

# Herolab

*Manufacturer  
of Life Science*



HiGen<sup>®</sup> XL

Extra-Large High-Speed Floor Centrifuge

Catalog No.	Description		Voltage	Phases	Hz
21 10 200	HiCen XL, Standard for Europe	refrigerated	400/440 V	3	50/60 Hz
21 10 202	HiCen XL, Standard for Europe	refrigerated	220-240 V	1	50 Hz
21 10 204	HiCen XL,	refrigerated	208-220 V	1	60 Hz
21 10 206	HiCen XL,	refrigerated	220 V	3	50/60 Hz
21 10 208	HiCen XL, Middle-East-Version	refrigerated	208-220 V	1	50 Hz

- maximum capacity: **6 x 1000 ml**
- microprocessor controlled
- 16 angle rotors, 4 swing-out rotors, 2 vertical rotors
- speed: 500 – 21,000 rpm, in steps of 100 rpm
- g-force (RCF): 50,743 x g, in steps of 10 x g
- timer: up to 180 min, in 1 min increments
- HOLD for longer runs
- 8 acceleration and deceleration ramps
- maintenance free, brushless induction drive
- stainless steel chamber with additional inner guard ring
- overspeed detection, imbalance detection and cut-off
- motorized lid lock, automatic lid opening, emergency lid lock release
- large color display for both current and preset values of speed/g-force, time and temperature



### Additional Options (Available on request for all models of HiCen XL against surcharge)

Cat. No.	Options
21 10 900	Water Cooling System (minimizes the heat output into the laboratory)
20 90 910	Inertgas (Nitrogen) Flushing
20 90 920	$\omega^2t$ Integrator
20 90 930	Password Protected Start
20 90 940	GLP Conform Data Management
20 90 950	Audible Signal in Case of Error
20 90 960	0.5°C Temperature Accuracy
20 90 970	Operating-Hours Indicator



Cat. No. 20 90 501

### Swing-Out Rotors

HiCen<sup>®</sup> XL

Cat. No.	Type	Max. Capacity		Max. Speed	Max. g-Force
20 90 501	<b>AS 4.500</b>	<b>4 x 500 ml</b>	Basic rotor, buckets to be ordered separately		
20 90 540	carrier	4 x 4 microplates	Set of 4 carriers for total of 16 microplates	5,200 rpm	4,595 x g
20 90 502	buckets	4 round buckets for 1 x 500 ml w./o. caps, resp. for adapters		5,200 rpm	5,290 x g
25 35 51	bottles	Bottles 500ml PPCO (98 x 114 mm) with caps, 4 bottles			
20 90 550	Trunnion rings	4 x (7 x 50 ml F)	Set of 4 trunnion rings with adapters	5,200 rpm	5,290 x g
20 90 551	Trunnion rings	4 x (14 x 15 ml F)	Set of 4 trunnion rings with adapters	5,200 rpm	5,290 x g
20 70 060	<b>AS 4.750</b>	<b>4 x 750 ml</b>	Basic rotor <b>incl. windshield</b> , buckets to be ordered separately		
20 70 400	carrier	4 x 4 microplates	Set of 4 carriers	3,000 rpm	1,902 x g
20 70 100	buckets	4 rectangular buckets for tube racks		5,000 rpm	5,450 x g
20 70 300	buckets	4 round buckets for 1 x 750 ml each w./o. caps, resp. for adapters		4,500 rpm	4,800 x g
20 70 050	<b>AS 4.1000</b>	<b>4 x 1000 ml</b>	Basic rotor, buckets to be ordered separately		
20 70 400	carrier	4 x 4 microplates	Set of 4 carriers	3,000 rpm	1,902 x g
20 70 100	buckets	4 rectangular buckets for tube racks		3,600 rpm	2,825 x g
20 70 300	buckets	4 round buckets for 1 x 750 ml each w./o. caps, resp. for adapters		3,600 rpm	3,072 x g
20 70 200	buckets	4 round buckets for 1 x 1000 ml each w./o. caps, resp. for adapters		3,600 rpm	3,362 x g

