

Incubators

- High Performance Heating Mechanism
- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- Over Temperature & Over Current Protection, Sensor Error Detection
- UL / CUL Certified WIF, WIG, SWIF, SWIG, WIM and WIR models
- - Smart-type Incubator (SWIG / SWIF models)



☆ General-type Incubator (WIG / WIF model)

- > Multi-Room Incubator
 - Forced Convection Type (WIM model)
- Precise Shaking IncubatorFront Door Type (WIS-30 model)



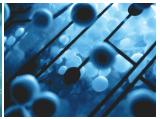




Innovative Technology to Improve the Quality of Human Life

Features of witeg Incubators





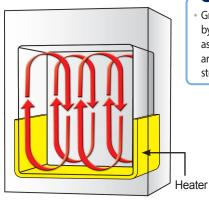
High Performance Heating Mechanism of witeg accomplishing world s best temperature accuracy and uniformity

The new types of Incubator of witeg are outfitted with high performance heating mechanism that is optimized respectively for capacity of chamber, power of heating element and air circulation type (Gravity Convection or Forced Convection).

The temperature displayed on the controller is accurately consistent with the actual temperature in the very center of the chamber or the average temperature in the entire area of the chamber, which maintains precisely within fluctuation specification. In addition, the temperature in the entire area of the chamber shows a very high stability keeping within a very slight variation specification in terms of temperature uniformity. Simultaneously, through the optimization of Fuzzy-PID controller, the heat-up time to reach the Set Temperature after operating and the recovery time to get back to the set temperature after opening and closing of the door are very short.

The newly developed high performance heating mechanism has achieved high degree of temperature accuracy and uniformity in the chamber. This is achieved by the heating elements installed on three sides - that is, the left, right and bottom parts of a chamber - which directly heat the stainless-steel chamber. This either enhances its material thermal conductivity to maximum (in case of the Incubator) or the heated air from the pre-heating zone in air-jacket type that is built in the three sides outside a chamber circulates first (in case of the Oven).

>> Incubators

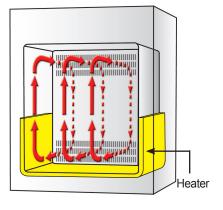


Gravity Convection

Gravity convection is to be supplemented and maximized by way of forming radiant and conductive heat on the bottom as well as both sides of the chamber, while heating elements are fitted closely to the three sides outside the chamber by the steel structure of 1.5mm in thickness.

Forced Convection

- The same heating structure as Gravity Air-Flow model.
- Installs an air-flow room with a fan built in the back side of the chamber to achieve effective forced convection.
- Achieves high temperature uniformity and minimizes mutual contamination between samples by maintaining air flow in forced convection to top.



■ High Performance Heating Mechanism

The world's best performance and quality coming true via innovative heating mechanism!!

>> Minimum

Fluctuation!

Minimization of Fluctuation in Temperature

Variation!

Minimization of spatial variation in temperature inside the chamber

Heat-up Time!

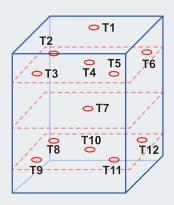
Minimization of reaching the set temperature

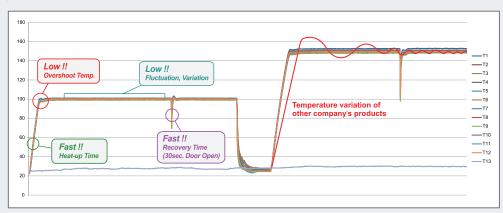
Overshoot!

Minimization of overshooting at the time of reaching the set temperature

>>> Temperature Uniformity Completely Tested by ASTM Standards

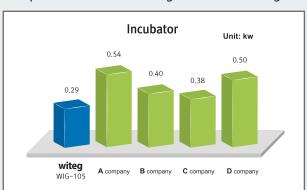
All the units supplied by witeg Scientific are thoroughly tested, using 12 temperature sensors and the latest instruments to obtain validation, which corresponds to international standards. That is, Fluctuation and Variation (Uniformity) standards described in catalogues are actually guaranteed as the same.

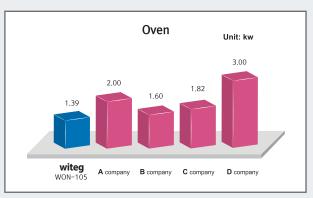




>>> Green Product

This is an environment-friendly product that achieves minimum power consumption by using heating element consuming minimum power for the capacity and temperature of the chamber, high-quality insulator and insulation structure, and complete door structure that guarantees shielding.





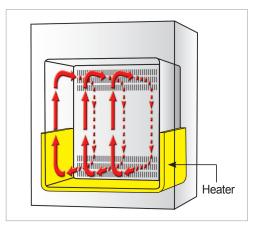


- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Joq-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.

witeg® Incubators, Forced Convection-type, "WIF", 50-/105-/155 Lit., with Certi. & Traceability With 2 X Wire Shelves, Digital Fuzzy Control, Jog-Dial with Push Button, Digital LCD with Backlight, up to 70°C, ±0.2°C



Incubator, Forced Convection-type "WIF-105"



The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Flow by Forced Convection Mechanism
- Patented Jog-Dial Control System
- UL/CUL Certified
- **CE Certified**
- PL(Product Liability) Insurance
- * Various Application: Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- * The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism : 3-Side Heating
- **★** Optimized Air Flow by Forced Convection Mechanism
- ➤ Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- **★** New Jog-Dial with Push Button
- ★ Compact New Body Design
- ★ 2 ea of PTFE-coated Steel Wire Shelves Included
- * Alarm Function: Error status and Timer-end
- ★ RS232C Interface for Monitoring and Controlling with PC
- ★ Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, 50°C
- * Storage Function of Temperature and Timer setting values
- ★ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
- * Corrosion Resistant 304 Stainless Steel Chamber
- ★ Incubator Temperature & Incubator Current Protection, Sensor Error Detection

Specification

| Interior (mm) Exterior (mm) Range Fluctuation Variation Sensor | | | 50°C | | |
|--|---|--|--|--|--|
| Range Fluctuation Variation Sensor | 200W Ambie ± 0.2 ± 0.5°C at 37°C, | 300W ent Temperature +5°C to control of the temperature +5°C to the temperature +5°C at 37°C, ± 0.3°C at ± 0.4°C | 400W o 70°C 50°C | | |
| Fluctuation Variation Sensor | Ambie ± 0.2 ± 0.5°C at 37°C, | ent Temperature +5°C to 2°C at 37°C, ± 0.3°C at ± 0.4°C | 50°C | | |
| Fluctuation Variation Sensor | ± 0.2 ± 0.5°C at 37°C, | e°C at 37°C, ± 0.3°C at ± 0.4°C | 50°C | | |
| Fluctuation Variation Sensor | ± 0.5°C at 37°C, | ± 0.4°C | | | |
| Sensor | | | at 27°C | | |
| | | | | | |
| on | | PT 100 | | | |
| | | ±0.1°C | | | |
| | 17 min. to 37 °C, 28 min. to 50°C | | to 37°C, to 50°C | | |
| Recovery Time (Door open 30sec) | | 3 min. to 37°C, 4 min. to 50°C | | | |
| | Digital Fuzzy Control by Advanced Microprocessor Jog-Dial with Push Button | | | | |
| RS232 Port | | Available to connect with PC | | | |
| Display | | Digital LCD with Back Light | | | |
| Timer | | 99hr 59 min (delay/continuous function) | | | |
| Internal | ` ' | | | | |
| External | Powder Coated Steel | | | | |
| Inner Door | Inner Tempered Glass Door | | | | |
| | | | | | |
| | 1ea of Ventilation hole | · | , Hole Diameter 40mm | | |
| | 7. | | | | |
| | Over Temp. and Over Current Protector, Sensor Error Detector | | | | |
| Others | | UL/CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) | | | |
| | 46 | 66 | 81 | | |
| x d x h) (mm) | 628 X 752 X 775 | 710 X 731 X 1,018 | 731 X 810 X 1,018 | | |
| Shipping Weight (kg) | | 74 | 92 | | |
| Power Consumption | | 302.9 W | 438.1 W | | |
| ption, at 37 C | 28 Wh | 43 Wh | 58 Wh | | |
| , at 50 C | | 129 Wh | 4.45.140 | | |
| , at 50 C | - · · · · · · | - | 145 Wh | | |
| , at 50 C | 2 | Hybrid E+F | 145 VVh | | |
| t | External Inner Door c d x h) (mm) (kg) tion otion, at 37 C | 99hr 59 internal External Inner Door Ini 2ea of PTFE 1ea of Ventilation hole Over Temp. and Ov UL/ Storac Locking Alarm 46 c d x h) (mm) 628 X 752 X 775 (kg) 58 tion 216.3 W otion, at 37 C 28 Wh | 99hr 59 min (delay/continuous Internal Stainless Steel (#304) External Powder Coated Steel Inner Door Inner Tempered Glass Do 2ea of PTFE-coated Steel Wire She 1ea of Ventilation hole with Stainless Steel Cap Forced Air Type Over Temp. and Over Current Protector, Se UL/CUL Certified, CE Certi Storage Function (Temp. and Locking Mode (Jog-Dial Input D Alarm (Error Status and Time 46 66 46 66 46 66 47 70 X 731 X 1,018 (kg) 58 74 tion 216.3 W 302.9 W otion, at 37 C 28 Wh 43 Wh | | |

^{*} Other Specifications are available upon Customer s Request.

