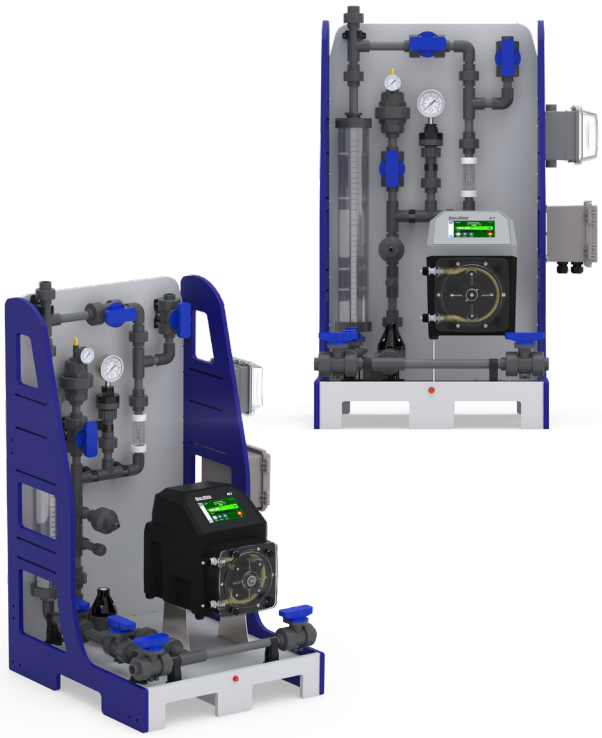
Blue-White®

CFCS-1

CHEM-FEED® Compact Single Skid System



Features

> The pre-fabricated design allows for easy installation
> Strong, lightweight polyethylene structure
> Compact design fits into small spaces
> Dual side inlets enable connection of multiple skids to the same inlet
> Unions used for simple component replacement
> Flow Indicator provides a visual indication of chemical movement
> Built-in fluid containment

Highlights

Piping
PVC Schedule 80
(optional CPVC)

Pressure
150 PSI
(10.3 bar)

