

# Certificate

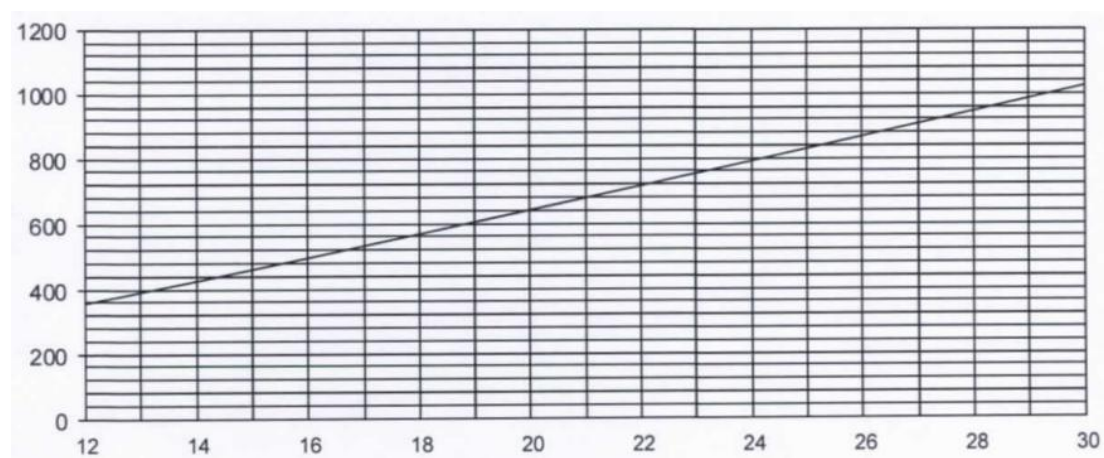
Report NO:NCSA-2022CN-0035

Date:2022/10/3

		Capillary tube mat	
testing	requirement	Testing result	
Hot	Standard	Relationship between heat supply and excess temperature: $Q=20.4616 (T) 1.15W$ ; when $\Delta T=19.5K$ , heat supply: $Q=623.2 W$ ; Heat supply per unit area $207.7 W/m^2$	

Project	Capillary tube mat	Unit	working condition	working condition	working condition
Inlet temperature		°C	40.0	49.95	35.04
outlet temperature		°C	35.06	42.99	31.00
Reference air temperature		°C	17.9	18.13	17.96
flow		10-3kg/s	30.4	30.18	30.06
Excess temperature		K	19.63	28.11	15.94
Inlet specific enthalpy		kJ/kg	167.43	209.89	146.74
outlet specific enthalpy		kJ/kg	146.8	178.00	131.31
Cooling capacity		W	627.65	951.10	468.67

Relation curve between heat supply and excess temperature  $Q(W)$

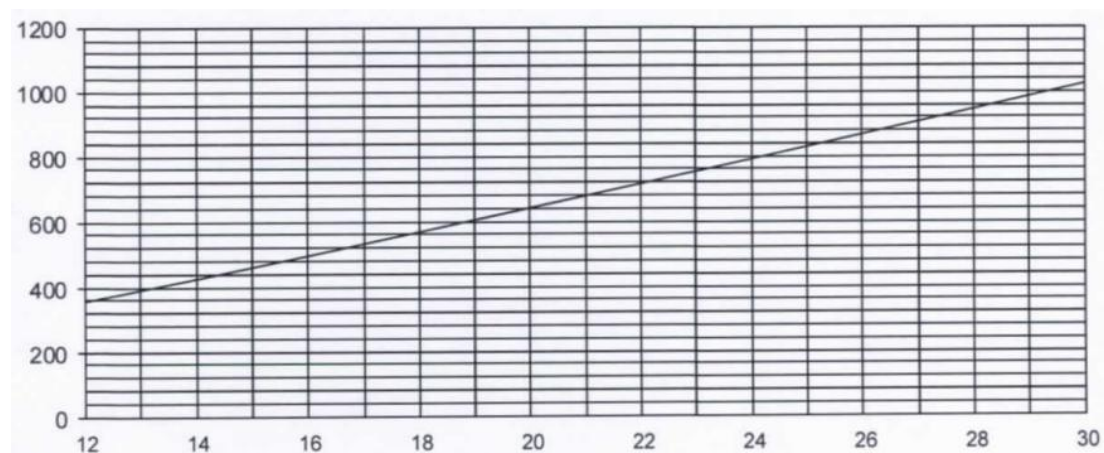


Excess temperature  $\Delta T(K)$

testing	requirement	Testing result	
Cooling	Standard	The relationship between cooling capacity and excess temperature: Q-216091 (T) 12% W When T=8.5K, the cooling capacity: 0=293.9W The cooling capacity per unit area is 98.0W/m <sup>2</sup> .	

Project	Unit	working condition	working condition	working condition
Inlet temperature	°C	16.0	19.05	13.04
outlet temperature	°C	18.98	20.99	17.00
Reference air temperature	°C	26.14	26.13	25.96
flow	10-3kg/s	24.19	24.18	24.06
Excess temperature	K	8.65	6.11	10.94
Inlet specific enthalpy	kJ/kg	67.13	79.89	54.74
outlet specific enthalpy	kJ/kg	79.6	88.00	71.31
Cooling capacity	W	301.65	196.10	398.67


Relation curve between cooling supply and excess temperature Q(w)



Excess temperature  $\Delta T$ (K)

Building environment and Energy testing center of CABR  
 National center of quality supervision and inspection and testing for air conditioning equipment

Sample bulks	2022CN-0035		
Test item	Technician	Test result	Final result
Pressure	The sample is subject to hydro static test. The working pressure is 0.8MPa, the test pressure is 15 times of the working pressure, the test pressure is 1.2MPa, and the pressure is stabilized for 30min. There is no leakage during the stabilization time	OK	OK

No. product	2022CN-0035		
Product data			
Size:3000*1000mm	1 pieces	3 square meters	
Capillary tube mats	Capillary tube size 4.3*0.8 distance:20mm pipe:20mm wall thickness: 2mm		
Photo			

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Inspector

Date: