

Heal Force Laboratory Equipment

Heal Force specialises in the design, development, manufacture and sales of laboratory equipments in the fields of Biosafety protection, Centrifugation, Cell culture, Water purification & Gene amplification.



Laboratory Centrifuge

Heal Force Life Science Instrument Series

Biosafety Cabinet

Heal Force brand stands for safety, ergonomics and performance. Taking advantage of a heritage from over 25 years experience, Heal Force offers safety features, options and accessories beyond the standard requirements, to fulfill different needs. Thousands of units installed in laboratories in more than 100 Countries.

Centrifuge

Neofuge, the name that defines quality centrifuges from Heal Force. Offering bench-top high speed models with or without refrigeration for today's discerning laboratory technicians. Neofuge series provide excellent centrifugal effect and maximum application versatility.

CO₂/Tri-Gas Incubator

Heal Force Smart Cell incubator provides you with natural simulation to ensure optimum growth conditions for your culture at all time. That's why it is widely used in fields of application including tissue engineering, in vitro fertilization, neuroscience, cancer research and other mammalian cell researches.

Water Purification

Well-proved Heal Force water purification system offers ideal and comprehensive solution for a choice of water qualities that range from primary for simple routine washing and rinsing, through to ultra-high grade for different critical science and analytical applications.

Thermal Cycler

Since PCR is central for molecular biology research, you need flexible solutions that can help you achieve PCR success for virtually any application. Heal Force has been developing new cycling platforms from economical option to advanced series to empower your search. These instruments are renowned for their reliability, accuracy, and user-friendly interfaces.

Clean benches

Adopts dual monitoring breeze speed sensors to provide safer protection for samples.

Low temperature cold chain products

Provide -80°C ultra-low temperature refrigerator, -40°C/-25°C low temperature refrigerator, 2-8°C medicine storage box.



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Heal Force leads you to healthier life

Neofuge 13/13R

Neofuge 13 Features

Multi CPU Control System

Because of the adaptation of multi microprocessor, the operation process become easy and straight away. Reliable working condition can be guaranteed.

RPM / RCF Switch Function

Rotary Speed or RCF can be chosen to pre-set in order to facilitate various requirements in different condition.

Two Time-counting Functions

Running time can be counted down at the system start or at the Max. RPM/RCF achieved to meet different needs.

Quick Spin Function

Press ‘Quick spin’ key for short running, the rotary speed will automatically accelerate to rotor’ s maximum speed – avoid inconvenient value setting for short process.

Aerosol-tight and Autoclavable Rotor

Polymer material made by special processes leads to strong anti-distortion and anti-corrosion ability. The rotor allows steam sterilization in 121℃ for 10 minutes.

Real-time Modification of Parameters

The rotary speed, RCF, running time and temperature can be adjusted during the operation to improve your working efficiency.

Alarming System

The audio and visual alarming will be given for key system failures and indicated information is displayed on LCD for problem solving.

Safety Design

Cast steel protective apron around centrifugal chamber with ABS made front hood provide advanced system security.



Neofuge 13

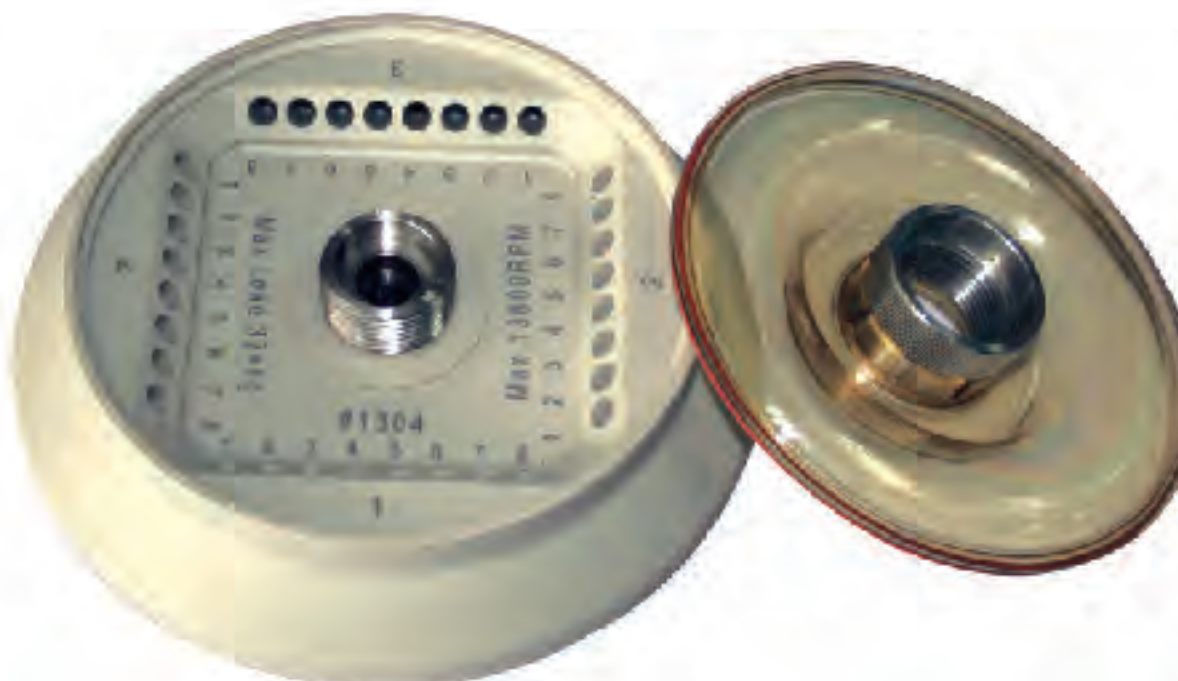
Quick overview of rotors family for centrifuge Neofuge 13



#1303 & #1305

#1303 Fixed angle rotor / 24×1.5/2.0ml, 13800rpm, 17458×g,45°
#1305 Fixed angle rotor / 24×1.5/2.0ml, 13800rpm, 17458×g,40° (For plasmid extraction)

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	Specification	Order NO.	Packed/unit
2.0ml	round	Ø11mm	47mm	24 PCS	-	-	-
1.5ml	round	Ø11mm	47mm	24 PCS	-	-	-
0.5ml	conical	Ø8mm	32mm	24 PCS	1×0.5ml	ADP17.02-001	24 PCS
0.2ml	conical	Ø6.5mm	22mm	24 PCS	1×0.2ml	ADP17.02-002	24 PCS



