

WiseCube® Incubators

ALL-ROUNDERS for Laboratory & Industry

- Incubators, Horizontal/Forced-Flow
- Incubators, Gravity/Natural-Flow
- Growth Chamber (Plant) Incubators
- Low Temperature (B.O.D) Incubators
- Precise Shaking Incubators
- Environmental (Temperature & Humidity) Chamber

- Digital Control System Implementing Superior Temperature Accuracy.
- RS232C Interface for Monitoring and Controlling with PC.
- High Quality Stainless Steel Chamber.

UL Certified Incubators – WIF, WIG, WIM & WIR models

What is UL?

Underwriters Laboratories® is an independent product safety certification organization that has been testing products and writing standards for safety for more than a century. UL evaluates more than 19.000 types of products, components, materials and systems annually with 20 billion UL Marks appearing on 72.000 manufacturers' products each year. UL's worldwide family of companies and network of service providers includes 64 laboratory, testing and certification facilities serving customers in 98 countries.

► Multi-Room Incubator Foced Convection Type



WIM-R4

► Digital Incubator - Horizontal/Forced-Flow - Gravity/Natural-Flow



WIG/WIF-105

► Precise Shaking Incubator - Front Door Type



WIS-30R

“witeg” WiseCube® WIF Incubators, Horizontal-Flow, Forced-Air Type, 50-/105-/155- Lit.
 Digital Fuzzy Control, Maximum Temperature Uniformity, Perfect Heat Insulation, up to 70 °C, ± 0,2 °C



Incubator, Forced-Air Type (WIF-105)

- **Optimized Air Flow by Forced Convection Mechanism**
- **Patented Jog-Shuttle Control System**
- **UL Certified** ■ **CE Certified**

Application & Features

- * Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature, Germination, and so on.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD Display with Back-Light Function Used.
- * Compact Body Design.
- * RS232C Interface for Monitoring and Controlling with PC.
- * Ambient to 70 °C of Temp. Range, Accuracy of ±0,2 °C
- * Corrosion Resistant 304 Stainless Steel Chamber and Shelves.
- * Over Temperature & Over Current Protection, Sensor Error Detection.
- * Storage Function : Alarm & Timer.
- * Locking Mode Supported for Experimental Safety. (Input to Jog-Shuttle can be disabled)
- * **Patented Jog-Shuttle Control System.**
- * UL Certified.
- * CE Certified .

Specification

Model		WIF-50	WIF-105	WIF-155
Interior Dimension	Size (w×d×h)(mm)	370×350×420	485×410×535	550×475×600
	Load per Rack	15 kg		
	Permitted Total Load	25 kg		
	Weight of the Unit (empty)	45 kg	57 kg	80 kg
Exterior Dimension	Size (w×d×h)(mm)	541×618×701	644×676×841	709×741×906
	Wall Clearance Rear	150 mm		
	Wall Clearance Side	150 mm		
	Exhaust Duct Outer	40 mm		
Capacity		50 Lit.	105 Lit.	155 Lit.
Heater		300 W	400 W	500 W
Temp.	Range	Ambient + 5 °C ~ 70 °C		
	Accuracy	±0,2 °C		
	Uniformity	±0,5 °C at 37 °C		
Control Sensitivity		±0,1°C		
Heating-up Time		6 min. to 37 °C, 8 min. to 50 °C		
Temp. Recovery (After Door was opened for 30sec)		2 min. at 37 °C, 5 min. at 50 °C		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+ Push)		
Display		Digital LCD Display with Back-Light Function		
Timer		99 hr 59 min (Delay & Continuous Function Included)		
Material	Internal	Stainless Steel (# 304)		
	External	Powder Coated Steel		
	Insulation	None		
Shelves		2 Teflon Coated Steel Shelves of Adjustable Position		
Door Gasket		High Temperature Grade Foamed Silicone Rubber		
Viewing Window		Inner Tempered Glass Door		
Ventilation		Stainless Steel Cap, Dia. 40 mm × 1 ea		
Sensor		PT100		
Circulation		Forced Convection-Blower FAN		
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector		
Others		UL Certified, CE Certified RS232C Interface for Monitoring and Controlling with PC Storage Function (Temp and Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)		
Packing Dimension (w×d×h) (mm)		572×660×840	710×762×970	780×826×1,030
Gross Weight		52 kg	64 kg	87 kg
Power Consumption		300 W	400 W	500 W
Power plug type		Hybrid E+F		
Power Supply*		AC 230 V, 50 / 60 Hz		

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WIF Incubators, Horizontal-Flow>

Ordering Information

DH.WIF01050 Incubator, Forced-Air Convection, to 70 °C, **WIF-50**, 50 Lit.
 DH.WIF01105 , **WIF-105**, 105 Lit.
 DH.WIF01155 , **WIF-155**, 155 Lit.

