

## RECOVERY UNIT RE80



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**Dry Ice - at half price:**

The new RE80 Recovery Unit from Triventek collects all the "revert" gas, which is usually wasted during dry ice production and converts it back to liquid CO<sub>2</sub> to be returned to the Triventek Pelletizer PE80.

This can effectively halve the cost of dry ice:

**Truly a step-change in technology.**

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Normally dry ice is produced by bringing liquid CO<sub>2</sub> up to atmospheric pressure whereby approximately half turns into solid 'snow' which is typically compressed to ice, and the other half (called 'revert' gas) is simply vented to the atmosphere. But, by using the revolutionary new RE80 Recovery Unit, all of the revert gas is collected, chilled and compressed to liquid CO<sub>2</sub> and sent back to the PE80 Pelletizer to produce more dry ice pellets.

This patented development, at low capital cost, greatly exceeds the efficiency of even the very largest, big capital, recovery plants using older technology.

What is more: the energy cost is halved compared to traditional methods. The liquid CO<sub>2</sub> storage vessel can be smaller, or deliveries can be made even less frequently, since a system with recovery will use approximately half the quantity of liquid CO<sub>2</sub> than would a pelletizer alone.

Using the RE80 Recovery Unit will reduce production costs by approximately 50% and rapidly increase operating margins and profits. In this way it makes 'dry ice on tap' affordable for even the more modest volume user.

Ask us for an illustration of the economic benefits in your circumstances.

The reduction in ongoing costs is so powerful that multisystem installation is profitable for larger dry ice volume requirements, since the capital cost is rapidly paid back out of revenue cost savings.

The small-size unit is simple to install, requiring only the connection of three hoses, a simple air conditioner-style cooling unit and three-phase power. It is operatorfriendly, activated by one simple switch and easy to maintain.

### TECHNICAL DATA:

- Powers supply: 3x400V/50Hz
- Other voltages/Hz on request
- Power consumption: 24 kW
- Max. current: 41 Amps
- Operation current: 28 Amps
- Required start-up Amps should be calculated as 5 to 6 times Amp usage.
- Power connection: 63A/3P+E
- Dimensions (WxDxH): 1111x1911x1567 mm
- Weight: 1024 kg
- Max ambient temperature: 32°C
- Max. hose length between PE80 and RE80: 6 m.
- Airflow: 8500 m<sup>3</sup>/h
- Total heat rejection: 18 kW
- Protection against recycling discharge air required
- Protection against direct sun, rain and snow
- Protection against dust, dirt and impurities
- LCO<sub>2</sub> to dry ice conversion with recovery unit: 1.2:1  
(use insulated cover on dry ice box)
- Oil type: Castrol Cygnus PAO 68
- CO<sub>2</sub> monitor

### COOLING SYSTEM:

- Bitzer LH104/4TCS8.2Y
- Refrigerant type R404A
- Refrigerant charge approx. 10 kg
- High and low pressure protection
- Fanspeed control (1 fan)
- Refrigerant safety valve

Please visit our web site for further information at:  
[www.aquila-triventek.com](http://www.aquila-triventek.com)