Compatibility
A1/M1, A2/M2, A3/M3, A4/M4, C2/C3, CD1/MD1, CD3/MD3

Frame material
Polyethylene

Mounting position
Floor or wall

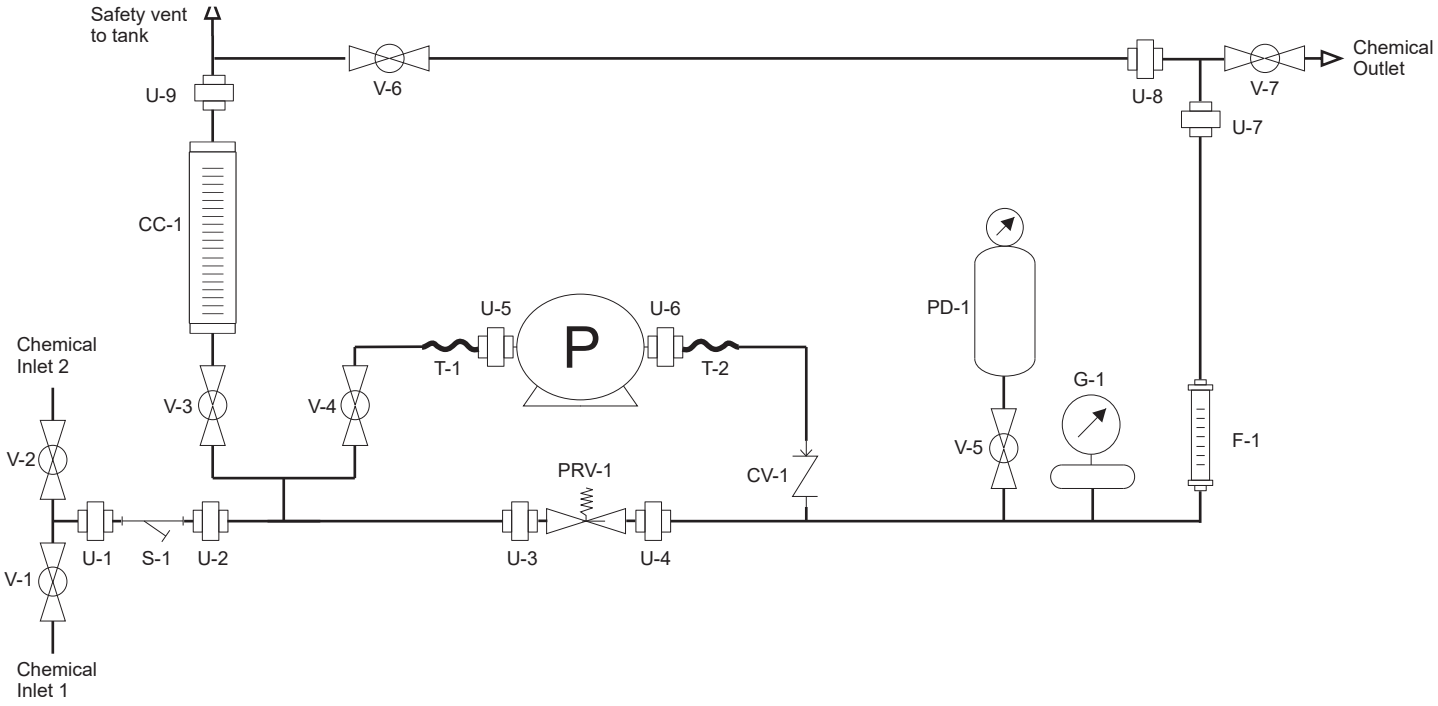
Warranty
2 Years

For more help and information regarding **CFCS-1**, please visit www.blue-white.com or scan this QR code.
If a standard skid does not meet all of your requirements, visit our Custom Skids page for assistance.

