

Autoclaves



CE
0470

WAC-60

WiseClave® WAC Digital Fuzzy-Controlled Autoclaves-Steam Sterilizer

CE-MDD Certified
47-/60-/80- Lit.
Electronic Door Lock Sensing System
2×Wire Basket
Up to 132 °C, 2 kgf / cm²

Baths



WMB-306

WiseBath® WMB Digital Multi-Chambers Water Bath

6 Lit. or 11 Lit. × 3 Baths
Independent Digital Fuzzy Control System
Implementing Max. Temp. Accuracy
Up to 100 °C, ±0,1 °C

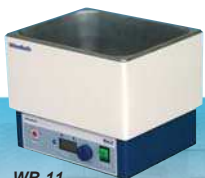


WEB-4

WiseBath® WEB Multi-Purpose Extraction Water Bath

4-/6-/8- Places
Digital Fuzzy Control System
Concentric Ring Cover Set
Up to 100 °C, ±0,2 °C

Bath Circulators



WB-11

WiseBath® WB Digital Precise Water Bath

6-/11-/22- Lit.
Fuzzy Control System
Digital LCD- Back Light System
Up to 100 °C, ±0,1 °C



WHB-11

WiseBath® WHB Digital High Temperature Oil Bath

6-/11-/22- Lit.
Digital Fuzzy Control System
1,2 mm Thickness Stainless
Steel Bath
Up to 250 °C, ±1,5 °C



WSB-30

WiseBath® WSB Digital Precise Shaking Water Bath

18-/30-/45- Lit.
Digital Fuzzy Control Reciprocating
Motion Patented Shaking Mechanism
20~250 rpm, up to 100 °C



WCB-22

WCB-11H

WiseCircu® WCB WiseCircu® WCB-H Digital Precise Circulation Water Bath Precise Circulation Head

6-/11-/22- Lit.
Fuzzy Control System
Digital LCD- Back Light System
Up to 100 °C, ±0,1 °C, 5 Lit. / min

Centrifuges



WCR-P6

WCR-P12

WiseCircu® WCL WiseCircu® WCR Digital Precision Refrigerated Bath Circulator

6-/8-/12-/22-/30- Lit.
Digital Fuzzy Control System
CFC-free Refrigeration System
-40/ -20 °C~100 °C, ±0,1 °C



WCH-8

WCH-12

WiseCircu® WCH High Temperature Bath Circulators

8-/ 12-/ 22-/ 30- Lit.
Digital Fuzzy Control System
Powerful Circulation Pump
up to 250 °C, ±0,1 °C



CF-10

WiseSpin® CF-10 High-Performance Microcentrifuges

12 × 0,5/1,5/2,0 ml Tubes
Digital Feedback Speed Control
Unbelievably Quiet Operation
Digital Timer Function
13.500 rpm (rcf:12.225 xg)

Product Overview

Furnaces, Muffle



F-14

WiseTherm® F/FH Digital Muffle Furnaces

1.000 / 1.200 °C with 4-side Heating
Digital PID Control System
Ceramic Fiber with Heating Wire
3~63 Lit., For Lab & Industry



FP-14

WiseTherm® FP/FHP Programmable Digital Muffle Furnaces

1.000 / 1.200 °C with 4-side Heating
PID Programmable Controller:
3 Patterns with 16 Segments
Ceramic Fiber with Heating Wire
3~63 Lit., For Lab & Industry



WGC-450

WiseCube® WGC Programmable Plant Growth Chamber

432-/864- Lit.
Multi-Functional Program Control System
3-Side Magnetic Packing Doors
with Light Bank, Touch-Screen LCD
0~12.000/ 0~15.000 Lux
30~95 % RH, 10~60 °C



WGC-P4

WiseCube® WGC Programmable Growth/ Environmental Chamber

432-/864- Lit.
Multi-Functional Program Control System
Light Bank System, Touch-Screen LCD
0~20.000 Lux
30~95 % RH, 10~60 °C

Gel Doc. Systems & Transilluminator

Up-grades!



