

**\*\*WRF #3 - Currently dose at .69 gallons per hour and use one 55-gal drum every 10 runs.\*\***

**7.3.1.3 Polymer Feed System**

The polymer feed system is comprised of the drum scale and polymer blend systems. The polymer blend system prepares the polymer solution for injection into the belt press feed line. The polymer is injected via the polymer injection ring. Additional information on the injection ring can be found in the belt filter press manufacturer's operation and maintenance manual.

**7.3.1.3.1 Technical Data  
Polymer Blend System**

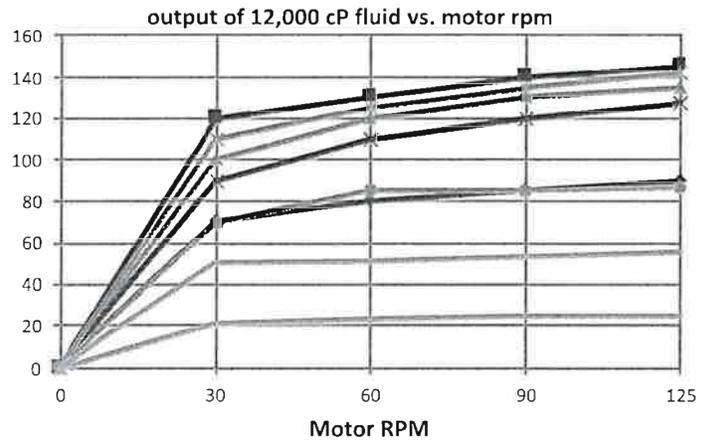
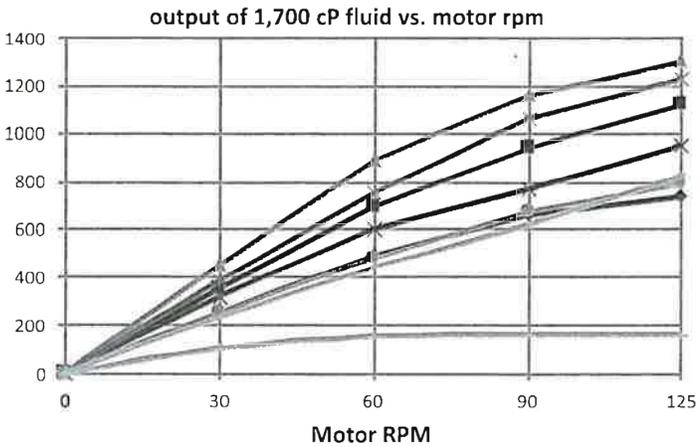
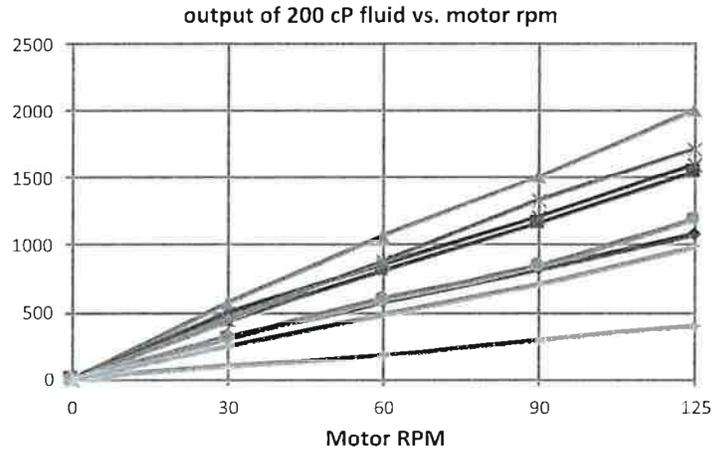
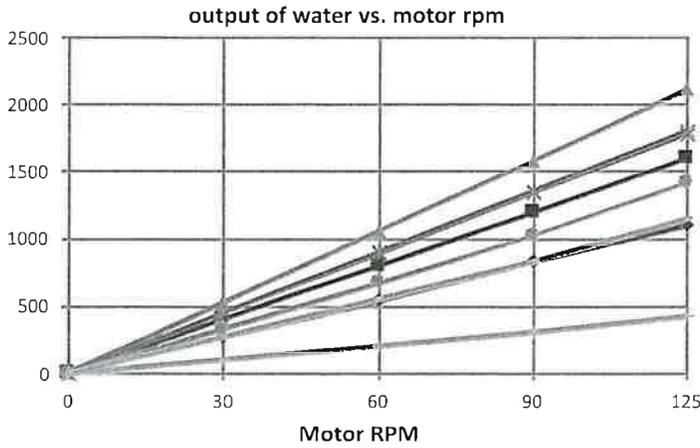
The technical data on the polymer feed systems is provided in the table below. Additional information is located in the manufacturer's operation and maintenance manual.

