

Materials List for:

Experimental System of Solar Adsorption Refrigeration with Concentrated Collector

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Materials

Name	Company	Catalog Number	Comments
evaporator	home-made		finned heat exchange
condenser	home-made		finned heat exchange
evaporator water tank	home-made		volume:9L
condenser water tank	home-made		volume:9L
vacuum pump	Beijing Jing Rui Ze Xiang Instrument Co. Ltd.		rotation speed:1400 motor power:370W
condenser pressure sensor	Beijing Li Nuo Tian Sheng Instrument Co. Ltd.	16P2623	maximum:2200Pa
bed pressure sensor	Beijing Li Nuo Tian Sheng Instrument Co. Ltd.		maximum:2200Pa
adsorption bed	home-made		cylindrical glass tube
parabolic trough	home-made		high reflective aluminum sheet
water pump	home-made		motor power:250W, water head:8m
water tank	home-made		volume:500L
DRT-2-2 direct solar actinometer	Beijing Tian Yu De Technology Co. Ltd.	03140132	sensitivity:13.257μV/W·m ²
TBQ-2 solar pyranometer	Jinzhou Sunshine Technology Development Co., Ltd., China	209079	sensitivity:12.733μV/W·m ²
SAPO-34 zeolite	Langfang Peng Cai Co., Ltd., China		20mm in length and 2.2mm in diameter
ZSM-5 zeolite	Langfang Peng Cai Co., Ltd., China		5.7mm in diameter