Cat. No Description

< Continued from...Incubators, Forced Convection-type, "WIF">

Ordering Information

DH.WIF03050 Incubator, Forced Convection, 230V, 50 Lit., "WIF-50"

DH.WIF03105 , 105 Lit., "WIF-105"

DH.WIF03155 , 155 Lit., "WIF-155"

Spare Wire Shelves, PTFE Coated Steel

DH.WIG11050 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 50 Lit.,

"IGS050", w340 x d310mm

DH.WIG11105 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 105 Lit.,

"IGS105", w455 x d375mm

DH.WIG11155 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 155 Lit.,

"IGS155", w520 x d440mm

Optional Wire Shelves, Stainless Steel

DH.WON11050 Wire Shelf, Stainless Steel, with 2 Brackets, for 50 Lit.,

"ONS050", w340 x d310mm

DH.WON11105 Wire Shelf, Stainless Steel, with 2 Brackets, for 105 Lit.,

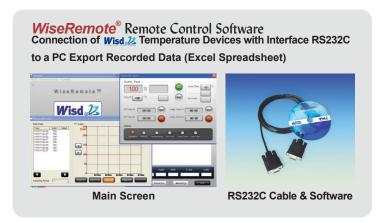
"ONS105", w455 x d375mm

DH.WON11155 Wire Shelf, Stainless Steel, with 2 Brackets, for 155 Lit. / 305Lit.,

"ONS155", w520 x d440mm

Validation (IQ, OQ) Service

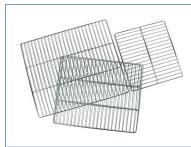
DH.WIF31050 Validation Service(IQ, OQ), "IFV050", for "WIF-50"
DH.WIF31105
DH.WIF31155 , "IFV155", for "WIF-155"





Articles

Incubator, Forced Convection-type "WIF-105"

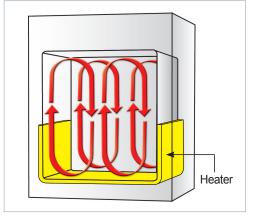


Wire Shelves, Stainless Steel (Optional)

witeg® Incubators, Gravity Convection-type, "WIG", 32-/50-/105-/155 Lit., with Certi. & Traceability With 2 X Wire Shelves, Digital Fuzzy Control, Jog-Dial with Push Button, Digital LCD with Backlight, up to 70°C, ±0.2°C



Incubator, Gravity Convection-type "WIG-105"



The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Circulation by Natural Flow preventing Cross **Contamination of Samples**
- Patented Jog-Dial Control System
- UL/CUL Certified
- **CE Certified**
- PL(Product Liability) Insurance
- * Various Application: Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- ★ The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism : 3-Side Heating
- ★ Optimized Air Circulation by Natural Flow preventing Cross Contamination of Samples
- **★** Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- **★** New Jog-Dial with Push Button
- * Compact New Body Design
- * 2 ea of PTFE-coated Steel Wire Shelves included
- * RS232C Interface for Monitoring and Controlling with PC
- ★ Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, 50°C
- * Alarm Function : Error status and Timer-end
- * Storage Function of Temperature and Timer setting values
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
- ★ Corrosion Resistant 304 Stainless Steel Chamber
- ★ Incubator Temperature & Incubator Current Protection, Sensor Error Detection

Specification

| Dimension (w x d x h) | Capacity | & Models | 32 Lit. "WIG-32" | 50 Lit. "WIG-50" | 105 Lit. "WIG-105" | 155 Lit. "WIG-155" | |
|---|-----------------------|-----------------------------|--|------------------------------------|---------------------------------------|---------------------------------------|--|
| Range | Dimension | Interior (mm) | 310 x 290 x 360 | 370 x 350 x 420 | 485 x 410 x 535 | 550 x 475 x 600 | |
| Range | (w x d x h) | Exterior (mm) | 458 x 477 x 662 | 518 x 545 x 722 | 633 x 595 x 879 | 700 x 660 x 903 | |
| Temp. Fluctuation | Heater Power | Heater Power | | 200W | 300W | 400W | |
| Variation ± 0.6°C at 37°C, ±1.0°C at 50°C | | Range | Ambient Temperature +5°C to 70°C | | | | |
| Variation ± 0.6°C at 37°C, ±1.0°C at 50°C | Tomp | Fluctuation | | ± 0.2°C at 37°C | , ±0.3°C at 50°C | | |
| Control Resolution ±0.1 °C Heat-up Time 25 min. to 37 °C , 40 min. to 50 °C 30 min. to 37 °C , 40 min. to 50 °C Recovery Time (Door open 30sec) 8 min. to 37 °C 12 min. to 50 °C 10 min. to 50 °C Controller Digital Fuzzy Control by Advanced Microprocessor Jog-Dial with Push Button RS232 Port Available to connect with PC Display Digital LCD with Back Light Timer 99hr 59 min (delay/continuous function) Material External Powder Coated Steel (#304) Material External Powder Coated Steel Wire Shelves included Ventilation 1ea of Ventilation hole with Stainless Steel Cap, Hole Diameter 40mm Circulation Gravity Convection Type Safety device Over Temp. and Over Current Protector, Sensor Error Detector Others UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 1 | remp. | Variation | | ± 0.6°C at 37°C | , ±1.0°C at 50°C | | |
| Heat-up Time | | Sensor | | PT | 100 | | |
| Recovery Time | Control Resolut | ion | | ±0. | 1°C | | |
| Controller | Heat-up Time | | | | , | · · · · · · · · · · · · · · · · · · · | |
| RS232 Port | • | ec) | | | | | |
| Display Digital LCD with Back Light Timer 99hr 59 min (delay/continuous function) Material External Powder Coated Steel (#304) Inner Door Inner Tempered Glass Door Shelves 2ea of PTFE-coated Steel Wire Shelves included Ventilation 1ea of Ventilation hole with Stainless Steel Cap, Hole Diameter 40mm Circulation Gravity Convection Type Safety device Over Temp. and Over Current Protector, Sensor Error Detector UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C , at 50 C 34 Wh 41 Wh 63 Wh 99 Wh Power plug type Hybrid E+F | Controller | | | | | rocessor | |
| Internal Stainless Steel (#304) | RS232 Port | | | Available to co | onnect with PC | | |
| Internal Stainless Steel (#304) | Display | | Digital LCD with Back Light | | | | |
| External | Timer | | 99hr 59 min (delay/continuous function) | | | | |
| Inner Door | | Internal | Stainless Steel (#304) | | | | |
| Shelves 2ea of PTFE-coated Steel Wire Shelves included Ventilation 1ea of Ventilation hole with Stainless Steel Cap, Hole Diameter 40mm Circulation Gravity Convection Type Safety device Over Temp. and Over Current Protector, Sensor Error Detector UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh Power plug type Hybrid E+F | Material | External | Powder Coated Steel | | | | |
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| Circulation Gravity Convection Type Safety device Over Temp. and Over Current Protector, Sensor Error Detector Others UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh Power plug type Hybrid E+F | Shelves | | 2ea of | PTFE-coated Ste | el Wire Shelves i | ncluded | |
| Safety device Over Temp. and Over Current Protector, Sensor Error Detector Others UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C , at 50 C 34 Wh 41 Wh 63 Wh 99 Wh Power plug type Hybrid E+F | Ventilation | | 1ea of Ventilation hole with Stainless Steel Cap, Hole Diameter 40mm | | | | |
| Others UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C , at 50 C 34 Wh 41 Wh 63 Wh 99 Wh Power plug type Hybrid E+F | Circulation | | | Gravity Con | vection Type | | |
| Others Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) Net Weight (kg) 32 40 59 71 Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | Safety device | | , | | | | |
| Packing Size (w x d x h) (mm) 568 x 592 698 628 x 652 x 775 731 x 710 x 1,018 796 x 775 x 1,083 Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | Others Storag Locking | | | Storage Function ocking Mode (Jog- | (Temp. and Time Dial Input Disable | ed) | |
| Shipping Weight (kg) 39 53 67 78 Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | | | 32 | 40 | 59 | 71 | |
| Power Consumption 159 W 169.9 W 292.9 W 420.5 kW Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | Packing Size (w | x d x h) (mm) | 568 x 592 698 | 628 x 652 x 775 | 731 x 710 x 1,018 | 796 x 775 x 1,083 | |
| Energy Consumption, at 37 C 34 Wh 41 Wh 63 Wh 99 Wh , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | | | 39 | 53 | 67 | 78 | |
| , at 50 C 81 Wh 103 Wh 152 Wh 212 Wh Power plug type Hybrid E+F | | | 159 W | 169.9 W | 292.9 W | 420.5 kW | |
| Power plug type Hybrid E+F | Energy Consum | Energy Consumption, at 37 C | | 41 Wh | 63 Wh | 99 Wh | |
| 1 0 31 | | , at 50 C | 81 Wh | 103 Wh | 152 Wh | 212 Wh | |
| Power Supply* AC 230V, 1N~, 50/60Hz | | Power plug type | | Hybrid E+F | | | |
| | Power Supply* | | | AC 230V, 1 | N~, 50/60Hz | | |

^{*} Other Specifications are available upon Customer s Request.

