Specifications/ Equipment Ratings

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Working Temperature Range ¹	_
Ambient Temperature Range²	_
Maximum Relative Humidity (Non Condensing)	_
Operating Altitude	
Pollution Degree	
Overvoltage Category	
Degree of Protection	-
Sound Level ³	-
Cooling Capacity at +20°C at -10°C at -40°C at -60°C	-
Compressor Cooling	_
Refrigerant	_
Hose Length	_
Cooling Coil ($\emptyset \times L$)	_
Smallest Bending Radius ⁴	_
Cooler Dimensions (H x W x D)	
Evaporator Material	
Nominal Weight kg/lb	-
Electrical Requirements ⁵	-
Total Maximum Wattage	_

EK45	EK90
-45°C to +40°C -49°F to +104°F	-90°C to +40°C -130°F to +104°F
+10°C to +40°C +50°F to +104°F	+10°C to +40°C +50°F to +104°F
80%/31°C to 50%/40°C	80%/31°C to 50%/40°C
Sea Level to 2000 meters (6560 feet)	Sea Level to 2000 meters (6560 feet)
2	2
II	
IP20	IP20
less than 58 dBA	less than 58 dBA
350 watts/60Hz (300 watts/50Hz) 250 watts/60Hz (220 watts/50Hz) - -	300 watts 280 watts 170 watts 100 watts
Air	Air
R404A	R404A/R23
150 cm	150 cm
81 x195 mm	13 x 900 mm
	40mm
380 x 225 x 465 mm	490 x 380 x 460 mm
300 Series Stainless Steel	300 Series Stainless Steel
27.2 / 60.0	62.7 / 138.2
230V/50Hz or 115V/60Hz 900VA	230V/50Hz or 115V/60Hz 1300VA

1. The lowest possible temperature in a bath and the shortest cooling down time are dependent on: the volume of liquid to be cooled, the type of liquid and its viscosity at the desired working temperature, the heat conductivity of the liquid, the bath vessel and covering insulation, the heat created by any EK immersed in the bath used to recirculate or stir the liquid.

The lowest temperatures possible for the EK45 and EK90 specified above were reached in a Dewar vessel with a volume of 2 liters. Methylcyclohexane was used as the bath liquid and the bath was not stirred.

2. The cooling capacity is reduced at ambient temperatures of > 25°C. 30°C max ambient for setpoints >20°C for EK90, or >0°C for EK45. Example: Setpoint 40°C, max ambient = 30°C.

3.1 meter from EK.

4. Never bend the probe when it is cold.

5. Nominal values $\pm 10\%$.

• Thermo Fisher Scientific reserves the right to change specifications without notice.