Spare Accessories

DH.WIG11050 Wire Shelf, Teflon Coated Steel, **IGS050**, for 50 Lit., w 340 × d 310 mm
 DH.WIG11105 , **IGS105**, for 105 Lit., w 455 × d 375 mm
 DH.WIG11155 , **IGS155**, for 155 Lit., w 520 × d 440 mm

Optional Accessory

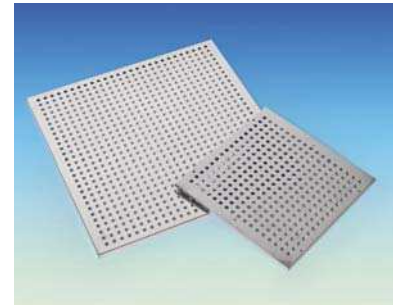
DH.WIG21050 Perforated Shelf, Stainless Steel, **IGPS050**, for 50 Lit., w 340 × d 310 mm
 DH.WIG21105 , **IGPS105**, for 105 Lit., w 455 × d 375 mm
 DH.WIG21155 , **IGPS155**, for 155 Lit., w 520 × d 440 mm

Validation (IQ, OQ & PQ) Service

DH.WIF31050 Validation Service(IQ, OQ & PQ), **IFV050**, for **WIF-50**
 DH.WIF31105 , **IFV105**, for **WIF-105**
 DH.WIF31155 , **IFV155**, for **WIF-155**

DH.WIF41050 Calibration Certificate Service, 1 & 3 points, **IFC1050**, for **WIF-50**
 DH.WIF41105 , 1 & 3 points, **IFC1150**, for **WIF-105**
 DH.WIF41155 , 1 & 3 points, **IFC1155**, for **WIF-155**

DH.WIF51105 Calibration Certificate Service, 9 points, **IFC2150**, for **WIF-105**
 DH.WIF51155 , 9 points, **IFC2155**, for **WIF-155**



Stainless Steel Perforated Shelves



Teflon Coated Steel Wire Shelves

WiseRemote® Remote Control Software - standard delivery

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



Main Screen



RS232C Cable & Software

“witeg” **WiseCube® WIG** Incubators, Gravity/Natural-Flow Type, 32-/50-/105-/155- Lit Digital Fuzzy Control, Superior Temperature Accuracy, up to 70 °C, ±0,2 °C



Incubator, Gravity/Natural-Flow Type (WIG-105)

Patented Control System (No. 10-0554098)

1 or 2 Mode Buttons + Jog Shuttle Switch
Realize “Easy to Use”

- **Optimized Air Circulation by Natural Flow Preventing Cross Contamination of Samples**
- **Patented Jog-Shuttle Control System**
- **UL Certified** ■ **CE Certified**

Application & Features

- * Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature, Germination, and so on.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD Display with Back-Light Function Used.
- * Compact Design Body.
- * RS232C Interface for Monitoring and Controlling with PC.
- * Ambient to 70 °C of Temp. Range, Accuracy of ±0,2 °C
- * Optimized Air Circulation by Natural Flow preventing Cross Contamination of Samples.
- * Corrosion Resistant 304 Stainless Steel Chamber and Shelves.
- * Over Temperature & Over Current Protection, Sensor Error Detection.
- * Storage Function : Alarm & Timer.
- * Locking Mode Supported for Experimental Safety. (Input to Jog-Shuttle can be Disabled)
- * **Patented Jog-Shuttle Control System** .
- * UL Certified.
- * CE Certified.

