

BENCHTOP CENTRIFUGES

# — ROTANTA 460 | 460 R

## SUPERIOR BENCHTOP FOR MULTI-PURPOSE USE

This powerful unit is capable of virtually any application you choose. It is able to spin high sample volumes of blood tubes, conical tubes, plates and bottles. Speciality buckets are able to accommodate 450 ml blood bags.

This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTANTA 460 R).



## — HIGHLIGHTS

- RPM: 50 - 15,000 min<sup>-1</sup>  
Adjustable in increments of 10
- RCF: 50 - 24,400  
Adjustable in increments of 1
- max. Capacity: 4 x 1,000 ml
- choice of 8 rotors
- Medical Device according to directive 93/42/EC
- 28 individual acceleration and deceleration stages
- easy operation with keypad and control knob
- 98 program memories for more individuality
- model 460 R coolable from -20 to +40 °C with pre-cooling function

## — 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 monitoring and switch-off
- backlit panel with actual values of all parameters
- auditory message after completion of the centrifugation run






## TECHNICAL DATA

	<b>ROTANTA 460</b> non-refrigerated	<b>ROTANTA 460 R</b> refrigerated
voltage *)	220 – 240 V 1 ~	220 – 240 V 1 ~
frequency	50 – 60 Hz	50 Hz
consumption	1,000 VA	1,800 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 1,000 ml	4 x 1,000 ml
max. RPM	15,000 min <sup>-1</sup>	15,000 min <sup>-1</sup>
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	554x706x456 mm	770x706x456 mm
weight	approx. 101 kg	approx. 141 kg
noise level	46 dB (A) with rotor 4474	58 dB (A) with rotor 4474
temperature control, infinitely variable	-	from -20 to +40 °C
<b>Cat. No.</b>	<b>5650</b>	<b>5660</b>
100 – 127 V 1 ~ / 60 Hz *)	5650-01	5660-01
consumption	1,100 VA	2,000 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 111 kg	approx. 151 kg

\*) Other voltages on request.

## AVAILABLE ROTORS

### SWING-OUT ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 swing-out rotor, 4-place	90°	4,600 min <sup>-1</sup>	4x750 ml	<b>5699-R</b>	3
 swing-out rotor, 4-place	90°	3,800 min <sup>-1</sup>	4x1,000 ml	<b>5654</b>	10
 swing-out rotor, 6-place	90°	4,000 min <sup>-1</sup>	6x290 ml	<b>4446</b>	12
 swing-out rotor, 4-place	90°	2,000 min <sup>-1</sup>	4x100 ml	<b>4474</b>	14
 swing-out rotor, 2-place	90°	5,900 min <sup>-1</sup> / 6,200 min <sup>-1</sup>	12 plates	<b>5622</b>	14

### ANGLE ROTORS

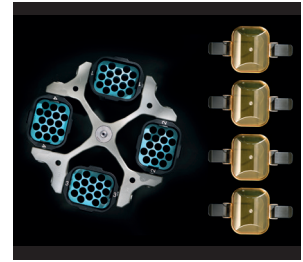
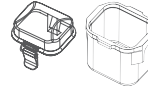
 angle rotor, 30-place	45°	15,000 min <sup>-1</sup>	30x2 ml	<b>4489-A</b>	15
 angle rotor, 6-place	25°	8,500 min <sup>-1</sup> / 9,500 min <sup>-1</sup>	6x250 ml	<b>5645</b>	15
 angle rotor, 6-place	45°	11,500 min <sup>-1</sup>	6x94 ml	<b>5615</b>	16

## SWING-OUT ROTOR, 4-PLACE | 5699-R



<b>Rotor</b>	
max. RPM   max. RCF <sup>2)</sup>	4,600 min <sup>-1</sup>   5,063
max. capacity	4x250 ml
run-up   run-down, braked in sec	90   95
angle   temperature in °C <sup>1)</sup>	90°   +10
<b>Cat. No.</b>	<b>5699-R</b>

<b>Bucket</b>	
lid bioseal <sup>5)</sup>	5627
<b>Cat. No.</b>	<b>5625-A</b>



<b>Vessels</b>															
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	50	94	100	100	250
Ø x L in mm	11 x 38	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	38 x 102	44 x 100	40 x 115	65 x 100
max. RCF <sup>2)</sup>	3,572	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495	4,637	4,495	4,495
radius in mm	151	196	196	196	196	196	196	196	196	196	190	190	196	190	190
<b>Cat. No.</b>	<b>microliter tubes</b>			<b>tubes<sup>2)</sup></b>											

<b>Adapter</b>															
boring Ø x L in mm	11 x 84	11 x 84	11 x 84	11 x 84	13.5 x 84	13.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	26.5 x 84	36 x 80	42 x 80	46 x 84	42 x 80	66 x 80
vessels per rotor	224	224	120	120	80	80	80	80	68	24	12	12	8	12	4
<b>Cat. No.</b>	<b>4730</b>	<b>4730</b>	<b>4730</b>	<b>4730</b>	<b>4732</b>	<b>4732</b>	<b>4732</b>	<b>4732</b>	<b>4733</b>	<b>4734</b>	<b>4735</b>	<b>4736</b>	<b>4737</b>	<b>4736</b>	<b>4738</b>

<b>Vessels</b>															
capacity in ml	1.1-1.4	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	7.5-8.5	9-10	10	1.6-5	4-7	4-7	8.5-10	14	15
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100	16.5 x 106	17 x 120
max. RCF <sup>2)</sup>	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637
radius in mm	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196
<b>Cat. No.</b>	<b>blood collection / urine vessels</b>												<b>tubes with screw cap</b>		

<b>Adapter</b>															
boring Ø x L in mm	11 x 84	13.5 x 84	13.5 x 84	17.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	17.5 x 84	17.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	17.5 x 84	17 x 80	17 x 80
vessels per rotor	120	80	80	68	80	80	68	68	68	80	80	68	68	48	48
<b>Cat. No.</b>	<b>4730</b>	<b>4732</b>	<b>4732</b>	<b>4733</b>	<b>4732</b>	<b>4732</b>	<b>4733</b>	<b>4733</b>	<b>4733</b>	<b>4732</b>	<b>4732</b>	<b>4733</b>	<b>4733</b>	<b>4739<sup>4)</sup></b>	<b>4739</b>

<b>Vessels</b>										
capacity in ml	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
max. RCF <sup>2)</sup>	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495
radius in mm	196	196	196	196	196	196	196	196	196	190
<b>Cat. No.</b>	<b>tubes with screw cap</b>									

<b>Adapter</b>										
boring Ø x L in mm	30 x 80	17 x 80	26.5 x 84	26.5 x 84	30 x 80	17.5 x 84	26.5 x 84	30 x 80	42 x 80	42 x 80
vessels per rotor	20	48	24	24	20	68	24	20	12	12
<b>Cat. No.</b>	<b>4740</b>	<b>4739<sup>4)</sup></b>	<b>4734</b>	<b>4734</b>	<b>4740</b>	<b>4733</b>	<b>4734</b>	<b>4740</b>	<b>4736</b>	<b>4736</b>

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) 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 2) is 4,000.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.