<Continued on next page>

Articles

Continued from...Incubators, Gravity Convection-type, "WIG" >

Ordering Information

DH.WIG03032 Incubator, Gravity / Natural Flow-type, 230V, 32 Lit., "WIG-32"

DH.WIG03050 , 50 Lit., "WIG-50"

DH.WIG03105 , 105 Lit., "WIG-105"

DH.WIG03155 , 155 Lit., "WIG-155"

Spare Wire Shelves, PTFE Coated Steel

DH.WIG11032 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 32 Lit.,

"IGS032", w280 x d260mm

DH.WIG11050 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 50 Lit.,

"IGS050", w340 x d310mm

DH.WIG11105 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 105 Lit.,

"IGS105", w455 x d375mm

DH.WIG11155 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 155 Lit.,

"IGS155", w520 x d440mm

Optional Wire Shelves, Stainless Steel

DH.WIG12032 Wire Shelf, Stainless Steel, with 2 Brackets, for 32 Lit.,

"IGSN032", w280 x d260mm

DH.WON11050 Wire Shelf, Stainless Steel, with 2 Brackets, for 50 Lit.,

"ONS050, w340 x d310mm

DH.WON11105 Wire Shelf, Stainless Steel, with 2 Brackets, for 105 Lit.,

"ONS105", w455 x d375mm

DH.WON11155 Wire Shelf, Stainless Steel, with 2 Brackets, for 155 Lit./305Lit.,

"ONS155", w520 x d440mm Validation (IQ, OQ) Service

DH.WIG31032 Validation Service(IQ, OQ), "IGV032", for "WIG-32"

DH.WIG31050 , "IGV050", for "WIG-50"
DH.WIG31105 , "IGV105", for "WIG-105"
DH.WIG31155 , "IGV155", for "WIG-155"

WiseRemote® Remote Control Software Connection of Wisd. ₹ Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



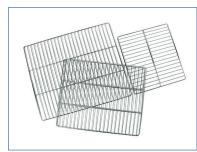
Main Screen



RS232C Cable & Software



Incubator, Gravity Convection-type "WIG-105"

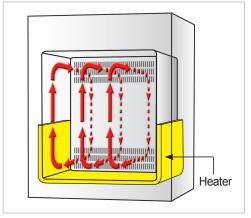


Wire Shelves, Stainless Steel (Optional)

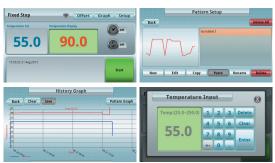
 $witeg^{\$} lncubators, Forced\ Convection-type,\ SWIF\ ,\ 50-/105-/155\ Lit., with\ Certi.\ \&\ Traceability$ with Smart-Lab[™] Controller, 4" Full Touch Screen, Fuzzy-PID Control, up to 70°C, ±0.2°C



Incubator, Forced Convection-type "SWIF-105"



The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism



Display of Smart-Lab[™] Controller

★ See page 8~13 for the Feature of Smart-Lab™ System

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Flow by Forced Convection Mechanism
- Smart-Lab[™] Controller
- UL/CUL Certified
- **CE Certified**
- PL(Product Liability) Insurance
- * Various Application: Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- * The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism: 3-Side Heating
- **★** Optimized Air Flow by Forced Convection Mechanism
- * Ergonomic Design 4" Full Touch Screen TFT LCD(Smart-Lab[™] Controller)
- **★** WiRe[™] App & Web Service.
- * Automatic Data Recording
- **★** Self-Diagnostic Function
- ★ Internet Connectivity with WiFi
- * Variable Program Setting for Multiple Patterns with Multiple Segments
- ★ The Recorded Data Could be transferred to PC by USB memory
- * Compact New Body Design * Controller SW can be upgraded through USB port.
- * 2ea of PTFE-coated Steel Wire Shelves Included
- * RS232C Interface for Monitoring and Controlling with PC
- ★ Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, 50°C
- ★ Corrosion Resistant 304 Stainless Steel Chamber
- ★ Incubator Temperature & Incubator Current Protection, Sensor Error Detection

Specification

| Capacity | & Models | 50 Lit. | 105 Lit. | 155 Lit. | | |
|--------------------------|----------------------|---|-----------------------------------|-------------------------|--|--|
| | Intoviou (man) | "SWIF-50" | "SWIF-105" | "SWIF-155" | | |
| Dimension (w x d x h) | Interior (mm) | 350 x 370 x 535 | 410 x 485 x 535 | 475 x 500 x 600 | | |
| Heater Power | Exterior (mm) | 518 x 637 x 699 | 635 x 695 x 841 | 700 x 760 x 903 400W | | |
| neater Power | D | | | | | |
| | Range Fluctuation | Ambient Temperature +5°C to 70°C | | | | |
| Taman | Fluctuation | ± 0.2°C at 37°C, ±0.3°C at 50°C | | | | |
| Temp. | Variation | ±0.5°C at 37°C, ± 0.9°C at 50°C | | | | |
| | Sensor | PT 100 | | | | |
| Control Resolut | tion | | ±0.1°C | | | |
| Heat-up Time | | 17 min. to 37°C, 28 min. to 50°C | | to 37°C, to 50°C | | |
| Recovery Time(D | oor open 30sec) | 3 n | nin. to 37°C, 4 min. to 5 | 50°C | | |
| Controller | | | Smart-Lab [™] Controller | | | |
| RS232 Port | | Available to connect with PC | | | | |
| Display | | 4" Full Touch Screen TFT LCD | | | | |
| Timer | | 99hr 59 min (delay/continuous function) | | | | |
| Internal | | Stainless Steel (#304) | | | | |
| Material | External | Powder Coated Steel | | | | |
| | Inner Door | Inner Tempered Glass Door | | | | |
| Shelves | | 2ea of PTFE | -coated Steel Wire She | elves included | | |
| Ventilation | | 1ea of Ventilation hole | with Stainless Steel Cap | , Hole Diameter 40mm | | |
| Circulation | | | Forced Air Type | | | |
| Safety device | | Over Temp. and Ov | er Current Protector, So | ensor Error Detector | | |
| Others | | UL/CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) | | | | |
| Net Weight (kg) | | 46 | 66 | 81 | | |
| Packing Size (w | x d x h) (mm) | 628 x 752 x 775 | 710 x 731 x 1,018 | 731 x 810 x 1,018 | | |
| Shipping Weigh | nt (kg) | 58 | 74 | 92 | | |
| Power Consum | ption | 216.3 W | 302.9 W | 438.1 W | | |
| Energy Consun | nption, at 37 C | 28 Wh | 43 Wh | 58 Wh | | |
| | , at 50 C | 84 Wh | 129 Wh | 145 Wh | | |
| Power plug type | 9 | Hybrid E+F | | | | |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | | | | |
| | | | | | | |

^{*} Other Specifications are available upon Customer s Request.

<Continued on next page>

Cat. No Description

Articles

< Continued from... Incubators, Forced Convection-type, "SWIF">

Ordering Information

DH.SWIF03050 Incubator, Forced Convection, 230V, 50 Lit., "SWIF-50"

DH.SWIF03105 , 105 Lit., "SWIF-105"

DH.SWIF03155 , 155 Lit., "SWIF-155"

Spare Wire Shelves, PTFE Coated Steel

DH.WIG11050 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 50 Lit.,

"IGS050", w340 x d310mm

DH.WIG11105 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 105 Lit.,

"IGS105", w455 x d375mm

DH.WIG11155 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 155 Lit.,

"IGS155", w520 x d440mm

Optional Wire Shelves, Stainless Steel

DH.WON11050 Wire Shelf, Stainless Steel, with 2 Brackets, for 50 Lit.,

"ONS050", w340 x d310mm

DH.WON11105 Wire Shelf, Stainless Steel, with 2 Brackets, for 105 Lit.,

"ONS105", w455 x d375mm

DH.WON11155 Wire Shelf, Stainless Steel, with 2 Brackets, for 155 Lit./305Lit.,

"ONS155", w520 x d440mm

Validation (IQ, OQ) Service

 DH.SWIF31050
 Validation Service(IQ, OQ), "SIFV050", for SWIF-50

 DH.SWIF31105
 , "SIFV105", for SWIF-105

 DH.SWIF31155
 , "SIFV155", for SWIF-155

>>> witeg WiRe[™] App & Web Service



4" Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet and web without restraint of time and place.



