Blue-White®

CFPS-3

CHEM-FEED® Plastic Triplex Skid System

Features

> Chemically resistant polyethylene structure
> Leak free, threadless connections
> Pressure Relief Valve protects the system from over-pressurization
> Check Valve protects the user from back-flow
> Flow Indicator provides a visual indication of chemical movement

Video link:

Highlights

Piping
PVC Schedule 80 (optional CPVC, PVDF, and Chem Proline® PE)

Pressure
150 PSI (10.3 bar)

Compatibility
A1, A2, A3, A4, CD1, C2, C3, CD3

Frame material
Polyethylene

Mounting position
Floor or wall

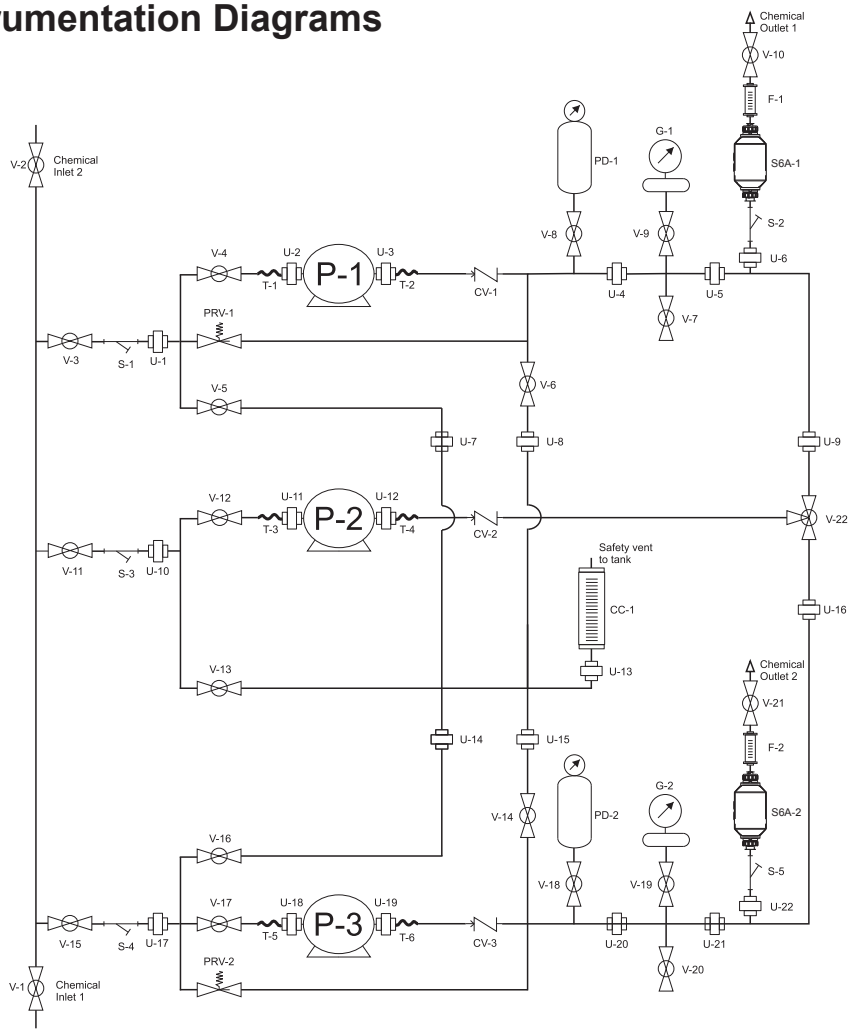
Warranty
2 Years

For more help and information regarding **CFPS-3**, please visit www.blue-white.com or scan this QR code.