#1304 (Optional)

#1304 Fixed angle rotor / 32×0.2ml, 13800rpm, 14479×g,45°

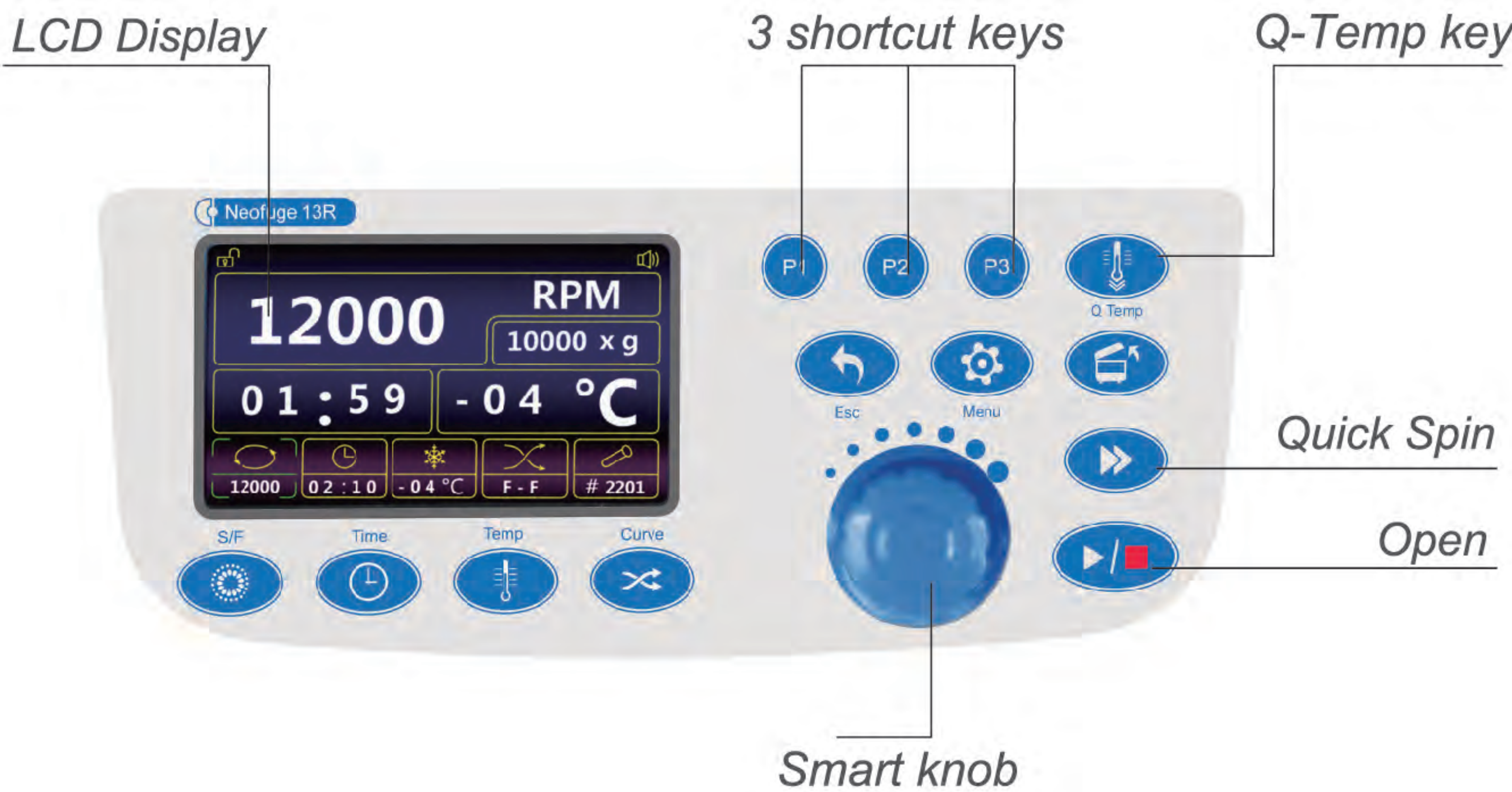
Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Packed/unit	Specification	Order NO.	Packed/unit
8-tube PCR Strip	conical	Ø6.5mm	-	4PCS	-	-	-
0.2ml	conical	Ø6.5mm	22mm	32PCS	-	-	-

Neofuge 13 Technical Specifications

Rotary Speed Range	300-13800rpm	Drive System	Low-noise brushless drive motor
Max. RCF	17460×g	Accel./Decel. Curve	Fixed
Max. Capacity	24×1.5 / 2.0 ml	Refrigerant	N/A
Temperature Range	N/A	Running Time	0 – 9h 59 minutes
Rated Power	350VA	Weight	18 kg
Noise at Max. Speed	≤ 65 dB	Dimensions (W×D×H.mm)	370×230×250

Neofuge 13R Technical Specifications

Rotary Speed Range	300-13800 (can be extended to 15000) rpm	Drive System	Low-noise brushless drive motor
Max. RCF	17459 (can be extended to 20627)×g	Accel./Decel. Curve	3 levels adjustable
Max. Capacity	24×1.5 / 2.0 ml, 16×5 ml	Refrigerant	R134 (CFC free)
Temperature Range	-10℃ ~ 40℃	Running Time	0 – 9h 59 minutes
Rated Power	480VA	Weight	47 kg
Noise at max. Speed	≤ 58 dB	Dimensions (W×D×H)	525mm×300mm×350mm



Neofuge 13R



Neofuge 13

Introduction

Heal Force high speed laboratory centrifuge is approved by multiple certifications
The Neofuge 13 and 13R refrigerated centrifuge provide excellent solution for your sample preparation and experiment requirements

Neofuge 13R Features

- Larger LCD display**
Vivid display of Rotary speed, RCF, Temperature, Time-counting, Rotor model, Acceleration / Deceleration curve
- Real-time modification of parameter**
The parameter can be adjusted during the operation to improve your working efficiency
- Two time counting methods**
Time can be counted down at start or at set RPM/RCF achieved
- Quick keys for parameter setting**
Facilitate different using habits
- Acceleration/Deceleration curve**
3 level acceleration and deceleration curve can be chosen to satisfy various application requirements



