

# HYDRAULIC POWER UNIT 3621 SERIES (207 BAR)

The Difference is Measurable



Instron HPU's can be configured to support an extensive collection of fully integrated Servohydraulic Dynamic and Fatigue material testing systems; ranging from 25kN up to 5000kN.

The 3621 (207 Bar) series delivers consistent flow rates ranging from 37.9 L/min to 100.7 L/min at nominal operating pressures of 207 Bar (3000 psi) as standard and will deliver market leading levels of performance, quality and safety for a range of tests including but not limited to:

- High-Cycle, Low-Cycle and Thermo-Mechanical Fatigue
- Fracture Toughness and Crack Growth Studies
- Axial-Torsion & Multi-Axial
- High Strain Rate, Quasi-Static, Creep Fatigue and more



## SIMPLICITY AS STANDARD

With a broad range of applications and tests suitable for Servohydraulic testing systems, determining products which meet both the current and future needs of your lab can be complex. The powerful 3621 (207 Bar) series integrates an array of essential features as standard which minimizes the options available and reduces the possible quantity of configurations: simplifying the selection process.

## FEATURES



### SAFETY

From protecting your brand to ensuring the safety of operators in your laboratory, without compromise, Instron systems are designed to minimize risks inherent in mechanical testing:

- Low Noise Operation as Standard
- Insulated Low-Temperature Touch Chassis
- Automatic Overtemp. & Hi/Lo Flow Protection
- User Friendly Control Interface



### RELIABILITY

When seeking to optimize lab productivity, accuracy and efficiency, dependable products that deliver consistent results are essential in maximizing testing uptime:

- Outlet Ripple Dampening Technology
- Rapid Response Displacement Pump
- Anti-Corrosion Stainless Steel Heat Exchanger
- Ultra-Fine Oil Cleansing Pressure & Return Filters



### ADAPTABILITY

Balancing immediate requirements and ensuring future flexibility when designing a test lab can be a challenge, however, it is possible to minimize compromise via practical innovation:

- Compact & Lightweight Chassis Design
- Wide Operational Pressure/Flow Envelope
- Pipe-Run Extending Adjustable Pressure Valve
- Built-In Maneuverability Kit



### SUSTAINABILITY

Long-standing commitments, rooted in Instron's core values are fundamental to how we develop products that make a difference to the environment, our people and communities:

- Energy Efficient Variable Displacement Pump
- Low Maintenance Component Architecture
- Minimal Operational Cooling Demand
- Low Operational Oil Volume

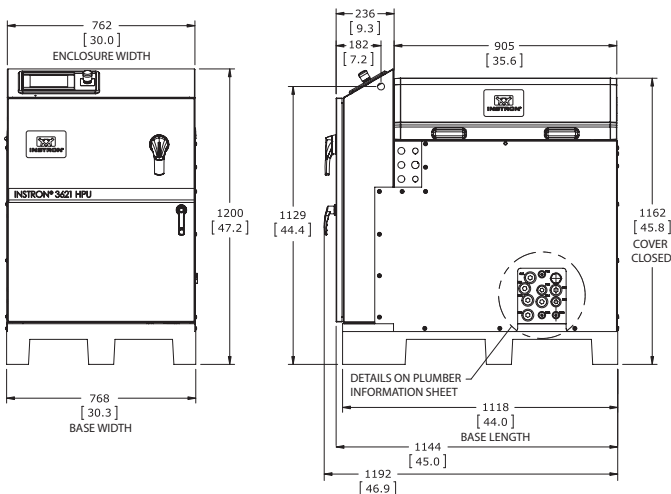
## SPECIFICATIONS

			3621-002		3621-003		3621-004	
Nominal Flow Rate		LPM	37.9	41.6	62.5	75.7	100.7	113.5
		GPM*	10.0	11.0	16.5	20.0	26.6	30.0
Motor Capacity		kW	18.5		30.0		45.0	
Operating Pressure		Bar	207					
		PSI	3000					
Electrical Supply Data	Freq.	Hz	50	60	50	60	50	60
	Phase	Φ	3					
Supply Voltage	200V - 208V			✓		✓		✓
	220V - 230V		✓		✓		✓	
	220V - 240V			✓		✓		✓
	380V - 400V			✓		✓		✓
	380V - 415V		✓		✓		✓	
	415V - 440V		✓		✓		✓	
	440V - 480V			✓		✓		✓
	575V			✓		✓		✓
Noise Level <sup>1</sup>		dB(A)	60		63			
Dimensions	Length	m	1.15		1.63			
	Width	m	0.77		0.90			
	Height	m	1.12		1.39			
	Footprint	m <sup>2</sup>	0.88		1.46			
	Volume	m <sup>3</sup>	0.99		2.03			
Weight	Gross <sup>2</sup>	kg	544		862		907	
	Dry <sup>3</sup>	kg	393		566		611	
	Oil	kg	151		296		296	
Oil Reservoir Capacity		L (gal.*)	174 (46)		341 (90)			
Cooling Type (Source)		Water	✓		✓		✓	
Accumulator		-			✓		✓	
Transportation Kit		-	✓		✓		✓	

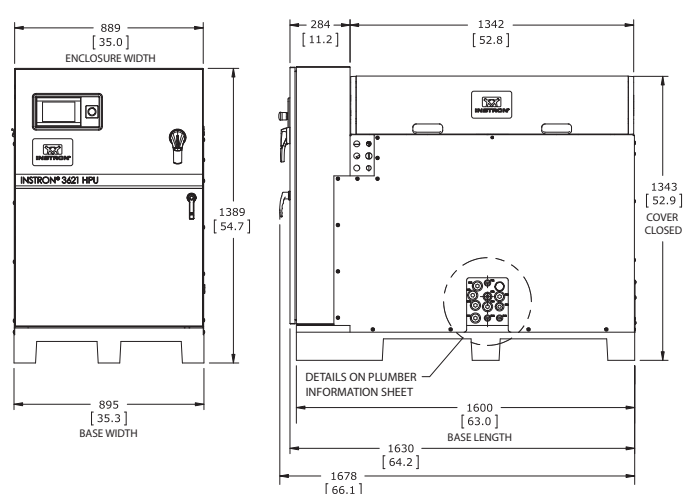
Note: For individual higher capacity systems, please consult your local sales office for further guidance and information.

LPM = Liters per minute | GPM = US Gallons per minute | 1 Measured at a distance of 1m in free field conditions | 2 Weight including max. oil charge | 3 Weight excluding max. oil charge | \* US measurements.

### 3621-002



### 3621-003 & 3621-004



Note: Min. recommended clearance space (L x W x H): 3621-002 = 2313 mm x 1778mm x 1604mm | 3621-003 & 3621-004 = 2799mm x 1905mm x 1856mm.

[www.instron.com](http://www.instron.com)



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