

OC1 Temperature Controller

version 1.3/2011



The **Covesion OC1** temperature controller is a compact stand-alone benchtop unit for use with our PPLN oven range.

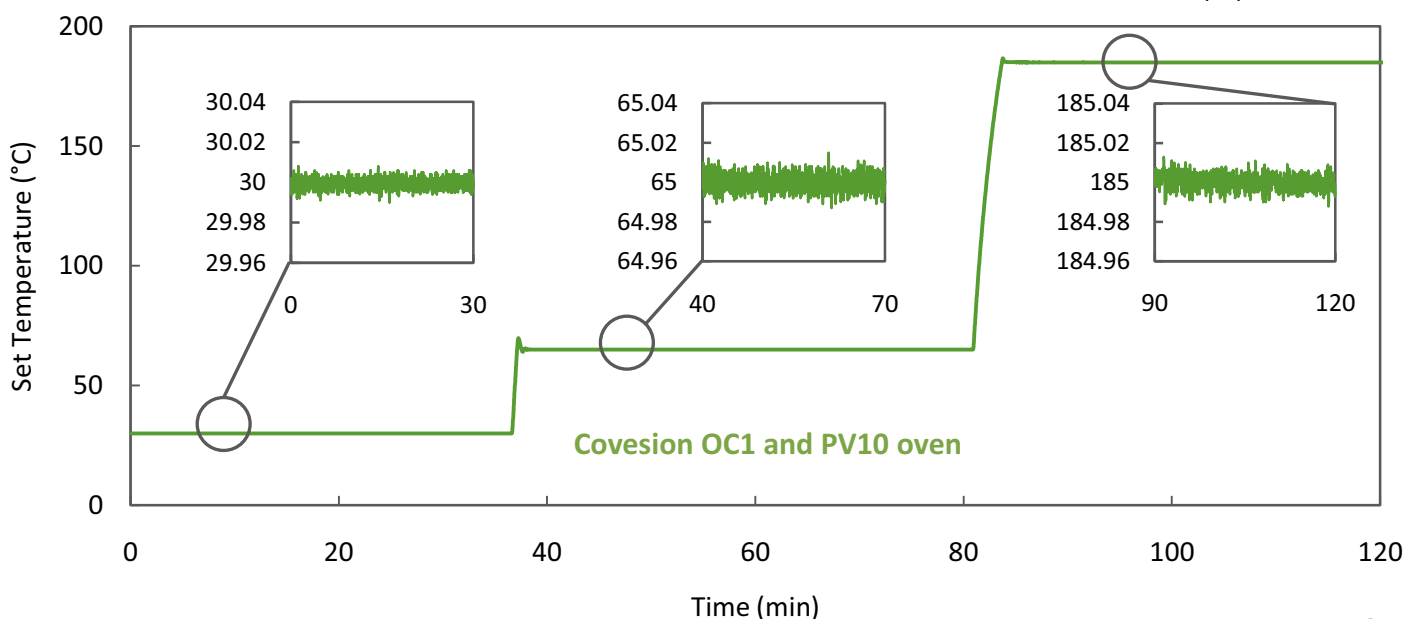
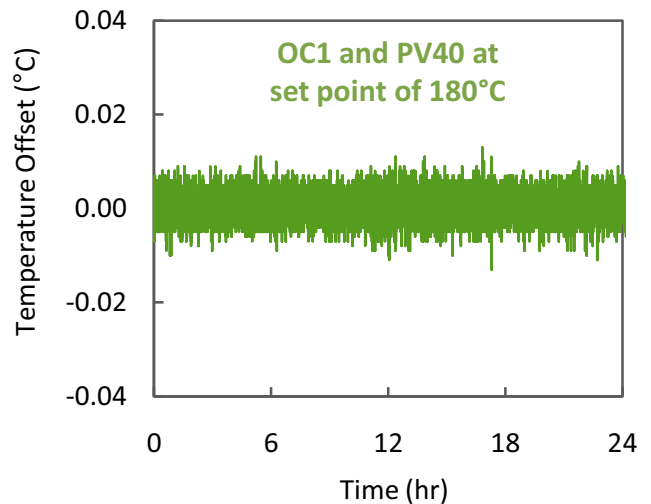
Key Features

- Simple push button interface
- Set point stability $\pm 0.01^\circ\text{C}$
- Set point resolution 0.01°C
- Maximum temperature 200°C
- PID control offers maximum stability
- Auto-detect feature for all Covesion PPLN crystal ovens

Covesion's user-friendly OC1 is specially designed for use with our PPLN crystal ovens. The auto-detect feature provides hassle-free, plug-and-play functionality. The user can simply dial in the required temperature and allow the oven to reach optimum stability.

The OC1 provides high long term thermal stability of $\pm 0.01^\circ\text{C}$ for all temperatures from 30 to 200°C . This level of stability is typically achieved within only a few minutes of reaching the set point temperature.

The combination of long term stability and low set point resolution of 0.01°C ensures that optimised conversion efficiency can be maintained with our MgO:PPLN products.



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Specifications

| Parameter | Min | Typ | Max | Unit |
|--|------|----------------|-----|---------|
| Input voltage | 100 | | 250 | VAC |
| Output power | | | 35 | WDC |
| Output voltage | | | 24 | VDC |
| Temperature control range ¹ | 15 | | 200 | °C |
| Set-point resolution | 0.01 | | | °C |
| Absolute temperature accuracy ² | | +/-0.1 | | °C |
| Temperature stability (24 hour) ³ | | +/-0.01 | | °C |
| Heating time from ambient to 200°C | | 7 | | minutes |
| Cooling time from 200°C to 60°C ⁴ | | 20 | | minutes |
| Cooling time from 60°C to 30°C ⁴ | | 20 | | minutes |
| Operating temperature (external) | 10 | | 50 | °C |
| External Dimensions (L x W x H) | | 199 x 158 x 74 | | mm |

1. Covesion oven types are suitable for heating only. The external oven temperature must be lower than the set-point temperature.
2. Does not account for sensor tolerances.
3. From 5°C above ambient temperature to 200°C
4. Room temperature at 25°C.

For more information, please contact us at:

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