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THORLABS

PTA512 - August 16, 2021

Item # PTA512 was discontinued on August 16, 2021. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

VIBRATION ISOLATION ACCESSORIES

- ▶ Air Filter/Regulator Removes Moisture & Particles Down to 5 μm
- ▶ Air Compressor with up to 8 Bar Air Pressure
- ▶ Foot Pump for Passive Isolation Systems



OVERVIEW

Air Compressor (PTA512)

This air compressor creates up to 8 Bar (116 psi) of air pressure and is self contained, lightweight, quiet, and compact. Each compressor ships with a bottle of compressor oil, which is also sold separately below (PTA1006).

Air Filter/Regulator (PTA013)

The PTA013 filter removes potentially damaging contaminants from the compressed air used in vibration isolation systems. The unit also regulates the pressure in the air line.

Foot Pump (PTA127)

The PTA127 is a manual foot pump that can be used to pressurize passive vibration isolation systems where a constant supply of air is not necessary.

Air Compressor



- ▶ Delivery Pressure up to 8 Bar (116 PSI)
- ▶ Air Tank Size: 3.5 Liters; ID <6"
- ▶ 115 V @ 60 Hz Power Supply
- ▶ Integral Pressure Regulator and Filter
- ▶ Low Noise Operation: 30 dB at 1 m

The PTA512 is a high-performance air compressor designed for applications demanding the highest quality air supply. It is self contained, lightweight, and compact, with minimal vibrations due to the very low noise emitted (30 dB at 1 m) from the compressor. The oil-lubricated pump unit is fitted with piston rings, thereby eliminating oil carryover to the air supply. This compressor delivers 50% more air than other silent compressors. One common application of this compressor is to provide a constant source of compressed air for active vibration isolation systems, such our active optical table supports or our active ScienceDesk™ tables.

The PTA512 accepts standard 6 mm outer diameter tubing, includes an air regulator, filter, receiver tank with pressure gauge, safety valve, drain, line pressure gauge, and a 1/4" OD adapter. It is shipped with a US power cord and a bottle of compressor oil (PTA1006).

Item #	PTA512
Max Duty Cycle	50%
Max Air Pressure	800 kPa (116 psi)
Air Delivery	14.8 l/min at 800 kPa (116 psi)
Air Tank Size ^a	3.5 L (0.92 US Gallons)
Voltage	115 VAC, 50 - 60 Hz, US-Style Connector
Power	159 W
Noise Level	30 dB (A) at 1 m
Dimensions (H x W x D)	340 mm x 350 mm x 340 mm (13.4" x 13.8" x 13.4")
Weight	17.0 kg (37.5 lb)

- Inner Diameter <6"

Part Number	Description	Price	Availability
PTA1006	500 mL Bottle of Compressor Oil	\$49.78	Lead Time
PTA512	Air Compressor, 115 VAC Power Supply with US Plug	\$662.26	Lead Time

Air Filter/Regulator



- ▶ Removes Moisture and Particles Down To 5 µm
- ▶ Compatible with Active Isolation Support Frames

Item #	PTA013
Filter Efficiency	5 µm Particles
Max Inlet Air Pressure	1034 kPa (150 psi)
Outlet Air Pressure	34 to 689 kPa (5 to 100 psi)

Water and particles commonly found in compressed air can be damaging to a vibration isolation system. This compact filter/regulator is recommended for use with all Thorlabs active isolation breadboard support frames. It regulates the air pressure supplied to the isolators while removing moisture and particles down to 5 µm. The fittings are compatible with the 6 mm diameter plastic tubing supplied with the active isolator frames and with the air compressors sold above. Each filter/regulator is shipped with a wall mounting bracket and two 1/4" to 6 mm outer diameter tubing adapters.

Part Number	Description	Price	Availability
PTA013	Air Filter / Regulator	\$80.62	Today

Foot Pump



- ▶ 2 m Hose for Use with Passive Isolation Products
- ▶ Connects to a Standard Schrader Valve
- ▶ Integrated Pressure Gauge

Item #	PTA127
Maximum Pump Pressure	100 psi (690 kPa)
Hose Length	2 m (6 ft)

The PTA127 is a manual foot pump that can be used to pressurize passive vibration isolation systems where a constant supply of air is not necessary. The foot pump comes with a Schrader-type connector, pressure gauge, and 2 m of hose to allow convenient positioning of the foot pump. Our passive breadboard frames, passive ScienceDesks™, and passive tables legs can all be used with the PTA127 foot pump.

Part Number	Description	Price	Availability
PTA127	Customer Inspired! Passive Isolation Foot Pump	\$49.78	Today