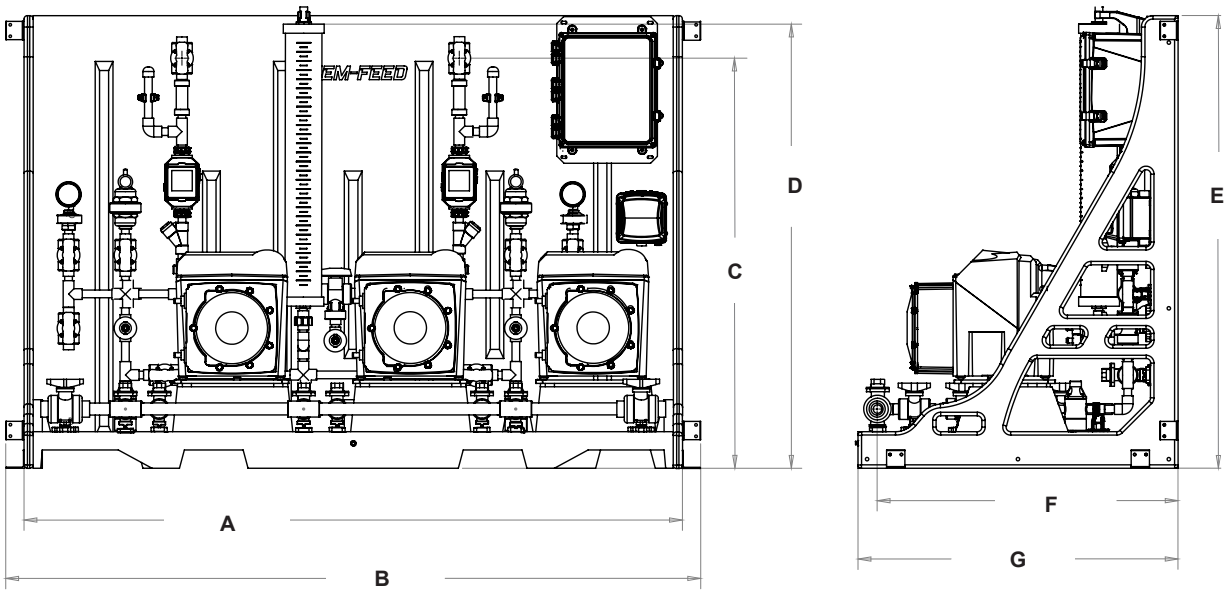
Engineering Specifications

Skid	Chemically resistant polyethylene structure
Pump (sold separately)	FLEXFLO® A1, A2, A3 or A4 peristaltic pumps
	CHEM-FEED® CD1, C2, C3 or CD3 diaphragm pumps
Piping	1” Inlet & 1/2” outlet PVC schedule 80 (optional CPVC, PVDF, Chem Proline®)
Seals	FKM seals (optional EPDM)
Tubing (T)	Reinforced braided PVC, 200 psi max, certified NSF 51 / NSF 61. The pump inlet and outlet flexible tubing connections are terminated to half unions and secured to the barbed fitting with stainless steel clamps. (Optional: 1/2” PTFE, 1/4” PE, 1/4” PTFE)
Tubing Clamps	300 series SS band, 400 series SS screw
Unions (U)	PVC body, schedule 80 (optional CPVC, PVDF)
Ball Valves (V)	True unions, Vented, PVC body, PTFE shaft bearings and seats (optional CPVC, PVDF)
Pressure Relief Valve (PRV)	PVC body, PTFE primary diaphragm seal. Non-wetted components: EPDM secondary seal, zinc plated steel spring, stainless steel external hardware, HDPE pressure adjustment screw. Infinite adjustment from 10-150 psi. (optional CPVC, PVDF)
Calibration Cylinder (CC)	PVC body, PVC end caps, 1/2” PVC pipe outlet vent Available volumes: 3 GPH (100ml), 8 GPH (250ml), 16 GPH (500ml), 32 GPH (1000ml), 64 GPH (2000ml), and 132 GPH (4000mL).
Pulsation Dampener (PD)	CPVC body,10 cubic inch volume (optional PVDF)
Gauge W/Guard (G)	Gauge: liquid filled stainless steel with blowout plug, bottom mount, 1/4” NPT theads. Available pressure ranges: 0-30 psi, 0-100, psi, 0-200 psi. Guard: PVC body, temperature compensated oil filled. (optional CPVC, PVDF)
Check Valve (CV)	PVC body. Cracking pressure: 1.0-1.5 psi Maximum working pressure: inlet = 150 psi, back = 100 psi (optional CPVC, PVDF)
Flow Indicator (F)	Machined cast acrylic, PVC connections, ceramic ball, PVDF ball stop, PVC half unions
Flow Sensor (MS6)	PVDF and PEEK Body. Available Flow Ranges: 10 - 5,000 ml/min, 100-10,000 ml/min
Y Strainer (S)	PVC body, 1/32” Mesh (optional CPVC, PVDF)
Pressure Switch (PSH)	316 Stainless Steel
Back-Pressure Valve (BPV)	PVC body, 0-150 PSI Range (optional CPVC, PVDF)
Universal Mounting Blocks	PA 12
Pump Extended Mounting Brackets	316 Stainless Steel
Skid Mounting Foot Pads	316 Stainless Steel
Mounting Hardware	304 Stainless Steel - Floor mounting only acceptable
Maximum Working Pressure	150 psig (10.3 bar)
Operating Temperature	14 °F to 115 °F (-10 °C to 46 °C)
Containment Volume	3.2 gal (12.46L) - Integral to skid. 1/4” FNPT drain port.
Maximum Overall Dimensions	72”W x 49.50”H x 35.0”D (82.88W x 125.73H x 88.90D cm)
Approximate Shipping Weight	Standard: 200 lb. (91 Kg) with mounted pumps: 240-380 lbs (172 Kg)

