ULTRA LOW TEMPERATURE COLD TRAP

Microprocessor based

CE

cryo scientific
Just freeze it

Working Principle

- This product is mechanically cooled by a totally enclosed compressor. The inner wall of the cooling tank has cooling copper coils. The refrigerant (Freon) continuously circulates through the coil on the inner wall of the water tank to cool the refrigerant in the tank.
- And then the refrigerant is conveyed to inter-layer of the supporting equipment or the condensation coil through built-in circulation pump and external circulation pipeline. This method can cool the material in the reactor indirectly, and also cool & liquefie the steam in contact with condensation tube.
- The outlet pipe of this product is connected to the lower inlet pipe of the kettle or condenser. The circulating liquid comes out from the upper circulation port and returns to the inlet of this product through the pipe, forming a complete circulation.

Technical Parameters

Model	ULCT-80	
Usable temperature range	-80 ℃ ~ room temperature	
Environment temperature	5°C ~35 ℃	
Environment humidity	≤70% ventilation	
Power supply	Single phase 220V 50Hz/110V 60Hz	
Safety protection	Delay, over-current, overheat	
Display	LCD display, key operation	
Temp control accuracy	±0.1℃	
Sensor	PT100	
Total power	1662W	
Compressors (2 Nos)	Power	1470W
	Cooling capacity	4648W
Air-cooling condenser	Power	92W
	Heating exchange area	8 ㎡
	Air volume	1344m³/h
Refrigerants	CFC & HCFC- free, Eco-friendly R404A & R508	
Condensation coil	Φ8 copper tube plated by nickel	
Equipment material	Cold plate spray, anti-corrosion	
Water tank Dimension & volume	Φ220×Φ180H(mm)	6.8L
Available size in water tank	Φ185mm	
Cover opening	Φ200mm	
Outer circulation interface	Pagoda joint with Φ12mm outer diameter (facing the left side of the equipment)	
Net weight	104KG	

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