

## Recirculating Water Vapourizer

*Cryotronix* Series VNG is a natural gas fired cryogenic liquid vapourizer, which uses recirculating water as the heat transfer medium. Its integral, rugged, low maintenance pump circulates water between the natural gas burners plenum and the heat exchanger coils cryogen. Electronically controlled, VNG series vaporizers achieve precise set temperatures for various liquids and gases.

### Applications :

- C Inert gas blanketing
- C Furnace atmospheres
- C Beverage bottling
- C Vaporization of liquids
- C High flow gas purging
- C Fire protection systems
- C Steelmaking and foundry

## Series VNG

*Cryotronix* vapourizers are supplied in a wide range of sizes, with capacities from 1000 to 100,000 SCFH. The VNG heat exchange coils are fabricated in copper or stainless steel and designed for up to 600 psi. Modular design allow for ease of installation, maintenance and upgrade. VNG units are equipped with interactive buffer tanks to ensure maximum heat transfer efficiency.



| Model | Capacity Btu/hr | Maximum Flow (x 1000 SCFH) to gas @ 70°F |                |                |    |                 | Pressure (psig) stainless | In/Out Size (in) | Weight Empty (lb) | Dimension LxWxH (in) |
|-------|-----------------|--|----------------|----------------|----|-----------------|---------------------------|------------------|-------------------|----------------------|
|       |                 | H <sub>2</sub>                           | N <sub>2</sub> | O <sub>2</sub> | Ar | CO <sub>2</sub> |                           |                  |                   |                      |
| VNG-  | 140,000         | 20                                       | 13             | 10             | 14 | 9               | 600                       | 1                | 710               | 36.36.48             |
| VNG-  | 210,000         | 30                                       | 18             | 15             | 21 | 14              | 600                       | 1                | 1090              | 66.48.52             |
| VNG-  | 440,000         | 62                                       | 38             | 31             | 44 | 28              | 600                       | 1.5              | 1300              | 72.60.54             |
| VNG-  | 680,000         | 95                                       | 59             | 48             | 68 | 44              | 600                       | 2                | 1510              | 82.66.66             |

Other gases, flows and configurations are available. Please consult us and use the following order specification system to facilitate processing and delivery of your unit.

| Model | Codes                    |                                   | Gas  | Material tube                      | Insulation  | Note  |
|-------|--------------------------|-----------------------------------|--|------------------------------------|---|---|
| VNG-  | 110<br>140<br>170<br>210 | 340<br>440<br>510<br>680<br>other | A=Argon<br>N= Nitrogen<br>O= Oxygen<br>C= CO2<br>Other | 0 = copper 300 psi<br>1= stainless | 0=4"polyurethane<br>1 = 2" Fibre glass<br>2 = Other | Please specify gas or liquid used as well as required inlet and outlet temperatures |

Example : VNG440-N01 will denote a nitrogen vapourizer for 38,000 scfh, copper tube and 2" fibre glass insulation