- The design of Smart knob**
Ergonomically sized touchpad controls with a smart knob improve easy use in daily operation
- 3 shortcut keys for stored setting**
A collection of pre-set values can be saved for quick and easy loading
- Q-Temp key for quick pre-cooling**
The function enables quicker pre-cooling through low speed operation. The system is refrigerated by CFC-free unit (R134a)
- Quick-Spin key for short operation**
Press 'Quick spin' key for short running, the rotary speed will accelerate to rotor's maximum speed – avoid inconvenient value setting for short process.
- Automatic rotor identification for reliable operation**
Different rotors are automatically recognized by the system and audio and visual alarm will indicate the empty running, failure of rotor identification and excess of maximum speed.
- Safety system**
Audio and visual alarming is given while overheat, excess of rotary speed limit or any other system failures

Quick overview of rotors family for centrifuge Neofuge 13R



#2201 (Standard)

#2201 Fixed angle rotor / 24×1.5/2.0ml, 13800(15000)rpm, RCF17459(20627)×g,45°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
2.0/1.5 ml	round	Ø11mm	47mm	24pcs
0.5 ml	conical	Ø8mm	32mm	24pcs
0.2 ml	conical	Ø6.5mm	22mm	24pcs

Adaptor		
Specification	Order NO.	Packed/unit
-	-	-
1×0.5ml	ADP1303-001	24pcs
1×0.2ml	ADP1303-002	24pcs



#2202 (Optional)

#2202 Fixed angle rotor / 64×0.2ml, 13800(15000)rpm, RCF15330(18112)×g,45°

Centrifuge tube				
Capacity	Type	Diameter	Length	Packed/unit
8-tube PCR Strip	conical	Ø6.5mm	22mm	8PCS
0.2ml	conical	Ø6.5mm	22mm	64PCS

Adaptor		
Specification	Order NO.	Packed/unit
-	-	-
-	-	-



#2203 (Optional)

#2203 Fixed angle rotor / 16×5ml, 13800(15000)rpm, RCF18949(22388)×g,45°

Centrifuge tube				
Capacity	Type	Diameter	Length	Packed/unit
5 ml	round	Ø13.5mm	52mm	16PCS

Adaptor		
Specification	Order NO.	Packed/unit
-	-	-

Aerosol-tight and autoclavable rotor

Polymer materials made by special processes lead to strong anti-distortion and anti-corrosion ability. The rotors allows steam sterilization in 121 °C for 10 minutes.

Neofuge 15/15R

Introduction

Heal Force Neofuge15 and its refrigerated counterpart, the Neofuge 15R offer the functionality of three centrifuges: high-capacity, general-purpose centrifuge for cell harvesting; a high-speed centrifuge for separating cell lysates; and a microcentrifuge for DNA precipitations. They are widely used in routine laboratories research in the fields of bioscience, medicine and industry.

Features

- Spin up to 16,000rpm or 20,800×g
- Max. capacity of 400ml
- Induction drive without carbon brushes
- Powerful motors for short acceleration and braking times
- Broad range of adaptors and modular accessories

User-friendliness

- Large back-lit LCD screen and easy-to-clean keypad comprise the user-friendly control panel
- Time, temperature(refrigerated models), g-force/speed are easily entered
- Most values can be changed during centrifugation
- Quick spin key enables quick runs at your desired rotational speed
- Nine acceleration and braking ramps are available for sensitive samples
- The last user program used stays automatically on display

Cooling system

- Refrigerated by CFC-free unit (Ra134a)
- Temperature range from -10℃ to +40℃
- Rotors can be spun at maximum speed and still maintain 4℃
- Precooling rotors function during standby

Safety design

- Lid locking and holding during rotor run
- Emergency lid-lock release
- Motor-overheating protection
- Automatic rotor identification
- Electronic imbalance detection

Modular adaptors

- The modular construction of adaptors allow centrifugation of different commercially available tubes
- The adapters are solidly constructed and can be easily cleaned and autoclaved in event of contamination with biologically active sample material

Versatility

Fixed angle, swinging bucket, microliter rotors for all common tubes from 0.2 to 100 are available for applications using microliter, DIN, blood sample and Falcon™ type conical tubes.



Automatic rotor identification

Different rotors are identified automatically by the control center. The system indicates alarm signal in cases of following conditions: setting speed exceeding limit, empty running without rotors, and failure of rotor identification

Imbalance Recognition

The Neofuge 15/15R are equipped with electronic imbalance recognition system, which responds in case samples are loaded incorrectly or the tube is broken. Centrifugation is interrupted and the user can remove the rotor and, if necessary, decontaminate it.

Quick overview of rotors family for centrifuge Neofuge 15/15R



#1501 Fixed angle rotor (Standard)



#1502 Swing-bucket rotor (Optional)



#1503 Fixed angle rotor (Optional)



#1507 Microplate rotor (Optional)



#1508 Fixed angle rotor (Optional)

#1501 Fixed angle rotor / 24×1.5/2.0ml, 16000rpm, 24900×g,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
2.0ml	round	Ø11mm	47mm	24 PCS	-	-	-
1.5ml	round	Ø11mm	47mm	24 PCS	-	-	-
0.5ml	conical	Ø8mm	32mm	24 PCS	1×0.5ml	ADP17.02-001	24 PCS
0.2ml	conical	Ø6.5mm	22mm	24 PCS	1×0.2ml	ADP17.02-002	24 PCS

#1502 Swing-bucket rotor / 4×100ml, 4000rpm, 2612×g (rotor incl. 4 aerosol-tight standard buckets)

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
100ml*	flat	Ø45mm	100mm	4 PCS	-	-	-
50ml	round	Ø29mm	114mm	4 PCS	1pc×50ml	SP15.04.100.S50-10	4 PCS
50ml	conical	Ø29mm	116mm	4 PCS	1pc×50ml	SP15.04.100.C50-10	4 PCS
50ml	round	Ø36mm	110mm	4 PCS	1pc×50ml	SP15.04.100.50-10	4 PCS
25ml	round	Ø25mm	115mm	4 PCS	1pc×25ml	SP15.04.100.25-10	4 PCS
15ml	conical	Ø17mm	120mm	4 PCS	1pc×15ml	SP15.04.100.C15-10	4 PCS
15ml	round	Ø17mm	104mm	12 PCS	3pcs×15ml	SP15.04.100.15-00	4 PCS
7ml	round	Ø12mm	104mm	20 PCS	5pcs×7ml	SP15.04.100.7-00	4 PCS
5/7ml	round	Ø12mm	104mm	12 PCS	3pcs×5/7ml	SP15.04.100.5-00	4 PCS
1.5/2.0ml	round	Ø11mm	41mm	40 PCS	10pcs×1.5/2ml	SP15.04.100.1-00	4 PCS