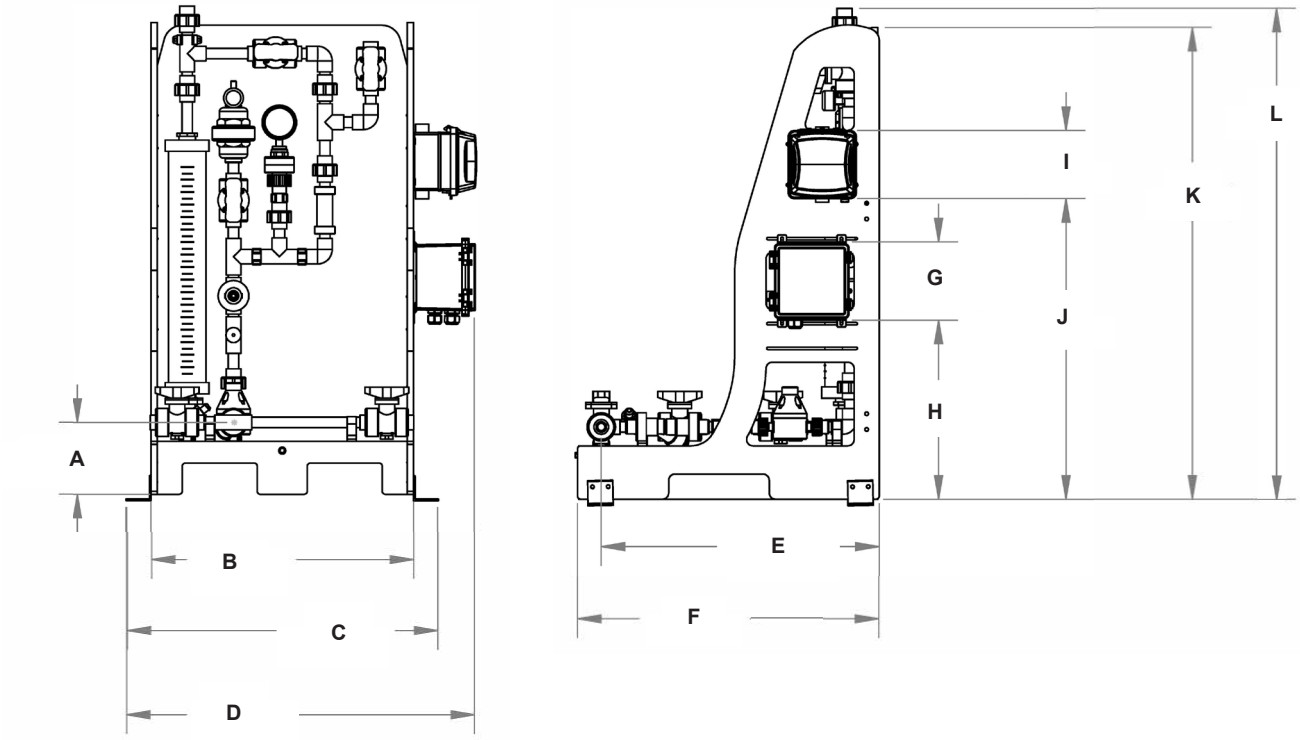
Engineering Specifications

Skid	Chemically resistant polyethylene structure.
	Welded joint construction
Pump (sold separately)	FLEXFLO® A1/M1, M1/M2, A3/M3 or A4/M4 peristaltic pumps
	CHEM-FEED® CD1/MD1, C2, C3, or CD3/MD3 diaphragm pumps
Piping	PVC Schedule 80 (optional CPVC)
Seals	FKM (optional EPDM)
Tubing (T)	Reinforced braided 1/2” PVC, 200 psi max, certified NSF 51 / NSF 61, or 1/2” PTFE, or 1/4” PE, or 1/4” PTFE. The pump inlet and outlet flexible tubing connections are terminated base on type of pump provied. Refer to Adapter Kits sheet 85000-198.
Tubing Clamps	300 series SS band, 400 series SS screw
Unions (U)	PVC body, schedule 80 (CPVC optional)
Ball Valves (V)	Vented ball, True unions, PVC body, PTFE shaft bearings and seats (CPVC optional)
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 adjusting screw and locknut. Infinite adjustment from 10-150 psi. Maximum inlet pressure 150 psi. (CPVC optional)
Calibration Cylinder (CC)	PVC body, PVC end caps, 1/2” ID PVC pipe outlet vent. Available volumes: 3 GPH (100ml), 8 GPH (250ml), 16 GPH (500ml), 32 GPH (1000ml). 64 GPH (2000ml). (Glass optional - except 2000ml)
Pulsation Dampener (PD)	CPVC body,10 cubic inch volume, FKM bladder (optional EPDM bladder)
Gauge W/Guard (G)	Gauge: liquid filled stainless steel with blowout plug, bottom mount, 1/4” NPT threads. Available pressure ranges: 0-60 psi, 0-160, psi, 0-300 psi. Guard: PVC body w/union, PTFE diaphragm seal, temperature compensated oil filled.
Check Valve (CV)	PVC body, FKM diaphragm (optional EPDM). Cracking pressure: 1.0-1.5 psi. Maximum working pressure: inlet = 150 psi, back = 100 psi. (CPVC optional)
Flow Indicator (F)	Machined cast acrylic, PVC or CPVC connections, ceramic ball, PVDF ball stop, Poly-pro half unions.
Y Strainer (S)	PVC body (CPVC optional)
Universal Mounting Blocks	PA12
Pump Extended Mounting Brackets (not included)	316 Stainless Steel
Skid Mounting Foot Pads	316 Stainless Steel
Mounting Hardware	18-8 Stainless Steel
Drip Containment	Integral - 1” deep - 1.8 gallons (6.8 L) total containment
Maximum Working Pressure	150 psig (10.3 bar)
Operating Temperature	14 °F to 115 °F (-10 °C to 46 °C)
Approximate Shipping Weight	300 lb. (135 Kg)
Approximate Shipping Dimensions	48” x 42” x 64” (Pumps ship separately)

Piping and Instrumentation Diagrams



Dimensions



Dim	Inch	cm
A	5.75”	14.60
B	21.00”	53.34
C	24.88”	63.20
D	27.86”	70.76

Dim	Inch	cm
E	22.11”	56.16
F	24.00”	61.00
G	6.24”	15.85
H	14.24”	36.17

Dim	Inch	cm
I	5.42”	13.77
J	23.92”	60.76
K	37.53”	95.33
L	39.05”	99.20

Model Number Matrix

CHEM-FEED® Compact Skid System Matrix - Simplex

CFCS-1 | **X** | Single pump system - single chemical / single outlet - PE structure

Inlet/Outlet

A	Single Inlet / Single Outlet
X	None, Skid Panel Only

Piping/Unions

A	PVC	**B**	CPVC	

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

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
F	3 GPH (100 mL) PVC		

Pulsation Dampener

P	10 cubic in	**X**	Not Included
X	Not Used		

Pressure Gauge w/Guard

A	300 PSI	**B**	160 PSI	**C**	60 PSI
X	Not Used				
X	Not Used				

Terminal Box - Includes mounted 120VAC/20A receptacle kit.

TA and TB boxes include M12 cables to connect to pump.
TC box includes shielded cable and conduit to connect to pump.

TA	S Series Pumps	**TC**	**A2/M2/C2/C3**
TB	1 Series Pumps	**X**	Not Included

Pump

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.

CFCS-1	X	A	A	V	A	-	B	P	X	A	X	X	TA	P	**Sample Model Number**

NOTE: When ordering pumps for skids, pump head orientation is standard LEFT facing only. All skids are pressure tested prior to shipment. Pumps are purchased and shipped separately. Contact factory for quote/pricing on 5-point performance testing.

Customer is responsible for ensuring skid components are compatible with any chemicals being used.

NOTE: All skid systems ship with the following in/out union connections: ½" slip glue (material same as skid piping.).

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