DUAL CENTRIFUGE

ZENTRIMIX 380 R

HOMOGENISATION - FAST AND EFFICIENT

The dual centrifuge ZentriMix 380 R facilitates numerous routine tasks in research and analytical laboratories or makes them partially possible. Examples are the mixing of heavy soluble or difficult to mix components or the production of nanoparticles in closed (sterile) vials. A special advantage is given through the powerful refrigeration for the tissue disruption. In comparison to standard labshakers the noise level is very low during the performance.

HIGHLIGHTS

Easy expansion of additional applications

- (Nano-) Milling of samples
- QuEChERS-Analysis in one step
- Fast und homogeneous Mixing of highly viscous materials

Usage of cheap standard-vials

- saves money
- enables sterile Milling / Mixing / Storage of samples without extra effort
- eliminates cleaning time and effort vs. the standard mills or mixers

QuEChERS-Analysis saves 50-70% of time

- saves cleaning & additional procurement costs
- guarantees sterility of the sample (i.e. genetic analysis after Milling)

Further highlights

- very wide volume bandwidth when mixing (few ml to 2x 100 ml)
- Integrated cooling for sensitive samples
- delivers the same particle sizes as large agitator mills in pharmaceutical production for easy upscaling calculation

FEATURES

- metal housing and lid
- viewing port in the lid
- powered one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- display in °C and °F possible
- imbalance switch-off
- backlit panel with actual values of all parameters
- auditory message after completion of the centrifugation run

TECHNICAL DATA

	ZentriMix 380 R	
voltage *)	200 – 240 V 1 ~	110 – 127 V 1 ~
frequency	50 – 60 Hz	60 Hz
consumption	1,400 VA	1,600 VA
emission, immunity	EN/IEC 61326-1, class B	FCC class B
max. capacity	6 x 50 ml / 40 x 2.0 ml	6 x 50 ml / 40 x 2.0 ml
max. RPM	5,000 min^{-1}	5,000 min^{-1}
max. RCF	4,863	4,863
dimensions (W x D x H)	472 x 759 x 418 mm	472 x 769 x 418 mm
weight	approx. 81.5 kg	approx. 89 kg
Cat. No.	**3200**	**3200-01**

*) Other voltages on request.

AVAILABLE ROTORS

ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	H rotor, 2-place	45 °	1,500 min^{-1}	6 x 50 ml	**3206**	3
	S rotor, 2-place	45 °	2,500 min^{-1}	40 x 2.0 ml	**3205**	3
	Swing-out rotor, 4-place	90 °	5,000 min^{-1}	4 x 250 ml	**3234**	4

H ROTOR, 2-PLACE

Rotor	
max. RPM I max. RCF	1,500 min^{-1} I 377
max. capacity	6 x 50 ml
run-up I run-down, braked in sec	22 I 24
angle I temperature in °C [2]	45° I +20
Cat. No.	**3206**

Vessels		
capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF [2]	377	377
radius in mm	150	150
Cat. No.	**tubes [2]**	

Adapter		
vessels per rotor	6	6
Cat. No.	**3218**	**3218**

S ROTOR, 2-PLACE

Rotor	
max. RPM I max. RCF	2,500 min^{-1} I 1,048
max. capacity	4 x 10 ml
run-up I run-down, braked in sec	35 I 35
angle I temperature in °C [2]	45° I +20
Cat. No.	**3205**

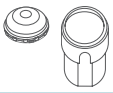
Vessels			
capacity in ml	2.0 [3]	2.0 [3]	10
Ø x L in mm	11 x 47	11 x 47	25.5 x 49
max. RCF [2]	1,048	1,048	1,048
radius in mm	150	150	150
Cat. No.	**3225**	**3225**	**-**

Adapter			
vessels per rotor	40	40	4
Cat. No.	**3209**	**3210**	**3209**

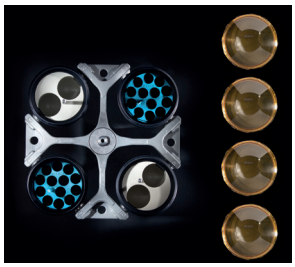
2) Lowest attainable temperature at max. speed. Lower temperatures can be attained by reducing the speed.
3) Please only use Hettich tube Cat. No. 3225.
4) Please only use polypropylene vessels in accordance with ISO 8362 (No Glass!), to fit into the adapter the height of the vessel including crimp cap and stopper should be 48.5 mm.

