

Upright Freezer TS Underbench Freezer TUS

Applications

Small Freezers TS and Underbench Freezers TUS are designed for decentralized freezing and for storage of materials directly at the workplace. With their compact, space saving construction and the quiet refrigeration system (comparable to home freezers, no noise pollution at the workplace) these types are optimized to being placed directly in the laboratory. The division of the of the TS 80-140 interior into three completely divided drawers enables the separated storage of different cooling materials which cannot be stored together. The freezers are fitted with hermetically sealed, intrinsically safe, air-cooled refrigeration systems and are maintenance-free. If placed in heavily polluted rooms, the condenser should be cleaned every six months.

Temperature control

Die Types TS and TUS are fitted with an electronic controller with PT 100 sensor and LED temperature display. Control precision +/- 1K.

Temperature setting is by a coding switch.

The following functions are standard:

Current-independant alarm with optical and audible signal. Red warning lamp activated if temperature increases and the actual value is 5K higher than the setted target value.

Dry alarm contact for the connection to an external alarm system.

Also includes a 10mV/K output into which a temperature recorder or other control- or recording device may be plugged.

Casing

Casing is made of galvanized steel sheet and powder coated in white. The type TUS main casing is stainless steel.

Chamber inside of the types TS / TUS with 55 l volume consists of a stainless steel tub without corners and gaps and therefore is easy to clean and disinfect.

The type TS with 140 litres has three completely seperated chambers. Each chamber is fitted with a stainless steel drawer.

A lockable door handle is standard for all types.

Accessories

Roller frame with four rolls for type TS.

Stainless steel shelves TS 55-RN and drawer shelves TS 55-RS for all 55 litres types.

Stainless steel standard containers in different sizes (see price list) for shelves RN.

Temperature controller which can be plugged into all types.

Technical data

Model	Operating range	Effective space inox, in mm				Electr. Connection			Overall proportions in			weight
		litres	width	depth	height	Volt	Hz	Amp.	width	depth	height	
TS 40-55	-10 to -40°C	55	360	270	560	230	50	2,5	600	610	1150	83 kg
TUS 40-55	-10 to -40°C	55	360	270	560	230	50	2,5	885	620	805	81 kg
TS 50-55	-30 to -50°C	55	360	270	560	230	50	3,0	600	610	1150	83 kg
TUS 50-55	-30 to -50°C	55	360	270	560	230	50	3,0	885	620	805	81 kg
TS 65-55	-50 to -65°C	55	360	270	560	230	50	5,0	600	610	1150	96 kg
TUS 65-55	-50 to -65°C	55	360	270	560	230	50	5,0	885	620	805	94 kg
TS 80-55	-60 to -80°C	55	360	270	560	230	50	6,5	600	610	1150	99 kg
TUS 80-55	-60 to -80°C	55	360	270	560	230	50	6,5	885	620	805	97 kg
TS 80-140	- 70 to -80°C	140	3 drawers			230	50	7,5	740	720	1450	184 kg