<b>Table 7.3-4</b>													
<b>Technical Data – BFP Polymer Blend System – M-8-1-1, M-8-1-2</b>													
<b>Manufacturer:</b>	U.S. Filter/Stranco												
<b>Model</b>	Polyblend M2400-D10AB												
<b>Fluid</b>	Emulsion Polymer												
<b>Material of construction</b>	Type 304 SST												
<b>Mixer Motor</b>	<table border="0"> <tr> <td style="padding-right: 20px;"><b>Manufacturer</b></td> <td>Baldor</td> </tr> <tr> <td style="padding-right: 20px;"><b>Model</b></td> <td>CWDL3509</td> </tr> <tr> <td style="padding-right: 20px;"><b>Horsepower</b></td> <td>1.0</td> </tr> <tr> <td style="padding-right: 20px;"><b>Type</b></td> <td>TEFC Washdown Duty</td> </tr> <tr> <td style="padding-right: 20px;"><b>Max RPM</b></td> <td>3450</td> </tr> <tr> <td style="padding-right: 20px;"><b>Volts/phase/hertz</b></td> <td>120/1/60</td> </tr> </table>	<b>Manufacturer</b>	Baldor	<b>Model</b>	CWDL3509	<b>Horsepower</b>	1.0	<b>Type</b>	TEFC Washdown Duty	<b>Max RPM</b>	3450	<b>Volts/phase/hertz</b>	120/1/60
<b>Manufacturer</b>	Baldor												
<b>Model</b>	CWDL3509												
<b>Horsepower</b>	1.0												
<b>Type</b>	TEFC Washdown Duty												
<b>Max RPM</b>	3450												
<b>Volts/phase/hertz</b>	120/1/60												
<b>Metering Pump</b>	<table border="0"> <tr> <td style="padding-right: 20px;"><b>Manufacturer</b></td> <td>BLUE - WHITE</td> </tr> <tr> <td style="padding-right: 20px;"><b>Type</b></td> <td>PERISTALTIC</td> </tr> <tr> <td style="padding-right: 20px;"><b>Model</b></td> <td>M3 FLEX FLO</td> </tr> <tr> <td style="padding-right: 20px;"><b>Capacity</b></td> <td>4.6 - 28.5 GPM</td> </tr> <tr> <td style="padding-right: 20px;"><b>Volts/phase/hertz</b></td> <td>120/1/60</td> </tr> </table>	<b>Manufacturer</b>	BLUE - WHITE	<b>Type</b>	PERISTALTIC	<b>Model</b>	M3 FLEX FLO	<b>Capacity</b>	4.6 - 28.5 GPM	<b>Volts/phase/hertz</b>	120/1/60		
<b>Manufacturer</b>	BLUE - WHITE												
<b>Type</b>	PERISTALTIC												
<b>Model</b>	M3 FLEX FLO												
<b>Capacity</b>	4.6 - 28.5 GPM												
<b>Volts/phase/hertz</b>	120/1/60												

