

PTA513 - August 3, 2021

Item # PTA513 was discontinued on August 3, 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 2 Power Supply Options
- ▶ Foot Pump for Passive Isolation Systems



OVERVIEW

Air Compressors (PTA512 and PTA513)

These air compressors create up to 8 Bar (116 psi) of air pressure and are 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 Compressors

- ▶ Delivery Pressure up to 8 Bar (116 PSI)
- ▶ Air Tank Size: 3.5 Liters; ID <6"
- ▶ Two Voltage Options: 230 V @ 50 Hz or 115 V @ 60 Hz
- ▶ Integral Pressure Regulator and

| Item # | PTA512 | PTA513 |
|------------------|---------------------------------|--------------------------------|
| Max Duty Cycle | 50% | |
| Max Air Pressure | 800 kPa (116 psi) | |
| Air Delivery | 14.8 l/min at 800 kPa (116 psi) | 12.8 l/min at 600 kPa (87 psi) |

Filter

- ▶ Low Noise Operation: 30 dB at 1 m

The PTA512 and PTA513 are high-performance air compressors designed for applications demanding the highest quality air supply. They are 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. These compressors deliver 50% more air than other silent compressors. One common application of these compressors 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.

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|----------------------------------|---|---|
| Air Tank Size^a | 3.5 L (0.92 US Gallons) | |
| Voltage | 115 VAC, 50 - 60 Hz, US-Style Connector | 220 - 230 VAC, 50 - 60 Hz, UK-Style Connector |
| Power | 159 W | 135 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"

They accept standard 6 mm outer diameter tubing, include an air regulator, filter, receiver tank with pressure gauge, safety valve, drain, line pressure gauge, and a 1/4" OD adapter. They are shipped with a power cord for the appropriate territory, together with a bottle of compressor oil (PTA1006).

| Part Number | Description | Price | Availability |
|-------------|---|----------|--------------|
| PTA513 | Air Compressor, 230 VAC Power Supply with UK Plug | \$662.26 | Lead Time |
| PTA1006 | 500 mL Bottle of Compressor Oil | \$49.78 | Today |
| 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

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.

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|-------------------------------|------------------------------|
| 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) |

| 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

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.

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

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

