

TRANSFRIG

Kooltube



Introduction

The Kooltube is a holdover or latent heat storage system. The completed unit comprises a 220V single phase or 380v 3 phase condensing set coupled to eutectic beams mounted internally to the roof of the body. Externally, to the uninitiated, the system appears to be a normal overcab refrigeration unit as the condensing set is conventionally mounted above the cab of the truck.

The Kooltube is one of the simplest refrigeration systems and has been around in its basic configuration for many years. Simply, it can be compared to a block of ice in a glass of water or to the freezer pack, which you freeze in your fridge at home and put into a cooler box to keep drinks cold.

The tubes/eutectic beams perform the same function as the block of ice or freezer pack, while the condenser replaces your domestic fridge. The system is plugged into an electrical supply until the tubes are properly frozen, unplugged and then the vehicle used for its delivery round. Given the duty, which the vehicle has to perform, we calculate the number of tubes required to maintain the required box temperature and select a condensing set capable of freezing the beams in the required time.

The Kooltube System is particularly suited to repetitive, daily delivery operations.



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◆ Advantages

- ◆ Silent daytime operation
- ◆ Virtually maintenance free
- ◆ No fuel costs
- ◆ Lower capital costs
- ◆ Lower running costs
- ◆ Minimal wearing parts
- ◆ Assured refrigeration performance
- ◆ No specialised knowledge of operation required
- ◆ Better usable volumes

◆ Technical data – Beams

The Kooltube is extruded aluminium containing a non-toxic eutectic solution. A wide range of solutions is available for various temperature applications.

◆ Technical data – Condensing set

- ◆ Semi-hermetic compressor
- ◆ Simple accessible controls
- ◆ Fully electrically protected
- ◆ Nose or undermount
- ◆ 380v 3 phase / 220v 1 phase

◆ Unit capacity and mass

The length of the tubes necessary to provide optimum refrigeration performance must be calculated by your dealer.

The following information is required:

- ◆ Internal body dimensions
- ◆ Required box temperature
- ◆ Holdover period required
- ◆ Pull down time available
- ◆ Number of door openings per day
- ◆ Insulation type and thickness

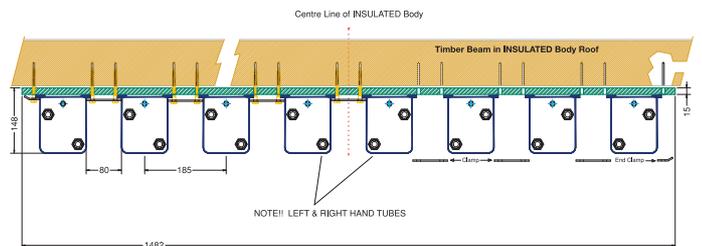
◆ Ozone friendly refrigerant

Zero ODP R404a.

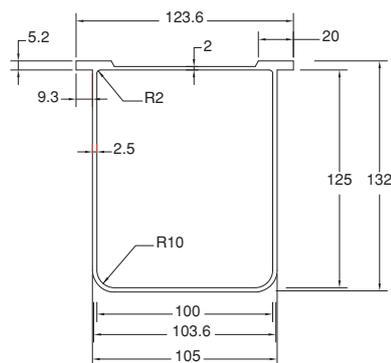
As our policy is one of continuous improvement, we reserve the right to alter any details without prior notice.



◆ Kooltube mounting details



◆ Aluminium extrusion



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