

H2O JETTM

Advantage UHP Pumps

Merging innovative ideas with real world demands



H2O Jet continues to set the standard with the **Advantage** UHP pump series. This industrial workhorse provides the best solution to your waterjet needs. The Advantage Pump maintains maximum pressure and flow rate with the lowest pressure fluctuation throughout the complete ultra high pressure range of cutting parameters. This insures minimum downtime and increases productivity.

The **Advantage** is ideal for both water-only and abrasive waterjet cutting applications. The operator friendly features provide real time diagnostics; quiet operation and easy access to all internal pump components, and the intensifiers are mounted at tabletop height for ease of maintenance.



Advantage Pump Features:

- 1) Six models supporting orifice sizes up to .025"
- 2) Up to two gpm flow rate at 60,000 psi
- 3) Ergonomic, accessible design with removable doors and covers, **tabletop intensifier height**
- 4) Constant maximum pressure with minimum pressure fluctuation
- 5) Quiet operation, less than 80 dB
- 6) User friendly operator interface with touch-screen controls and diagnostics
- 7) Motor Starter included (Optional Wye-Delta)
- 8) **Superior Reliability**

INTENSIFIER MODELS:

- H100D:** Dual intensifier, 60K and 40K psi
100 hp motor
- H50R:** Redundant, two intensifiers, 60K and 40K psi
50 hp motor
- H50S:** Single intensifier, 60K and 40K psi
50 hp motor

Additional Options:

Electric or Mechanical Shift intensifiers
Remote Control with Start-Stop, High-Low Pressure
and E-Stop features

ERGONOMIC DESIGN

- * Designed for maintenance accessibility
- * Forklift ports on front, rear and sides
- * Drip pan collects and transfers any leak to a removable reservoir
- * Sealed base captures up to 30 gallons in case of a major oil spill
- * Covers swing open with lift-off hinges for easy, unobstructed access
- * Rugged powder-coated finish on frame and covers for lasting durability

QUIET OPERATION

- * Sound dampening insulation on all doors and panels
- * Less than 80 dB
- * Motor and pump unit is mounted on sound/vibration isolation bars

ATTENUATOR

- * Large 135 cu. in. volume minimizes pressure spikes
- * Mounted in sound-dampening brackets
- * Minimizes pressure fluctuations at the cutting head
- * Provides consistent jet stream flow
- * Enhances crisp, clean cuts for high quality results
- * Adds life to downstream, fatigue prone components

HYDRAULICS

- * Variable displacement, pressure-compensated axial piston pump
- * Oil recirculation pump continuously cycles oil through the filter and high efficiency heat exchanger
- * Oversized suction and pressure lines for increased oil flow with less pressure drop
- * Large 80 gallon reservoir enhances the life of the operating oil

CONTROLS

- * Automatic **resettable** stroke counters provide precise information for performance analysis
- * Allen Bradley PLC Controller
- * Touch screen operator interface
- * Diagnostic messaging provides continual monitoring of all critical operating parameters
- * Electronic Pressure Control

WATER

- * Custom dual-filtration manifold
- * **Stainless steel** water booster pump
- * Automatic high pressure water bleed down

Designed for maintenance accessibility with lift-off sound dampening covers



Unique "Tabletop" intensifier height for greater safety and efficiency.



Only 33" from floor to intensifiers

SPECIFICATIONS

Model Intensifiers	H100D Dual	H50S or R Single or Redundant
Maximum Operating Pressure	60,000 psi (4150 bar)	60,000 psi (4150 bar)
Flow Rate	2 gpm (7.6 l/min)	1 gpm (3.8 l/min)
Maximum Orifice Size	.020" (.508 mm)	.014" (.36 mm)
Horsepower	100 hp (74.57 kw)	50 hp (37.29 kw)
Hydraulic Reservoir Capacity	80 gal (302.8 l)	80 gal (302.8 l)
Cooling Water Flow	3-5 gpm (11.4-20 l/min)	3-5 gpm (11.4-20 l/min)
Length	79" (201 cm)	79" (201 cm)
Width	49" (124.5cm)	49" (124.5cm)
Height	51" (129.5 cm)	51" (129.5 cm)
Weight	4,500 lb (2041.14 kg)	4,000 lb (1814.36 kg)

Electrical Options: 415/3/50, 208/3/60, 240/3/60, 480/3/60, 575/3/60; Wye-Delta Starter

40K Dual Options: Flow Rate of 2.72 gpm, and .025" maximum orifice size

40K Single and Redundant Options: Flow Rate of 1.36 gpm, and .018" maximum orifice size

H2O JET
TM

Advantage

UHP Pumps

Merging Innovative ideas with real world demands



The H2O Jet *Advantage* comparison

Feature Comparison

	Flow 7X	Flow 20XW	H2O Advantage
Removable swing open doors		■	■
Rugged lift-off steel panels			■
Dual-entry fork pockets			■
Sound insulated panels		■	■
Less than 80 db		■	■
Vibration isolators on pump/motor		■	■
Leakage container			■
Sealed base (30 gal. capacity)			■
Two inlet water filters	■	■	■
Tabletop intensifier height			■
Electronic shift	■	■	■
Mechanical shift option			■
Multiple-function touchscreen for all controls			■
Integrated motor starter			■
80 gallon oil tank for cooling aid			■
Axial piston variable displacement hydraulic pump	■	■	■
Epoxy coated oil tank			■
Easy access for oil reservoir drain	■	■	■
Large, easy access, oil tank inspection covers			■
Oil/water heat exchanger	■	■	■
Oil/Air heat exchange option			■
Hydraulic piston with oil seal and guide bands			■
Low-cost rebuildable water booster pump			■
Custom manifold filter housing			■
Stainless steel intensifier quick-connect inlet water fittings			■
Oil level and oil over-temp sensor	■	■	■

Any reference to the OEM names is for identification purposes only.
Flow is a registered trademark of Flow International Corporation.