<b>Maximum Working Pressure (excluding pump tubes)</b>	125 psig (8.6 bar)
	<b>NOTE:</b> See individual pump tube assembly maximum pressure ratings.
<b>Maximum Fluid Temperature (excluding pump tubes)</b>	185 °F (85 °C)
	<b>NOTE:</b> See individual pump tube assembly max. temperature ratings.
<b>Maximum Viscosity</b>	12,000 Centipoise
<b>Maximum Suction Lift</b>	30 ft. Water, 0 psig (9.14 m, 0 bar)
<b>Ambient Operating Temperature</b>	14 °F to 115 °F (-10 °C to 46 °C)
<b>Ambient Storage Temperature</b>	-40 °F to 158 °F (-40 °C to 70 °C)
<b>Operating Voltage</b>	115VAC/60Hz, 1ph (2.0 Amp Maximum)
	230VAC/60Hz, 1ph (1.0 Amp Maximum)
	220VAC/50Hz, 1ph (1.0 Amp Maximum)
	240VAC/50Hz, 1ph (1.0 Amp Maximum)
	230VAC/50Hz, 1ph (1.0 Amp Maximum)
<b>Power Cord Options</b>	115V60Hz = NEMA 5/15 (USA)
	230V60Hz = NEMA 6/15 (USA)
	220V50Hz = CEE 7/II (EU)
	240V50Hz = AS 3112 (Australia/New Zealand)
	230V50Hz = BS 1363/A (UK)
<b>Motor</b>	Brushless DC, 1/4 hp
<b>Motor Speed Adjustment Range</b>	10,000:1 (0.01% - 100% motor speed) Max RPM = 125
<b>Motor Speed Adjustment Resolution</b>	0.1% increments > 1% motor speed and < 100%
	0.01% increments < 1% motor speed
<b>Motor Accuracy</b>	+/- 0.5% of indicated RPM
<b>Pump Accuracy</b>	+/- 2% when calibrated for a specific tube at actual operating conditions
<b>Display</b>	5" touchscreen color LCD, UV resistant
<b>Display Languages</b>	English, Spanish, French, German, and Portuguese selectable
<b>Security</b>	Programmable 6-digit password
<b>Maximum Overall Dimensions</b>	8-1/4"W x 11-3/4"H x 13-1/4"D (20.9W x 29.8H x 34.5D cm)
<b>Product Weight</b>	25.4lb. (11.5 Kg)
<b>Approximate Shipping Weight</b>	30 lb. (13.6 Kg)
<b>Enclosure</b>	NEMA 4X (IP66), Polyester powder coated aluminum & Noryl
<b>RoHS Compliant</b>	Yes
<b>Standards</b>	cETLus, CE

2.1 OUTPUT VERSUS FLUID VISCOSITY

Fluid viscosity and motor RPM both have an effect on fluid output. For your reference the charts below display the various tubes we offer and their output at different viscosities and different motor RPM. All testing was conducted with a three foot suction lift.



- Tube Material
- ◆ MNH
  - MNJ
  - ▲ MNK
  - ✕ MTK
  - ✖ MGK
  - MNGG
  - ✦ MNEE

**3.1 Non-Wetted Components**

<b>Enclosure:</b> 413 Aluminum (Polyester powder coated) & Noryl
<b>Pump Head:</b> Valox® (PBT) thermoplastic
<b>Pump Head Cover:</b> Polycarbonate
Permanently lubricated sealed motor shaft support ball bearing.
<b>Cover Screws:</b> Stainless steel, polypropylene cap
<b>Roller Assembly:</b>
Rotor: Valox® (PBT)
Rollers: Nylon
Roller Bearings: SS Ball bearings
<b>Motor Shaft:</b> Chrome plated steel
<b>TFD System Sensor:</b> Hastelloy C-276
<b>Power Cord:</b> 3 conductor, SJTW-A water-resistant
<b>Tube Installation Tool:</b> GF nylon
<b>Mounting Brackets and Hardware:</b> 316 Stainless steel

**3.2 Wetted Components**

<b>Pump Tube Assembly:</b>
Tubing: Flex-A-Prene®, Flex-A-Chem® or Flex-A-Thane®
Adapter Fittings: PVDF
Flex-A-Prene®, Flex-A-Chem®, and Flex-A-Thane® tubing comply with FDA 21 CFR, 117.2600 criteria for food processing.
<b>Ancillary Items Not Included (sold separately):</b> Injection Fitting, Foot Valve/Strainer, Suction Tubing/Pipe, Discharge Tubing/Pipe, Quick Disconnect Valves, or Communications Wire/Cable.