## Angle Rotors (with hermetically sealing lid)

HiCen® XL

Cat. No.	Type	Max. Capacity	Angle	Max. Speed	Max. g-Force
20 96 100	AF 24.2	24 x 1.5/2.2 ml	45°	18,000 rpm	36,223 x g
20 75 100	AF 72.2	72 x 1.5/2.2 ml	40°	16,000 rpm	36,062 x g
20 94 100	AF 20.10	20 x 10 ml	25°	18,000 rpm	35,499 x g
20 35 00	A 12.24	12 x 14 ml	40°	21,000 rpm	45,853 x g
20 26 100	AF 24.16	24 x 16 ml	28°	20,000 rpm	49,281 x g
20 45 100	AF 12.30	12 x 30 ml	28°	15,000 rpm	26,790 x g
20 93 000	AF 8.50.1	8 x 50 ml	34°	20,500 rpm	50,743 x g
20 93 100	AF 8.50.2	8 x 50 ml	25°	18,000 rpm	34,774 x g
20 98 100	AF 8.50.3	8 x 50 ml Falcon	40°	13,500 rpm	21,191 x g
20 44 00	A 12.17	12 x 50 ml	34°	16,500 rpm	39,569 x g
20 92 100	AF 6.94	6 x 94 ml	25°	18,000 rpm	35,499 x g
20 71 00	A 8.20	8 x 94 ml	25°	19,000 rpm	45,203 x g
20 22 100	AF 6.250	6 x 250 ml	30°	14,000 rpm	31,774 x g
20 23 100	AF 6.500	6 x 500 ml	30°	10,500 rpm	20,560 x g
20 24 100	AF 4.1000	4 x 1000 ml	22°	8,000 rpm	12,042 x g
20 25 100	AF 6.1000	6 x 1000 ml	22°	7,000 rpm	11,291 x g



Cat. No. 20 35 00



Cat. No. 20 93 000



Cat. No. 20 25 100



Cat. No. 20 48 00

## Vertical Rotors

HiCen XL

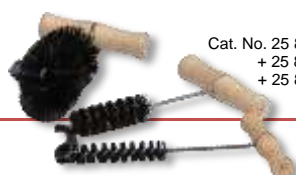
Cat. No.	Type	Max. Capacity	Angle	Max. Speed	Max. g-Force
20 46 00	AV 8.20	8 x 38.5 ml	0°	20,000 rpm	40,248 x g
20 48 00	AV 8.19	8 x 94 ml	0°	19,000 rpm	36,727 x g

## Accessories

Cat. No. 25 80 60



Cat. No. 25 80 90  
+ 25 80 70  
+ 25 80 80



Cat. No. 25 80 20  
resp. 25 81 20



Cat. No. 25 81 60 + 25 81 30

Cat. No.	Accessories	Units per pack
25 80 60	Rotor stand for all rotors with conical hub	1
25 80 70	Cleaning brush for all rotors with bores of 50 ml	1
25 80 80	Cleaning brush for all rotors with bores of 14/15/16 ml	1
25 80 90	Cleaning brush for all rotors with bores of 250/290 ml	1
25 80 20	Extractor tool for 50 ml tubes with rim	1
25 81 20	Extractor tool for bottom pad for bottles	1
25 81 60	Tool M4 for the extraction of adapters out of rotors	1
25 80 30	Tool M6 for the extraction of adapters out of rotors	1

For detailed Information about the comprehensive range of **centrifuge tubes und bottles** from our production and their possible use in centrifuges of other manufacturers please refer to our catalog "Centrifuge Labware".

We also manufacture the most popular tubes and bottles for Ultra Centrifuges.



## Specification

## HiCen® XL



Catalog No. (400/440V, 50/60 Hz, 3 Phases)	21 10 200
Maximum Capacity	6 x 1000 ml
Maximum Speed	21,000 rpm
Max. g-Force/RCF (depending on rotor)	50,743 x g
Minimum Speed	> 500 rpm
Rotor Detection	APRI™ System = Automatic Positive Rotor Identification for Herolab rotors
Program Memory	30 programs
Display	Color TFT Display for current and preset values
User Interface	Operating panel with buttons and one rotary knob
Preset Time	Up to 180 minutes with increments of 1 min., „HOLD“ for longer runs
Preset Speed	From 500 rpm up to max. speed with increments of 100 rpm
Preset g-Force/RCF	With increments of 10 x g
Drive System	Direct self-centering drive system with brushless induction motor
Speed Accuracy	Deviation less than 1 % (typical: 0.5 %)
Acceleration Time (depending on rotor)	30 sec. – 2.5 min.
Deceleration Time (depending on rotor)	40 sec. – 3.5 min.
Acceleration/Deceleration Rates	8 ramps in steps of 30 sec. from 0 to 240 sec. in the range of 0 – 1.000 rpm
Braking System	Dynamic electric brake system
Temperature Set Range	-20°C to +40°C with increments of 1°C
Cooling at Standstill	YES
Temperature Control Accuracy	±2°C on calibrated rotor
Temperature Control System	Bypass System
Sample Protection	±4°C to ±10°C from preset temperature
Overtemperature Protection	YES
Refrigeration System	CFC-free refrigerant



Safety Features	Overspeed detection
	Imbalance detection and cut-off
	Four point lid fixing
	Automatic motor driven lid lock with emergency lid lock release
	Stainless steel chamber with additional inner guard ring

Dimensions (W x D x H): in cm (in inches)	78.0 x 90.0 x 92.0 (30.7 x 35.4 x 36.2)
Shipping Dimensions in cm (in inches)	95.0 x 105.0 x 114.0 (37.4 x 41.3 x 44.9)
Net Weight	420.0 kg (926 lbs.)
Gross Weight	460.0 kg (1,014 lbs.)



