

MegaCold 50A Cryochiller

MegaCold Systems support sales & service of cryopumps across America. Our dedicated team have decades of experience within the industry. We pride ourselves in offering rapid breakdown support nationwide and performing in house repairs at our state of the art California facility to the highest standard.

Our expertise & experience means that we have the knowledge to offer full advice and support for most applications. From sizing the correct unit through to design and manufacture of cryocoils, we can offer a complete turn key package.

Working closely with a network of service partners around the world we can support the MegaCold range for end users across the globe.

The MegaCold is available in single or dual cooling circuit models. Dual circuits enables the cooling of two cryosurfaces (two cryocoils, coil and baffle or two baffles) which can be cooled and defrosted separately.



50A
A: 820 mm
B: 1000 mm
C: 1700 mm
W: 560kg

Specifications

MODEL	MegaCold 50A	MegaCold 50AX***
Power Requirements	380-460v, 50/60Hz*	
Maximum Power (KW)	18.1	
Electric Current (A)	31	
Theoretical max pumping speed (l/s)	372,500	
Conservative Pump Speed (l/s)	250,000	
Maximum Cooling Capacity (w)	4000	
Cryocoil Tube Length (M)	50	25****
Cryocoil Surface m ²	2.5	1.25
Pre-Cooling Time (Min)	25	
Cooling Time (Min)	≤5	
Defrost Time (Min)	≤3	
Return Cooled (Min)	≤5	
Cooling	Water Cooled, 18-30°C, 2-4 bar	
Cooling water flow (l/min)**	55	
Refrigerant	Environmental mixed refrigerant	
Control Systems	PLC + Touch screen interface	

*Other voltages available upon request.

**Flow rate required will vary based on temperature.

***Dual cooling circuit.

****Per cooling circuit.

Average Temperature (A) and Cryosurface Temperature vs. Heat Load (B) - 50 Hz