*HealForce can provide such bottle

#1503 Fixed angle rotor / 6×50ml, 8500rpm, 9693×g,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
50ml	conical	Ø29.5mm	116mm	6 PCS	1pc×50ml	F08.50-04	6 PCS
50ml	round	Ø29mm	115mm	6 PCS	1pc×50ml	ADP15.94-001	6 PCS
38ml	round	Ø25.5mm	96mm	6 PCS	1pc×38ml	ADP15.94-002	6 PCS
16ml	round	Ø18mm	114mm	6 PCS	1pc×16ml	ADP15.94-003	6 PCS
15ml	conical	Ø16mm	120mm	6 PCS	1pc×15ml	ADP15.94-008	6 PCS
12ml	round	Ø16mm	112mm	12 PCS	2pcs×12ml	ADP15.94-004	6 PCS
10ml	round	Ø16mm	82mm	6 PCS	1pc×10ml	ADP15.94-011	6 PCS
6.5ml	round	Ø13mm	104mm	18 PCS	3pcs×6.5ml	ADP15.94-005	6 PCS
5ml	round	Ø13.5mm	52mm	12 PCS	2pcs×5ml	ADP15.94-010	6 PCS
3.5ml	round	Ø11mm	85mm	24 PCS	4pcs×3.5ml	ADP15.94-006	6 PCS
1.5ml	conical	Ø11mm	41mm	24 PCS	4pcs×1.5ml	ADP15.94-007	6 PCS

#1507 Microplate rotor with 2 racks / 2 microplate, 3000rpm, 1087×g,90°

Centrifuge microplate				Adaptor		
Name	L×W×H(mm)	Tube qty/rotor		Specification	Order NO.	Packed/unit
96-hole microplate	128×85.6×15	6 PCS		-	-	-
24-hole microplate	128×85.6×21	4 PCS		-	-	-
96-hole deep microplate	128×85.6×45	2 PCS		-	-	-

#1508 Fixed angle rotor / Neofuge 15R:8×50ml,12000rpm, 15778×g,26° Neofuge 15 :8×50ml,10000rpm, 10957×g,26°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
50ml	round	Ø29mm	112mm	8pcs	-	-	-
38ml	round	Ø25.5mm	92mm	8pcs	1pc×38ml	ADP15.50-001	8pcs
16ml	round	Ø18mm	108mm	8pcs	1pc×16ml	ADP15.50-002	8pcs
15ml	round	Ø16mm	115mm	8pcs	1pc×15ml	ADP15.50-010	8pcs
12ml	round	Ø16mm	106mm	8pcs	1pc×12ml	ADP15.50-003	8pcs
10ml	round	Ø16mm	82mm	8pcs	1pc×10ml	ADP15.50-008	8pcs
6.5ml	round	Ø13mm	104mm	8pcs	1pc×6.5ml	ADP15.50-004	8pcs
5ml	round	Ø13.5mm	52mm	8pcs	1pc×5ml	ADP15.50-007	8pcs
3.5ml	round	Ø11mm	82mm	24pcs	3pcs×3.5ml	ADP15.50-005	8pcs
1.5ml	conical	Ø11mm	41mm	16pcs	2pcs×1.5ml	ADP15.50-006	8pcs



Neofuge 15R Technical Specifications

Max. speed	16,000rpm
Min. speed	300rpm
Steplength	in 100rpm increments
Max. RCF	
Fixed-angle rotor	24900×g
Swing-out rotor	2612×g
Plate rotor	1087×g
Max. capacity	
Fixed-angle rotor	8×50ml
Swing-out rotor	4×100ml
Rotor options	5
Accel./Braking curves	9\9
Refrigerant	R134(CFC free)
Power supply	220V/50Hz-60Hz
Rated power	850VA
Drive	Induction drive without carbon brushes
Noise at max. speed	≤60dB
Temperature range	-10 °C~+40 °C , precooling
Control	Microprocessor
Run time	0~9h 59min , cont.operation(hold)
Functions	Quick-spin, RPM/RCF swift
Rotor recognition	Automatic
Imbalance detection	Electronic
Program	The most recent data remains in the memory
Dimensions(W*D*H) (mm)	580×540×350
Net weight without rotor kg	80kg (176lbs)
Test standards	"Manufactured and tested in accordance with EN60601-2-020/A1:1996"

Neofuge 15 Technical Specifications

Max. speed	16,000rpm
Min. speed	300rpm
Steplength	in 100rpm increments
Max. RCF	
Fixed-angle rotor	24900×g
Swing-out rotor	2612×g
Plate rotor	1087×g
Max. capacity	
Fixed-angle rotor	8×50ml
Swing-out rotor	4×100ml
Rotor options	5
Accel./Braking curves	9\9
Refrigerant	N/A
Power supply	220V/50Hz-60Hz
Rated power	470VA
Drive	Induction drive without carbon brushes
Noise at max. speed	≤65dB
Temperature range	N/A
Control	Microprocessor
Run time	0~9h 59min , cont.operation(hold)
Functions	Quick-spin, RPM/RCF swift
Rotor recognition	Automatic
Imbalance detection	Electronic
Program	The most recent data remains in the memory
Dimensions(W*D*H) (mm)	525×390×330
Net weight without rotor kg	58kg (128 lbs)
Test standards	"Manufactured and tested in accordance with EN60601-2-020/A1:1996"



Neofuge 15R panel (Refrigerated)



Neofuge 15 panel

Neofuge 23R

Introduction

Featuring powerful, maintenance-free motors, Centrifuge Neofuge 23R accommodates a variety of rotors and spins plates / tubes from 0.2 ml to 4 x 180 ml at low-to-high speeds for a wide range of applications.