WGD-20S
-Portable
System

WiseDoc® WGD-20/30 Gel Documentation System

USB Interface - WiseCapture II™
1,5 M Pixel CCD High Precision
Large Caliber Zoom Lens



WUV-L50

WUV-M20

WiseUv® WUV UV Transilluminators

Hinged UV-Blocking Safety Cover
Standard Compact-Case Models
20×20 cm Filter, 48 W / 90 W



HB-48-Set

HB-96-Set
-Dual type

WiseTherm® HB High-Performance Dry Bath-Heating

Digital PID Control System
Precise Temperature Control
Various Moduler Blocks
up to 150 °C, ±0,2 °C



HB-R48-Set

WiseTherm® HB-R High-Performance Dry Bath Heating & Cooling

Digital PID Control System
Precise Temperature Control
Peltier Colling System
-5~+95 °C, ±0,15 °C

Heating Mantles

New

Full choices of Vessel, Capacity, Housing and Control are offered !!
Powered by **Wisd. Zz** Digital Control Technology

- Highly-processed Aluminum Case offers Robust Standing, Easy Handling and Usability on the Magnetic Stirrer
- Nickel Chrome Heating Element - Coil Type : Acid-resistant, Long Life Time.
- K-type thermo sensor is basically embedded (except Fabric Mantles)
- External Thermo Sensor is available, which enables precise control of the temperature of liquid sample in the vessel when used together with remote digital controller.



WHM-12034

WHM-121606

WiseTherm® WHM Aluminum-case Stirrer Heating Mantles with Controller

450 °C / 650 °C
Aluminum Case (Up to 6 Lit.)
Usability on the Magnetic Stirrer
(Al-Case Models Only)
With or Without Stirring



WHM-12054

WHM-12173

WiseTherm® WHM Aluminum-case Heating Mantles

450 °C / 650 °C
Aluminum Case (Up to 6 Lit.)
Usability on the Magnetic Stirrer
(Al-Case Models Only)
Remote Thermo Controllers are
available (Analog or Digital)



WHM-12114

WHM-12196

WiseTherm® WHM Fabric-housed Heating Mantles

450 °C
Fabric-housed
Self-Standing
Usability on the Magnetic Stirrer



WHM-12293

WiseTherm® WHM Aluminum-case Multi Heating Mantles

450 °C, 3-/6- Places
Analog Control, 250~1.000 ml
Round Bottom Flasks



WHM-C10D

WiseTherm® WHM-C10D Digital Feedback Controller

Ambient +5~750 °C
Accuracy ±1 °C
Control Capacity Up to 2 kW



WHM-C10A

WiseTherm® WHM-C10A Analog Controller

5 ~ 100 % of Rated Voltage
Control Capacity Up to 1,2 kW

Homogenizing

WiseTis® HG-15D
Digital Homogenizer
with Remote Controller

1~2.500 ml
Microprocessor
Digital-Control and
LCD of Speed & Power
2.000~27.000 rpm



HG-15D-Set

WiseTis® HG-15A
Homogenizer
with Direct Controller

1~2.500 ml
Analog Stepless
Control System
Max 27.000 rpm



HG-15A-Set

WiseStir® HS-30E
Homogenizing Stirrer

Use with Tissue Grinders
Analog phase Control
Up to 5.000 rpm



HS-30E-Set

Hotplates

WiseTherm® HP-D
WiseTherm® HP-LP
Digital Hotplate

WiseTherm® HP-A
Premium Hotplate

Ceramic-Coated Plate
180 × 180 mm/
260 × 260 mm, Max 380 °C



HP-20A



HP-20D-SET



HP-LP1

Ceramic-Coated Plate,
180 × 180 mm/ 260 × 260 mm
/ 310 × 620 mm
Digital Feedback Control
Digital LCD with Back Light Function,
99.59 hr. Timer
Up to 320 °C/ 380 °C, ± 0,3 °C

