

# Portable Oxygen Charging Unit

## Fast Efficient and Economical Method of Oxygen Charging

Haskel gas charging units provide a fast efficient and economical method of charging or topping up gas pressures in devices such as:

- In-flight Oxygen Gas Systems
- Breathing Apparatus
- Commercial Divers Gas Cylinders
- Military Divers Gas Cylinders

The portable booster systems are designed to be lightweight and practical. Clearly labelled controls to ensure simple but safe operation.

The units enable optimum use of commercially bottled Oxygen gas down to a residual pressure of 7 bar.

Careful selection of materials ensure maximum operator safety.

Gas charge pressures of up to 200 bar are achieved using stainless steel process equipment. Gas charge pressures up to 350 bar can be achieved using Monel and/or bronze process equipment.

The units are supplied cleaned for oxygen gas service with protective plugs to prevent dirt ingress when not in use

Apart from compressed air, no other power supply is required to operate these units making the suitable for operation in any location.



GAS BOOSTER MODEL USED	NOMINAL MAX PRESSURE based on 100 psi air drive	NOMINAL FLOW CAPACITY based on 500 psi gas supply	MODEL ORDERING CODE
Oxygen Gas Boosters Models Available			
28598-AG-15	100Bar (1,500 psi)	150NI/min (5 scfm)	J24273-AG-15
17445-AG-30	200 Bar (3,000 psi)	110 NI/min (4 scfm)	J24273-AG-30
81569-AG-75	350 Bar (5,000 psi)	50 NI/min (2 scfm)	J24273-AG-75

Actual flow capacity varies with gas inlet pressure, air drive pressure and volume, and outlet pressure. For actual flow contact Haskel

## Description

Each unit comprises a water proof, robust, injection moulded case in which is mounted the following equipment:

- Haskel Air driven oxygen gas Booster
  - Air inlet to air drive controls comprising,
  - Air drive filter
  - Air drive pressure regulator
  - Air pressure gauge
  - On/off speed control valve.
- Inlet oxygen gas bulkhead with plug to prevent dirt ingress
- Inlet 10 micron gas filter
- Inlet pressure gauge (gas safety pattern)
- Outlet Pressure Gauge (gas safety pattern)
- Outlet Relief valve
- Outlet isolation valve
- Outlet vent valve
- Outlet oxygen gas bulkhead with plug to prevent dirt ingress

## Features

Haskel air driven gas boosters offer many advantages over electrical driven high pressure compressors.

- Ability to stall at any predetermined pressure and hold this fixed pressure without consuming power or generating heat.
- No heat, flame or risk of spark
- Infinitely variable cycling speed (flow rate)
- No limit or adverse effect to continuous stop/start applications
- Gas booster seals are self-lubricated requiring no external air lubricator
- Reliable, easy to maintain, compact and robust

Booster designed with integral air cooling to immediately reduce heat of compression