

NGP PreHeater for CO₂ & Other Gases

Problem: As carbon dioxide (CO₂) flows through a cylinder valve, the gas expands and becomes significantly colder which in turn can cause moisture within the CO₂ to freeze at the regulator seat. The formation of ice around the regulator seat can lead to flow restriction or complete blockage of the system. Freezing of CO₂ is more likely to occur with higher flows and in colder climates or the tropics where moisture in the air can form ice on the outside of equipment.

Solution: A method of minimising the above problem is to preheat the gas prior to entry to the regulator.

The new NGP Compact Gas PreHeater has been designed to be connected between the outlet of a cylinder and the inlet of a regulator. The powerful 250 Watt (240V applications) heating element heats the gas as it flows through the body of the heater. The temperature of the heater is thermostatically controlled to around 75°C. Now completely redesigned to 1/3rd of its original size with even better gas flow utilising revolutionary HCT (heater capsule technology). Heating is now even more efficient.



Features Include:

- Australian designed & manufactured
- Built tough. Proven 40 year old original design
- **NEW!** Compact HCT design – now 1/3rd of the original size!
- Pressure rated to 240 Bar
- Capable of gas flows up to 200 lpm and beyond*
- **NEW!** Upgraded 250 Watt (240V only) cartridge element – more grunt & reliability
- Thermostat controlled to approximately 75°C
- IP66 rated
- Models for CO₂ and other gases
- 240 volt & 110 volt models (including electrical plug)
- 1.7 metre connection lead (special longer leads possible)
- HCT and thermostat are replaceable spare parts

** Due to the nature of carbon dioxide, gas flows can vary depending on climatic conditions & equipment used*

Part Number Specifications:

Part No.	Voltage	Gas	Wattage	Inlet Connection	Outlet Connection
NGP008-T30-250-A	240	CO ₂	250	Type 30 RH, Female	Type 30 RH, Male
NGP010-T30-115-B	110	CO ₂	115	Type 30 RH, Female	Type 30 RH, Male
NGP012-T10-250-A	240	Inert	250	Type 10 RH, Female	Type 10 RH, Male
NGP013-T50-250-A	240	Nitrogen	250	Type 50 RH, Female	Type 50 RH, Male
NGP011-4F-250-A	240	-	250	1/4"NPT, Female	1/4"NPT, Female

Can be set up for use with other gases (not suitable for fuel gases)

Manifold Applications:

To minimise freezing, a NGP PreHeater can be connected between each cylinder and the flexible lead. Alternatively, for manifold applications, a NGP PreHeater can be connected between the manifold outlet and regulator.