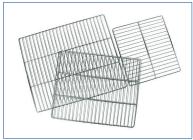
 $\mathsf{WiRe}^\mathsf{TM}\,\mathsf{App}\;\&\;\mathsf{Web}\;\mathsf{Service}$



Incubator, Forced Convection-type "SWIF-105"



Wire Shelves, PTFE Coated Steel (Included)

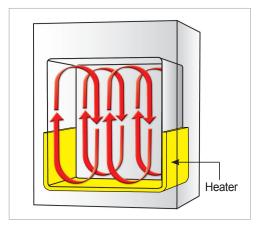


(1) Wire Shelves, Stainless Steel (Optional)

witeg® Incubators, Gravity Convection-type, SWIG , 32-/50-/105-/155 Lit., with Certi. & Traceability with Smart-Lab Controller, 4" Full Touch Screen, Fuzzy-PID Control, up to 70° C, $\pm 0.2^{\circ}$ C



Incubator, Forced Convection-type "SWIG-105"



The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism



Display of Smart-Lab[™] Controller

See page 8~13 for the Feature of Smart-Lab[™] System

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optimized Air Circulation by Natural Flow preventing **Cross Contamination of Samples**
- Smart-Lab[™] Controller
- UL/CUL Certified
- **CE Certified**
- PL(Product Liability) Insurance
- * Various Application: Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
- ★ The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism: 3-Side Heating
- * Optimized Air Circulation by Natural Flow preventing Cross Contamination of Samples
- ★ Ergonomic Design 4" Full Touch Screen TFT LCD(Smart-Lab[™] Controller)
- **★** WiRe[™]App & Web Service.
- * Automatic Data Recording
- **★** Self-Diagnostic Function
- ★ 2ea of PTFE-coated Steel Wire Shelves Included
- * Variable Program Setting for Multiple Patterns with Multiple Segments
- * The Recorded Data could be transferred to PC by USB memory
- * Controller SW can be upgraded through USB port.
- ★ Internet Connectivity with WiFi
- * Compact New Body Design
- * RS232C Interface for Monitoring and Controlling with PC
- ★ Ambient to 70°C of Temp. Range, Fluctuation of ±0.2°C at 37°C, 50°C
- * Corrosion Resistant 304 Stainless Steel Chamber
- **★** Over Temperature & Over Current Protection, Sensor Error Detection

Specification

| Capacity | Capacity & Models | | 50 Lit. SWIG-50 | 105 Lit. SWIG-105 | 155 Lit. SWIG-155 | |
|--------------------------|-----------------------------|---|------------------------------------|------------------------------------|----------------------|--|
| B: . | Intoviou (mana) | SWIG-32 | | | | |
| Dimension (w x d x h) | Interior (mm) | 310 x 290 x 360 458 x 477 x 662 | 370 x 350 x 420 518 x 545 x 722 | 485 x 410 x 535 633 x 595 x 879 | 550 x 475 x 600 | |
| , | Exterior (mm) | | | | 700 x 660 x 903 | |
| Heater Power | _ | 150W | 200W | 300W | 400W | |
| | Range | , | Ambient Tempera | | 3 | |
| Temp. | Fluctuation | | | , ±0.3°C at 50°C | | |
| | Variation | | | ± 1.0°C at 50°C | | |
| | Sensor | | | 100 | | |
| Control Resolut | ion | | ±0. | 1°C | | |
| Heat-up Time | | | 25 min. to 37°C | , | 30 min. to 37°C, | |
| • | | | 40 min. to 50°C | | 40 min. to 50 °C | |
| Recovery Time | | | to 37°C | | to 37°C | |
| (Door open 30s | ec) | 12 min. | to 50°C | _ | to 50°C | |
| Controller | | | | [™] Controller | | |
| RS232 Port | | | | onnect with PC | | |
| Display | | 4" Full Touch Screen TFT LCD | | | | |
| Timer | | 99hr 59 min (delay/continuous function) | | | | |
| | Internal | | Stainless Steel (#304) | | | |
| Material | External | Powder Coated Steel | | | | |
| | Inner Door | Inner Tempered Glass Door | | | | |
| Shelves | | 2ea of PTFE-coated Steel Wire Shelves included 1ea of Ventilation hole with Stainless Steel Cap, Hole Diameter 40mm | | | | |
| Ventilation | | 1ea of Ventilation | | | Diameter 40mm | |
| Circulation | | Gravity Convection Type Over Temp. and Over Current Protector, Sensor Error Detector | | | | |
| Safety device | | Over Temp. a | nd Over Current F | Protector, Sensor | Error Detector | |
| Others | | UL / CUL Certified, CE Certified Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end) | | | ed) | |
| Net Weight (kg) | | 32 | 40 | 59 | 71 | |
| Packing Size (w | x d x h) (mm) | 568 x 592 x 698 | 628 x 652 x 775 | 731 x 710 x 1,018 | 796 x 775 x 1,083 | |
| Shipping Weigh | t (kg) | 39 | 53 | 67 | 78 | |
| Power Consumption | | 159 W | 169.9 W | 292.9 W | 420.5 kW | |
| Energy Consum | Energy Consumption, at 37 C | | 41 Wh | 63 Wh | 99 Wh | |
| | , at 50 C | 81 Wh | 103 Wh | 152 Wh | 212 Wh | |
| Power plug type | Power plug type | | Hybrid E+F | | | |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | | | | |
| | | | | | | |

^{*} Other Specifications are available upon Customer s Request.

Cat. No Description

Articles

< Continued from... Incubators, Gravity Convection-type, "SWIG">

Ordering Information

DH.SWIG03032 Incubator, Gravity / Natural Flow-type, 230V, 32 Lit., "SWIG-32"
DH.SWIG03050 , 50 Lit., "SWIG-50"
DH.SWIG03105 , 105 Lit., "SWIG-105"
DH.SWIG03155 , 155 Lit., "SWIG-155"

Spare Wire Shelves, PTFE Coated Steel

DH.WIG11032 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 32 Lit.,

"IGS032", w280 x d260mm

DH.WIG11050 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 50 Lit.,

"IGS050", w340 x d310mm

DH.WIG11105 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 105 Lit.,

"IGS105", w455 x d375mm

DH.WIG11155 Wire Shelf, PTFE Coated Steel, with 2 Brackets, for 155 Lit.,

"IGS155", w520 x d440mm

Optional Wire Shelves, Stainless Steel

DH.WIG12032 Wire Shelf, Stainless Steel, with 2 Brackets, for 32 Lit.,

"IGSN032", w280 x d260mm

DH.WON11050 Wire Shelf, Stainless Steel, with 2 Brackets, for 50 Lit.,

"ONS050", w340 x d310mm

DH.WON11105 Wire Shelf, Stainless Steel, with 2 Brackets, for 105 Lit.,

"ONS105", w455 x d375mm

DH.WON11155 Wire Shelf, Stainless Steel, with 2 Brackets, for 155 Lit./305Lit.,

"ONS155", w520 x d440mm Validation (IQ, OQ) Service

 $\begin{array}{ll} \textbf{DH.SWIG31032} & \text{Validation Service(IQ, OQ), "SIGV032", for "SWIG-32"} \\ \textbf{DH.SWIG31050} & , \text{"SIGV050", for "SWIG-50"} \\ \end{array}$

DH.SWIG31105 , "SIGV105", for "SWIG-105" DH.SWIG31155 , "SIGV155", for "SWIG-155"

>>> witeg WiRe[™] App & Web Service



4" Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet and web without restraint of time and place.



