

# On-site Gas Purging Made Easy

## BOC Australia's containerized mobile gas purging unit

**C**ryoquip Australia has worked closely with BOC in Australia and developed a high flow containerized purge vaporizer for use in a wide variety of purging applications.

The standard 20' container consists of an ambient vaporizer, high velocity flame proof fans, a switching system, and a pressure-building coil.

The benefits of the unit are that everything is provided in one container. This "plug-and-play" unit is easy to move and unload on site and the doors are easy to open.

For a small footprint, the TAF5120L4 unit has a very high flow capacity of over 4,000 Nm<sup>3</sup>/hr.

For long duration purges, the system has an integrated automatic switching system, which switches the liquid flow internally, enabling half of the unit to defrost while the other half is operating.



- Electrical equipment to suit hazardous areas
- Luted inlet to prevent excessive ice build-up

The containers are fitted with high velocity flame proof EXE rated fans and intrinsically safe electrics, enabling the units to be used on Petrochemical sites and in hazardous areas. The system has also been manufactured for use with all the cryogenes, including liquid nitrogen, oxygen, argon, LNG and ammonia.



- 2 Vaporizers in one
- Built-in switching system

Purge applications often use ISO containers of liquid cryogenes, which have limited pressure building capacity. The containerized unit has a built-in pressure building coil that boosts the pressure building capability of the liquid vessels, in order to achieve the high purge flows required.



BOC Australia has nick-named the units "BIG RED" and use distinctive RED containers. In the last 3 years, BOC has purchased 3 units for Australia, as well as several purging vaporizer bundles for use in New Zealand.

Recent purges in far north of Western Australia used the BIG Red units with steam heated VSI 640 vaporizers. The engineers on site were very impressed with both the containerized and steam heated units. The vaporizers exceeded design capacity and the customer was extremely happy, and asked if they could retain the equipment on site, ready for the next purge.

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