# Herolab

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All products built by Herolab carry the CE sign.  
Herolab is certified according to  
DIN EN ISO 9001:2008 and DIN EN ISO 13485.






WEEE-Reg. No.  
DE66734561

All prices without VAT, ex Works – Herolab reserves the right to change technical specification and prices without prior notice.

2017-01

# Tubes and Adapters for Rotors of HiCen XL

## for Rotors AF 24.2 + AF 72.2

Tubes	2.0-2.2 ml	1.5 ml	0.5-0.7 ml	0.25-0.4 ml	0.2 ml
Tubes Ø x Length (mm)	11/13 x 40	11/13 x 40	8/10 x 28-31	Ø 6 mm	PCR <sup>®</sup> Tubes
Material of Tubes + Herolab Cat. No.	Tubes not available from Herolab	conical with lid PP: 25 20 50	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab
Necessary Adapter	---	---			
Herolab Cat. No.	---	---	25 50 06	25 50 05	25 50 07
Tubes per Adapter / Rotor	- / 24 resp. 72	- / 24 resp. 72	1 / 24 resp. 72	1 / 24 resp. 72	1 / 24 resp. 72
(Pack of 6 Adapters)	---	---			

Cat. No. 25 20 50      Cat. No. 25 50 07



Cat. No. 25 50 06      Cat. No. 25 50 05

Cat. No. 20 75 100



Cat. No. 20 96 100

Cat. No. 20 94 100



Cat. No. 25 24 01 / 11 / 41 / 51



Cat. No. 25 25 70 / 25 80 / 26 60 / 25 90 / 26 90

## for Rotor




## AF 20.10

Tubes	10 ml AOR	13.5 ml
Tubes Ø x Length (mm)	16 x 80	16 x 76
Material of Tubes + Herolab Cat. No.	PC: 25 24 01 PPCO: 25 24 11 PE: 25 24 41 PF: 25 24 51	PP: 25 24 70
Necessary Adapter	---	---
Herolab Cat. No.	---	---
Tubes per Adapter / Rotor	- / 20	- / 20
(Pack of 2 Adapters)	---	---

Cat. No. 20 35 00



## A 12.24

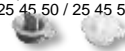
14 ml	5 ml Glass	4.5 / 5 ml	1.5 ml
18 x 75	12 x 75	12 x 75	11/13 x 40
PC: 25 25 70* PP: 25 25 80* PE: 25 26 60* PF: 25 25 90* PA: 25 26 90*	B: 25 10 20	PP: 25 22 30 PS: 25 22 00	conical with lid PP: 25 20 50
---			
---	25 56 40	25 50 73	25 50 71
- / 12	1 / 12	1 / 12	1 / 12
---			

Cat. No. 25 27 00 / 20 / 40 / 51



Cat. No. 20 26 100

\* Snap-on caps for 14 ml and 16 ml tubes available  
(Cat No. 25 45 50 / 25 45 51)







Cat. No. 25 29 51 / 61 / 65 / 71



## for Rotor

## AF 24.16

Tubes	16 ml with rim	12/15 ml Glass	10 ml Glass	4.5 / 5 ml	3 ml Glass	1.5 ml
Tubes Ø x Length (mm)	18 x 100	18 x 102	13 x 100	12 x 75	10 x 75	11/13 x 40
Material of Tubes + Herolab Cat. No.	PC: 25 27 00* PPCO: 25 27 20* PE: 25 27 40* PF: 25 27 51*	12 ml: B: 25 11 00 15 ml HS: 25 10 91	D: 25 10 40	PP: 25 22 30 PS: 25 22 00	D: 25 10 10	conical with lid PP: 25 20 50
Necessary Adapter	---					
Herolab Cat. No.	---	25 58 20	25 56 00	25 50 72	25 55 80	25 50 70
Tubes per Adapter / Rotor	- / 24	1 / 24	1 / 24	1 / 24	1 / 24	1 / 24
(Pack of 2 Adapters)	---					

## AF 12.30

30 ml AOR
25 x 92
PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71
---
- / 12
---



