

Herolab

The High Speed Heroes

Manufacturer of Life Science
Instruments since 1979



HiGen[®] F



HiGen[®] FR



Now with Touch Screen

High-Speed Centrifuges

with or without refrigeration
small footprint and they fit beneath the work bench

➤ High-Speed Centrifuges with Flexible Axis!

- This provides the best smooth running.
- The separation of the own centering of the motor and the centering of the installed rotor protects the bearing of the entire drive system.
- Thus, your centrifuge will be maintenance free for a very long time.

Catalog No.	Description	Voltage	Phases	Hz
21 10 155	HiCen F with Touch Screen display, Standard for Europe	200-240 V	1	50/60 Hz
21 10 156	HiCen F with Touch Screen display	115 V	1	50/60 Hz
21 10 655	HiCen FR, with Touch Screen display Standard for Europe	refrigerated 220-240 V	1	50 Hz
21 10 657	HiCen FR with Touch Screen display	refrigerated 115 V	1	60 Hz
21 10 659	HiCen FR with Touch Screen display	refrigerated 208-230 V	1	60 Hz

- Hicen F and HiCen FR can be permanently installed or moved on rollers
- maximum capacity: 4 x 500 ml
- 11 angle rotors, 2 swing-out rotors
- speed: 500 – 14,000 rpm / 18,000 rpm, in steps of 100 rpm
- g-force (RCF): 1,968 – 21,910 x g / 34,770 x g, in steps of 10 x g
- timer: Touch Screen h:min:sec.
- HOLD for longer runs; operating-hours indicator
- 9 acceleration and deceleration ramps
- maintenance free, brushless induction drive; audible signal in case of error;
- 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 Touch screen display for both current and preset values of speed/g-force, time and temperature (temperature only at refrigerated model HiCen FR)



Swing-out Rotors

HiCen[®] F HiCen[®] FR

Cat. No.	Type	Max. Capacity		Max. Speed	Max. g-Force	Max. Speed	Max. g-Force
20 97 100	AS 2.6	2 x 3 Microplates	incl. 2 carriers for plates up to 80 mm high and 2 plate holders	4,000 rpm	1,970 x g	5,000 rpm	3,070 x g
20 90 501	AS 4.500	4 x 500 ml	Basic rotor, buckets to be ordered separately				
20 90 540	Set of carriers for microplates	4 x 4 microplates	Set of 4 carriers	4,000 rpm	2,720 x g	4,000 rpm	2,720 x g
20 90 502	Set of buckets	4 round buckets for 1 x 500 ml resp. for adapters		4,500 rpm	3,960 x g	5,200 rpm	5,290 x g
25 35 51	Bottles	Bottles 500 ml PPCO Ø 98 x 114 mm with screw cap, max. 5.200 rpm and 5.290 x g, 4 bottles					
25 37 65	Bottles	Bottle 500 ml PPCO, Ø 98 x 112 mm, wide mouth of 70 mm with screw cap, max. 4.100 rpm and 5.394 x g, 4 bottles					
20 90 550	Trunnion rings	4 x (7 x 50 ml F)	Set of 4 trunnion rings with adapter	4,500 rpm	4,090 x g	5,200 rpm	5,470 x g
20 90 551	Trunnion rings	4 x (14 x 15 ml F)	Set of 4 trunnion rings with adapter	4,500 rpm	4,070 x g	5,200 rpm	5,440 x g



Cat. No. 20 90 501



Cat. No. 20 90 540

Cat. No. 20 97 100



Angle Rotors (with hermetically sealing lid)

HiGen® F

HiGen® FR

Cat. No.	Type	Max. Capacity	Angle	Max. Speed	Max. g-Force	Max. Speed	Max. g-Force
20 96 100	AF 24.2	24 x 1.5/2.2 ml	45°	14,000 rpm	21,910 x g	16,000 rpm	28,620 x g
20 75 100	AF 72.2	72 x 1.5/2.2 ml	40 °	8,000 rpm	9,300 x g	12,500 rpm	22,710 x g
20 94 100	AF 20.10	20 x 10 ml	25°	11,000 rpm	13,260 x g	16,000 rpm	28,050 x g
20 26 100	AF 24.16	24 x 16 ml	28°	9,000 rpm	9,960 x g	13,000 rpm	20,780 x g
20 45 100	AF 12.30	12 x 30 ml	28°	12,000 rpm	17,070 x g	15,000 rpm	26,660 x g
20 93 005	AF 8.50.1 Biosafe	8 x 50 ml	34°	10,000 rpm	12,070 x g	15,000 rpm	27,170 x g
20 93 100	AF 8.50.2	8 x 50 ml	25°	9,000 rpm	8,690 x g	18,000 rpm	34,770 x g
20 98 105	AF 8.50.3 Biosafe	8 x 50 ml Falcon	40°	9,000 rpm	9,420 x g	13,500 rpm	21,190 x g
20 44 105	AF 12.50 Biosafe	12 x 50 ml	34°	7,000 rpm	7,010 x g	10,000 rpm	14,310 x g
20 92 105	AF 6.94 Biosafe	6 x 94 ml	25°	10,000 rpm	10,960 x g	16,500 rpm	29,830 x g
20 22 100	AF 6.250	6 x 250 ml	30°	7,000 rpm	7,940 x g	10,000 rpm	16,210 x g



Cat. No. 20 96 100



Cat. No. 20 22 100



Cat. No. 20 26 100



Cat. No. 20 93 005

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".