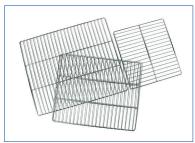
WiRe[™] App & Web Service



Incubator, Gravity Convection-type "SWIG-105"



Wire Shelves, PTFE Coated Steel (Included)



(1) Wire Shelves, Stainless Steel (Optional)

Description

witeg[®] Multi-Room Incubator, WIM, Forced Convection-type, 125 Lit. x 4 Rooms, with Certi. & Traceability with 8 X Wire Shelves, Digital Fuzzy Control, Independent Chamber Control, Max. Temp. Uniformity & Accuracy, up to 60-/70-°C



Multi-Room Incubator, Forced Convection Type "WIM-R4"

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- 4 x 125Lit Rooms : Each Chamber has an Independent Fuzzy Controller for Different Temperature and Time Control
- Patented Jog-Shuttle Control System
- UL/CUL Certified
- **CE Certified**
- PL(Product Liability) Insurance
- ★ Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature and Germination
- **★** Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- ★ High-Quality LCD with Back-Light Function
- ★ Forced Convection Air Flow by Silent Fan Motor Implements the Highest Uniformity of Temperature in Each Chamber
- ★ Stainless Steel Chamber and PTFE-Coated Shelves (2ea for Each Chamber) -Corrosion Resistance
- ★ Inner Tempered Glass Door Enables an User to Observe the Samples without Interruption of Incubation
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- ★ Storage Function for Set Values of Temperature and Time
- ★ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specification

| Model | | Ambient +5°C ~ 70°C "WIM-4" | 0°C to 60°C "WIM-R4" | 0°C to 60°C with illumination "WIM-RL4" |
|------------------------------------|--|---|------------------------------------|---|
| Circulation | | Forced Convection-Blower FAN | | |
| Capacity | | | 125 Lit. x 4 Rooms | |
| Illumination | | No | ne | FRL 55W x 2 (x 4 Rooms) |
| | Range | Ambient +5°C ~ 70°C | 0°C to | 0 60°C |
| | Accuracy | ±0.2°C at 37°C | | |
| Temp. | Uniformity | ±0,3°C at 37°C, ±0,7°C at 50°C | ± 0.5°C at 37°C | |
| | Sensor | | PT100 | |
| Heat-up Time | Heat-up Time 15 min. to 37°C 20 min. to 37°C 30 min. to 50°C 30 min. to 50°C 30 min. to 50°C | | | |
| Recovery Time (Door open 30sec) | | 8 min. to 37°C 10 min. to 50°C | 10 min. to 50°C 12 min. to 50°C | |
| Heating Power/Consumption | | 500 W x 4ea | 650 W x 4ea | |
| Compressor | | none | ione 1/4 HP (x 4 Rooms) | |
| Timer & Alarm | | 99hr 59min (with delay / Continuous run.), Error status & Timer-end | | |
| Display | | Digital I | _CD with Back-Light F | unction |
| Controller | | Digital Fuzzy Contr | oller with Jog-Shuttle S | witch (Turn & Push) |
| Inner Door | | with 4ea | of Inner Tempered Gla | ass Door |
| Shelves | | Included 8ea of PTF | E Coated Steel Shelves | (2ea x 4 Chambers) |
| Permitted Total | Load | Total Load 128 kg (16kg x 8 Shelves) | | |
| Safety Circuit | | Over Temp. and Over Current Protector, Sensor Error Detector | | |
| Material | | Internal : Stainless St | eel (#304), External : | Powder Coated Steel |
| | terior (mm) | 500 x 500 x h500 mm (x 4 Rooms) | | |
| (w x d x h) Exterior (mm) | | 1, | 655 x 845 x h1,710 m | m |
| Net Weight | | 343kg | 35 | Okg |
| Packing Size (w x d x h) (mm) | | | 1,900 x 1,050 x 1,950 | |
| Gross Weight | | 441 kg | |) kg |
| Power Consumption | | 2.6 kW | 4.5 kW | 4.8 kW |
| Power plug typ | е | Hybrid E+F | 5 pole 1 | 6A CEE |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | AC 400V, 3N | N~,50 / 60Hz |

^{*} Other Specifications are available upon Customer s Request.

Articles

< Continued from... Multi-Room Incubator, "WIM">

Ordering Information

"WIM-4" with 125 Lit. x 4 Rooms, Ambient +5°C~70°C

DH.WIM04125 Multi-Room Incubator, 230V, "WIM-4" "WIM-R4" with 125 Lit. x 4 Rooms, $0\sim60^{\circ}$ C

DH.WIM16125 Multi-Room Incubator, 400V, 3N~, "WIM-R4"

"WIM-RL4" with 125 Lit. x 4 Rooms & Illumination, 0~60°C

DH.WIM26125 Multi-Room Incubator, 400V, 3N~, "WIM-RL4"

Spare Wire Shelves

DH.WIM34125 Wire Shelf, PTFE Coated Steel, with 2 Brackets, IMS125

w470 x d480mm, for "WIM" 4-Room Incubators

Optional Wire Shelves

DH.WIM34126 (1) Wire Shelf, Stainless Steel, with 2 Brackets, IMS126,

w470 x d480mm, for "WIM" 4-Room Incubators

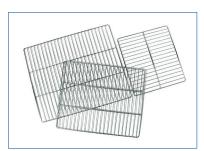
Validation (IQ, OQ) Service

DH.WIM54125 Validation Service(IQ, OQ), "IMV525", for "WIM-4"
DH.WIM64125 , "IMV625", for "WIM-R4"
DH.WIM74125 , "IMV725", for "WIM-RL4"





Wire Shelves, PTFE Coated Steel (Included)



(1) Wire Shelves, Stainless Steel (Optional)

WiseRemote[®] Remote Control Software

Connection of Wisd. Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)





Main Screen

RS232C Cable & Software

witeg® Low Temperature (B.O.D) Incubators, "WIR", 150-/250-/420-/700- Lit., with Certi. & Traceability with 3 X Wire Shelves, Digital Fuzzy Control, CFC-free Refrigeration(404A) System, Forced Convection, 0~60°C, ±0.2°C



Low Temperature(B.O.D) Incubator "WIR-150"

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Intelligent Control of Refrigerator for Preventing Overload of Compressor
- CFC-free (404A) Refrigeration System
- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- Patented Jog-Shuttle Control System
- UL/CUL Certified
- CE Certified
- PL(Product Liability) Insurance
- * Variable Application : Animal & Plant Cell Culture, Constant Temperature, Germination Test, BOD Test, and so on
- ★ RS232C Interface for Monitoring and Controlling with PC
- **★** Superior Temperature Uniformity by Forced Convection
- * Stainless Steel Chamber and PTFE-Coated Shelves Corrosion Resistance
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- **★** Storage Function : Alarm & Timer * Back-Light LCD
- * Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- **★** CFC-free (404A) Refrigeration System.

Specification

| Capacity & Models | | 150 Lit. "WIR-150" | 250 Lit. "WIR-250" | 420 Lit. "WIR-420" | 700 Lit. "WIR-700" |
|------------------------------------|-------------------------------------|--|-----------------------|-----------------------|-----------------------|
| Circulation-ty | уре | Forced Air-type | | | |
| Temp. Range | & Accuracy | 0 °C ~ 60 °C, ±0.2°C at 37°C | | | |
| Temp. Unifor | mity & Sensor | ±0.5°C | c at 37°C, ±1.4°C | at 50°C, PT100 | Sensor |
| Heat-up Time | 3 | 1 | to 37°C | | to 37°C |
| | | - | to 50°C | | to 50°C |
| Recovery Ti | | | to 37°C | | to 37°C |
| (Door open | | | to 50°C | | to 50°C |
| Heating Pow | er/Consumption | 700 W | 1 kW | 1.2 kW | 2 kW |
| Compressor | | 1/4 HP | 1/3 HP | 5/8 HP | 3/4HP |
| Compressor | Control | Intelligent Control of Refrigerator for preventing Overload of Compres | | | |
| Refrigerant CFC-Free(404A) Refrige | | | efrigeration Syste | em | |
| Timer & Alar | m | 99hr 59min (with delay / Continuous run.), Error status & Timer-end | | | |
| Display | Display Digital LCD with Back Light | | | | |
| Controller | | Digital Fuzzy Controller with Jog-Shuttle Switch (Turn & Push) | | | |
| Inner Door | | wi | th 1ea of Inner Te | mpered Glass Do | oor |
| Shelves | | Inclu | ided 3ea of PTFE | -coated Steel Sh | elves |
| Permitted To | tal Load | To | otal Load : 48 kg | (16kg x 3 Shelve | es) |
| Safety Circui | t | Over Temp. a | nd Over Current F | Protector, Sensor | Error Detector |
| Material | | Internal : Stainle | ess Steel (#304), | External : Power | der Coated Steel |
| Dimension | Interior (mm) | 505 x 505 x 610 | 505 x 505 x 1,000 | 705 x 605 x 1,000 | 800 x 700 x 1,250 |
| (w x d x h) | Exterior (mm) | 640 x 832 x 1,313 | 640 x 832 x 1,703 | 840 x 932 x 1,753 | 935 x 1,027 x 2,000 |
| Net Weight | | 118 kg | 157 kg | 202 kg | 234 kg |
| Packing Size (w x d x h) (mm) | | 900 x 1,000 x 1,650 | 900 x 1,000 x 2,040 | | 1,220 x 1,220 x 2,260 |
| & Gross Weight | | 191 kg | 217 kg | 277 kg | 313 kg |
| Power Consumption | | 1.6 kW | 1.8 kW | 2.3 kW | 2.4 kW |
| Power plug type Hybrid E+F | | | | | |
| Power Suppl | y [*] | | AC 230V, 1 | N~, 50/60Hz | |

^{*} Other Specifications are available upon Customer s Request.