## for Rotor **AF 8.50.1 + AF 8.50.2 + A 12.17**

Tubes	50ml AOR	50 ml with rim	50 ml with cap	45 ml Glass	30 ml AOR	30 ml Glass	16 ml with rim	12/15 ml Glass
Tubes Ø x Length (mm)	29 x 103	29 x 103	29 x 103	28 x 102	25 x 92	24 x 105	18 x 100	18 x 102
Material of Tubes + Herolab Cat. No.	PC: 25 32 01 PPCO: 25 32 11 PE: 25 32 15 PF: 25 32 21	PC: 25 31 00 PPCO: 25 31 60 PE: 25 31 30 PF: 25 31 51	PC: 25 31 05 PPCO: 25 31 45	B: 25 12 60	PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71	B: 25 11 10 HS: 25 11 41	PC: 25 27 00 PPCO: 25 27 20 PE: 25 27 40 PF: 25 27 51	12 ml: B: 25 11 00 15 ml HS: 25 10 91
Necessary Adapter	---	---	---					
Herolab Cat. No.	---	---	---	25 58 00	25 50 61	25 55 60	25 50 50	25 55 50
Tubes per Adapter / Rotor	- / 8 resp. 12	- / 8 resp. 12	- / 8 resp. 12	1 / 8 resp. 12	1 / 8 resp. 12	1 / 8 resp. 12	1 / 8 resp. 12	1 / 8 resp. 12
(Pack of 2 Adapters)	---	---	---					

Tubes	10ml AOR	10 ml Glass	10 ml Glass	4.5/5 ml	3 ml Glass	1.5 ml	1 ml
Tubes Ø x Length (mm)	16 x 80	18 x 102	13 x 100	12 x 75	10 x 75	11 x 40	7 x 50
Material of Tubes + Herolab Cat. No.	PC: 25 24 01 PPCO: 25 24 11 PE: 25 24 41 PF: 25 24 51	conical D: 25 10 60	D: 25 10 40	PP: 25 22 30 PS: 25 22 00	D: 25 10 10	conical with lid PP: 25 20 50	PS: 25 20 00
Necessary Adapter							
Herolab Cat. No.	25 50 30	25 55 40	25 55 30	25 50 11	25 55 10	25 50 10	25 50 00
Tubes per Adapter / Rotor	1 / 8 resp. 12	1 / 8 resp. 12	1 / 8 resp. 12	2 / 16 resp. 24	2 / 16 resp. 24	2 / 16 resp. 24	4 / 32 resp. 48
(Pack of 2 Adapters)							



## for Rotor **AF 8.50.3**

Tubes	50 ml Falcon	30 ml AOR	15 ml Falcon
Tubes Ø x Length (mm)	29 x 118	25 x 92	17 x 122
Material of Tubes + Herolab Cat. No.	Tubes not available from Herolab	PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71	Tubes not available from Herolab
Necessary Adapter	---		
Herolab Cat. No.	---	25 50 62	25 53 80
Tubes per Adapter / Rotor	- / 8	1 / 8	1 / 8
(Pack of 2 Adapters)	---		







## for Rotor **AF 6.94 + A 8.20**


Tubes	94 ml	94 ml	80 ml AOR
Tubes Ø x Length (mm)	38 x 102	38 x 106	38 x 105
Material of Tubes + Herolab Cat. No.	thick-walled PC: 25 32 80 PA: 25 32 60 thick-w. w. thread PC: 25 32 90	PP: 25 32 50	PC: 25 32 41 PPCO: 25 32 45 PE: 25 32 47 PF: 25 32 49
Necessary Adapter	---	---	---
Herolab Cat. No.	---	---	---
Tubes per Adapter / Rotor	- / 6 bzw. 8	- / 6 bzw. 8	- / 6 bzw. 8
(Pack of 2 Adapters)	---	---	---

Kat.-Nr. 20 71 00

Kat.-Nr. 20 92 100

## for Rotor **AF 6.250**

Tubes/Bottles	250 ml	250 ml	200ml	100/120 ml	30 ml Glass	16 ml with rim	12/15 ml	10 ml
Tubes Ø x Length (mm)	62 x 122	62 x 122	60 x 115	40 x 115	24 x 105	18 x 100	18 x 102	13 x 100
Material of Tubes + Herolab Cat. No.	PC: 25 34 01 PPCO: 25 34 21 PE: 25 34 31 PF: 25 34 39 PP black: 25 34 12	round bottom: PC: 25 34 41 PP: 25 34 43 PPCO: 25 34 45 PE: 25 34 47 PF: 25 34 49	D: 25 12 70	100 ml: PC: 25 33 00 120 ml: PP: 25 33 10	B: 25 11 10 HS: 25 11 41	PC: 25 27 00 PPCO: 25 27 20 PE: 25 27 40 PF: 25 27 51	12 ml: B: 25 11 00 15 ml HS: 25 10 91	D: 25 10 40
Necessary Adapter	---							
Herolab Cat. No.	---	25 51 90	25 58 10	25 51 70	25 51 60	25 51 30	25 51 10	25 51 10
Tubes per Adapter / Rotor	-	1 / 6	1 / 6	1 / 6	3 / 18	5 / 30		9 / 54
(Pack of 2 Adapters)		(pack of 6 pads)						