Dispersing Tools



(1) Dispersing Tool, HT1008 (2) Dispersing Tool, HT1010 (3) Dispersing Tool, HT1018 (4) Dispersing Tool, HT1025

Hotplate Stirrers & Magnetic Stirrers

WiseStir® MSH-A
WiseStir® MS-20A
Premium Hotplate Stirrer
& Magnetic Stirrer

Ceramic-Coated Plate,
180 × 180 mm/ 260 × 260 mm
Max. 380 °C (MSH-A)
0~1.500 rpm



MSH-30A

WiseStir® MSH-D
WiseStir® MS-20D
Digital Hotplate Stirrer
& Magnetic Stirrer

Ceramic-Coated Plate,
180 × 180 mm/ 260 × 260 mm
Digital Feedback Control
by High-Performance Microprocessor
80~1.500 rpm
Max. 380 °C, ± 0,3 °C (MSH-D)



MSH-30D

WiseStir® SMHS
Systematic Multi-Hotplate Stirrers

3-/6- Places, Ceramic-Coated Plates
Digital Feedback Control
Independent Heating & Stirring Control
Max. 350 °C, ± 0,3 °C, 80~1.500 rpm



SMHS-6

WiseStir® MS-MP
Digital Multi-point
Magnetic Stirrers

4-/8- Points
Digital Feedback Control
Digital LCD- Back Light System & Timer
Max. 500 ml per Point
80~1.200 rpm



MS-MP8
-8 Points

MS-MP4
-4 Points

Incubators

WiseCube® WIG
Incubator, Gravity/Natural-Flow

WiseCube® WIF
Incubator, Horizontal-Flow



WIG-155

WIF-155



WIM-R4

Compact &
Round Type Plate



MSH-55A

WiseStir® MSH-55A
Premium Compact
Hotplate Stirrer

Ceramic-Coated/Anodized Plate
φ 135 mm Plate
Max. 380 °C, 0~1.500 rpm



MSH-50D-SET

WiseStir® MSH-50D
Digital Compact Hotplate Stirrer

Ceramic-Coated/Anodized Plate
φ 135 mm Plate
With Digital Feedback Control
Accurate Temperature Control
Up to 380 °C, ± 0,3 °C
80~1.500 rpm

32-/50-/105-/155- Lit.
Digital Fuzzy Control System
Digital LCD-Back Light System / 2- Line
Natural Convection or Forced Convection
up to 70 °C, ± 0,2 °C
2 Teflon Coated Steel Shelves

WiseCube® WIM
Multi-Room Incubator

125 Lit. × 4 Rooms
Digital Fuzzy Control System
Independent Chamber Control
Forced Convection
Up to 60 °C, ± 0,1 / ± 0,2 °C
4 Individual Rooms
2 × 4 Teflon Coated Steel Shelves
with or without Illuminators

Incubators, Shaking

WiseCube® WIR ^{Up grade!}
Low Temperature B.O.D Incubators



WIR-150

150-/250-/420- Lit.
Digital Fuzzy Control System
CFC-free Refrigeration System
Forced Convection
0~60 °C, ±0,3 °C
3 Teflon Coated Steel Shelves

WiseCube® WIS-30 ^{New}
Precise Shaking Incubator



WIS-30R

Front Door Type, Orbital Motion
Digital Fuzzy Control System
Sliding Platform
10 to 60 °C (WIS-30R), 30~250 rpm,
50~1.000 ml

WiseCube® WIS-20
Precise Shaking Incubator



WIS-20R

Top Door Type, Orbital Motion
Digital Fuzzy Control System
10 to 60 °C (WIS-20R), 30~250 rpm
With or Without Illuminators
& Recorder



WIS-ML04

WiseCube® WIS-ML
Multi-Stack Refrigerated
Shaking Incubator
10~60 °C, 30~250 rpm
Digital Fuzzy Control System
Individual Speed & Time Control
2-/4- Stacks

