Additel 705
Electrical Pump

Metrology Made Simple



- **Generates pressure from vacuum to 1230 psi (85 bar)**
- **Dual-mode pressure & vacuum supply with stable output**
- **Fast pressure and vacuum generation**
- **Low-noise by design: zoned acoustic insulation**
- High reliability
- 7" color IPS TFT touch screen display
- Modular design, easy maintenance
- Automatic liquid discharge

OVERVIEW

Today's high-range pressure controllers demand precision, speed, and stability—yet available pneumatic sources have largely remained stuck in the past. Nitrogen cylinders are cumbersome, costly, and pose serious safety risks with high-pressure storage and handling. Manual pumps waste valuable technician time on constant charging, venting, and refilling, pulling focus away from the actual calibration work. Worse still, conventional air compressors introduce vibration, noise, and moisture that degrade controller accuracy and shorten equipment life.

The Additel 705 is purpose-built to close this gap. It delivers a wide pressure range from -0.95 to 85 bar (-13.8 to 1230 psi), integrating both positive-pressure and vacuum outputs in a compact, all-in-one pneumatic source designed to seamlessly complement high-range pressure controllers. Its parallel dual-pump-head design enables fast pressure generation with smooth start/stop and rapid response, keeping pace with the demanding duty cycles of modern controllers. Low-noise performance suits even the most sensitive laboratory environments, while modular construction allows quick on-site maintenance without specialized tools. Fully automatic intelligent liquid drainage protects internal components and downstream devices—no manual intervention required.

Finally—a pneumatic source engineered for the performance, safety, and efficiency that today's metrology demands. No more cylinders. No more hassle. Just reliable, quiet, and intelligent pressure generation.

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Additel
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Technical Specification

Specification	ADT705	
Pressure Range	-13.8 to 1,230 psi (-0.95 to 85 bar)	
Pressure Generation Time (No-load factory test data)	< 70 s (positive pressure)	< 10 s (Vacuum)
Intake Flow	18 L/min (positive pressure)	4.5 L/min (Vacuum)
Pressure Outlet	1/4BSP Male	
Vacuum Outlet	Factory-installed φ6 mm straight push-in fitting	
Pressure Vent	Automatic liquid discharge at shutdown	
Vacuum Vent	Automatic liquid discharge at startup	
Media	Air	

General Specification

Specification	*Description*
Power Requirements	Power supply: AC 100~240 V, 47~ 63 Hz
	Fuse: T12A 250 V AC
	Maximum power consumption: 600 W
Size /Weight	Chassis size: 17.32 × 6.97 × 24.61 in (440(W) × 177(H) × 625(D) mm)
	Rack mount dimensions: 4U-19" rack, horizontal direction
	Chassis weight: 46 kg
Environment	Operating ambient: 10℃ ~50℃
	Storage temperature: -20℃ ~70℃
	Operating humidity: 5%RH~95%RH, non-condensing
	Altitude (Operation): <2000 m
	Vibration level: 2 G
	Impact intensity: 5 G
	Drop test height: 100 mm
Conformity	CE
Communications	RS232
Display	7-inch capacitive touch screen, 1280 × 600 resolution
	Display refresh rate: 5 times per second

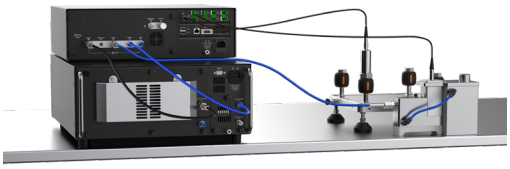
Ordering Information

Model Number

ADT705

Model
ADT705





Standard Accessories

Standard Accessories		
Description	**Quantity**	**Picture**
AC Power cord (10A 250V)	1 pc	
O rings for hose adapter 10*2-NBR70	1 Set	
O rings for ADT100-HTK-4.5K-BSPF4-BSPF4 5*1.5-NBR70	1 Set	
5 feet flexible hose, 4500 psi, 1/4BSP female to 1/4BSP female ADT100-HTK-4.5K-BSPF4-BSPF4	1 pc	
Polyurethane tube	3 pc	

Optional Accessories

Optional Accessories		
Description	**Quantity**	**Picture**
ADT705-MK	1 set	

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