Specification

Model		WIG-32	WIG-50	WIG-105	WIG-155
Interior Dimension	Size (w×d×h)(mm)	310×290×360	370×350×420	485×410×535	550×475×600
	Load per Rack	15 kg			
	Permitted Total Load	25 kg			
	Weight of the Unit (empty)	29 kg	41 kg	53 kg	70 kg
Exterior Dimension	Size (w×d×h)(mm)	481×458×624	541×518×701	644×576×841	709×641×906
	Wall Clearance Rear	150 mm			
	Wall Clearance Side	150 mm			
	Exhaust Duct Outer	40 mm			
Capacity	32 Lit.	50 Lit.	105 Lit.	155 Lit.	
Heater	200 W	200 W	300 W	400 W	
Temp.	Range	Ambient + 5 °C ~ 70 °C			
	Accuracy	±0,2 °C			
	Uniformity	±0,5°C at 37 °C			
Control Sensitivity	±0,1 °C				
Heating-up Time	35 min. to 37 °C, 40 min. to 50 °C	38 min. to 37 °C, 45 min. to 50 °C	35 min. to 37 °C, 35 min. to 50 °C	35 min. to 37 °C, 35 min. to 50 °C	
Temp. Recovery (After Door was opened for 30sec)	10 min. to 37 °C, 12 min. to 50 °C	12 min. to 37 °C, 15 min. to 50 °C	10min. to 37 °C, 12 min. to 50 °C	12 min. to 37 °C, 15 min. to 50 °C	
Controller	Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)				
Display	Digital LCD Display with Back-Light Function				
Timer	99hr 59min (Delay & Continuous Function Included)				
Material	Internal	Stainless Steel (# 304)			
	External	Powder Coated Steel			
	Insulation	None			
Shelves	2 Teflon Coated Steel Shelves of Adjustable Position				
Door Gasket	High Temperature Grade Foamed Silicone Rubber				
Viewing Window	Inner Tempered Glass Door				
Ventilation	Stainless Steel Cap, Dia. 40 mm × 1 ea				
Sensor	PT100				
Circulation	Natural Convection				
Safety Device	Over Temp. and Over Current Protector, Sensor Error Detector				
Others	UL Certified, CE Certified RS232C Interface for Monitoring and Controlling with PC Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input disabled) Alarm (Error Status and Timer-end)				
Packing Dimension (w×d×h) (mm)	520×520×673	570×570×750	700×650×1.000	780×740×1.030	
Gross Weight	36 kg	48 kg	60 kg	77 kg	
Power Consumption	200 W	200 W	300 W	400 W	
Power plug type	Hybrid E+F				
Power Supply*	AC 230 V, 50 / 60 Hz				

* Other Specifications are available upon Customer's Request.

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<Continued from... "Witeg" WiseCube® WIG Incubators, Gravity/Natural-Flow Type>

Ordering Information

- DH.WIG01032 Incubator, Natural Convection, to 70 °C, **WIG-32**, 32 Lit.
- DH.WIG01050 , **WIG-50**, 50 Lit.
- DH.WIG01105 , **WIG-105**, 105 Lit.
- DH.WIG01155 , **WIG-155**, 155 Lit.

Spare Accessories

- DH.WIG11032 Wire Shelf, Teflon Coated Steel, **IGS032**, for 32 Lit., w 280×d 260 mm
- DH.WIG11050 , **IGS050**, for 50 Lit., w 340×d 310 mm
- DH.WIG11105 , **IGS105**, for 105 Lit., w 455×d 375 mm
- DH.WIG11155 , **IGS155**, for 155 Lit., w 520×d 440 mm.

Optional Accessory

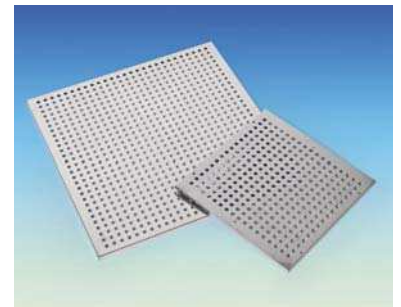
- DH.WIG21032 Perforated Shelf, Stainless Steel, **IGPS032**, for 32 Lit., w 280×d 260 mm
- DH.WIG21050 , **IGPS050**, for 50 Lit., w 340×d 310 mm
- DH.WIG21105 , **IGPS105**, for 105 Lit., w 455×d 375 mm
- DH.WIG21155 , **IGPS155**, for 155 Lit., w 520×d 440 mm