Ordering Information

| DH.WIR01150 | Low Temperature(B.O.D) Incubator, 230V, 150 Lit., "WIR-150" |
|-------------|---|
| DH.WIR01250 | , 250 Lit., " WIR-250 " |
| DH.WIR01420 | , 420 Lit., " WIR-420 " |
| DH.WIR01700 | , 700 Lit., "WIR-700" |

Cat. No Description

Articles

Continued from... Low Temperature (B.O.D) Incubators, "WIR">

Spare Wire Shelves, PTFE Coated Steel

 DH.WIR1150
 Wire Shelf, PTFE Coated Steel, "IRS150", w470 x d480mm, for "WIR-150", "WIR-250"

 DH.WIR11420
 , "IRS420", w675 x d585mm, for "WIR-420"

 DH.WIR11700
 , "IRS700", w770 x d680mm, for "WIR-700"

Optional Wire Shelves, Stainless Steel

DH.WIR21150 (1) Wire Shelf, Stainless Steel, "IRU150", w470 x d480mm, for "WIR-150", "WIR-250"

DH.WIR21420 "IRU420", w675 x d585mm, for "**WIR-420" DH.WIR21700**"IRU700", w770 x d680mm, for "**WIR-700"**

Validation (IQ, OQ) Service

DH.WIR31150 Validation Service(IQ, OQ), "IRV150", for "WIR-150"
DH.WIR31250 , "IRV250", for "WIR-250"
DH.WIR31420 , "IRV420", for "WIR-420"
DH.WIR31700 , "IRV700", for "WIR-700"

WiseRemote® Remote Control Software

Connection of Wisd 2 Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)





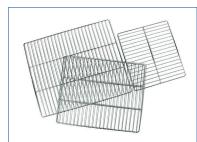
RS232C Cable & Software



Low Temperature(B.O.D) Incubator "WIR-150"



Wire Shelves, PTFE Coated Steel (Included)



(1) Wire Shelves, Stainless Steel (Optional)

Description

witeg® Precise Shaking Incubator, "WIS-30", Front Door-type, Orbital Motion, up to 60°C with Universal Platform, Digital Fuzzy Control, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm



Precise Shaking Incubator, Front Door Type "WIS-30" with Universal Platform

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance
- ★ Useful for Biological Cultures under various Temperature
- ★ Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- **★** Digital Timer Function: 99 hours 59 minutes
- ★ Front Door and Sliding Platform Provides Easy Loading and Handling of Samples
- * Digital LCD with Back-Light Function
- * Stabilized Orbital Motion
- * RS232C Interface for Monitoring and Controlling with PC.
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Minimum Noise and No Vibration.
- * Accommodate Flasks up to 1,000ml
- ★ Universal Spring Rack for Various Shapes/Size of Flasks (Optional)
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- * Over Temperature & Over Current Protection and Leakage Breaking.

Specification

| Temp. Range & Model | | Ambient +5°C ~ 60°C "WIS-30" | 10°C ~ 60°C "WIS-30R" | |
|----------------------|-----------------|--|---|--|
| Temp. Accuracy | y & Uniformity | Accuracy: ±0.2°C at 37°C, | Uniformity: ±0.5°C at 37°C | |
| Temp. Sensor | | PT100 | Sensor | |
| Heater | | 600 W | 800 W | |
| Compressor | | None | 1/4 HP | |
| Compressor Co | ontrol | None | Intelligent Control of Refrigerator for preventing Overload of Compressor | |
| Refrigerant | | None | CFC-Free(134A) Refrigeration System | |
| Shaking Speed | & Stroke | 30 ~ 250 rpm, 25 | mm Orbital Motion | |
| Timer & Alarm | | 99hr 59min (with Continuous r | un.), Error status & Timer-end | |
| Display | | Digital LCD with Back-Light Function | | |
| Controller | | Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push) | | |
| Platform | | Included Universal Platform for Various Shapes & Sizes of Flasks | | |
| Optional Flask | Holder | Durable & Flexible Plastic Flask Holder (up to 1000ml) | | |
| Available Max. | for 50~100ml | Available 35 ea Flask Holder "FH100", for 50~100ml Flask | | |
| Capacity of | for 200~300ml | Available 16 ea Flask Holder "I | FH250", for 200~300ml Flask | |
| Flask Holder | for 500~1,000ml | Available 12 ea Flask Holder "I | FH500", for 500~1,000ml Flask | |
| Safety Circuit | | Over Temp./ Current Pro | tector, Leakage Breaker | |
| Material | | Internal: Stainless Steel (#304), | External : Powder Coated Steel | |
| Dimension | | Internal: 570 x 465 x h470mm, | External: 916 x 730 x h683mm | |
| Packing Size (v | v x d x h) (mm) | 1,050 x 900 | x h900mm | |
| & Gross Weigh | t | 146 kg | 156 kg | |
| Power Consum | ption | 600 W | 1.3 kW | |
| Power plug type | е | Hybri | d E+F | |
| Power Supply* | | AC 230V, 1I | N~, 50/60Hz | |
| | | | | |

^{*} Other Specifications are available upon Customer s Request.

Ordering Information

Ambient $+5^{\circ}\text{C} \sim +60^{\circ}\text{C}$, with Universal Platform, "WIS-30"

DH.WIS03010 Front Door-type Shaking Incubator, 230V, "WIS-30"

+10°C~+60°C, with Universal Platform, "WIS-30R"

Front Door-type Shaking Incubator, 230V, "WIS-30R"

Description

Articles

< Continued from... Precise Shaking Incubator, "WIS-30">

Optional Platform/Spring Rack/Flask Holders

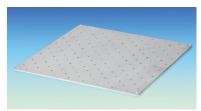
DH.WIS504630 (1) Universal Platform, w485 x h405mm, "SP630", for WIS-30(R) DH.WIS504530 (2) Universal Spring Rack w498 x d408 x h135mm, "SR530", for WIS-30(R) DH.WIS504030 (3) Flask Holder, for 50~100ml Flask, "FH100", for "SHO", "SHR" and "WIS" DH.WIS504035 , for 200~300ml Flask, "FH250", for "SHO", "SHR" and "WIS" , for 500~1000ml Flask, "FH500", for "SHO", "SHR" and "WIS" DH.WIS504040 (5) Validation (IQ, OQ) Service

DH.WIS33010 Validation Service(IQ, OQ), "ISV3010", for "WIS-30" DH.WIS33011 , "ISV3011", for "WIS-30R"

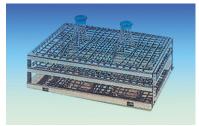
WiseRemote® Remote Control Software Connection of Wisd Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet) WiseRemote™ Wisd 2 Main Screen **RS232C Cable & Software**



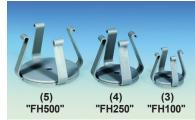
Precise Shaking Incubator, Front Door Type WIS-30 with Universal Platform



(1) Universal Platform "SP630" (Included)



(2) Universal Spring Rack "SR530" (Optional)



Flask Holders (Optional)

Description

witeg® Precise Shaking Incubator, WIS-20, BenchTop-type, Orbital Motion, up to 60°C with Universal Platform, Digital Fuzzy Control, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm



Precise Shaking Incubator, Bench Top-type "WIS-20R" with Universal Platform

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance
- ★ Useful for Biological Cultures under various Temperature
- ★ Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- **★** Digital Timer Function: 99 hours 59 minutes
- * Minimum Noise and No Vibration
- * Digital LCD with Back-Light Function
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- ★ Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
- * Accommodate Flasks up to 1,000ml
- * Stabilized Orbital Motion
- ★ RS232C Interface for Monitoring and Controlling with PC
- ★ Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specification

| Temp. Ran | ge & Model | Ambient +5°C ~ 60°C "WIS-20" | 10°C ~ 60°C "WIS-20R" | |
|-------------------------------|-----------------|---|---|--|
| Temp. Accuracy & Uniformity | | Accuracy: ±0.2°C at 37°C, Uniformity: ±0.5°C at 37°C | | |
| Temp. Sensor | | PT100 | Sensor | |
| Heater | | 500 W | 700 W | |
| Compressor | | None | 1/4 HP | |
| Compressor Co | ontrol | None | Intelligent Control of Refrigerator for preventing Overload of Compressor | |
| Refrigerant | | None | CFC-Free(134A) Refrigeration System | |
| Shaking Speed | & Stroke | 30 ~ 250 rpm, 25 | imm Orbital Motion | |
| Timer & Alarm | | 99hr 59min (with Continuous r | un.), Error status & Timer-end | |
| Display | | Digital LCD with Back-Light Function | | |
| Controller | | Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push) | | |
| Room Lamp | | 60W Krypton Lamp | | |
| Platform | | Included Universal Platform for Various Shapes & Sizes of Flasks | | |
| Optional Flask | Holder | Durable & Flexible Plastic Flask Holder (up to 1000ml) | | |
| Available Max. | for 50~100ml | Available 32 ea Flask Holder FH100 , for 50~100ml Flask | | |
| Capacity of | for 200~300ml | Available 20 ea Flask Holder FH250 , for 200~300ml Flask | | |
| Flask Holder | for 500~1,000ml | Available 16 ea Flask Holder FH500 , for 500~1,000ml Flask | | |
| Safety Circuit | | Over Temp./ Current Protector, Leal | kage Breaker, Sensor Error Detector | |
| Material | | Internal : Stainless Steel (#304), | External : Powder Coated Steel | |
| Dimension | | Internal: 530 x 530 x h350mm, External: 575 x 855 x h850mm | | |
| Packing Size (w x d x h) (mm) | | 1,000 x 800 | x h1,100mm | |
| & Gross Weight | | 147 kg | 150 kg | |
| Power Consum | ption | 500 W | 1.2 kW | |
| Power plug type | | Hybrid E+F | | |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | | |

^{*} Other Specifications are available upon Customer s Request.

