

PRODUCT DATA SHEET

**International Haotian
Technology Co. Ltd.**



Product Name: Cold Chain Shipper

Product Series: PolarBox No.1 VPU

Product Number: VPU-586

Description:

Unique cutting edge vacuum/PU insulation Technology, developed and Patented by International Haotian Technology Co. Ltd. offers the medical and food cold chain industries critical protection and thermal stability over a range of ambient temperatures from +43°C to -25°C.

VPU-586 can hold temperature sensitive products, like Vaccines, between +2°C and +8°C for better than 72 hours in an ambient temperature of 35°C, and for better than 50 hours in an ambient of -25°C.

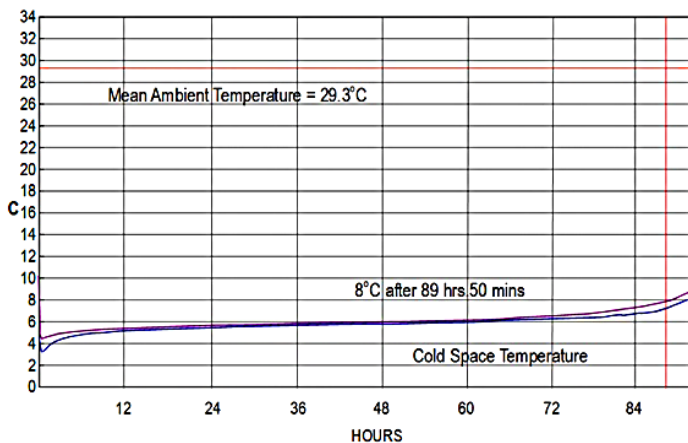
A large range of PCM Refrigerant options are available to meet the cold life and holding temperatures of the Customer.



Usable Cold Space Capacity/Dimensions:	42 litres/348*348*348 mm
Empty Capacity/Internal Dimensions:	58 litres/388*388*388 mm
Weight Empty/Incl. HTBH PCM packs:	15.35/26.81 kg
External Dimensions:	508*508*508 mm
External Cover:	Polyester 1680D, 8mm PE Foam, with Aluminised PE/2mm PE Foam inner, with fabric hinge and #10 zip fastener closing
Shipper Box:	PVC Board outer cover
VPU Insulation:	6 x 20mm VIP Boards, K = 0.0025 W/m.K (at centre of panel), embedded in 6 x 60mm PU closed cell rigid Foam interlocking PVC Board sandwich panels (patented) forming the structure and lid of the box.
VPU Panel Thermal Conductivity :	0.0043 W/m.K (Centre + 4 corners)
VPU Panel Thermal Resistivity (R):	4.5 m ² K/W
VPU Panel Density:	375 kg/m ³
Lid Type:	Plug type VPU panel, Zipped cover closing flap with fabric hinge
Refrigerant/Dimensions:	PCM, HTBH-380 /6 pcs. 380*380*20 mm, 1910 grams
Shipping Carton Dimensions:	518*518*518 mm (1 pc.)
Cold Life from Close of Lid to 8°C:	Field Test @ 29°C average - 89 hrs 50 mins. (PCM +5°C)

Note: Graphs show highest and lowest °C in the Cold Space.

FIELD TEST OF POLARBOX No.1 VPU-586 COLD CHAIN BOX
Commenced 2015-08-17, 10:14:00 Completed 2015-08-21, 08:44:00
PCM Phase Change Point +5°C



TEST OF POLARBOX No.1 VPU-586 COLD CHAIN BOX
Commenced 2015-08-17, 15:36:00 Completed 2015-08-21, 12:02:00
PCM Phase Change Point +5°C