Main features

- Spin up to 50,377x g or 23,300 rpm
- Max. capacity of 720 ml
- Powerful motors for short run-up/down times
- Interchangeable swing-bucket and high-speed fixed-angle rotors
- Broad range of adapters and modular accessories

Interface

- Simple programming of time, temperature, g-force/speed
- 9 individual programs for the convenience of future uses

- Adjustable speed
- Short spin button

Design

- Metal housing
- Metal lid
- Stainless steel centrifuging chamber
- Viewing port in the lid

Handling and safety

- Motorized lid-lock system
- Emergency lid-lock release
- Automatic rotor recognition
- Electronic imbalance detection
- Motor-overheating protection

Cooling

- Infinitely variable setting from –20 °C to +40 °C
- Standby refrigeration keeps rotor chamber at set temperature while lid is closed
- Smooth operation even at high speeds due to the advanced ventilation control





#2301

#2301 Fixed angle rotor / 24×1.5ml, 23300rpm, 50377×g,45°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
1.5 ml	conical	Ø11mm	41mm	24pcs
0.5 ml	conical	Ø8mm	32mm	24pcs
0.2 ml	conical	Ø6.5mm	22mm	24pcs

#2302 Fixed angle rotor / 24×2.0ml, 17000rpm, 28111×g,45°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
1.5/2 ml	round	Ø11mm	47mm	24pcs
0.5 ml	conical	Ø8mm	32mm	24pcs
0.2 ml	conical	Ø6.5mm	22mm	24pcs



#2302

#2303 Fixed angle rotor / 16×16ml, 17000rpm, 31665×g,23°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
16 ml	round	Ø18mm	106mm	16pcs
6.5 ml	round	Ø13mm	100mm	16pcs
3.5 ml	round	Ø11mm	71mm	16pcs
1.5ml	conical	Ø11mm	41mm	16pcs



#2303

#2304 Fixed angle rotor / 6×94ml, 12000rpm, 16261×g,26°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
94ml	round	Ø38mm	116mm	6pcs
50ml	conical	Ø29.5mm	116mm	6pcs
50ml	round	Ø29mm	115mm	6pcs
38ml	round	Ø25.5mm	96mm	6pcs
16ml	round	Ø18mm	114mm	6pcs
15ml	conical	Ø16mm	120mm	6pcs
12ml	round	Ø16mm	112mm	12pcs
10ml	round	Ø16mm	82mm	6pcs
6.5ml	round	Ø13mm	104mm	18pcs
5ml	round	Ø13.5mm	52mm	12pcs
3.5ml	round	Ø11mm	82mm	24pcs
1.5ml	conical	Ø11mm	41mm	24pcs



#2304

#2305 Fixed angle rotor / 8×50ml, 12000rpm, 17227×g,30°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
50ml	round	Ø29mm	112mm	8pcs
38ml	round	Ø25.5mm	92mm	8pcs
16ml	round	Ø18mm	108mm	8pcs
15ml	round	Ø16mm	115mm	8pcs
12ml	round	Ø16mm	106mm	8pcs
10ml	round	Ø16mm	82mm	8pcs
6.5ml	round	Ø13mm	104mm	8pcs
5ml	round	Ø13.5mm	52mm	8pcs
3.5ml	round	Ø11mm	82mm	24pcs
1.5ml	conical	Ø11mm	41mm	16pcs



#2305

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	8.3cm	50377×g
1×0.5ml	ADP23.01-001	24pcs	7.2cm	43700×g
1×0.2ml	ADP1303-002	24pcs	6.5cm	39452×g

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	8.7cm	28111×g
1×0.5ml	ADP17.02-001	24pcs	7.4cm	23910×g
1×0.2ml	ADP17.02-002	24pcs	6.7cm	21648×g

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	9.8cm	31665×g
1×6.5ml	ADP17.16-001	16pcs	9.4cm	30372×g
1×3.5ml	ADP17.16-002	16pcs	8.6cm	27787×g
1×1.5ml	ADP17.16-003	16pcs	7.1cm	22940×g

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	10.1cm	16261×g
1pc×50ml	F08.50-04	6pcs	9.5cm	15294×g
1pc×50ml	ADP15.94-001	6pcs	9.7cm	15616×g
1pc×38ml	ADP15.94-002	6pcs	8.7cm	14006×g
1pc×16ml	ADP15.94-003	6pcs	9.2cm	14811×g
1pc×15ml	ADP15.94-008	6pcs	9.1cm	14650×g
2pcs×12ml	ADP15.94-004	6pcs	9.9cm	15938×g
1pc×10ml	ADP15.94-011	6pcs	8.7cm	14006×g
3pcs×6.5ml	ADP15.94-005	6pcs	9.8cm	15777×g
2pcs×5ml	ADP15.94-010	6pcs	8.1cm	13040×g
4pcs×3.5ml	ADP15.94-006	6pcs	8.8cm	14167×g
4pcs×1.5ml	ADP15.94-007	6pcs	7.1cm	11430×g

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	10.7cm	17227×g
1pc×38ml	ADP15.50-001	8pcs	9.5cm	15294×g
1pc×16ml	ADP15.50-002	8pcs	10.0cm	16099×g
1pc×15ml	ADP15.50-010	8pcs	10.2cm	16421×g
1pc×12ml	ADP15.50-003	8pcs	9.9cm	15938×g
1pc×10ml	ADP15.50-008	8pcs	9.6cm	15455×g
1pc×6.5ml	ADP15.50-004	8pcs	9.7cm	15616×g
1pc×5ml	ADP15.50-007	8pcs	8.1cm	13040×g
3pcs×3.5ml	ADP15.50-005	8pcs	9.3cm	14972×g
2pcs×1.5ml	ADP15.50-006	8pcs	7.4cm	11913×g



#2306

#2306 Fixed angle rotor / 6×50ml, 8500rpm, 9532×g,45°(rotor #2307 incl. 6pcs 50ml conical adaptors)

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
50ml	conical	Ø29.5mm	116mm	6pcs
50ml	round	Ø29mm	115mm	6pcs
38ml	round	Ø25.5mm	96mm	6pcs
16ml	round	Ø18mm	114mm	6pcs
15ml	conical	Ø16mm	120mm	6pcs
12ml	round	Ø16mm	112mm	12pcs
10ml	round	Ø16mm	82mm	6pcs
6.5ml	round	Ø13mm	104mm	18pcs
5ml	round	Ø13.5mm	52mm	12pcs
3.5ml	round	Ø11mm	85mm	24pcs
1.5ml	conical	Ø11mm	41mm	24pcs

