

# Air Bag Pressure Maintenance System

World wide patents applied for

## Application:

*Maintenance of Dunnage  
Bag Pressure During  
Lengthy Voyages*



The problem of pressure loss in dunnage bags during long voyages, caused by variations in atmospheric temperature and pressure or leaking bags due to mechanical damage can be overcome by this system. The system also allows bags to expand and maintain the correct pressure, holding the stow tight as the cargo compresses during the voyage. Up to twenty bags can be inflated rapidly to a safe working pressure that can be maintained indefinitely. Each unit is supplied with a tough transit case and all fittings for connection to twenty bags.

## Performance:

**Rapid Fill Mode:** Sufficient air is provided to fill up to twenty 2.44m x 1.2m air bags simultaneously. Bags cannot be inflated to more than the safe working pressure.

**Top-Up Mode:** Air is provided at 0.4 bar to each dunnage bag at 5 litres per minute to compensate for small leaks, variations in ambient temperature and pressure.

The low flow rate in top-up mode ensures that if bags burst during a voyage sufficient air remains available to continue topping up the remainder.

## Air Supply:

Standard ship's air supply is filtered and dried by the system. Approximately 6-8 bar is required.

### Checkmate Flexible Engineering LLP

Unit 6, Pegasus Way  
Bowerhill, Melksham, SN12 6TR England  
Tel: +44 (0) 1225 705465  
Fax: +44 (0) 1225 707497  
E-mail: sales@checkmateuk.com  
www.checkmateuk.com