Tubes	4.5/5 ml	3 ml	1.5 ml
Tubes Ø x Length (mm)	12 x 75	10 x 75	11/13 x 40
Material of Tubes + Herolab Cat. No.	PP: 25 22 30 PS: 25 22 00	D: 25 10 10	conical with lid PP: 25 20 50
Necessary Adapter			
Herolab Cat. No.	25 51 00	25 50 90	25 52 10
Tubes per Adapter / Rotor	9 / 54	15 / 90	15 / 90
(Pack of 2 Adapters)			



Cat. No. 25 34 01 / 21 / 31 / 39 / 12

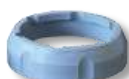
Cat. No. 25 34 41 / 43 / 45 / 47 / 49



Cat. No. 20 22 100

## for Rotor **AF 6.500**

Bottles	500 ml
Tubes Ø x Length (mm)	70 x 165
Material of Tubes + Herolab Cat. No.	PC: 25 35 01* PPCO: 25 35 21* PE: 25 35 31* PP black: 25 35 12*
Necessary Adapter	---
Herolab Cat. No.	---
Tubes per Adapter / Rotor	- / 6
(Pack of 4 Adapters)	---



\* For safety reasons always use 500 ml bottles with cover support ring (Cat. No. 25 52 41)!



Cat. No. 25 35 01 / 21 / 31 / 12



Cat. No. 20 23 100

## AF 4.1000 + AF 6.1000

Bottles	1000 ml
Tubes Ø x Length (mm)	98 x 175
Material of Tubes + Herolab Cat. No.	with neck support: PC: 25 35 65** PPCO: 25 35 75**
Necessary Adapter	---
Herolab Cat. No.	---
Tubes per Adapter / Rotor	- / 4 bzw. 6
(Pack of 4 Adapters)	---



Cat. No. 25 35 65 / 75

\*\* In angle rotors only use 1000 ml bottles with neck support!



Cat. No. 20 25 100

Cat. No. 20 24 100

## for Rotor AV 8.20

Tubes	38.5 ml	38.5 ml
Tubes Ø x Length (mm)	25 x 89	25 x 89
Material of Tubes + Herolab Cat. No.	thin-walled: PA: 25 30 50 thick-walled: PC: 25 30 40 PA: 25 30 60	thick-walled with thread: PC: 25 30 20 aluminum screw cap: 25 46 85
Necessary Adapter	---	---
Herolab Cat. No.	---	---
Tubes per Adapter / Rotor	- / 8	- / 8
	---	---

Cat. No. 25 30 20 + 25 46 85



Cat. No. 25 32 90 + 25 46 82



Adapters for tubes of (38.5 ml), 17 ml, 13.5 ml, 6.5 ml and 4.4 ml are available on request.

## AV 8.19

94 ml	94 ml
38 x 102	38 x 102
thick-walled: PC: 25 32 80 PA: 25 32 60	thick-walled with thread: PC: 25 32 90 aluminum screw cap: 25 46 82
---	---
---	---
- / 8	- / 8
---	---



Cat. No. 25 32 80 / 60



Cat. No. 20 46 00



Cat. No. 25 30 50 / 40 / 60



Cat. No. 20 48 00

## for Rotor AS 2.6

Plates	Microtiter Plates	Deepwell Plates
Total Height of Plates	up to 80 mm	up to 80 mm
Material of Tubes + Herolab Cat. No.	Plates not available from Herolab	Plates not available from Herolab
Necessary Adapter	---	---
Herolab Cat. No.	---	---
Tubes per Adapter / Rotor	- / 2-6	- / 2-4
	---	---

Cat. No. 20 97 100



Cat. No. 20 97 105

## AS 4.750 + AS 4.1000 with set of Microtiter Plate carriers

Microtiter Plates	Deepwell Plates
up to 64 mm	up to 64 mm
Plates not available from Herolab	Plates not available from Herolab
---	---
---	---
- / 4-12	- / 4-8
---	---



