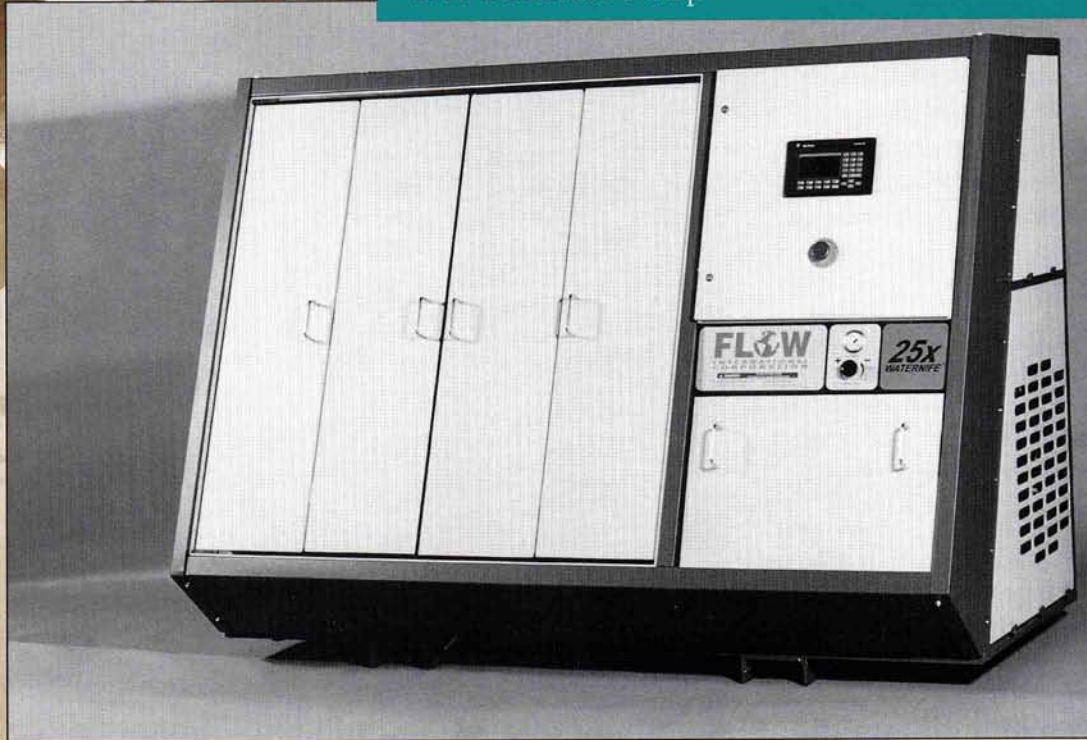


FLOW

A single 25X pump is powerful enough to drive virtually any production cutting or cleaning application, eliminating the need for multiple pumps.

25X Intensifier Pump



Standard Features:

- Available in 150 and 200 HP models
- Extended Seal Life (ESL), electronic-shift intensifiers
- Code-compliant attenuator
- Reliance motor
- Dennison hydraulic pump
- Allen Bradley PLC control with optional data highway capabilities
- Ergonomic packaging and intensifier placement

Benefits:

- High pressure, high flow rates for production applications
- ESL provides at least 50 percent longer seal life than previous models
- Accurate stroke rate and count for easier troubleshooting and predictable maintenance cycles
- Safe work environment
- High quality components field-proven for high volume applications
- Automated control monitors all pump functions
- Optional communication capabilities throughout shop floor

Latest Extension to FLOW Pump Line

The 25X is the newest member of FLOW's line of ultrahigh-pressure (UHP) intensifier pumps. Like other FLOW pumps, the 25X is based on technology that is field-proven with more than 4,000 pumps installed worldwide, logging more than 40 million working hours. The 25X features the latest technical advancements and sensory equipment for optimal performance, reliability and easy, predictive maintenance.

More Power for High-Production Applications

High pressure, horsepower and water flow rates make the 25X ideal for waterjet and abrasive waterjet cutting and cleaning applications involving multiple heads or large cleaning nozzles. Driven by a powerful 150 or 200 horsepower motor capable of delivering up to 3.6 gallons per minute (gpm) at 55,000 psi, a single 25X is often the only pump needed for production applications, replacing several lower horsepower pumps.

Reduce Maintenance Requirements with Extended Maintenance Cycles

The 25X is designed to produce high quality parts fast. The pump is equipped with FLOW's new ESL Intensifier that increases uptime by more than 50 percent and reduces operating costs. FLOW's patented intensifier design and large-volume attenuator provide excellent pressure stability at the nozzle. The pump automatically compensates for variable demand with minimal pressure decrease or spikes, dramatically extending component life.