#2307 Swing-out rotor / 4×180ml, 5000rpm, 4863×g,90° (rotor #2307 incl. 4 aerosol-tight standard buckets)

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
180ml*	flat	Ø56mm	120mm	4pcs
85ml	round	Ø38mm	90mm	4pcs
50ml	round	Ø29mm	115mm	4pcs
25ml	round	Ø24.5mm	112mm	8pcs
15ml	round	Ø16mm	115mm	28pcs
15ml	conical	Ø16.5mm	118mm	12pcs
10ml	round	Ø16mm	82mm	16pcs
7ml	round	Ø12mm	117mm	36pcs
5ml	round	Ø13.5mm	52mm	28pcs



#2307

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
1pc×50ml	F08.50-04	6pcs	11.8cm	9532×g
1pc×50ml	ADP15.94-001	6pcs	11.9cm	9612×g
1pc×38ml	ADP15.94-002	6pcs	10.5cm	8481×g
1pc×16ml	ADP15.94-003	6pcs	11.5cm	9289×g
1pc×15ml	ADP15.94-008	6pcs	11.7cm	9451×g
2pcs×12ml	ADP15.94-004	6pcs	12.0cm	9693×g
1pc×10ml	ADP15.94-011	6pcs	10.7cm	8643×g
3pcs×6.5ml	ADP15.94-005	6pcs	11.8cm	9532×g
2pcs×5ml	ADP15.94-010	6pcs	9.2cm	7431×g
4pcs×3.5ml	ADP15.94-006	6pcs	10.3cm	8320×g
4pcs×1.5ml	ADP15.94-007	6pcs	7.8cm	6300×g

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	17.4cm	4863×g
1pc×85ml	ADP05.180-001	4pcs	16.6cm	4640×g
1pc×50ml	ADP05.180-002	4pcs	16.6cm	4640×g
2pcs×25ml	ADP05.180-003	4pcs	16.6cm	4640×g
7pcs×15ml	ADP05.180-004	4pcs	16.6cm	4640×g
3pcs×15ml	ADP05.180-006	4pcs	16.6cm	4640×g
4pcs×10ml	ADP05.180-008	4pcs	16.6cm	4640×g
9pcs×7ml	ADP05.180-005	4pcs	16.6cm	4640×g
7pcs×5ml	ADP05.180-007	4pcs	16.6cm	4640×g

*Heal Force can provide tubes

#2308 Microplate rotor with 2 racks / 2 microplate, 3000rpm, 1368×g,90° (rotor #2308 incl. 2 microplate buckets)

Centrifuge microplate		
Name	L×W×H(mm)	Tube qty/rotor
96-hole microplate	128×85.6×15	6pcs
24-hole microplate	128×85.6×21	4pcs
96-hole deep microplate	128×85.6×45	2pcs



#2308

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	13.6cm	1368×g
-	-	-	13.6cm	1368×g
-	-	-	13.6cm	1368×g

#1802 Fixed angle rotor / 10×10ml, 18000rpm, 28254×g,30°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
10ml	round	Ø16mm	82mm	10pcs
5ml	round	Ø13.5mm	52mm	10pcs
1.5ml	conical	Ø11mm	41mm	10pcs



#1802

#1803 Fixed angle rotor / 10×15ml, 14000rpm, 20379×g,26°

Centrifuge tube				
Capacity	Type	Diameter	Length	Tube qty/rotor
15ml	conical	Ø16mm	120mm	10pcs
5ml	round	Ø13.5mm	52mm	10pcs
1.5ml	conical	Ø11mm	41mm	10pcs



#1803

Adaptor				
Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
-	-	-	7.8cm	28254×g
1pc×5ml	ADP18.18.10.5-10	10pcs	6.5cm	23545×g
1pc×1.5ml	ADP18.18.10.1-10	10pcs	5.7cm	20647×g

User-friendly operation

- The large back-lit LCD display panel and easy-to-clean soft keypad on the Neofuge 23R have been designed ergonomically .
- All essential information is clearly positioned and perfectly legible - most values can even be changed during centrifugation.
- P1,P2,P3 shortcut function button for easy access to three frequently used programs.



Always a perfect fit

- Ten fixed angle, swinging bucket, microliter rotors for all common tubes from 0.2 to 180ml
- All rotors are ultraduralumin, aerosol-tight and fully autoclavable (20 min, 121 °C)
- Flexible adaptors enable high sample throughput and maximum versatility.



Electronic imbalance detection

Neofuge 23R is equipped with an advanced electronic imbalance detection system, which responds in case samples are loaded incorrectly or the tube is broken.

Automatic rotor identification

The system identifies the rotor being used and allocates individual parameters to improve efficiency. The system can indicate alarm signal in case of following conditions: setting speed exceeding limit, empty running without rotors, and failure of rotor recognition.

Technical Specifications and Ordering Information

Description	Neofuge 23R
Drive	Induction drive without carbon brushes
Control	Microprocessor controlled
Maximum RCF (×g)	
Fixed-angle rotor	50,377
Swing-out rotor	4,863
Plate rotor	1,368
Speed (rpm)	300-23,300 (adjustable in increments of 100)
Maximum capacity (ml)	
Fixed-angle rotor	4×180
Swing-out rotor	6×94
Rotor options	10
Accel./Braking ramps	9/9
Programs	9
Run time	0-9 hrs 59 mins, cont. operation(hold)
Functions	rpm/rcf pre-selection, quick run
Rotor recognition	Automatic
Imbalance recognition	Electronic,ideally tuned for every rotor
Program memory	The most recent data remains in the memory
Centrifuge protection	Motorized lid-lock and interlock
Temperature control range (°C)	-20~40
Temperature accuracy(°C)	±2
Noise level (dB)	≤66
Power supply (V/Hz)	220/50-60
Rated power (VA)	1800
Dimensions(W×D×H, mm)	765×590×450 (30.1×23.2×15.7)
Weight without rotor	136kg (299lbs)
Ordering Information	Neofuge 23R
220V, 50/60Hz, excluding accessories	7BZ-NEOFUGE23R-001

Neofuge 1600/1600R Laboratory Centrifuge



Neofuge 1600

Cooling system

- Temperature range from -10°C to +40°C
- Rotors can be spun at maximum speed and still maintain the setting temperature
- Standby cooling maintains temperature when centrifuge is not in use

*For Neofuge 1600R only

User-friendly Interface

- Large back-lit LCD display of RCF, time, temperature, acceleration, braking rates and error messages
- Easy control for parameter setting and precise control by microprocessor
- Short-spin key enables quick runs at your desired rotational speed.
- P1, P2, P3 shortcut function button for easy access to three frequently used programs.
- Save up to 10 individual user programs
- Values can be changed during centrifugation



Heal Force Neofuge 1600/1600R benchtop laboratory centrifuge specializes in quality , design , and innovation that comes from a heritage of many years of experience. Neofuge 1600/1600R offers maximum application versatility including a high-capacity, general-purpose centrifuge for cell harvesting; a high-speed centrifuge for separating cell lysates; and a microcentrifuge for DNA precipitations.