FLEXFLO® M3

15.2 Tube Matrix

FLEXFLO® Tube Assembly Part Number

<b>A3</b>	Tubing (for use on A3, A3S, M3 or M3S pumps only)					
<b>Inlet/Outlet Connection Size, Connection Type, Connection Material</b>						
<b>S</b>	3/8" OD x 1/4" ID Tube Compression Fitting, Natural PVDF (Kynar)					
<b>M</b>	1/2" Male NPT Fitting, Natural PVDF (Kynar)					
<b>B</b>	1/2" Hose Barb, Natural PVDF (Kynar), available for ND, NEE, NGG, NKL and G2G only					
<b>C</b>	1/2" - 3/4" Tri-clamp connections, Natural PVDF (Kynar), available for ND, NEE, NGG, NKL and G2G only					
<b>Q</b>	Quick Disconnect, Natural PVDF (Kynar), available for ND, NEE, NGG, NKL, and G2G only (valves sold separately)					
<b>MB</b>	1/2" Male BSPT Fitting, Natural PVDF (Kynar)					
<b>Pump Tube Material, Pump Tube Size</b>						
<b>ND</b>	Flex-A-Prene® .075 ID	<b>NKL</b>	Flex-A-Prene® .375 ID	<b>G2G</b>	Flex-A-Thane® .187 ID (dual tube)	
<b>NEE</b>	Flex-A-Prene® .093 ID	<b>GE</b>	Flex-A-Thane® .125 ID	<b>TH</b>	Flex-A-Chem® .250 ID	
<b>NGG</b>	Flex-A-Prene® .187 ID	<b>GG</b>	Flex-A-Thane® .187 ID	<b>TK</b>	Flex-A-Chem® .375 ID	
<b>NHL</b>	Flex-A-Prene® .250 ID	<b>GH</b>	Flex-A-Thane® .312 ID			
<b>NK</b>	Flex-A-Prene® .375 ID	<b>GK</b>	Flex-A-Thane® .375 ID			
<b>A3</b>	-	<b>S</b>	<b>ND</b>	-	<b>T</b>	Sample Model Number

Output Specifications

Tube Material / Size	Feed Rate			Max Speed	Max Pressure	Max Temperature
	GPH	LPH	mL/Min	RPM	PSI (bar)	°F (°C)
<b>Flex-A-Thane® Tube</b>						
GE	Up to 4.60	Up to 17.4	Up to 290	125	65 (4.5)	130 (54)
GG	Up to 10.1	Up to 38.4	Up to 637	125	65 (4.5)	130 (54)
G2G	Up to 18.23	Up to 69.0	Up to 1150	125	65 (4.5)	130 (54)
GH	Up to 24.9	Up to 94.2	Up to 1570	125	65 (4.5)	130 (54)
GK	Up to 28.5	Up to 108	Up to 1800	125	65 (4.5)	130 (54)
<b>Flex-A-Prene® Tube</b>						
ND	Up to 2.10	Up to 7.92	Up to 132	125	125 (8.6)	185 (85)
NHL	Up to 17.4	Up to 65.8	Up to 1097	125	65 (4.5)	185 (85)
NK	Up to 33.3	Up to 126	Up to 2100	125	125 (8.6)	185 (85)
NKL	Up to 33.3	Up to 126	Up to 2100	125	30 (2.1)	185 (85)
NEE	Up to 4.76	Up to 18.0	Up to 300	125	110 (7.6)	185 (85)
NGG	Up to 19.0	Up to 72.0	Up to 1200	125	110 (7.6)	185 (85)
<b>Flex-A-Chem® Tube</b>						
TH	Up to 15.1	Up to 57.0	Up to 950	125	50 (3.4)	130 (54)
TK	Up to 28.5	Up to 108	Up to 1800	125	50 (3.4)	130 (54)