"
65, 66	25.000 ft	P-WAT-2311	1.5" PARKER EZ FORM GENERAL SERVICE HOSE
73, 74, 75, 76	28.000 ft	P-WAT-2358	1" ID CLEAR POLYBRAID HOSE
89, 90	8.000 ft	P-WAT-2461	HIGH TEMP 1/2" NYLON TUBING - PER FT
95	9.000 ft	P-WAT-2483	REINFORCED POLYBRAID HOSE 5/8", PVC
101, 102	11.000 ft	P-WAT-2609	3/4" TOUGH COVER HOSE WITH SS FEMALE JIC END 66" LONG
103	7.000 ft	P-WAT-2611	3/4" TOUGH COVER HOSE WITH SS FEMALE JIC END 84" LONG

INITIAL RELEASE	6/24/2019
NO.	REVISION/ISSUE DATE



X ± 0.1  
 XX ± 0.01  
 XXX ± 0.005  
 ANGLE ± 0.5°

PART #: E-SE-HP-480-2020-1  
 DESC: ALL-IN-ONE HIGH PRESSURE PUMP STATION, 6 POLE, 2020  
 MATL:

PROJECT	SHEET
DATE	9/24/2018
SCALE	1 / 20