



## Throughput Cooler Type DLK

### Applications

As a replacement for cooling systems supplied with waste process water, to cool heat generated in processing, to control the temperature of devices such as centrifuges, microscopes, spectrometers, analysers, distillation devices, rotary evaporators, electrophoresis equipment, reaction vassels.

All throughput coolers DLK can be operated as closed or open systems.  
Multiple custom-built models are available.

### Temperature control

All types DLK ..02 are fitted with an electronic controller with PT 100 sensor and LED display. The level of the cooling liquid is controlled by a level switch in the heat exchanger. The temp. controller also indicates an temp. alarm if the temp. is out of the allowed range.  
Control precision +/- 1K.

### Refrigeration unit

The throughput coolers are fitted with a quiet, hermetically sealed, intrinsically safe, air-cooled refrigeration system and are maintenance-free. If placed in heavily polluted rooms, the condensor should be cleaned every six months.  
No noise pollution due to the quiet compressor, even if placed directly at the workplace.

The refrigeration unit of the type DLK 2002 consists of two cooling cycles that work independent. This allows a better adjustment and also an emergency operation with the second unit if one compressor fails.

### Heat exchanger

The heat exchanger is built of non-ferrous metal for a high cooling capacity. The DLK series units have two 12mm hose connections with M 10 X 1 internal thread, for a reduction to a smaller hose connection. The DLK 402 model has two 1/4" connections with two angle fittings and 8-10mm exhausting tuelles. The 3/4" filler with a vent valve is placed on the top. Thus the cool circle can be filled directly on the cooler, or, if filled external, can be ventilated.

### Casing

All casing parts of the DLK model are made of stainless steel. Only the basic frame is steel sheet and powder coated in black. The DLK 402 model is completely built of special hard foam silver painted and backside grid of stainless steel..

### Accessories

Silikone hose, heat isolated, 10mmØ,  
Service pressure max. 0,5 bar, up to -30°C.  
Fabric hose, heat isolated, 12mmØ, service pressure max. 3,5 bar, up to -20°C.  
Yard good.

### Technical data

Model	Operating range	Cooling capacity watts			Electr. Connections			Circulation pump		Overall dimensions			
		+ 30°	+10°C	- 10°C	Volt	Hz	Amp.	delivery	height	width	length	height	weight
DLK 402	-10 to +40°C	380	270	50	230	50	1,5	4 l/min	1,5 mWs	260	370	405	18,2 kg
DLK 602	-10 to +40°C	580	480	150	230	50	2,8	16 l/min	3 mWs	270	320	500	32 kg
DLK 632	-30 to +20°C	520	440	280	230	50	3,5	16 l/min	3 mWs	270	320	500	32 kg
DLK 1002	-10 to +40°C	980	780	250	230	50	4,0	13 l/min	28 mWs	300	360	600	39 kg
DLK 2002	-10 to +40°C	1900	1500	600	230	50	7,5	13 l/min	30 mWs	400	430	750	74 kg