



## Immersion Cooler TK

### Applications

Immersion Coolers are the cold counterpart to immersion heaters and are used to cool liquids in existing baths. A stainless steel cooling probe is connected to the refrigerator unit by a 1000mm long, highly flexible stainless steel corrugated hose with stainless steel weaving and silicone protective sleeve.

Through this order the equipment can be placed for instance under the table, and the cooling probe at the application on the lab table.

### Temperature control

At all types an electronic controller with LED display is installed. The external PT100 sensor is plugged into a connector and can be placed directly at the cooling good and measure the desired temperature. Control precision +/-1°C.

At all types without temperature control the refrigeration machine works in the continuous operation mode.

### Refrigeration unit

The immersion coolers are equipped with a quiet, hermetically sealed, intrinsically safe, air-cooled compressor and require no maintenance.

If placed in heavily polluted rooms, the condenser should be cleaned every 6 months. Even when placed directly at the workplace, no noise pollution arises from the quiet compressors.

### Casing

The basic frame consists of steel sheet metal and is powder coated in black.

The remaining casing parts are complete stainless steel sheet metal.

Around top and bottom the casing is protected by a blue protective ring, preventing risk of injury through corners and edges.

### Custom-built models

On demand, arbitrary probes can be attached to the flexible hose in custom-built models, e.g. cooling fingers as a cooling trap in the vacuum technology. The neck of the cooling finger at the vacuum-dense conduction does not get less than 0°C cold.

Additional models:

Cooling plates that are installed into work chambers.

Isolated tubs / boxes, which should be set up free of movement separated from the refrigeration unit (crystalline growing).

The stainless steel corrugated hose can be delivered in special measure up to 2000 mm length.

### Technical data

Model	Standard cooling probe	Operating range	Cooling capacity			Electr. connection			Overall proportions			weight	
			+20°C	0°C	-20°C	Volt	Hz	Amp.	width	length	height		
TK 400	without adjustment	Ø 34 / 90 mm	-40 to +50°C	350	150	80	230	50	1,5	244	394	260	20 kg
TK 401	with adjustment	Ø 34 / 90 mm	-40 to +50°C	350	150	80	230	50	1,5	244	394	260	20 kg
TK 600	without adjustment	Ø 34 / 90 mm	-40 to +50°C	580	350	180	230	50	2,8	334	414	300	24 kg
TK 601	with adjustment	Ø 34 / 90 mm	-40 to +50°C	580	350	180	230	50	2,8	334	414	300	24 kg
TK 1000	without adjustment	Ø 50 / 120 mm	-40 to +50°C	980	680	380	230	50	3,4	354	434	340	28 kg
TK 1001	with adjustment	Ø 50 / 120 mm	-40 to +50°C	980	680	380	230	50	3,4	354	434	340	28 kg