Reliable and Safe

FLOW's patented designs and dedication to technology advancements mean FLOW pumps perform better for longer periods of time than any other ultrahigh-pressure pump. FLOW uses only premium quality components in its intensifier pumps. Every component found in a FLOW pump meets or exceeds all current and known future safety requirements.

25X Components

ESL (Extended Seal Life) Intensifiers

Ceramic Plunger - New ceramic plungers are made from advanced, proprietary materials. Ceramic material changes the dynamics of how the plunger passes through the high pressure seal, minimizing seal wear and increasing seal life at least 50 percent.

Electronic Shift

Uses proximity switches to switch the spool valve and control intensifier stroking. Stroke counting and rate capabilities allow easy and predictive maintenance.

Attenuator

Our large volume attenuator dampens pressure fluctuations and spikes. Assures better, more consistent cutting and longer component life. The only attenuator in the industry that meets all current and known future safety requirements, with its leak before fail design.

Power Supply

Reliance motor - High quality motor with broad market acceptance.

Dennison hydraulic pump

Proven design for high volume applications.

Water Supply

Dual bank filters - Filter inlet water to 1.0 & .45 micron.

Switch between filter banks without stopping pump.

Automatic filtered water shut off - Solenoid shuts off water to filters when pump is stopped. Reduces premature clogging and water waste.

Built-in, belt driven booster pump - Delivers a constant supply of filtered water to intensifiers. No external booster or motor starter required.

Pressure Controls

Redundant pressure safety valves - Provides positive over pressurization protection for safe operation and longer component

25X Specifications

Performance

25X Triple Intensifier

Pressure (psi) [bar]	40,000 [2720]	25XT-40	25XT-55
Ratio	13:1		

Maximum continuous operation

Output flow rate (gpm) [lpm]	4.71 [17.8] at 60 Hz	3.00 [11.37] at 60 Hz
	4.71 [17.8] at 50 Hz	3.00 [11.37] at 50 Hz
Orifice diameter (in) [mm]	0.031 [0.787] at 60 Hz	0.024 [0.610] at 60 Hz
	0.031 [0.787] at 50 Hz	0.024 [0.610] at 50 Hz
Operating sound level	≤85 db(A)	≤85 db(A)

25X Quad Intensifier

Pressure (psi) [bar]	40,000 [2720]	25XQ-40	25XQ-55
Ratio	13:1		

Maximum continuous operation

Output flow rate (gpm) [lpm]	5.65 [21.4] at 60 Hz	3.60 [13.64] at 60 Hz
Orifice diameter (in) [mm]	0.036 [0.914] at 60 Hz	0.027 [0.686] at 60 Hz
Operating sound level	≤85 db(A)	≤85 db(A)

Equipment

Intensifier II

Type.....	ESL
Design.....	Double acting
Shift type.....	Electronic

Hydraulic system

Reservoir volume.....	33 gallons [125 liters]
Cooling system.....	Oil to water heat exchanger
Filtration.....	Dual filters
Pump.....	Dennison
Displacement.....	14.0 in ³ [230 cm ³]
Attenuator size.....	124 in ³ [2032 cm ³]

Electric Motors Available[†] ††

	50 Hz	60 Hz
25XT 150 HP [112 kW]		
Voltage (VAC) ^{††}	190/200/380/415	200/230/460/575
Current (Full load amps)	468/444/231/213	468/384/192/153
25XQ 200 HP [150 kW]		
Voltage (VAC) ^{††}	200/230/460/575	
Current (Full load amps)	542/472/336/184	

General

Pumped fluid.....	Water
Inlet water pressure*	10 psi [.75 bar]
Weight.....	25XT 6975 lbs [3166 kg].....25XQ 7800 lbs [3541 kg]
Overall dimensions.....	97 x 62 x 72 inches [246 x 157 x 183 cm]

*See inlet water quality data sheet

[†]Starter available from FLOW as an option

^{††}Electric motors configured for other voltages are available

life without uncalibrated, fatigue-susceptible rupture disks.

Automatic bleed down

Discharges pressure from system when pump is shut down. Ensures safe operation.

Slow start - Eliminates pump cavitation at start up for longer component life.

Operator Panel

Allen Bradley PLC Controller - Controls and monitors all functions of pump.

Single knob pressure control adjustment - Adjusts water pressure from 10,000 psi to

55,000 psi on 55,000 psi pump.

Emergency stop button

Disables all functions and electrical power to pump.

Sensors

- Stroke counting
- Stroke rate
- Oil temperature
- Oil level
- Check valve over temperature warning
- Low inlet water pressure warning and shutdown

Flow International Corporation

is the world leader in the development and manufacture of ultrahigh-pressure waterjet cutting and cleaning systems, and a leading provider of robotics and assembly equipment. FLOW provides technologically advanced, environmentally sound solutions to the manufacturing and industrial cleaning markets.

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