Validation (IQ, OQ & PQ) Service

- DH.WIG31032 Validation Service(IQ, OQ & PQ), **IGV032**, for **WIG-32**
- DH.WIG31050 , **IGV050**, for **WIG-50**
- DH.WIG31105 , **IGV105**, for **WIG-105**
- DH.WIG31155 , **IGV155**, for **WIG-155**

- DH.WIG41032 Calibration Certificate Service, 1 & 3 points, **IGC1032**, for **WIG-32**
- DH.WIG41050 , 1 & 3 points, **IGC1050**, for **WIG-50**
- DH.WIG41105 , 1 & 3 points, **IGC1105**, for **WIG-105**
- DH.WIG41155 , 1 & 3 points, **IGC1155**, for **WIG-155**

- DH.WIG51105 Calibration Certificate Service, 9 points, **IGC2105**, for **WIG-105**
- DH.WIG51155 , 9 points, **IGC2155**, for **WIG-155**



Stainless Steel Perforated Shelves



Teflon Coated Steel Wire Shelves

WiseRemote® Remote Control Software - standard delivery

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



Main Screen



RS232C Cable & Software

“witeg” WiseCube® WIM Multi-Room Incubator, Forced Convection-type, 125 Lit. × 4 Rooms
 Digital Fuzzy Control, Independent Chamber Control, High Uniformity of Temperature, up to 0 °C to 60 °C



Multi-Room Incubator, Forced Convection Type (WIM-R4)

- **4 × 125 Lit Rooms : Each Chamber has an Independent Fuzzy Controller for Different Temperature and Time Control**
- **Patented Jog-Shuttle Control System**
- **UL Certified**
- **CE Certified**

Specification

Model		WIM-4	WIM-R4	WIM-RL4
Interior Dimension	Size (w×d×h)(mm)	500×500×500 (× 4 Rooms)		
	Load per Rack	15 kg		
	Permitted Total Load	100 kg		
	Weight of the Unit (empty)	343 kg	350 kg	
Exterior Dimension	Size (w×d×h)(mm)	1.655×845×1.710		
	Wall Clearance Rear	150 mm	300 mm	
	Wall Clearance Side	150 mm	300 mm	
	Exhaust Duct Outer	40 mm		
Type	Forced Convection Type			
Capacity	125 Lit. × 4 Rooms			
Heater	2,1 kW			
Refrigerator	None	184 W × 4 ea		
Temp.	Range	Ambient +5 °C to 70 °C	0 °C to 60 °C	
	Accuracy	±0.2 °C at 37 °C	±0.1 °C at 25 °C	
	Uniformity	±0.5 °C at 37 °C	±0.2 °C at 25 °C	
Control Sensitivity				
Heating-up Time	35 min. to 37 °C, 40 min. to 50 °C			
Recovery (Door open 30sec)	800 W × 4 ea			
Controller	Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)			
Display	Digital LCD Display with Back-Light Function			
Light System	None	FPL 36 W × 2		
Timer	99 hr 59 min (Delay & Continuous Function Included)			
Viewing Window	Tempered Glass Door with Silicone Packing			
Material	Internal	Stainless Steel (# 304)		
	External	Powder Coated Steel		
Sensor	PT100			
Shelves	2 × 4 Teflon Coated Steel Shelves of Adjustable Position			
Safety Device	Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker			
Others	UL Certified, CE Certified RS232C Interface for Monitoring and Controlling with PC Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)			
Packing Dimension (w×d×h) (mm)	1.900 × 1.050 × 1.950			
Gross Weight	441 kg	450 kg		
Power Consumption	2,1 kW	5 kW		
Power plug type	Hybrid E+F	3~ 16A CEE		
Power Supply*	AC 230 V, 50 / 60 Hz	3~, AC 230 V, 50 / 60 Hz		

* Other Specifications are available upon Customer's Request.

Patented Control System
(No. 10-0554098)

1 or 2 Mode Buttons + Jog Shuttle Switch
Realize “Easy to Use”

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<Continued from... "witeg" WiseCube® WIM Multi-Room Incubator>

Application & Features

- * Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature and Germination.
- * 4 Rooms : Each Chamber has an Independent Fuzzy Controller for Different Temperature Time Control.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD Display with Back-Light Function used.
- * RS232C Interface for Monitoring and Controlling with PC.
- * Forced Convection Air Flow by Silent Fan Motor Implements the Highest Uniformity of Temperature in Each Chamber.
- * Stainless Steel Chamber and Teflon-Coated Shelves (2 ea 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)
- * **Patented Jog-Shuttle Control System.**
- * UL Certified.
- * CE Certified.



