

# THERMOSHAKE INCUBATOR SHAKER



Sturdy, powerful incubator shaker in tried and tested C. Gerhardt quality, with linear or circular motion, based on LABOSHAKE.

For homogeneous mixing of organic cultures at a constant temperature and constant speed in continuous operation.

**Scope of delivery** Incubator shaker  
4 vertical rods for attaching accessories  
Instruction manual

## THERMOSHAKE THL / THO

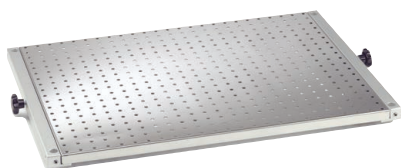
Type	THL 500/1	THO 500/1
<b>TECHNICAL DATA</b>		
Motion	linear $\longleftrightarrow$	circular $\curvearrowright$
Programs	9	9
Time program [h, min, s]	99, 59, 59 and infinite	99, 59, 59 and infinite
Temperature range	5 °C over RT up to 60 °C	5 °C over RT up to 60 °C
Preciseness of control [°C]	< 1	< 1
Speed frequency [min <sup>-1</sup> ]	0 und 20 - 200	0 und 20 - 200
Amplitude [mm]	50	50
Maximum height of bottles [mm]	440	440
Maximum load [kg]	30	30
Nominal voltage [VAC]	230 / 115	230 / 115
Frequency [Hz]	50 - 60	50 - 60
Wattage [W]	650	650
Weight [kg]	66	66
Dimensions shaking platform W x D [mm]	540 x 380	540 x 380
Dimensions inside W x D x H [mm]	690 x 490 x 500	690 x 490 x 500
Dimensions outside W x D x H [mm]	720 x 550 x 825	720 x 550 x 825
RS-485 interface	2	2
<b>DELIVERS</b>		
THERMOSHAKE Basic apparatus	1 x	1 x
Vertical rod 150 mm (for attaching accessories)	4 x	4 x
Mains cable	1 x	1 x
Instruction manual	1 x	1 x
<b>ORDER INFORMATION</b>		
THERMOSHAKE, Version 230 V	11-0006	11-0005
THERMOSHAKE, Version 115 V, 60 Hz	11-0014	11-0013

## ACCESSORIES

Make sure to use only original C. Gerhardt spare parts in order to obtain optimum operating ability. These parts have been tested thoroughly for the operation with THERMOSHAKE in the C. Gerhardt application lab.

### UNIVERSAL PLATE

Stainless steel plates with drill pattern for fastening clip racks, separating funnels and flasks. The plates are simply slid in from the front and fastened at the sides. Suitable for all shaker models.



TB50

Order No.	Type	Description
11-0030	TB 50	Universal plate for LABOSHAKE and THERMOSHAKE 500 x 375 mm with 19 x 25 = 475 drillings Magnetic stainless sheet steel, also suitable for applying magnetic holders.

### CLIP RACKS FOR ERLENMEYER FLASKS

Any number of clip racks TK for Erlenmeyer flasks from 25 ml to 2000 ml can be mounted on the universal plates.

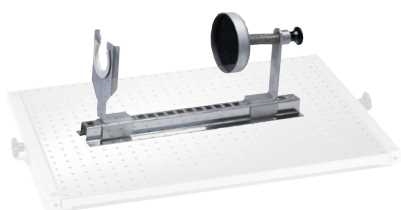


TK50 - TK250 - TK500

Order No.	Type	for flasks	max. clip racks on TB 50
11-0038	TK25	25 ml	54 Stk.
11-0039	TK50	50 ml	48 Stk.
11-0040	TK100	100 ml	33 Stk.
11-0041	TK250	250 ml	20 Stk.
11-0042	TK500	500 ml	12 Stk.
11-0043	TK1000	1000 ml	8 Stk.
11-0044	TK2000	2000 ml	5 Stk.
11-0045	TK3000	3000 ml	4 Stk.
11-0046	TK4000	4000 ml	4 Stk.

### HOLDERS FOR SEPARATING FUNNELS OR BOTTLES

The universal plates can be used for attaching HS holders for separating funnels or HF holders for flasks to variably equippable support rails.

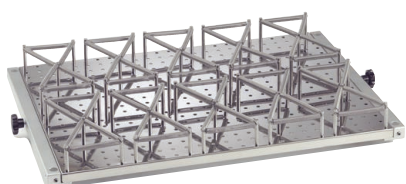


HS5

Order No.	Type	Description
11-0036	HS5	Holder for separatory funnels 500, 1000 or 2000 ml with support rail 490 mm length
11-0037	HF5	Holder for bottles with max. 75 mm Ø with support rail 490 mm length

### FINISHED PLATE

Like universal plates but permanently fitted with pins and stainless steel springs for holding Erlenmeyer flasks. Suitable for all shaker models.



TB52

Order No.	Type	Description
11-0031	TB51	Finished plate for 30 Erlenmeyer flasks 50 - 100 ml
11-0032	TB52	Finished plate for 20 Erlenmeyer flasks 200 - 300 ml

## STOREY FRAMES

Easy-to-assemble kit for space-saving simultaneous shaking of 2 or 3 plates. Can take up either TB51 and TB52 finished plates or TB50 universal plates equipped as desired for shaking Erlenmeyer flasks.



THL500/1 + EA2 + 2xTB52

Due to the height of the incubator shaker only 2 plates can be used.

Order No.	Type	Description
11-0034	EA2	Two storey frame for 2 plates as desired, suitable for LABOSHAKE and THERMOSHAKE, consisting of: 4 vertical rods 250 mm, Order No. 1000425 4 spacer rods, Order No. 1000424 1 diagonal strut, Order No. 1000682 incl. fastening material
11-0035	EA2TH/UA	Two storey frame for 2 universal attachments UA5/TH1 and UA5/TH2, suitable for THERMOSHAKE, consisting of: 4 vertical rods 248 mm, Order-No. 1000666 4 spacer rods, Order-No. 1000424 1 diagonal strut, Order-No. 1000682 incl. fastening material

## UNIVERSAL ATTACHMENTS

Fastening bars and clamping rolls which can be easily attached to the vertical rods on the shaker at the desired height. The clamping rolls, covered with Neoprene cushioning, then run between these two bars thus allowing a wide range of vessels to be safely attached.



UA5/TH1

Bestellnr.	Typ	Beschreibung
11-0021	UA5/TH1	Universal attachment set for THERMOSHAKE consisting of: 2 fastening bars UB 50, longitudinal 3 clamping rolls US 25, transverse
11-0023	UA5/TH2	Universal attachment set for THERMOSHAKE similar to UA5/TH1, but suitable for two storey frame EA2 consisting of: 2 fastening bars UB 50, longitudinal (special) 3 clamping rolls US 25, transverse
11-0024	UA5/TH3	Universal attachment set for THERMOSHAKE similar to UA5/TH2, but consisting of: 2 fastening bars UB 25, transverse (special) 4 clamping rolls US 50, longitudinal