

Jet Edge

WATERJET SYSTEMS

MODEL IP36-50 MODULAR INTENSIFIER PUMP



Designed for ease of portability, the Jet Edge iP36-50 Modular Waterjet Intensifier Pump features a modular design that makes it easy to move into tight spaces, such as small passageways, ship engine rooms and ballast tanks.

The 50hp pump produces up to 1.8 gpm (6.8 L/m) of 36KSI (2500 bar) ultra-high pressure (UHP) water for precision cutting, cleaning and surface preparation applications.

It includes three modules with lifting eyes. The modules can be stacked to save space during operation or storage.

The hydraulic module contains the electric motor, hydraulic pump, hydraulic fluid supply, a plate style heat exchanger, and related components to produce the hydraulic power to operate the intensifier. The hydraulic module also has an adjustment to set the hydraulic pressure that controls the ultra-high pressure.

The water module contains the intensifier, attenuator, bleed down valve, water filters, and related components to produce the UHP water.

The electrical module contains the electrical components to operate the electric motor and intensifier. The electrical module also issues control signals and monitors sensor signals. The modules are linked together by hydraulic hoses and electrical cables which allows for separation of the modules from each other to a distance of 10 feet (3m).

Electrical Power: Requires a voltage/frequency option kit to match local electrical requirements.
Interconnect: IP67-rated connector

Environmental:
Ambient temperature: 50°–95° F (10°–35° C)
Relative humidity: Non condensing, maximum 95% at 95°F (35°C)

Intensifier
Type: Single piston, dual plunger, reciprocating
Number of Intensifiers: One
Output pressure: 36,000 psi (2500 bar) continuous
Intensification Ratio: 12:1
Flow Rate: 1.8 gpm (6.8 L/m)

Hydraulic
Pump type: Axial piston, variable displacement, pressure compensated, 75 cc displacement
Maximum operating pressure: 3050 psi (210 bar)
Cooling: Kidney loop brazed plate heat exchangers
Filtration: 10 micron full flow
Fluid capacity: 35 gal (135 L)
Fluid type: Standard Viscosity grade 46, anti-wear, non-detergent
USDA food grade #4010 Quinplex or equivalent
Circulation pump: 13 gpm (49 L/m) at 60 Hz; 11 gpm (42 L/m) at 50 Hz

Lifting Eye Capacity: 5000 lb (2270 kg) each

Low Pressure Water*
See Water Requirements in the product manual.
Input pressure: Minimum pressure 60 psi (4 bar)
Input temperature: Maximum temperature 70°F (21°C)
Filtration: On-board filtration to 0.45 micron
* Two water sources are needed; filtered water for the intensifier and public utility water for the heat exchanger.

Motor
Type: Electric, Wye-delta start
Output: 50 hp (37 kw); 25,000 BTU per hour (approximate)

Dimensions (height x width x depth)
Hydraulic module: 28 x 66 x 30 inches (715 x 1680 x 765 mm)
Water module: 40 x 61 x 32 inches (1015 x 1550 x 815 mm)
Electrical module: 36 x 37 x 22 inches (915 x 940 x 560 mm)

Weight
Hydraulic module: 1815 lb (825 kg)
Water module: 1230 lb (560 kg)
Electrical module: 285 lb (130 kg)
Hydraulic hose: 70 lb (32 kg)

Specifications subject to change.

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