Teflon Coated Steel Wire Shelves

Ordering Information

- DH.WIM04125** Multi-Room Incubator, **WIM-4**,
125 Lit. x 4 rooms, Ambient + 5 °C to 60 °C
- DH.WIM14125** Multi-Room Incubator, **WIM-R4**,
125 Lit. x 4 rooms, 0 °C to 60 °C
- DH.WIM24125** Multi-Room Incubator, **WIM-RL4**,
125 Lit. x 4 rooms with **Light System**, 0 °C to 60 °C

Spare Accessories

- DH.WIM34125** Shelf, Teflon Coated Steel, **IMS125**, for WIM, w 470 x d 480 mm

Validation (IQ, OQ & PQ) Service

- DH.WIM54125** Validation Service(IQ, OQ & PQ), **IMV525**, for **WIM-4**
- DH.WIM64125** , **IMV625**, for **WIM-R4**
- DH.WIM74125** , **IMV725**, for **WIM-RL4**
- DH.WIM55125** Calibration Certificate Service, 1 & 3 points, **IMC525**, for **WIM-4**
- DH.WIM65125** , 1 & 3 points, **IMC625**, for **WIM-R4**
- DH.WIM75125** , 1 & 3 points, **IMC725**, for **WIM-RL4**
- DH.WIM56125** Calibration Certificate Service, 9 points, **IMC535**, for **WIM-4**
- DH.WIM66125** , 9 points, **IMC635**, for **WIM-R4**
- DH.WIM76125** , 9 points, **IMC735**, for **WIM-RL4**

WiseRemote® Remote Control Software - standard delivery

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



Main Screen



RS232C Cable & Software

“witeg” WiseCube® WTH-E Economic Temp./Humidity Chamber, 155- /305- /420- /800- Lit.
 Digital PID Control, Programmable, -20 °C ~80 °C, ±0,3 °C, up to 95 % RH



Temp./Humidity Chamber, Economic Type
(WTH-E155)

- Economical & Practical Type
- Digital PID Programmable Controller for Precise Temperature Control
- RS485 Interface for Remote Monitoring and Controlling with PC (Standard)
- Automatic Defrost Function
- CE Certified

Application & Features

- * Economical & Practical Type.
- * Digital PID Programmable Controller for Precise Temperature Control.
- * Temperature from -20 °C to 80 °C, Relative Humidity from 30 % to 95 % RH.
- * Program Function : 30 Patterns, 300 Segments.
- * Low Water Level Alarm System.
- * Inner Tempered Glass Door with Silicon Packing.
- * RS485 Interface for Remote Monitoring and Controlling with PC. (Standard)
- * Temperature & Humidity Recorder(6 Channels & 2 Pens) and RS232C Communication Interface. (Optional)
- * The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation.
- * Automatic Defrost Function.
- * Over Temperature and Over Current Protection for User Safety.
- * CE Certified.

Specification

Model		WTH-E155	WTH-E305	WTH-E420	WTH-E800
Interior Dimension	Size (w × d × h) (mm)	505 × 505 × 610	620 × 620 × 800	750 × 660 × 850	1.000 × 800 × 1.000
	Load per Rack	15 kg			
	Permitted Total Load	40 kg		60 kg	100 kg
	Weight of the Unit (empty)	290 kg	309 kg	378 kg	558 kg
Exterior Dimension	Size (w × d × h) (mm)	745 × 920 × 1.645	820 × 1.290 × 1.720	990 × 1.075 × 1.885	1.200 × 1.100 × 1.920
	Wall Clearance Rear	300 mm			
	Wall Clearance Side	300 mm			
	Exhaust Duct Outer	50 mm			
Capacity		155 Lit.	305 Lit.	420 Lit.	800 Lit.
Controller		Programmable Digital PID Controller			
Program Function		30 patterns, 300 segments			
Temp.	Range	-20 °C ~ +80 °C			
	Accuracy	± 0.3 °C (Stability ± 1.0 °C)			
Humidity	Range	30 % ~ 95 % RH			
	Accuracy	± 2 % (Stability ± 3 % RH)			
Refrigerator		368 W	552 W	368 W	736 W
Heater		3,5 kW	4,3 kW	4,5 kW	5,5 kW
Sensor		PT100 & Electronic Sensor			
Material	Internal	Stainless Steel (# 304)			
	External	Powder Coated Steel			
Shelves		3 ea of Perforated Stainless Steel Shelves of Adjustable Position			
Safety Device		Hi-Low Temp. Protector, Over Current & Leakage Breaker, Water Level Sensor			
Others		CE Certified			
Packing Dimension (w × d × h) (cm)		99 × 112 × 185	122 × 122 × 205	128 × 128 × 216	149 × 132 × 220
Gross Weight		355 kg	369 kg	478 kg	678 kg
Power Consumption		4,4 kW	5,7 kW	6,3 kW	8,2 kW
Power plug type		3~ 16A CEE			
Power Supply*		3~, AC 230 V, 50 / 60 Hz			

