



# Neofuge 18R

## Laboratory Centrifuge



### The ideal centrifuge for:

- Small medical laboratories
- Biochemistry and molecular biological research
- Routine analysis in industrial laboratories



# Performance you can rely on



Neofuge 18R

## Introduction

Heal Force Neofuge 18R laboratory centrifuge, providing excellent centrifugal effect and easy to use with high reliability and safety, are widely used in the fields of molecular and biochemical research, and medical diagnosis.

## Features

- Refrigerated by CFC-free unit (R134a), temperature range -10~40°C
- Maximum speed at 18,000rpm & maximum RCF at 31,515xg
- Easy control for parameter setting & precise control by microprocessor
- Electronic imbalance detection
- Automatic rotor identification
- Low noise brushless drive motor, free of maintenance
- Precooling rotors function during standby
- 9 acceleration/deceleration curves available
- Multi-function by 10 optional rotors

## Strong drive

A “strong drive” equipped in Neofuge 18R brings the following benefits and conveniences:

- Applicable for manual tube balancing
- Extremely low noise during running
- Sturdy and reliable for daily work

## Electronic imbalance detection

Neofuge 18R is equipped with an electronic imbalance detection system, which responds in case samples are loaded incorrectly or the tube is broken, and pauses centrifugation automatically to protect the operator or machine from being hurt or damaged.

## Automatic rotor identification

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

## Simple & safe control

With all essential status parameters are directly displayed on the LCD screen, the operator is very convenient to preset parameters such as speed, RCF, running time and chamber temperature. Locking protection is applied in Neofuge 18R to prevent any possible mistake in operation.



## Programming

Up to 15 working modes are able to be programmed and saved, for the convenience of future uses.

## Quick-spin

For short process working, a “quick spin” key is easy to operate without other setting.

## Lid-lock system

The lid-lock system is a patented design for safety. The lid is locked by electronic latch automatically, and also not able to be opened manually. The instruction of opening the lid is requested by the “open” key on the control panel, and takes effect only when the rotors inside stop running.

## Emergency lid release

Despite the lid is locked and not able to be opened manually during running, operators are able to release the lid by pulling the cord in emergency such as accidental power failure or malfunctions.

## Alarm and troubleshooting

The control microprocessor is applied to monitor the machine to work safely and reliably. Any abnormal operation working status may be detected immediately, and the system activates protecting process automatically. Meanwhile, alarm and record functions are also activated to notice the operator by showing message on the panel and saving the error report.

## High quality rotors

- Ultraduralumin      - Aerosol-tight      - Autoclavable (121°C, 20 min)

## Quick overview of rotors family for centrifuge Neofuge 18R



#2302 Fixed angle rotor

### #2302 Fixed angle rotor / 24x2.0ml, 18000rpm, 31515xg,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
1.5/2.0ml	round	Ø11mm	47mm	24pcs	-	-	-
0.5ml	conical	Ø8mm	32mm	24pcs	1x0.5ml	ADP17.02-001	24pcs
0.2ml	conical	Ø6.5mm	22mm	24pcs	1x0.2ml	ADP17.02-002	24pcs



#1801 Fixed angle rotor

### #1801 Fixed angle rotor / 32x2.0/1.5ml, 15000rpm, 26664xg,45°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
1.5/2.0ml	round	Ø11mm	47mm	32pcs	-	-	-
0.5ml	conical	Ø8mm	32mm	32pcs	1x0.5ml	ADP17.02-001	32pcs
0.2ml	conical	Ø6.5mm	22mm	32pcs	1x0.2ml	ADP17.02-002	32pcs



#1802 Fixed angle rotor

### #1802 Fixed angle rotor / 10x10ml, 18000rpm, 28254xg,30°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
10ml	round	Ø16mm	82mm	10pcs	-	-	-
5ml	round	Ø13.5mm	52mm	10pcs	1pcx5ml	ADP18.18.10.5-10	10pcs
1.5ml	conical	Ø11mm	41mm	10pcs	1pcx1.5ml	ADP18.18.10.1-10	10pcs



#2304 Fixed angle rotor

### #2304 Fixed angle rotor / 6x94ml,15000rpm, 25407xg,26°

Centrifuge tube					Adaptor		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
94ml	round	Ø38mm	116mm	6pcs	-	-	-
50ml	conical	Ø29.5mm	116mm	6pcs	1pcx50ml	F08.50-04	6pcs
50ml	round	Ø29mm	115mm	6pcs	1pcx50ml	ADP15.94-001	6pcs
38ml	round	Ø25.5mm	96mm	6pcs	1pcx38ml	ADP15.94-002	6pcs
16ml	round	Ø18mm	114mm	6pcs	1pcx16ml	ADP15.94-003	6pcs
15ml	conical	Ø16mm	120mm	6pcs	1pcx15ml	ADP15.94-008	6pcs
12ml	round	Ø16mm	112mm	12pcs	2pcsx12ml	ADP15.94-004	6pcs
10ml	round	Ø16mm	82mm	6pcs	1pcx10ml	ADP15.94-011	6pcs
6.5ml	round	Ø13mm	104mm	18pcs	3pcsx6.5ml	ADP15.94-005	6pcs
5ml	round	Ø13.5mm	52mm	12pcs	2pcsx5ml	ADP15.94-010	6pcs
3.5ml	round	Ø11mm	85mm	24pcs	4pcsx3.5ml	ADP15.94-006	6pcs
1.5ml	conical	Ø11mm	41mm	24pcs	4pcsx1.5ml	ADP15.94-007	6pcs