Piping and Instrumentation Diagrams



Dimensions



Dim	Inch	cm
A	72.00”	182.88
B	76.00”	193.04
C	44.85”	113.92
D	48.57”	123.37

Dim	Inch	cm
E	49.50”	125.73
F	32.91”	83.59
G	35.00”	88.90

Model Number Matrix

CHEM-FEED® Triplex Skid System Matrix - Industrial

CFPS-3	Triplex pump system - PE structure

Inlet/Outlet

A	Single Inlet / Dual Outlet
B	Single Inlet / Triple Outlet
X	None, Skid Panel Only

Piping/Unions

A	PVC	**B**	CPVC	**C**	PVDF	**D**	Chem Proline®

Seals

V	FKM	**E**	EPDM

Tubing Connections (Verify tubing connection matches pump outlet when ordering)

A	1/2" ID PVC Braided	**B**	1/2" ID PTFE	**C**	1/4" ID PE	**D**	1/4" ID PTFE

Calibration Column

A	128 GPH (4000 mL) PVC	**F**	3 GPH (100 mL) PVC
B	64 GPH (2000 mL) PVC	**P**	32 GPH (1000 mL) Glass
C	32 GPH (1000 mL) PVC	**Q**	16 GPH (500 mL) Glass
D	16 GPH (500 mL) PVC	**R**	6 GPH (200 mL) Glass
E	8 GPH (250 mL) PVC	**S**	3 GPH (100 mL) Glass

Pulsation Dampener (Two dampeners provided)

P	10 cubic in	**X**	Not Included

Back Pressure Valve

B	Included	**X**	Not Included

Pressure Gauge w/Guard

A	200 PSI	**B**	100 PSI	**C**	30 PSI

Pressure Switch w/Guard

S	Included	**X**	Not Included

Flow Meter w/Strainer

A	10-5000 mL/m	**B**	100-10000 mL/m
X	Not Included		

Terminal Box

TA	A3S/A4S/CD3S	**TD**	A3/A4/CD3 (Legacy)
TB	A1/CD1	**X**	Not Included
TC	A2/C2/C3		

Pumps

P	Mounted*	**X**	**Not Included**

*reference Adapter Kits Sheet 85000-198 when ordering with pumps utilizing "M = 1/2"MNPT " or "F = 1/2"FNPT" connections.

CFPS-3	**I**	**A**	**A**	**V**	**A**	**-**	**A**	**P**	**B**	**A**	**S**	**A**	**TA**	**P**	**Sample Model Number**

NOTE: When ordering pumps for skids, pump head orientation is standard LEFT facing only. When ordering skid with pumps of different model numbers, please include complete model number of each pump and location on skid with order. Contact factory for quote/pricing on 5-point performance testing. **Customer is responsible for ensuring skid components are compatible with any chemicals being used.**

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