

Medical Chillers

SAFE COOLING FOR IMAGING SYSTEMS

Rely on the expertise of KKT chillers when it comes to cooling systems for imaging equipment.

For over 20 years, chillers made by KKT chillers have been applied to cool highly sensitive imaging systems. The medical coolers are tailored to the individual products and product series of medical device manufacturers. Series-oriented devices in the power range of 5 - 100 kW have a modular design and can be optimally adapted to your requirements.



TECHNICAL DATA

Medical Chiller	OCLC MED 25 *	cBoxX 60	cBoxX 70	cBoxX 80	cBoxX 100	cBoxX 120	cBoxX 160
Net cooling capacity ¹⁾	26 kW	36 kW	41 kW	49 kW	59 kW	72 kW	86 kW
Refrigerant	R410A						
GWP	2088						
Charge of refrigerant	5,1 kg	7 kg	8 kg		17 kg		
CO ₂ equivalent	10,6 t CO ₂	14,6 t CO ₂	16,7 t CO ₂		35,5 t CO ₂		
Ambient temperature range	-25 °C - 45 °C (optional - 40 °C and 55 °C)			-25 °C - 50 °C			
Max. air flow rate	17.000 m ³ /h	20.000 m ³ /h	23.270 m ³ /h	36.500 m ³ /h		45.550 m ³ /h	
Coolant	Water with 35 Vol.-% Glycol			Water or Water/Glycol			
Expansion vessel	25 l			40 l			
Coolant outlet temperature	6 °C - 14 °C			- 10 °C - 30 °C			
Temperature constancy	± 2 K						
Coolant flow	3,0Σ06,0 m ³ /h	5,5 m ³ /h	6,2 m ³ /h	7,1 m ³ /h	9,1 m ³ /h	10,7 m ³ /h	13,6 m ³ /h
Pumping pressure	4 bar			3 bar (optional 5 bar)			
Sound pressure level ²⁾	55 dB(A)	68 dB(A)	59 dB(A)	71 dB(A)		66 dB(A)	
Operating voltage	400 V / 3 Ph / 50 Hz or 400 V / 3 Ph / 60 Hz or 460 V / 3 Ph / 60 Hz						
Operating current max ⁴⁾	36,0 A	43,0 A	58,0 A	66,7 A	81,5 A	88,7 A	108,5 A
Power consumption max ⁴⁾	11,2 kW	22,7 kW	23,2 kW	29,8 kW	38,5 kW	39,8 kW	53,2 kW
Protection class	IP 54						
Weight ³⁾	530 kg	620 kg	650 kg		700 kg	1.100 kg	1.200 kg
Water connection	IG 1 1/4"		IG 1 1/2"		IG 2"		
Length	1.925 mm	1.240 mm	1.840 mm		2.660 mm		
Width	1.003 mm		830 mm		1.200 mm		
Height	1.750 mm			2.030 mm			

¹⁾ at t_{w2} = 10°C, t_{amb} = 45°C, 50Hz, without pump | ²⁾ in 5m distance without reflection | ³⁾ incl. charge of refrigerant, without charge of coolant | ⁴⁾ 50 Hz, without pump
* Further chillers of the OCLC MED series with a cooling capacity of 44 kW and 69 kW without CE label please see www.kkt-chillers.com/en/downloads/brochures

Accessories	CIP	CIP 2
Designed for	OCLC MED 25 cBoxX 60 - 80	cBoxX 100 - 160
Weight (net, empty)	ca. 56 kg	ca. 70 kg
Weight (transport)	ca. 95 kg	ca. 109 kg
Dimensions (D x W x H)	ca. 346 x 610 x 1.100 mm	
Dimensions (W, incl. mounting screws)	ca. 644 mm	
Dimensions (H, open valves)	ca. 1.352 mm	
Dimensions (D x W x H, transport)	ca. 570 x 740 x 1.480 mm	
Pressure difference (min/max)	4 - 6 bar	
Temperature tap water *	6° C - 20° C	

* Tap water quality in accordance to specification of application

Chiller Interface Panel (CIP) for emergency cooling.

The CIP is mainly designed as an emergency cooling system for the helium compressor. It is connected between chiller, heat exchanger cabinets and city water and can be directly installed in the installation room.