

## PPLN Oven

The PPLN oven can easily change and stably maintain the temperature of the crystal from 50-200°C. The oven is insulated so that even when operating at 200°C the outside of the oven can be easily handled without any special precautions.

PPLN must be maintained at a constant temperature to ensure that the periodicity of the poling, and thus the phase matched conditions, remains constant.

In order to avoid photorefractive effects in the PPLN crystal, it is recommended that the crystal be used with an operating temperature of 100-200°C. When PPLN is being used with wavelengths shorter than 750nm, it is recommended that the temperature of the crystal be kept in the 160-200°C range.



### Features

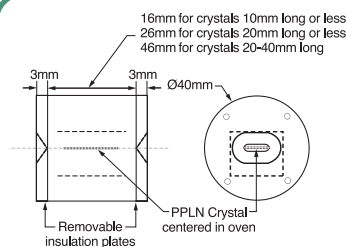
- Uniform Crystal Temperature
- External Temperature Kept Low by Insulation – No Need for Gloves
- Automatically Aligns Pre-Mounted Crystals
- Remove Two Screws to Exchange Crystals.
- In Situ Crystal Exchange
- Variety of Mounting Options
- Three Oven Sizes
- Removable Insulated End Caps for Crystal End Face Access

### Specifications

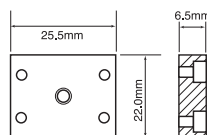
- **Power:** 12-24V
- **Temperature Sensor:** Pt100
- Compatible With TC200 Temperature Controller & Driver

### Oven Mounting Plate Options:

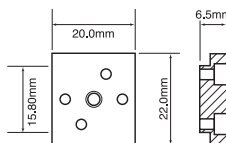
- Post Mount (Allow Ovens to be Mounted via M4 Thread)
  - PVP1 for the PV10 Oven
  - PVP2 for the PV20 or PV40 Oven
- L-Bracket (Allow All Ovens to be Mounted on a Range of Translation and Rotation Stages)
- Thread Mount (Allow All Ovens to be Attached to Threaded Mirror and Lens Mounts)
  - PVMO for Microscope Objective Thread
  - PVSM1 for SM1 Thread
- Tube Mount (Allows Ovens to be Attached to Ø25mm (Ø1") Lens Mounts)



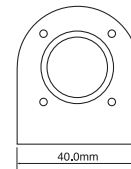
PV10 OVEN



PVP2



PVP1



PVL1

## Mounting Options

ITEM #	\$	£	€	RMB	DESCRIPTION
PV10	\$ 1,350.00	£ 850.50	€ 1,255.50	¥ 12,892.50	PPLN Oven for Crystals 10mm Long or Less
PV20	\$ 1,400.00	£ 882.00	€ 1,302.00	¥ 13,370.00	PPLN Oven for Crystals 10 - 20mm Long
PV40	\$ 1,450.00	£ 913.50	€ 1,348.50	¥ 13,847.50	PPLN Oven for Crystals 20 - 40 mm Long
PVSM1	\$ 35.00	£ 22.10	€ 32.60	¥ 334.30	SM1 Thread Adapter
PVMO	\$ 45.00	£ 28.40	€ 41.90	¥ 429.80	Microscope Objective Thread Adapter
PV25	\$ 35.00	£ 22.10	€ 32.60	¥ 334.30	25mm Optical Component Mount Adapter
PVP1	\$ 41.00	£ 25.80	€ 38.10	¥ 391.60	M4 Post Mounting Adaptor for PV10
PVP2	\$ 43.00	£ 27.10	€ 40.00	¥ 410.70	M4 Posts Mounting Adaptor for PV20 and PV40
PVL1	\$ 38.00	£ 23.90	€ 35.30	¥ 362.90	Mounting L-Bracket for all Ovens