Incubators Environmental(Humidity)



WTH-E155

WiseCube® WTH-E
Economic Temp./Humidity
Chamber

Digital PID Programmable Controller
Program Function : 30 Patterns, 300 segments
-20~80 °C, ±0,3 °C
30~95 % RH



WTH-305

WiseCube® WTH
Programmable
Temp./Humidity Chamber

Digital PID Controller, Programmable
Touch Screen
Automatic Defrost Function
-20~120 °C/-40~120 °C, ±0,3 °C
30~98 % RH

Jar Tester & Mill

WiseStir® JT-M6
Digital Jar Tester



JT-M6

6-Paddle Stirrer for Flocculation Test
Programmable Operation
Digital Feedback Control System
20~300 rpm, 6 Impellers
10 Steps 6 Programs

WiseMix® BML
Programmable Ball Mill



BML-2

2-/6- Pots
LCD Display
Digital Feedback Controller
Up to 600 rpm, ±5 rpm
10 Steps 6 Programs

Ovens

WiseVen® WON
Ovens, Gravity/Natural-Flow type
WiseVen® WOF
Ovens, Horizontal-Flow type



WON-155

32-/50-/105-/155-/305- Lit.
Max. 230 °C, ±0,3 °C
Digital Fuzzy Control System
Natural Convection
Built-in Viewing Window
2 or 3 Stainless Steel Shelves

WOF-155

50-/105-/155-/305- Lit.
Max. 230 °C, ±0,3 °C
Digital Fuzzy Control System
Forced Convection
Air Flow Layer
2 or 3 Stainless Steel Shelves



Viewing Window
WON-W105/W155/W305
WOF-W105/W155/W305



WOV-30

30-/69- Lit., 10~750 mmHg
Max. 200 °C, ±0,5 °C
Digital Fuzzy Control System
Highly Safety Viewing Window
3 fold Glass + Polycarbonate
Window
Aluminum Shelves

Refrigerator



WCC-1000

WiseCube® WCC
Digital Cold Lab Chamber

250-/1.176- Lit., 0~10 °C, ±0,5 °C
Digital Fuzzy Control System
Digital LCD-Back Light System
Forced Convection-Dual Turbo FAN
3 or 6 Teflon Coated Steel Shelves



WLF-420

WiseCryo® WLF
Digital Laboratory Freezer

420 Lit., Upright type
Down to -35 °C
Digital Fuzzy Control System
Digital LCD-Back Light System
4 Stainless Steel Shelves

Overhead Stirrers - High Speed

WiseStir® HS-A Analog High-Speed Overhead Stirrers

Easy-to-Use Dial
for Speed Setting
Max. 10-/20- Lit.,
Max. 3.000 rpm
To 50.000 mPas

HS-50A (or HS-120A)

WiseStir® HS-D Digital High-Speed Overhead Stirrers

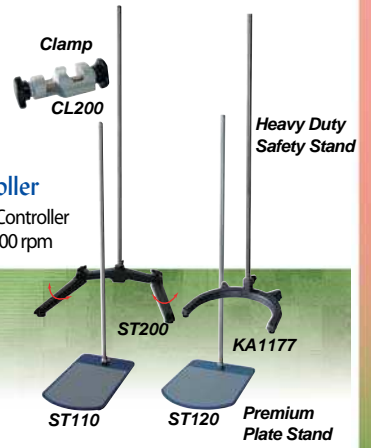
Digital Feedback Control
Max. 10-/20- Lit.,
200 ~ 3.000 rpm
To 50.000 mPas

HS-30D (or HS-100D)

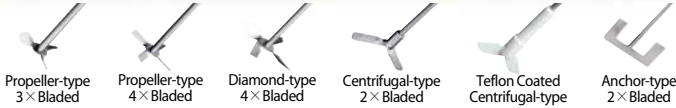
WiseStir® HS-T Digital High-Speed Overhead Stirrers with Remote Controller