Features

Performance And Versatility

- Max. capacity of 4×400ml
- Spin up to 15000rpm or 23646×g
- Interchangeable swing-bucket and high-speed fixed-angle rotors
- Broad range of adapters and modular accessories



Neofuge 1600R

Operation and safety

- Automatic rotor identification
- Electronic imbalance detection
- The lid is locked by electronic latch automatically
- High quality rotors (Ultraduralumin, Aerosol-tight, Autoclavable(121°C, 20min)
- 9 acceleration and ten braking rates for added protection of sensitive sample material
- Powerful motors for short acceleration and brake times



#2302

#2302 Fixed angle rotor / 24×2.0ml, 17000rpm, 28111×g,45°

Centrifuge tube					Adaptor				
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
1.5/2 ml	round	Ø11mm	47mm	24pcs	-	-	-	8.7cm	28111×g
0.5 ml	conical	Ø8mm	32mm	24pcs	1×0.5ml	ADP17.02-001	24pcs	7.4cm	23910×g
0.2 ml	conical	Ø6.5mm	22mm	24pcs	1×0.2ml	ADP17.02-002	24pcs	6.7cm	21648×g



#2304

#2304 Fixed angle rotor / 6×94ml, 12000rpm, 16261×g,26°

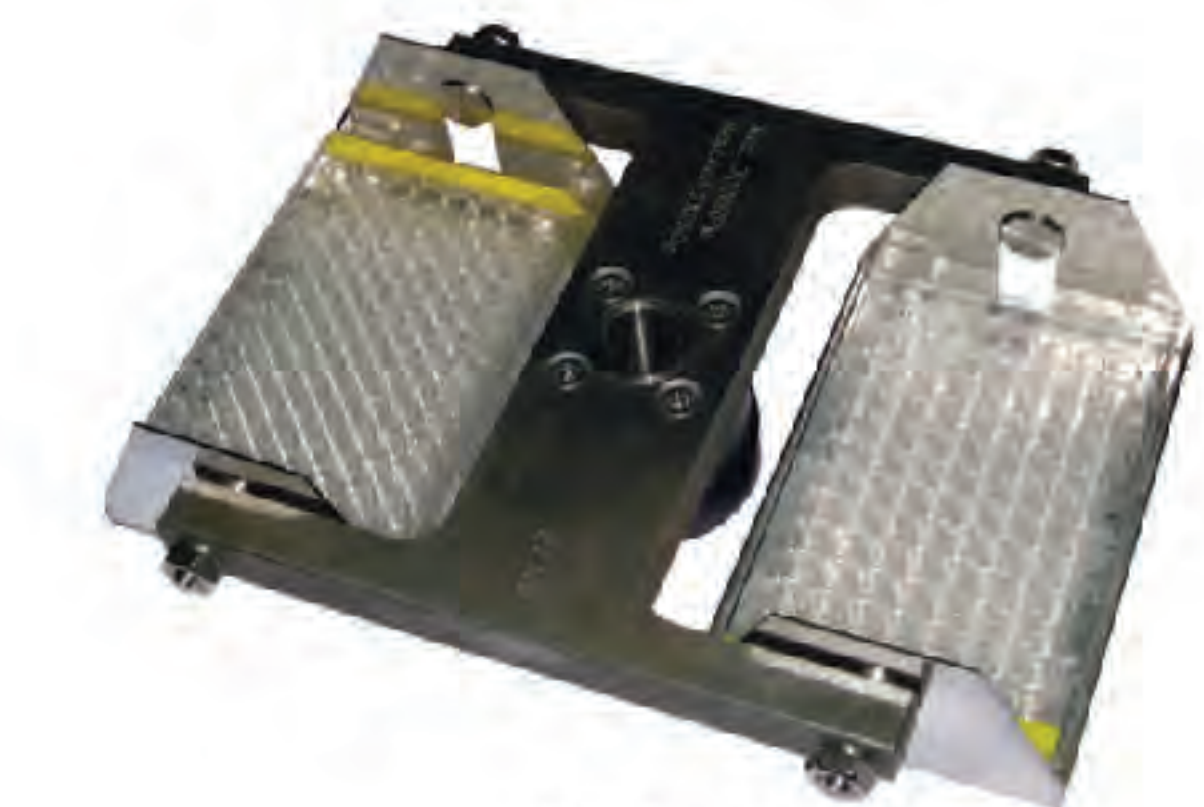
Centrifuge tube					Adaptor				
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
94ml	round	Ø38mm	116mm	6pcs	-	-	-	10.1cm	16261×g
50ml	conical	Ø29.5mm	116mm	6pcs	1pc×50ml	F08.50-04	6pcs	9.5cm	15294×g
50ml	round	Ø29mm	115mm	6pcs	1pc×50ml	ADP15.94-001	6pcs	9.7cm	15616×g
38ml	round	Ø25.5mm	96mm	6pcs	1pc×38ml	ADP15.94-002	6pcs	8.7cm	14006×g
16ml	round	Ø18mm	114mm	6pcs	1pc×16ml	ADP15.94-003	6pcs	9.2cm	14811×g
15ml	conical	Ø16mm	120mm	6pcs	1pc×15ml	ADP15.94-008	6pcs	9.1cm	14650×g
12ml	round	Ø16mm	112mm	12pcs	2pcs×12ml	ADP15.94-004	6pcs	9.9cm	15938×g
10ml	round	Ø16mm	82mm	6pcs	1pc×10ml	ADP15.94-011	6pcs	8.7cm	14006×g
6.5ml	round	Ø13mm	104mm	18pcs	3pcs×6.5ml	ADP15.94-005	6pcs	9.8cm	15777×g
5ml	round	Ø13.5mm	52mm	12pcs	2pcs×5ml	ADP15.94-010	6pcs	8.1cm	13040×g
3.5ml	round	Ø11mm	82mm	24pcs	4pcs×3.5ml	ADP15.94-006	6pcs	8.8cm	14167×g
1.5ml	conical	Ø11mm	41mm	24pcs	4pcs×1.5ml	ADP15.94-007	6pcs	7.1cm	11430×g