Cat. No. 20 70 400

Cat. No. 20 70 060





Cat. No. 20 70 050





## for Rotor **AS 4.500**

Tubes/Bottles	500 ml	50 ml Falcon	15 ml Falcon
Tubes Ø x Length (mm)	98 x 114	29 x 118	17 x 122
Material of Tubes + Herolab Cat. No.	PPCO: 25 35 51	Tubes not available from Herolab	Tubes not available from Herolab
Necessary Adapter	---		
Herolab Cat. No.	---	20 90 530	20 90 535
Tubes per Adapter / Rotor	- / 4	5 / 20	8 / 32
(Pack of 2 Adapters)	---		



## for Rotor **AS 4.750 + AS 4.1000** with set of rectangular buckets for tube racks

Tubes/Bottles	250 ml	100 ml	50 ml Glass	50ml AOR	50 ml with rim	50 ml with cap	50 ml Falcon	30 ml AOR
Tubes Ø x Length (mm)	62 x 122	40 x 115	34 x 87/120	29 x 103	29 x 103	29 x 103	29 x 118	25 x 92
Material of Tubes + Herolab Cat. No.	PC: 25 34 01 PPCO: 25 34 21 PE: 25 34 31 PF: 25 34 39 PPblack: 25 34 12	PC: 25 33 00 PP: 25 33 10	Tubes not available from Herolab	PC: 25 32 01 PPCO: 25 32 11 PE: 25 32 15 PF: 25 32 21	PC: 25 31 00 PPCO: 25 31 60 PE: 25 31 30 PF: 25 31 51	PC: 25 31 05 PPCO: 25 31 45	Tubes not available from Herolab	PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71
Necessary Adapter								
Herolab Cat. No.	20 70 110	20 70 115	20 70 120		20 70 125		20 70 130	20 70 135
Tubes per Adapter / Rotor	2 / 8	4 / 16	6 / 24		8 / 32		8 / 32	12 / 48

Tubes	15ml	15 ml Falcon	5 ml Glass	5 ml	Hemolysis
Tubes Ø x Length (mm)	17 x 87/119	17 x 122	13.5 x 70/118	11.5/13 x 72/120	13 x 53/120
Material of Tubes + Herolab Cat. No.	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab
Necessary Adapter				decantable	
Herolab Cat. No.	20 70 140	20 70 145	20 70 150	20 70 155	20 70 160
Tubes per Adapter / Rotor	30 / 120	17 / 68	48 / 192	48 / 192	48 / 192



# Tubes and Adapters for HiCen XL



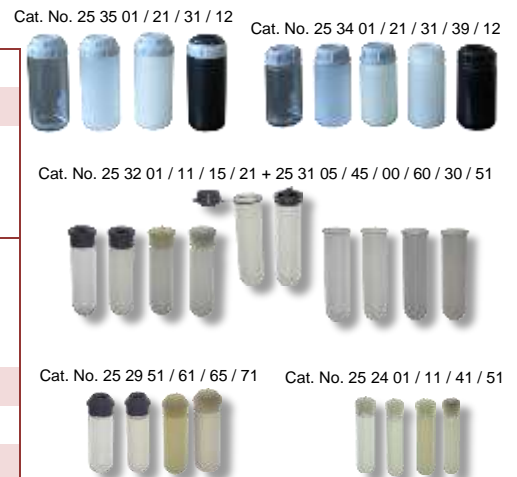
for Rotor **AS 4.750 + AS 4.1000**  
with set of round buckets for bottles or adapters

Tubes/Bottles	1000 ml	750 ml	500 ml	250 ml	250 ml	100 ml	50 ml Falcon
Tubes Ø x Length (mm)	98 x 175	98 x 152	70 x 165	62 x 122	Ø 63	40 x 115	29 x 118
Material of Tubes + Herolab Cat. No.	PC: 25 35 62 PPCO: 25 35 72	PC: 25 35 80 PPCO: 25 35 81	PC: 25 35 01* PPCO: 25 35 21* PE: 25 35 31* PP black: 25 35 12*	PC: 25 34 01 PPCO: 25 34 21 PE: 25 34 31 PF: 25 34 39 PP black: 25 34 12	Conical bottles  Bottles not available from Herolab	PC: 25 33 00 PP: 25 33 10	Tubes not available from Herolab
Necessary Adapter	--- Can only be used in 1000 ml buckets of rotor AS 4.1000	---					
Herolab Cat. No.	---	---	20 70 210	20 70 220	20 70 215	20 70 225	20 70 230
Tubes per Adapter / Rotor	- / 4	- / 4	1 / 4	1 / 4	1 / 4	3 / 12	5 / 20

\* For safety reasons always use 500 ml bottles with cover support ring (Cat. No. 25 52 41)! 

