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**Product Name :**  
Solar Heat For Cold Production

**Product Code :**  
LBNY-0005-1410004



#### **Description :**

Solar heat for cold production allows the vapour jet compressor from vapourjet compressor IN refrigeration to be operated with solar-generated heat from the domestic water heating with flat collector flat collector. With the increasing demand for refrigeration and air conditioning worldwide, the interest in alternative processes of cold production which can be supplied from renewable energy sources is also growing. One promising possibility is thermal processes. In these processes, thermal energy is used to generate cold. The pump is operated via Vapour jet compressor in refrigeration and domestic water heating with flat collector are connected by hoses. The energy added from solar heat is determined by two temperature sensors and one flow rate sensor. After sufficient solar thermal heating, the heat transfer fluid from domestic water heating with flat collector is pumped into the vapour generator of vapour jet compressor in refrigeration by the pump from solar heat for cold production.

#### **Technical Specification :**

Measured values transferred to vapour jet compressor in refrigeration for further processing in the software  
Pump operated via Vapour jet compressor in refrigeration  
Pump for pumping the heat transfer fluid from domestic water heating with flat collector to the vapour generator in feed line to the vapour  
Supply of the vapour jet compressor in vapour jet compressor in refrigeration with solar heat from the flat collector  
generator with temperature and flow rate measurement  
Return line with temperature measurement

#### **Technical Data:**

Pump:

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Power consumption: 40W  
Head: 4,8m  
Max. flowrate: 1m<sup>3</sup>/h  
Dimensions and weight:  
LxWxH: 430x430x790mm  
Weight: 30kg.



**Laboratory Instrument India**