Remote Digital Feedback Controller
Max. 10-/20- Lit., 200 ~ 3.000 rpm
To 50.000 mPas

HS-30T
(or HS-100T)



Stirring Shafts with Exchangeable Impellers, Stainless steel #304



Overhead Stirrers - High Torque

WiseStir® HT-T Digital High-Torque Stirrer with Remote Controller

Remote Digital
Feedback Controller
Max. 40-/ 60- Lit.,
50 ~ 1.000 rpm
To 150.000 mPas

HT-50T
(HT-120T)

Remote Controller



WiseStir® HT-AX Analog High-Torque Overhead Stirrer

Easy-to-Use Dial for Speed Setting
Max. 40-/ 60- Lit., Max. 1.000 rpm
150.000 mPas



WiseStir® HT-DX Digital High-Torque Overhead Stirrer

Digital Feedback Control
Max. 40-/ 60- Lit., 50 ~ 1.000 rpm
150.000 mPas, Timer & Alarm

Rocker & Rotator



WiseMix® RK Digital Rockers

29×20/ 30×30 cm Platform
Programmable Operation :
10 Steps 6 Programs
5~50 rpm, Tilt Angle $\pm 6^\circ / \pm 9^\circ$



WiseMix® RT Digital Rotator

0° ~ 90°, 5~100 rpm
Digital Feedback Control
Option 4 Disks and 3 Roller Drums

Shakers & Vortex Mixer

WiseShake® SHO/SHR Digital Orbital /Reciprocating Shaker



Digital Feedback Control
Programmable Operation :
10 Steps 6 Programs
Universal or Rubber Mat Platform Applicable
10~300 rpm



WiseMix® VM Multifunction Vortex Mixer

Shaking Motion : Circular
0~3.300 rpm
 $\phi 76$ mm (3 inch) Platform Head and Pop-off Cup included
High Power & Stable Motion with Low Noise

Ultrasonic Cleaners

WiseClean® WUC Ultrasonic Cleaners

Analog Control Stainless Steel
1,2-/1,8- Lit. : 65 °C Fixed, 28 kHz
3,3-/6-/10-/22- Lit. : Ambient to 85 °C,
40kHz



WUC-D22H

Digital Control Stainless Steel
6-/10-/22- Lit. Ambient to 80 °C
Up to 40 kHz

Ultra-Low Temp. Freezers

WiseCryo® WUF-D, -95 °C Digital Ultra-Low Temperature Freezer

308-/393-/503-/683- Lit.
-86 °C (WUF-D700)/-95 °C ~ -65 °C
Upright type
Dual Simplified Hi-Efficiency
Freezing System
Non-CFC Refrigerant used
Filter-free Mechanism
& Block Condenser
Auto Vacuum Releasing System
TFT-LCD Touch Screen
Controller

WUF-D500

WiseCryo® WUF, -86 °C Digital Ultra-Low Temperature Freezer

308-/393-/503- Lit.
-86 °C ~ -65 °C
Upright type
Simplified Hi-Efficiency
Freezing System
Non-CFC Refrigerant used
Filter-free Mechanism
& Block Condenser
Auto Vacuum Releasing
System
TFT-LCD Touch Screen
Controller

WUF-500

WiseCryo® WUF, -86 °C Digital Ultra-Low Temperature Freezer

136-/237-/314-/375-/438- Lit.
-86 °C ~ -65 °C
Chest type
Simplified Hi-Efficiency
Freezing System
Filter-free Mechanism
& Block Condenser

WUF-31

WiseCryo® WUF, -90 °C Personal Digital Ultra-Low Temperature Freezer

25-/82- Lit., -90 °C ~ -65 °C
Upright type
Simplified Hi-Efficiency
Freezing System
Filter-free Mechanism
& Block Condenser
TFT-LCD Touch Screen
Controller (WUF-80)

WUF-25
WUF-80