Herolab



Tubes and Bottles
For centrifugation



70 mm wide-neck

Ready for your application:

- # from 10 ml up to 1,000 ml Filling capacity
- # from different Plastic materials: PVC, PE, PP, PS
- # autoclavable (PVC, PS, PE)
- # tested for tightness and max. RCF



01-2014

Specification

HiGen[®]F HiGen[®]FR

Catalog No. (230V, 50/60 Hz, 1 Phase)	21 10 155	21 10 655
Maximum Capacity	4 x 500 ml	4 x 500 ml
Maximum Speed	14,000 rpm	18,000 rpm
Max. g-Force/RCF (depending on rotor)	21,910 x g	34,770 x g
Minimum Speed	> 500 rpm	> 500 rpm



Rotor Detection	APRI™ System = Automatic Positive Rotor Identification for Herolab rotors	
Program Memory	50 programs	
Display	Touch Screen Display for current and preset values	
User Interface	Touch Screen Display	
Preset Time	Touch Screen Display, h:m:sec., „HOLD“ for longer runs; operating-hours indicator	
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	9 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	n.a.	-20°C to +40°C with increments of 1°C
Cooling at Standstill	n.a.	YES
Temperature Control Accuracy	n.a.	±2°C on calibrated rotor
Temperature Control System	n.a.	Bypass System
Sample Protection	n.a.	±4°C to ±10°C from preset temperature
Overtemperature Protection		
1. Motor	n.a.	Yes
2. Rotor Chamber	n.a.	Yes
Refrigeration System	n.a.	CFC-free refrigerant



Safety Features	<ul style="list-style-type: none"> Overspeed detection Imbalance detection and cut-off, audible signal in case of error; 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)	56.6 x 70.0 x 69.0 (22.3 x 27.6 x 27.2)	
Shipping Dimensions in cm (in inches)	75.0 x 80.0 x 105.0 (29.5 x 31.5 x 41.3)	
Net Weight	123.0 kg (271.2 lbs.)	152.0 kg (335.1 lbs.)
Gross Weight	143.0 kg (315.3 lbs.)	180.0 kg (396.8 lbs.)



Herolab

The High Speed Heroes

All products built by Herolab carry the CE sign. Herolab is certified according to DIN EN ISO 9001:2015.



WEEE-Reg. No. DE66734561




Herolab reserves the right to change technical specifications without prior notice.

2025-01

Herolab GmbH Laborgeräte
Ludwig-Wagner-Str. 12
69168 Wiesloch
GERMANY
Tel.: +49 (0) 6222 – 5802-0
Fax: +49 (0) 6222 – 5802-34
E-Mail: info@herolab.de
Internet: www.herolab.de

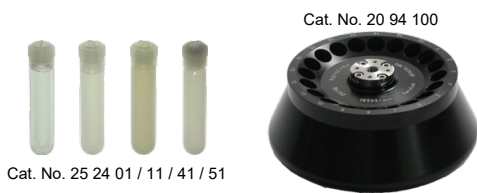
Tubes and Adapters for Rotors of *HiGen® F+FR*

for Rotor **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® Tubes
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	---	---			
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 50 06 Cat. No. 25 50 05



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



Cat. No. 25 25 70 – 14ml PC-RB, 18 x 75 mm



Cat. No. 20 96 100

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	Tubes not available from Herolab
Necessary Adapter	---	---
Herolab Cat. No.	---	---
Tubes per Adapter / Rotor	- / 20	- / 20
(Pack of 2 Adapters)	---	---

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



Cat. No. 25 27 00 / 20 / 40 / 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*	Tubes not available from Herolab	Tubes not available from Herolab	PP: 25 22 30	Tubes not available from Herolab	Tubes not available from Herolab
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)	---					








for Rotor **AF 12.30**

Tubes	30 ml AOR
Tubes Ø x Length (mm)	25 x 92
Material of Tubes + Herolab Cat. No.	PC: 25 29 51 PPCO: 25 29 61 PE: 25 29 65 PF: 25 29 71
Necessary Adapter	---
Herolab Cat. No.	---
Tubes per Adapter / Rotor	- / 12
(Pack of 2 Adapters)	---

Tubes and Adapters for *HiGen® F+FR*

for Rotor **AF 8.50.1 + AF 8.50.2 + AF 12.50**

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	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	PC: 25 27 00 PPCO: 25 27 20 PE: 25 27 40 PF: 25 27 51	Tubes not available from Herolab
Necessary Adapter	---	---	---					
Herolab Cat. No.	---	---	---	25 58 00	25 50 61	25 55 60	25 50 50	25 55 50
Tubes per Adapter / Rotor (Pack of 2 Adapters)	- / 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

