



## **iP60-50 Intensifier Pump - NEW!**

The Jet Edge iP60-50 is a 50-horsepower intensifier pump rated at 60,000 psi (4,100 bar). It is capable of producing output pressures from 1,000 to 55,000 psi (3,800 bar) with flow rates of 0 to 1.1 gallons (5 liters) per minute to a variety of cutting, surface-preparation or cleaning tools.

The iP60-50 features a TUV-certified attenuator that complies with ASME pressure vessel standards, to minimize pressure fluctuations.

The high-efficiency, totally enclosed, fan cooled (TEFC) electric motor with wye-delta "soft start" ensures high reliability, long service life and minimal energy usage. The motor drives an axial piston, variable displacement, pressure-compensated type hydraulic pump.

A programmable logic controller (PLC) monitors and controls all machine functions, and automatically energizes relays to light the warning lamps in the event of potentially damaging conditions.

Like all Jet Edge UHP intensifier pumps, the iP60-50 offers complete flexibility for waterjet cutting, cleaning or coating removal applications.

### **Design improvements:**

The iP60-50 features numerous design improvements. They include:

- Non-contact wet electronic stroke sensor improves performance and reliability
  - Redesigned intensifier assembly
    - Improved check tube
    - Extended-life hydraulic system
- Easy access to components and minimal tools required for in-house servicing reduces downtime and improves productivity
  - Pistons can be changed in the field by users without any special tooling
    - No special torque wrenches required
- Standard design Grade 8 fasteners are available through local sources or Jet Edge if required
- High-pressure water and hydraulic end caps are solid stainless steel providing longer life and improving performance over plated model designs
- Low pressure and high pressure tie rod design allows for specific torque values to be applied to the hydraulic and ultra-high pressure cylinders
- Inlet water pressure requirements have been reduced to 30 PSI; booster pump is only required if customer's inlet water pressure is below 30 PSI

# Options and Accessories

## iP60-50 Intensifier Pump Options

- Alternate power: 200, 208, 380, 415, or 575 VAC, 50 or 60 Hz
  - Start/Stop remote control operation
    - CE Marking available
  - Sound insulation for quiet operation

### Construction

- Heavy gauge sheet metal covers
- Rugged all-steel welded framework
- Hinged cover and removable access panels for convenient machine inspection and maintenance
  - Integral hydraulic reservoir
- NEMA 12/13 rated electrical enclosure

### Standard Features

- High efficiency TEFC motor
- Electronically shifted intensifiers
- Wye-Delta soft start with disconnect
- 0.5 gallon (1.9 liter) high pressure attenuator with 1.45 micron filtration
  - Safety shutdown systems
- Automatic safety pressure bleed-down valve
- Thermostatically controlled cooling system
  - Dual pressure set points
- Programmable Logic Controller (PLC) for operation and safety monitoring
- Axial piston, variable displacement, pressure-compensated hydraulic pump
  - Liquid filled pressure gauges
  - UHP safety shielded tubing

### Industry Standards

- TUV attenuator certifications
- U/L, CU/L listed industrial control panel

### Product Specifications

#### *Physical Size*

- Length: 74 in (188 cm)
- Width: 34 in (86 cm)
- Height: 53 in (135 cm)
- Approximate Weight with Fluid: 2,500 lbs. (1134 kg)

### ***Electric Motor***

- Motor Output: 50 hp (37 kw)
- Motor Type: High Efficiency TEFC electric motor
  - Full load amps @ 460vac (60Hz): 58
  - Full load amps @ 230vac (60Hz): 116
  - Full load amps @ 380vac (50Hz): 71

### ***Intensifier***

- Type: Single piston, dual plunger, reciprocating
  - Number of Intensifiers: one
  - Rate Pressure: 60,000 psi (4,100 bar)
    - Intensification Ratio: 20:1
    - Flow Rate: 1.1 gpm (5 lpm)
  - Maximum Rated Orifice Size .016 in (.41 mm)

### ***Low-Pressure Water / Intensification Water***

- Type: Pretreated, <100 TDS, PH 6-8, Silica <15PPM
- Supply Requirements: 1.0 gpm @ 20 psi (1.4 bar ) min. / 75°F (24°C) max.
  - Filtration: 1, .45 Micron

### ***Coolant Water***

- Maximum Temperature: 70°F (21°C)
- Minimum: 0-4.0 gpm (0-15.1 lpm) @ Minimum 20 psi (1.3 bar)
  - Ability to Remove: 39,000 BTUs /Hour

### ***Hydraulics***

- Reservoir Capacity: 30 gallons (136.4 liters)
- Filtration: 13 gpm (59.1 lpm) kidney loop @ 10 micron

### ***Environmental***

- Ambient Room Temperature: 50°-100°F (10°-37°C)
- Relative Humidity: Non-condensing, Maximum 95% @ 100°F