#2305 Fixed angle rotor

### #2305 Fixed angle rotor / 8x50ml,15000rpm, 26916xg,30°

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	1pcx38ml	ADP15.50-001	8pcs
16ml	round	Ø18mm	108mm	8pcs	1pcx16ml	ADP15.50-002	8pcs
15ml	round	Ø16mm	115mm	8pcs	1pcx15ml	ADP15.50-010	8pcs
12ml	round	Ø16mm	106mm	8pcs	1pcx12ml	ADP15.50-003	8pcs
10ml	round	Ø16mm	82mm	8pcs	1pcx10ml	ADP15.50-008	8pcs
6.5ml	round	Ø13mm	104mm	8pcs	1pcx6.5ml	ADP15.50-004	8pcs
5ml	round	Ø13.5mm	52mm	8pcs	1pcx5ml	ADP15.50-007	8pcs
3.5ml	round	Ø11mm	82mm	24pcs	3pcsx3.5ml	ADP15.50-005	8pcs
1.5ml	conical	Ø11mm	41mm	16pcs	2pcsx1.5ml	ADP15.50-006	8pcs



#1803 Fixed angle rotor

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

<b>Centrifuge tube</b>					<b>Adaptor</b>		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
15ml	conical	Ø16mm	120mm	10pcs	-	-	-
5ml	round	Ø13.5mm	52mm	10pcs	1pc×5ml	ADP18.14.15.5-10	10pcs
1.5ml	conical	Ø11mm	41mm	10pcs	1pc×1.5ml	ADP18.14.15.1-10	10pcs



#1804 Swing-out rotor

**#1804 Swing-out rotor / 4×210ml, 5000rpm, 3969×g,90° (rotor #1804 incl. 4 aerosol-tight standard buckets)**

<b>Centrifuge tube</b>					<b>Adaptor</b>		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
210ml	flat	Ø66mm	107mm	4pcs	-	-	-
100ml	flat	Ø45mm	100mm	4pcs	1pc×100ml	SP18.05.250.100-00	4pcs
85ml	flat	Ø38mm	90mm	4pcs	1pc×85ml	SP18.05.250.85-00	4pcs
10/7ml	round	Ø16.5mm	82/75mm	28pcs	7pcs×10/7ml	SP18.05.250.10-00	4pcs
5ml	round	Ø13.5mm	52mm	36pcs	9pcs×5ml	SP18.05.250.5-00	4pcs



#1805  
Microplate rotor with 2 racks

**#1805 Microplate rotor with 2 racks / 2 microplate, 3000rpm, 1087×g,90° (rotor #1805 incl. 2 microplate buckets)**

<b>Centrifuge microplate</b>			<b>Adaptor</b>		
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	-	-	-



#1806 fixed angle rotor

**#1806 Fixed angle rotor / 16×10ml, 15000rpm, 26664×g,40°**

<b>Centrifuge tube</b>					<b>Adaptor</b>		
Capacity	Type	Diameter	Length	Tube qty/rotor	Specification	Order NO.	Packed/unit
10ml	round	Ø16mm	82mm	16pcs	-	-	-
5ml	round	Ø13.5mm	52mm	16pcs	1pc×5ml	ADP18.18.10.5-10	16pcs
1.5ml	conical	Ø11mm	41mm	16pcs	1pc×1.5ml	ADP18.18.10.1-10	16pcs



#1807 fixed angle rotor

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

<b>Centrifuge tube</b>					<b>Adaptor</b>		
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	1×0.5ml	ADP17.02-001	48pcs
0.2ml	conical	Ø6.5mm	22mm	48pcs	1×0.2ml	ADP17.02-002	48pcs

**Neofuge 18R Technical Specifications**

<b>Max. speed</b>	18,000rpm
<b>Min. speed</b>	300rpm
<b>Steplength</b>	in 100rpm increments
<b>Max. RCF</b>	
Fixed-angle rotor	31515×g
Swing-out rotor	3969×g
Plate rotor	1087×g
<b>Max. capacity</b>	
Fixed-angle rotor	6×94ml
Swing-out rotor	4×210ml
<b>Rotor options</b>	10
<b>Accel./Braking curves</b>	9/9
<b>Refrigerant</b>	R134(CFC free)
<b>Power supply</b>	220V/50Hz-60Hz

<b>Rated power</b>	1200VA
<b>Drive</b>	Induction drive without carbon brushes
<b>Noise at max. speed</b>	≤60dB
<b>Temperature range</b>	-10 C ~+40 C, precooling
<b>Control</b>	Microprocessor
<b>Run time</b>	0~9h 59min, cont.operation(hold)
<b>Functions</b>	Quick-spin, RPM/RCF swift
<b>Rotor recognition</b>	Automatic
<b>Imbalance detection</b>	Electronic
<b>Program</b>	Up to 15 working modes
<b>Dimensions(W×D×H) (mm)</b>	600×565×405
<b>Net weight without rotor kg(lb)</b>	115(254)
<b>Test standards</b>	"Manufactured and tested in accordance with EN60601-2-020/A1:1996"



**Heal Force Bio-Meditech Holdings Group**  
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