



Jet Edge

WATERJET SYSTEMS

IP60-30 INTENSIFIER PUMP

Designed for shops that desire the reliability of a hydraulic intensifier pump, but have limited power, the iP60-30 draws only 37 full load amps at 460vac (60Hz) or 74 full load amps at 230vac (60Hz). It is capable of producing 0.6 gpm (2.3 L/m) of UHP water at a continuous operating pressure of 55,000 psi (3800 bar).

Like all Jet Edge intensifier pumps, the iP60-30 features a reliable tie-rod design that eliminates threads on the high pressure cylinders, end caps, and hydraulic cylinders. This reduces the likelihood of cracking and increases component life. Matched metal components prevent galling of hydraulic components. The iP60-30 includes a hydraulic accumulator to provide smoother hydraulic pressure, reduce spikes and prolong hydraulic pump life.



Construction

- Rugged all-steel welded framework
- Integral hydraulic reservoir
- NEMA 12/13 rated electrical enclosure

Standard Features

- High-efficiency TEFC motor
- 1500 or 1800 nominal motor speed (rpm)
- Electronically shifted intensifiers
- Wye-Delta soft start with disconnect
- 1 quart (.9 liter) high pressure attenuator
- Safety shutdown systems
- Automatic safety pressure bleed-down valve
- Thermostatically controlled cooling system
- 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
- U/L, CU/L listed industrial control panel
- Kidney loop cooling circuit

Optional Features

- Removable heavy gauge sheet metal covers
- CE Mark

Physical Size

- Length: 61 in (1550 mm)
- Width: 41 in (1040 mm)
- Height: 38 in (965 mm)
- Approximate Weight with Fluid: 1600 lb (726 kg)

Electric Motor

- Motor Output: 30 hp (22 kw)
- Motor Type: High Efficiency TEFC electric motor
- Full load current: 37 amps @ 460vac, 74 amps @ 230vac

Intensifier

- Type: Single piston, dual plunger, reciprocating
- Number of Intensifiers: one
- Continuous operating pressure: 55,000 psi (3800 bar)
- Intensification Ratio: 20:1
- Flow Rate: 0.6 gpm (2.3 L/m)

Low-Pressure Water/Intensification Water

- Type: Pretreated, <100 TDS, PH 6-8, Silica <15PPM
- Supply Requirements: Flow: 1.2 gpm (4.5 lpm) @ 60 psi (4.1 bar)
Temperature: 70F (21C) maximum
- Filtration to 45 Micron
- 2 Gallon Accumulator

Coolant Water

- Maximum Temperature: 70°F (21°C)
- Minimum: Flow: 3 gpm (11.4 lpm) @ 70F
(lower flow if water supply is lower temperature)
- Heat Exchanger: Stainless Steel Brazed Plate
- Heat Load: 20,000 BTUs/Hour

Hydraulics

- Reservoir Capacity: 20 gal (75 L)
- Filtration: Full Flow 10 Micron
- Cooling: 10 GPM @ 60Hz (8.5 GPM @ 50 Hz)

Environmental

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



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Specifications subject to change.

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