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	Tubes not available from Herolab	Tubes not available from Herolab	PP: 25 22 30	Tubes not available from Herolab	Tubes not available from Herolab	Tubes not available from Herolab
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 (Pack of 2 Adapters)	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

Cat. No. 20 93 005



Cat. No. 25 32 01 / 11 / 15 / 21



Cat. No. 25 31 05 / 45



Cat. No. 25 31 00 / 60 / 30 / 51







Cat. No. 20 93 100

Cat. No. 20 98 105



Cat. No. 25 32 41 / 45 / 47 / 49

for Rotor **AF 8.50.3**

Tubes	50 ml Falcon	50ml AOR	50 ml with cap	30 ml AOR	15 ml Falcon
Tubes Ø x Length (mm)	29 x 118	29 x 103	29 x 103	25 x 92	17 x 122
Material of Tubes + Herolab Cat. No.	Tubes not available from Herolab	PC: 25 32 01 PPCO: 25 32 11 PE: 25 32 15 PF: 25 32 21	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
Necessary Adapter	---				
Herolab Cat. No.	---	25 53 82	25 53 82	25 50 62	25 53 80
Tubes per Adapter / Rotor (Pack of 2 Adapters)	- / 8	1 / 8	1 / 8	1 / 8	1 / 8

AF 6.94











94 ml	80 ml AOR
38 x 102	38 x 105
thick-walled PC: 25 32 80 PA: 25 32 60 thick-w. w. thread PC: 25 32 90	PC: 25 32 41 PPCO: 25 32 45 PE: 25 32 47 PF: 25 32 49
---	---
---	---
- / 6	- / 6
---	---



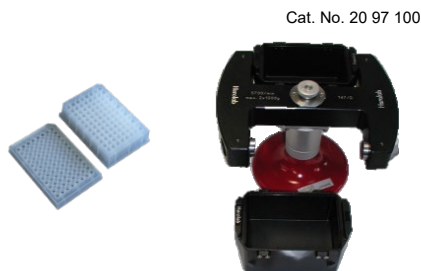
Kat.-Nr. 20 92 100

Tubes and Adapters for *HiGen[®] F+FR*

for Rotor **AF 6.250**

Tubes/Bottles	250 ml	250 ml	200ml	100/120 ml	80 ml AOR	50ml AOR	50 ml FALCON	30 ml Glass	16 ml with rim	15 ml FALCON	10 ml
Tubes Ø x Length (mm)	62 x 122	62 x 122	60 x 115	40 x 115	38 x 105	29 x 103	24 x 105	24 x 105	18 x 100	17 x 122	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 PPCO: 25 34 45 PE: 25 34 47 PF: 25 34 49	Tubes not available from Herolab	100 ml: PC: 25 33 00	PC: 25 32 41 PPCO: 25 32 45 PE: 25 32 47 PF: 25 32 49	PC: 25 32 01 PPCO: 25 32 11 PE: 25 32 15 PF: 25 32 21	Tubes not available from Herolab	Tubes not available from Herolab	PC: 25 27 00 PPCO: 25 27 20 PE: 25 27 40 PF: 25 27 51	Tubes not available from Herolab	Tubes not available from Herolab
Necessary Adapter	---										
Herolab Cat. No.	---	25 51 90	25 58 10	25 51 70	On request	On request	25 51 75	25 51 60	25 51 30	25 51 35	25 51 10
Tubes per Adapter / Rotor	-	1 / 6	1 / 6	1 / 6	1 / 6	1 / 6	1 / 6	3 / 18	5 / 30	4 / 24	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	Tubes not available from Herolab	Tubes not available from Herolab
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)			





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
	---	---

AS 4.500

Cat. No. 25 35 51

500 ml	50 ml Falcon	15 ml Falcon
98 x 114	29 x 118	17 x 122
PPCO: 25 35 51 PPCO: 25 37 65 (98 x 112 / W70)	Tubes not available from Herolab	Tubes not available from Herolab
---		
---	20 90 530	20 90 535
- / 4	5 / 20	8 / 32

Herolab Tubes for Rotors of *HiGen® F+FR*

Cat. No.	Description	Ø x Length (mm)	Pieces/Pack
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 80	Tubes 13,5 ml PC thick-walled UC, 16 x 76 mm	16 x 76	50
25 24 90	Tubes 13,5 ml PC thick-walled with thread UC, 16 x 76 mm	16 x 76	50
25 25 60	Tubes 14 ml PC-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 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
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 35 51	Bottles 500 ml PPCO-FB with screw cap - only for AS 4.500	98 x 114	4
25 37 65	Bottles 500 ml, PPCO-FB with screw cap, wide mouth of 70 mm - only for AS 4.500	98 x 112	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 thick-w. with thread		1
25 52 41	Support ring for bottles 500 ml		6

UC	Ultra Centrifuge Tubes	PPCO	Polypropylene Copolymer
AOR	Advanced Oak Ridge	CB	Conical Bottom
PC	Polycarbonate	FB	Flat Bottom
PE	Polyethylene	RB	Round Bottom
PF	Polyflor®	FL	Flange (Rim)