Ordering Information

Ambient $+5^{\circ}\text{C} \sim +60^{\circ}\text{C}$, with Universal Platform, "WIS-20"

Bench Top-type Shaking Incubator, 230V, "WIS-20"

 $+10^{\circ}\text{C} \sim +60^{\circ}\text{C}$, with Universal Platform, "WIS-20R"

DH.WIS02011 Bench Top-type Shaking Incubator, 230V, "WIS-20R"

Articles

<Continued from... Precise Shaking Incubator, "WIS-20">

Optional Platform/Spring Rack/Flask Holders

DH.WIS504600 (1) Universal Platform, w478 x h478mm, "SP600", for "WIS-20(R)" DH.WIS504500 (2) Universal Spring Rack w483 x d483 x h135mm, "SR500", for "WIS-20(R)" (3) Flask Holder, for 50~100ml Flask, "FH100", for "SHO", "SHR" and "WIS" DH.WIS504030 , for 200~300ml Flask, "FH250", for "SHO", "SHR" and "WIS" DH.WIS504035 DH.WIS504040 , for 500~1000ml Flask, "FH500", for "SHO", "SHR" and "WIS"

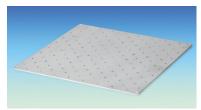
Validation (IQ, OQ) Service

DH.WIS32010 Validation Service(IQ, OQ), "ISV2010", for "WIS-20" DH.WIS32011 , "ISV2011", for "WIS-20R"

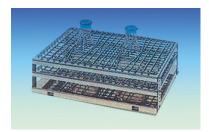
WiseRemote® Remote Control Software Connection of Wisd. Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet) WiseRemote™ Wisd 2 Main Screen RS232C Cable & Software



Precise Shaking Incubator, Bench Top-type WIS-20R with Universal Platform



(1) Universal Platform SP600 (Included)



(2) Universal Spring Rack SR500 (Optional)



Flask Holders (Optional)

Description

witeg® Precise Shaking Incubator, "WIS-10", Top Door-type, Orbital Motion, with Certi. & Traceability with Universal Platform, Digital Fuzzy Control, with or without illuminators & Recorder, up to 60°C, 30~250 rpm



Precise Shaking Incubator, Top Door Type "WIS-10R" with Universal Platform

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance
- ★ Precise Temperature Control by Digital Fuzzy Controller, up to 60°C
- * Digital LCD with Back-Light Function
- * Minimum Noise and No Vibration
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
- * Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
- ★ Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)
- * RS232C Interface for Monitoring and Controlling with PC

Specification

| Mo | del | "WIS-10 | "WIS-10R" | "WIS-10RL" | |
|-------------------------------|-----------------|---|---|--------------------------|--|
| Illumination Sys | | None | | FPL 55W x 4ea | |
| | Sterri | Ambient +5°C ~ 60°C 10°C ~ 60°C | | | |
| | Temp. Range | | | | |
| Temp. Accuracy | y & Uniformity | Accuracy: ±0.2° | | : ±0.5°C at 37°C | |
| Temp. Sensor | | | PT100 Sensor | | |
| Heater | | 800 W | 1 kW | 1.2 kW | |
| Compressor | | None | 1/3 | HP | |
| Compressor Co | ontrol | None | None Intelligent Control of Refrigerator for prever Overload of Compressor | | |
| Refrigerant | | CFC-Fre | e (R134A) Refrigeration | n System | |
| Shaking Speed | & Stroke | 30 ~ 2 | 50 rpm, 25mm Orbital | Motion | |
| Timer & Alarm | | 99hr 59min (with 0 | Continuous run.), Error | status & Timer-end | |
| Display | | Digital LCD with Back-Light Function | | | |
| Controller | Controller | | Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push) | | |
| Room Lamp | | Krypton Lamp, 60W None | | | |
| Platform | | Included Universal Platform for Various Shapes & Sizes of Flasks | | | |
| Optional Flask | Holder | Durable & Flexible Plastic Flask Holder (up to 1000ml) | | | |
| Available Max. | for 50~100ml | Available 68 ea Fla | sk Holder FH100, for | 50~100ml Flask | |
| Capacity of | for 200~300ml | Available 36 ea Flask Holder FH250, for 200~300ml Flask | | | |
| Flask Holder | for 500~1,000ml | Available 21 ea Flask Holder FH500 , for 500~1,000ml Flask | | | |
| Safety Circuit | | Over Temp./ Current Pr | otector, Leakage Breake | r, Sensor Error Detector | |
| Material | | Internal : Stainless Steel (#304), External : Powder Coated Steel | | | |
| Dimension | | Internal: 750 x 720 x h400mm, External: 1,065 x 900 x h980mm | | | |
| Packing Size (w x d x h) (mm) | | 1,: | 220 x 1,060 x h1,200n | nm | |
| & Gross Weight | | 231 kg | 238 kg | 238 kg | |
| Power Consumption | | 800 W | 1.8 kW | 2.1 kW | |
| Power plug type Hybrid E+F | | | | | |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | | | |
| | | | | | |

^{*} Other Specifications are available upon Customer s Request.

Ordering Information

Ambient +5°C~60°C, With Universal Platform

DH.WIS01010 Shaking Incubator, Top Door-type, 230V, "WIS-10"

10°C~60°C, With Universal Platform

DH.WIS01011 Shaking Incubator, Top Door-type, 230V, "WIS-10R"

10°C~60°C, with Universal Platform & Illumination System

DH.WIS01012 Shaking Incubator, Top Door-type, 230V, "WIS-10RL"

Articles

<Continued from... Precise Shaking Incubator, "WIS-10">

Optional Platform/Spring Rack/Flask Holders

| DH.WIS504510 | (1) Universal Spring Rack, w693 x d653 x h135mm, "SR510", for "WIS-10(R/RL)" |
|--------------|--|
| DH.WIS504610 | (2) Universal Platform, w688 x h648mm, "SP610", for "WIS-10(R/RL)" |
| DH.WIS504030 | (3) Flask Holder, for 50~100ml Flask, "FH100", for "SHO", "SHR" and "WIS" |
| DH.WIS504035 | (4) , for 200~300ml Flask, "FH250", for "SHO", "SHR" and "WIS" |

DH.WIS504040 , for 500~1000ml Flask, "FH500", for "SHO", "SHR" and "WIS"

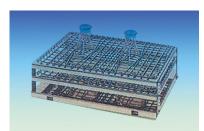
DH.WTH05100 (6) Temperature Recorder, with 6ea Ribbon Cassette & Chart Paper

LED, 6ch/10sec, 144 x 144 x h233mm, "WTH5105"

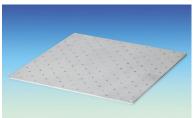
DH.WTH05108 Ribbon Cassette, 6 Colors, "WTH5108" DH.WTH05105 Chart Paper, w100mm x L10m, "WTH5105"

Validation (IQ, OQ) Service

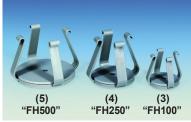
DH.WIS31010 Validation Service(IQ, OQ), "ISV1010", for "WIS-10" DH.WIS31011 , "ISV1011", for "WIS-10R" DH.WIS31012 , "ISV1012", for "WIS-10RL"



(1) Universal Spring Rack "SR510" (Optional)



(2) Universal Platform "SP610" (Included)



Flask Holders (Optional)



(6) Temperature Recorder : with 6ea Ribbon Cassette and Chart Paper

WiseRemote[®] Remote Control Software

Connection of Wisd Z Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software



Precise Shaking Incubator, Top Door Type "WIS-10R" with Universal Platform

Description

witeg® Multi-Stack Refrigerated Shaking Incubator, "WIS-ML", Orbital Motion, with Certi. & Traceability with Universal Platform, Digital Fuzzy Control, 2 or 4 Independent Shaking Speed Control, 10~60°C, 30~250 rpm, 2-/4- Stacks



Multi-Stack Refrigerated Shaking Incubator "WIS-ML04" with 4 X Universal Platform

