

## Specifications of IQ 18 box It

**Description** : Isothermal system Box type +ice packs

**Type(factory code)** : IQ 18LT Ambient use

**Customer** : GSK HELLAS

**External dimensions (lxwxh)** : 400x300x300mm (36lt )

**Net Payload space dim (lxwxh)** : 369x262x185 mm (18lt)

**Suggested Period use** : May start to end September

**Target use** : For distribution cold chain in **NOT** controlled Exterior temp ,to secure safe transport of **Ambient products** for 48 Hours ,keeping internal Temp between +10 to +25 celcius

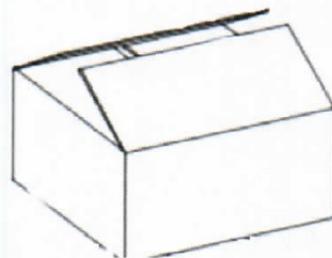
Materials specs/descriptions :

**Exterior box** : 3 layers kraft carton printed brown box dim 407x367x304mm (lxwxh)

**Isolation top lid of 1 pc PIR with hermetic close**

**Isolated Shield** :made of 3 layers :3 mm PU foam laminated with flame process ,with ALU foil enriched with glass fiber +kraft paper and laminated with carton 280/300 gsm rolls .This is a strong ,flexible shield ,used as extra cover of PUR plates to ensure the high thermal isolation and internal stability of Cold level during cold chain transport .The aluminium side offers a homogenous reflection of cold air in the inner space of box This isolated shield is set interior of carton brown box as an isothermal shield to maintain temperature stability of Ambient products .

**Internal payload space**: This is the space where Ambient products are stored for distribution in cold chain .Made of the same Isothermal shield as described before and in a form of stable <<box>>,Dimensions are **mm** 369x262x185 mm (18lt) as mentioned in start. Is totally isolated and the interior side which is the Alu side offers due to reflection of material a high level of Thermal isolation and stability of temperature between 10 to 25° for cold chain transport requirements of Ambient products and for 48 hours



**Icepacks** :The ice packs is the freezing mean used in the Isothermal box to keep the ambient products cold during cold chain transport .The type of icepacks KTEMP uses ,is hard one ,ice packs are produced in Greece by company PLASTICA which meets all the High demands & quality standards and offers a correct homogenous escalation of **defrost** during the cold chain transport .,

The type of ice packs used in this box **is 500 gr (8 pcs x500 gr )** .

The ice packs are set in box as shown below

**For the better distribution of cold air in the inner space of box ,is suggested for Ambient products to use 2 pcs of carton plates, set after the ice packs , so as to succeed homogenous freezing and avoid sudden depth of temp (less of 10 celcius ) as these products can be distributed within 10 to 25 degrees,**

#### **Lid PIR 1 pc cover :**

Last but with high importance is the PIR lid top which is sealing the Isothermal system .

A PIR PLATE of 30mm thickness , covered in all sides by Alu foil ,offers a great & high reflection of cold ,directing this in the box inner space ,securing and assisting in same time the cold air circulation /distribution in the inner box space.

With hermetic sealing due to strong construction .



Analytical layout of Ambient 18lt



pur lid



4 ice packs hard type x500gr



cardboard



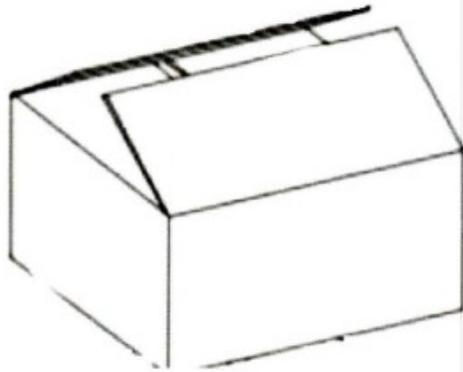
net payload space made of isothermal shield  
3layers



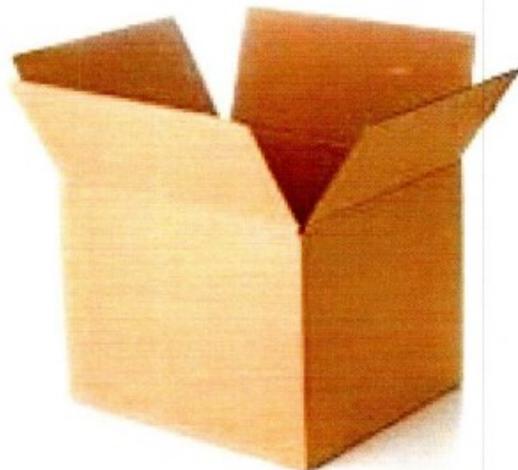
cardboard



4 ice packs hard type x500gr



3 layers isothermal shield



brown exterior box