Tubes	50ml AOR	50 ml with rim	50 ml with cap	30 ml AOR	15ml	15 ml Falcon	10ml AOR
Tubes Ø x Length (mm)	29 x 103	29 x 103	29 x 103	25 x 92	17 x 87/119	17 x 122	16 x 80
Material of Tubes + Herolab Cat. No.	PC: 25 32 01 PPCO: 25 32 11 PE: 25 32 15 PF: 25 32 21	PC: 25 31 00 PPCO: 25 31 60 PE: 25 31 30 PF: 25 31 51	PC: 25 31 05 PPCO: 25 31 45	PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71	Tubes not available from Herolab	Tubes not available from Herolab	PC: 25 24 01 PPCO: 25 24 11 PE: 25 24 41 PF: 25 24 51
Necessary Adapter	20 70 235			20 70 240	20 70 250	20 70 245	20 70 255
Tubes per Adapter / Rotor	7 / 28			8 / 32	18 / 72	12 / 48	20 / 80

Tubes	7 ml	7 ml	5 ml	0.5 ml
Tubes Ø x Length (mm)	Ø 13.5	Ø 16.5	Ø 13.5	Ø 9.5
Material of Tubes + Herolab Cat. No.	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab
Necessary Adapter				
Herolab Cat. No.	20 70 260	20 70 265	20 70 270	20 70 275
Tubes per Adapter / Rotor	32 / 128	21 / 84	35 / 140	60 / 240



# Herolab Tubes for Rotors of HiCen XL

Cat. No.	Description	Ø x Length (mm)	Pieces/Pack
25 10 10	Tubes 3 ml Duran Glass, RB	10 x 75	10
25 10 20	Tubes 5 ml Borex Glass, RB	12 x 75	10
25 10 40	Tubes 10 ml Duran Glass, RB	13 x 100	10
25 10 60	Tubes 10 ml Duran Glass, C/G	18 x 102	10
25 10 91	Tubes 15 ml HS Glass, RB	18 x 102	6
25 11 00	Tubes 12 ml Borex Glass, RB	18 x 102	10
25 11 10	Tubes 30 ml Borex Glass, RB	24 x 105	10
25 11 41	Tubes 30 ml HS Glass, RB	24 x 105	6
25 12 60	Tubes 45 ml Borex Glass, RB	28 x 102	10
25 12 70	Tubes 200 ml Duran Glass, RB	60 x 115	2
25 20 00	Tubes 1.0 ml PS-RB	7 x 50	1000
25 20 50	Tubes 1.5 ml PP-CB with lid (Eppendorf)	11/13 x 40	1000
25 22 00	Tubes 5.0 ml PS-RB	12 x 75	1000
25 22 30	Tubes 4.5 ml PP-RB	12 x 75	1000
25 24 01	Tubes 10 ml PC-AOR with screw cap	16 x 80	10
25 24 11	Tubes 10 ml PPCO-AOR with screw cap	16 x 80	10
25 24 41	Tubes 10 ml PE-AOR with screw cap	16 x 80	10
25 24 51	Tubes 10 ml PF-AOR with screw cap	16 x 80	2
25 24 70	Tubes 13.5 ml PP-RB	16 x 76	10
25 25 70	Tubes 14 ml PC-RB	18 x 75	10
25 25 80	Tubes 14 ml PP-RB	18 x 75	10
25 25 90	Tubes 14 ml PF-RB	18 x 75	2
25 26 60	Tubes 14 ml PE-RB	18 x 75	10
25 26 90	Tubes 14 ml PA-RB	18 x 75	10
25 27 00	Tubes 16 ml PC-RB/FL	18 x 100	10
25 27 20	Tubes 16 ml PPCO-RB/FL	18 x 100	10
25 27 40	Tubes 16 ml PE-RB/FL	18 x 100	10
25 27 51	Tubes 16 ml PF-RB/FL	18 x 100	2
25 29 51	Tubes 30 ml PC-AOR with screw cap	25 x 92	10
25 29 61	Tubes 30 ml PPCO-AOR with screw cap	25 x 92	10
25 29 65	Tubes 30 ml PE-AOR with screw cap	25 x 92	10
25 29 71	Tubes 30 ml PF-AOR with screw cap	25 x 92	2
25 30 20	Tubes 38.5 ml PC thick-walled with thread UC	25 x 89	50
25 30 40	Tubes 38.5 ml PC thick-walled UC	25 x 89	50
25 30 50	Tubes 38.5 ml PA thin-walled UC	25 x 89	50
25 30 60	Tubes 38.5 ml PA thick-walled UC	25 x 89	50
25 31 00	Tubes 50 ml PC-RB/FL	29 x 103	10
25 31 05	Tubes 50 ml PC-RB/FL with Loop Cap	29 x 103	10
25 31 30	Tubes 50 ml PE-RB/FL	29 x 103	10
25 31 45	Tubes 50 ml PPCO-RB/FL with Loop Cap	29 x 103	10
25 31 51	Tubes 50 ml PF-RB/FL	29 x 103	2
25 31 60	Tubes 50 ml PPCO-RB/FL	29 x 103	10
25 32 01	Tubes 50 ml PC-AOR with screw cap	29 x 103	10
25 32 11	Tubes 50 ml PPCO-AOR with screw cap	29 x 103	10
25 32 15	Tubes 50 ml PE-AOR with screw cap	29 x 103	10
25 32 21	Tubes 50 ml PF-AOR with screw cap	29 x 103	2
25 32 41	Tubes 80 ml PC-AOR with screw cap	38 x 105	10
25 32 45	Tubes 80 ml PPCO-AOR with screw cap	38 x 105	10
25 32 47	Tubes 80 ml PEC-AOR with screw cap	38 x 105	10
25 32 49	Tubes 80 ml PF-AOR with screw cap	38 x 105	2
25 32 50	Tubes 94 ml PP-RB	38 x 106	10
25 32 60	Tubes 94 ml PA thick-walled UC	38 x 102	25