#2305

#2305 Fixed angle rotor / 8×50ml, 12000rpm, 17227×g,30°

Centrifuge tube					Adaptor				
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
50ml	round	Ø29mm	112mm	8pcs	-	-	-	10.7cm	17227×g
38ml	round	Ø25.5mm	92mm	8pcs	1pc×38ml	ADP15.50-001	8pcs	9.5cm	15294×g
16ml	round	Ø18mm	108mm	8pcs	1pc×16ml	ADP15.50-002	8pcs	10.0cm	16099×g
15ml	round	Ø16mm	115mm	8pcs	1pc×15ml	ADP15.50-010	8pcs	10.2cm	16421×g
12ml	round	Ø16mm	106mm	8pcs	1pc×12ml	ADP15.50-003	8pcs	9.9cm	15938×g
10ml	round	Ø16mm	82mm	8pcs	1pc×10ml	ADP15.50-008	8pcs	9.6cm	15455×g
6.5ml	round	Ø13mm	104mm	8pcs	1pc×6.5ml	ADP15.50-004	8pcs	9.7cm	15616×g
5ml	round	Ø13.5mm	52mm	8pcs	1pc×5ml	ADP15.50-007	8pcs	8.1cm	13040×g
3.5ml	round	Ø11mm	82mm	24pcs	3pcs×3.5ml	ADP15.50-005	8pcs	9.3cm	14972×g
1.5ml	conical	Ø11mm	41mm	16pcs	2pcs×1.5ml	ADP15.50-006	8pcs	7.4cm	11913×g



#2308

#2308 Microplate rotor with 2 racks / 2 microplate, 3000rpm, 1368×g,90° (rotor #2308 incl. 2 microplate buckets)

Centrifuge microplate				Adaptor				
Name	L×W×H(mm)	Tube qty/rotor		Specification	Order NO.	Packed/unit	Max. Radius	Max. RCF
96-hole microplate	128×85.6×15	6pcs		-	-	-	13.6cm	1368×g
24-hole microplate	128×85.6×21	4pcs		-	-	-	13.6cm	1368×g
96-hole deep microplate	128×85.6×45	2pcs		-	-	-	13.6cm	1368×g



#1807



#1601

#1807 Fixed angle rotor / 48×2ml, 15000rpm, 23646×g,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
1.5/2ml	round	Ø11mm	47mm	48pcs	-	-	-
0.5ml	round	Ø8mm	32mm	48pcs	1pc×0.5ml	ADP17.02-001	48pcs
0.2ml	conical	Ø6.5mm	22mm	48pcs	1pc×0.2ml	ADP17.02-002	48pcs

#1601 Fixed angle rotor / 8×8×0.2ml, 13000rpm, 13604×g,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
8×0.2ml	conical	Ø6.5mm	-	8pcs	-	-	8pcs
0.2ml	conical	Ø6.5mm	22mm	64pcs	-	-	64pcs

#1602 Swing-out rotor / 4×400ml, 4500rpm, 4437×g,90° (rotor #1602 incl. 4 aerosol-tight standard buckets)

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
400ml*	flat	Ø87mm	136mm	4pcs	-	-	-
210ml	flat	Ø66mm	107mm	4pcs	1pc×210ml	ADP16.04.400.250-10	4pcs
180ml	flat	Ø56mm	119mm	4pcs	1pc×180ml	ADP16.04.400.180-10	4pcs
100ml	flat	Ø45mm	100mm	4pcs	1pc×100ml	ADP16.04.400.100-10	4pcs
50ml	conical	Ø29.5mm	116mm	16pcs	4pcs×50ml	ADP16.04.400.50-00	4pcs
15ml	conical	Ø16.5mm	120mm	40pcs	10pcs×15ml	ADP16.04.400.15-00	4pcs
10ml	round	Ø13.5mm	82mm	56pcs	14pcs×10ml	ADP16.04.400.10-00	4pcs
7ml	round	Ø13mm	115mm	76pcs	19pcs×7ml	ADP16.04.400.C-00	4pcs
5ml	round	Ø13mm	≤115mm	76pcs	19pcs×5ml	ADP16.04.400.C-00	4pcs

*Heal Force can provide tubes



#1602



#1603/1604

#1603 Swing-out rotor/4×250ml, 4000rpm, 3577×g, 90°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
250ml	conical	Ø59.5mm	163mm	4pcs	-	-	-
50ml	conical	Ø29.5mm	116mm	4pcs	1pc×50ml	ADP16.04.250C.50-10	4pcs
15ml	conical	Ø16mm	120mm	12pcs	3pcs×50ml	ADP16.04.250C.50-10	4pcs

#1604 Swing-out rotor/4×250ml, 3800rpm, 3180×g, 90°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
250ml	conical	Ø59.5mm	163mm	4pcs	-	-	-
50ml	conical	Ø29.5mm	116mm	12pcs	3pcs×50ml	ADP16.04.250F.50-10A	4pcs
15ml	conical	Ø16mm	120mm	28pcs	7pcs×15ml	ADP16.04.250F.50-10A	4pcs

Neofuge 16/16R Technical Specifications

Max. speed	15,000rpm	Noise at max. speed	≤60dB(1600R) ; ≤68dB(1600)
Min. speed	300rpm	Temperature range	-10℃~40℃(16000R)
Steplength	in 100rpm increments	Refrigerant	R404a (CFC-free)
Max. RCF	23,646×g	Control	Microprocessor control
Max. capacity	4×400ml	Running time	≤9h 59min, quick spin
Accel./Braking curves	9\9	Dimensions(H×W×D)	550mm×670mm×410 mm (1600) 790mm×670mm×410 mm (1600R)
Rotor options	10	Net weight without rotor	105Kg (1600) 126Kg (1600R)
Power supply	220V/50Hz-60Hz		
Drive	Brushless induction motor		