SWING-OUT ROTOR, 4-PLACE | 1760

Rotor	
max. RPM I max. RCF	5.000 min^{-1} I 4.863
max. capacity	4 x 250 ml
run-up I run-down, braked in sec	42 I 27
angle	90°
temperature in °C [1]	0
Cat. No.	**1754**



Bucket	
lid bioseal [5]	1751
Cat. No.	**1752**



Vessels														
capacity in ml		2.0	9 [6]	15	94	100	100	250	15	50	30	50	250	250 [8]
Ø x L in mm		11 x 47	14 x 100	17 x 100	38 x 102	40 x 115	44 x 100	65 x 115	17 x 120	29 x 115	25 x 110	29 x 115	61 x 122	61 x 122
max. RCF [2]	top / bottom	3,494 / 4,779	4,668	4,668	4,807	4,640	4,640	4,640	4,863	4,863	4,528	4,752	4,863	4.863
radius in mm	top / bottom	125 / 171	167	167	172	166	166	166	174	174	162	170	174	174
Bestell-Nr.		**3225**	**-**	**tubes [2]**						**tubes with screw cap**				

Adapter														
boring Ø x L in mm		11.2 x 39.5	17.5 x 62	17.5 x 62	38.5 x 80	41 x 97	45 x 87	66 x 104.5	17 x 84	30 x 84	26.5 x 72	30 x 80	62 x 100	62 x 100
vessels per rotor		144	52	52	8	4	4	4	36	16	20	16	4	4
Cat. No.		**1761**	**1761**	**1763-A**	**1763-A**	**1777**	**1767**	**1766**	**1768**	**1771-A**	**1772-A**	**1779**	**1774-A**	**1769**

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
6) Polypropylene vessels in accordance with ISO 8362.
7) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 7) is 4,000.
8) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

CERTIFICATES / REGISTRATIONS

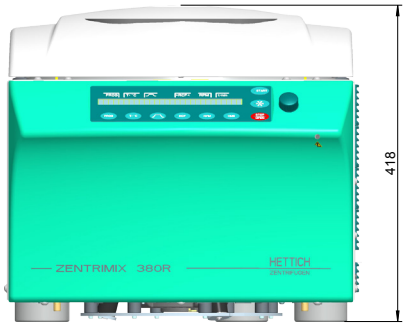
MADE IN GERMANY

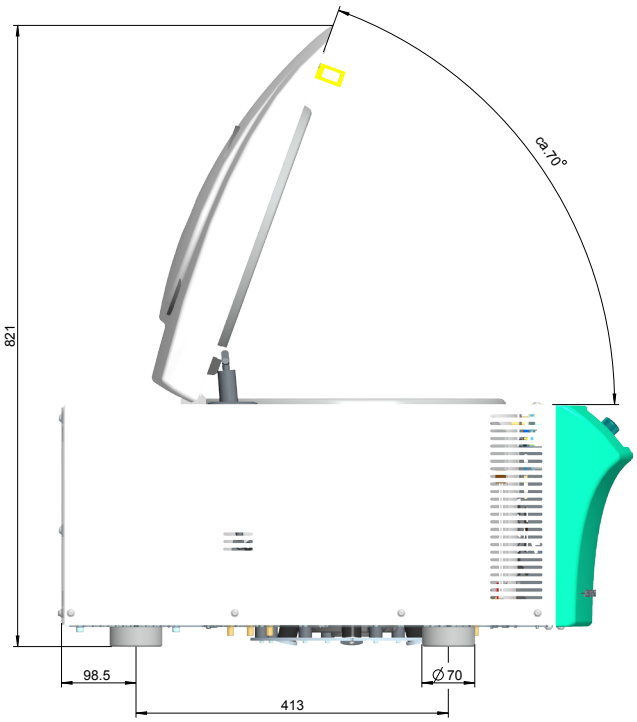
www.tuev-sued.de/ps-zert

DOWNLOADS

- Operating Manual – ZentriMix 380 R
- Complete Range Catalogue

DIMENSIONS – ZENTRIMIX 380 R





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Andreas Hettich GmbH & Co. KG
Föhrenstr. 12
D-78532 Tuttlingen
Germany

info@hettichlab.com
Phone +49 7461 705-0