Cat. No.	Description	Ø x Length (mm)	Pieces/Pack
25 32 80	Tubes 94 ml PC thick-walled UC	38 x 102	25
25 32 90	Tubes 94 ml PC thick-walled with thread UC	38 x 102	25
25 33 00	Tubes 100 ml PC-RB/G	40 x 115	2
25 33 10	Tubes 120 ml PP-RB	40 x 115	10
25 34 01	Bottles 250 ml PC-FB with screw cap	62 x 122	6
25 34 12	Bottles 250 ml PP black FB with screw cap	62 x 122	6
25 34 21	Bottles 250 ml PPCO-FB with screw cap	62 x 122	6
25 34 31	Bottles 250 ml PE-FB with screw cap	62 x 122	6
25 34 39	Bottles 250 ml PF-FB with screw cap	62 x 122	2
25 34 41	Bottles 250 ml PC-RB with screw cap	62 x 122	6
25 34 43	Bottles 250 ml PP-RB with screw cap	62 x 122	6
25 34 45	Bottles 250 ml PPCO-RB with screw cap	62 x 122	6
25 34 47	Bottles 250 ml PE-RB with screw cap	62 x 122	6
25 34 49	Bottles 250 ml PF-RB with screw cap	62 x 122	2
25 34 81	Bottles 290 ml PC-FB with screw cap	62 x 137	6
25 34 87	Bottles 290 ml PE-FB with screw cap	62 x 137	6
25 35 01	Bottles 500 ml PC-FB with screw cap	70 x 165	6
25 35 12	Bottles 500 ml PP black-FB with screw cap	70 x 165	2
25 35 21	Bottles 500 ml PPCO-FB with screw cap	70 x 165	6
25 35 31	Bottles 500 ml PE-FB with screw cap	70 x 165	6
25 35 51	Bottles 500 ml PPCO-FB with screw cap (for AS 4.500 only)	98 x 114	4
25 35 62	Bottles 1000 ml PC-FB with screw cap	98 x 175	4
25 35 65	Bottles 1000 ml PC-FB with screw cap and neck support	98 x 175	4
25 35 72	Bottles 1000 ml PPCO-FB with screw cap	98 x 175	4
25 35 75	Bottles 1000 ml PPCO-FB with screw cap and neck support	98 x 175	4
25 35 80	Bottles 750 ml PC-FB with screw cap	98 x 152	4
25 35 81	Bottles 750 ml PPCO-FB with screw cap	98 x 152	4
25 45 50	Snap-on Caps for Tubes 14 ml and 16 ml (except for PE)		10
25 45 51	Snap-on Caps for Tubes 14 ml and 16 ml PE		10
25 46 82	Screw cap, aluminum, for UC tubes 94 ml		1
25 46 85	Screw cap, aluminum, for UC tubes 38,5 ml		1
25 52 41	Supporting ring for bottles 500 ml		6

All prices without VAT, ex Works – Herolab reserves the right to change technical specification and prices without prior notice.



B	Borex Glass	AOR	Advanced Oak Ridge	PF	Polyflor®	CB	Conical Bottom
D	Duran Glass	PA	Polyallomer	PP	Polypropylene	FB	Flat Bottom
HS	High-Speed Glass	PC	Polycarbonate	PPCO	Polypropylene Copolymer	RB	Round Bottom
UC	Ultra Centrifuge Tubes	PE	Polyethylene	PS	Polystyrene	FL	Flange (Rim)