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Excellent for Multi-use and wide range of Sample Testing under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance
- **★** Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- * Intelligent Control of Refrigerator for Preventing Overload of Compressor
- ★ High-Quality LCD with Back-Light Function Used
- * 10 ~ 60°C Range, Accuracy of ±0.1°C
- * Advanced Shaking Mechanism provides Quiet Shaking and Precise Speed Control
- * Space Saving Design for Large Quantity Samples with 2 or 4 Independent Shaking Speed Controller
- * Automatic Stop of Shaking, Heating and Refrigeration when the Door is Opened
- ★ RS232C Interface for Monitoring and Controlling with PC
- **★** Over Temperature & Over Current Protection and Sensor Error Detection
- ★ Including Universal Platform for Various Shapes and Sizes of Flasks
- ★ Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specification

| Stac | Stack & Model | | 2 Stacks "WIS-ML02" | 4 Stacks "WIS-ML04" | |
|--|---|-----------------|--|-------------------------------------|--|
| Temp. Rang | e & | Accuracy | 10°C~ 60°C, ±0.2°C at 37°C | | |
| Temp. Unifo | rmi | ty & Sensor | ±1.0°C at 37, PT100 Sensor | | |
| Heater | | | 1.5 kW | 1.8 kW | |
| Compresso | r | | 1/2 HP | 3/4 HP | |
| Compresso | r Co | ontrol | Intelligent Control of Refrigerator for | Preventing Overload of Compressor | |
| Refrigerant | | | CFC-Free(134A) Re | efrigeration System | |
| Shaking Spo | eed | & Stroke | 30 ~ 250 rpm, 25 | mm Orbital Motion | |
| Timer & Ala | rm | | 99hr 59min (with Continuous ru | un.), Error status & Timer-end | |
| Display | | | Digital LCD with Ba | ack-Light Function | |
| Controller | Controller Digital Fuzzy Controller with Jog-Shuttle Switch (Tum- | | | og-Shuttle Switch (Turn+Push) | |
| Door | Door Magnetic Packing Door with Pair Glass | | | oor with Pair Glass | |
| Plate Size | Plate Size w700 x d600mm | | | 1600mm | |
| Platform | | | Included Universal Platform for Various Shapes & Sizes of Flasks | | |
| Optional Fla | sk | Holder | Durable & Flexible Plastic Flask Holder (up to 1000ml) | | |
| Available Ma | X. | for 50~100ml | Available 68 ea Flask Holder ' | 'FH100" , for 50~100ml Flask | |
| Capacity of | | for 200~300ml | Available 36 ea Flask Holder " | FH250", for 200~300ml Flask | |
| Flask Holder | • | for 500~1000ml | Available 21 ea Flask Holder "FH500", for 500~1,000ml Flask | | |
| Safety Circu | ıit | | Over Temp./ Current Protein | ctor, Sensor Error Detector | |
| Material | | | Internal : Stainless Steel (#304), | External : Powder Coated Steel | |
| Dimension | Int | ernal (mm) | 700 x 700 x 1,100 | 700 x 700 x 1,790 | |
| (w x d x h) | Ex | ternal (mm) | 1,290 x 850 x 1,445 | 1,290 x 850 x 2,125 | |
| Packing Siz | e (v | v x d x h) (mm) | 1,500 x 1,200 x 1,750 | 1,500 x 1,200 x 2,350 | |
| & Gross We | igh | t | 397 kg | 555 kg | |
| Power Consumption 2.4 kW 3.2 kW | | | 3.2 kW | | |
| Power plug | type | 9 | Hybrid E+F | 5 pole 16A CEE | |
| Power Supp | ly* | | AC 230V, 1N~, 50/60Hz | AC 400V, 3N~, 50/60Hz | |
| * Other Specifications are available upon Customer's Request | | | | | |

^{*} Other Specifications are available upon Customer's Request.

Ordering Information

2-Stackers Refrigerated Shaking Incubator, with 2 x Universal Platform

Multi-Stack Shaking Incubator, 230V, "WIS-ML02"

4-Stackers Refrigerated Shaking Incubator, with 4 x Universal Platform

DH.WIS03004 Multi-Stack Shaking Incubator, 3Phase, "WIS-ML04"

Articles

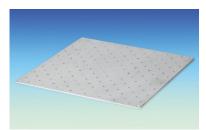
Continued from... Multi-Stack Refrigerated Shaking Incubator, "WIS-ML">

Optional Platform/Spring Rack/Flask Holders

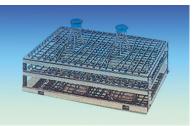
DH.WIS504620 (1) Universal Platform, w645 x h645mm, "SP620", for "WIS-ML02/04" DH.WIS504520 (2) Universal Spring Rack, w653 x d653 x h135mm, "SR520", for "WIS-ML02/04" DH.WIS504030 (3) Flask Holder, for 50~100ml Flask, "FH100", for "SHO", "SHR" and "WIS" , for 200~300ml Flask, "FH250", for "SHO", "SHR" and "WIS" DH.WIS504035 DH.WIS504040 , for 500~1000ml Flask, "FH500", for "SHO", "SHR" and "WIS"

Validation (IQ, OQ) Service

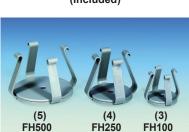
Validation Service(IQ, OQ), "ISV5002", for WIS-ML02" DH.WIS35002 DH.WIS35004 , "ISV5004", for WIS-ML04"



(1) Universal Platform SP620 (Included)



(2) Universal Spring Rack SR520 (Optional)

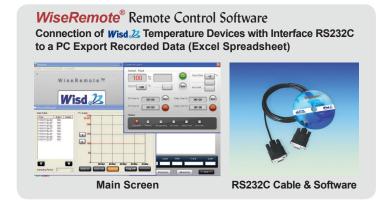


Flask Holders (Optional)

FH500



Multi-Stack Refrigerated Shaking Incubator "WIS-ML04" with 4 x Universal Platform



witeg® Programmable Ball Mill, "BML", 2-/6- Pots, with Certi. & Traceability with Digital Feedback Control System, Digital LCD, 50~600 rpm, ±5 rpm, 10 Steps 6 Programs



2-Places Programmable Ball Mill "BML-2"



6-Places Programmable Ball Mill "BML-6"



Optional Soundproof Cabinet "BMC-6" for 6-Places Programmable Ball Mill "BML-6"

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Ideal for Grinding/Mixing: Crystalline Chemicals, Inks, Paints, Pigments, Plants, Racks and Soils
- Microprocessor, Programmable, Variable Speed : 50~600 rpm
- Digital Feedback Control and LCD: Speed (RPM), Power Bar-Graph and Timer Status
- CE Certified
- PL(Product Liability) Insurance
- * Antistatic Rubber Roller: Keeps Jars / Pots Centered
- **★** Digital LCD with Back-Light Function
- * Over Load Protection
- **★** Ergonomic and Compact Design
- * NBR Roller with Pot Guide Ring
- * Programmable Operation: 10 Steps 6 Programs
- * Storage Function (RPM, Timer)
- * Soundproof Cabinet for Safety and Minimum Noise (Optional)

Specification

| Model | | 2-places "BML-2" | 6-places"BML-6" |
|-------------------------------|---------------|--|------------------------------------|
| Capacity | | up to 2 pots | up to 6 pots |
| Motor | | DC 40W Geared Motor (5 : 1 ratio) | DC 100W Geared Motor (5 : 1 ratio) |
| Maximum Load | | 40kg | 120kg |
| Speed Range | | 50 ~ 600 rpm | |
| Speed Accuracy | | ±5 rpm | |
| Timer | | 99 hr 59 min (Programmable) | |
| Display | | Digital LCD with Back-Light Function | |
| Controller | | Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn+Push) | |
| Program Function | | 10 Steps, 6 Programs | |
| Safety Device | | Over Load Protector for Motor | |
| Dimension (w x d x h) | Roller (mm) | 50 x 300 | 70 x 800 |
| | External (mm) | 620 x 300 x 515 | 1,200 x 500 x 795 |
| Packing Size (w x d x h) (mm) | | 760 x 460 x 700 | 1,300 x 620 x 1,010 |
| & Gross Weight | | 52 kg | 115 kg |
| Power Consumption | | 40 W | 100 W |
| Power plug type | | Hybrid E+F | |
| Power Supply* | | AC 230V, 1N~, 50/60Hz | |

^{*} Other Specifications are available upon Customer s Request.

Ordering Information

For 2 Pots

DH.WBM05002 Ball Mill, 2-places "BML-2", 230V, with Cord/Plug

For 6 Pots

DH.WBM05006 Ball Mill, 6-places "BML-6", 230V, with Cord/Plug Optional Soundproof Cabinets

* Designed for Minimizing Noise, and Safety Work

DH.WBM505102 Soundproof Cabinet, "BMC2", for 2-places "BML-2",

w1,020 x d570 x h1,120mm

DH.WBM505106 Soundproof Cabinet, "BMC6", for 6-places "BML-6",

w1,600 x d770 x h1,400mm