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WTH-E Economic Temp./Humidity Chamber>

Ordering Information

- DH.WTHE0155 Temp. / Humidity Chamber, **WTH-E155**, -20 °C to 80 °C, 155 Lit.
- DH.WTHE0305 , **WTH-E305**, -20 °C to 80 °C, 305 Lit.
- DH.WTHE0420 , **WTH-E420**, -20 °C to 80 °C, 420 Lit.
- DH.WTHE0800 , **WTH-E800**, -20 °C to 80 °C, 800 Lit.

Spare Accessories

- DH.WTH11155 Perforated Shelf, Stainless Steel, **THS1155**, for 155 Lit., w 470 × d 480 mm
- DH.WTH11305 Perforated Shelf, Stainless Steel, **THS1305**, for 305 Lit., w 590 × d 580 mm
- DH.WTH11420 Perforated Shelf, Stainless Steel, **THS1420**, for 420 Lit., w 720 × d 640 mm
- DH.WTH11800 Perforated Shelf, Stainless Steel, **THS1800**, for 800 Lit., w 970 × d 980 mm

Optional Accessories

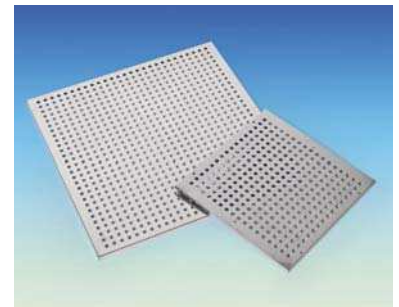
- DH.WTH05100 Temperature & Humidity Recorder, **WTH5100**
- DH.WTH05105 Chart Paper, **WTH5105**, w 100 mm × L 16 m
The number of days available is depend on interval of measuring.

Validation (IQ, OQ & PQ) Service

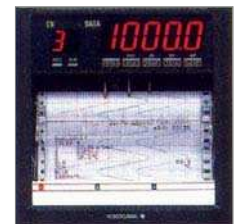
- DH.WTHE3155 Validation Service(IQ, OQ & PQ), **THEV155**, for **WTHE-155**
- DH.WTHE3305 , **THEV305**, for **WTHE-305**
- DH.WTHE3420 , **THEV420**, for **WTHE-420**
- DH.WTHE3800 , **THEV800**, for **WTHE-800**

- DH.WTHE4155 Calibration Certificate Service, 1 & 3 points, **THEC0155**, for **WTHE-155**
- DH.WTHE4305 , 1 & 3 points, **THEC0305**, for **WTHE-305**
- DH.WTHE4420 , 1 & 3 points, **THEC0420**, for **WTHE-420**
- DH.WTHE4800 , 1 & 3 points, **THEC0800**, for **WTHE-800**

- DH.WTHE5155 Calibration Certificate Service, 9 points, **THEC1155**, for **WTHE-155**
- DH.WTHE5305 , 9 points, **THEC1305**, for **WTHE-305**
- DH.WTHE5420 , 9 points, **THEC1420**, for **WTHE-420**
- DH.WTHE5800 , 9 points, **THEC1800**, for **WTHE-800**



Stainless Steel Perforated Shelves



Temp. & Humidity Recorder
6 Channel 2 Pens(Optional)
(WTH5100)

“witeg” WiseCube® WTH Programmable Temp./Humidity Chamber, 155- /305- /420- /800- Lit.
 Digital PID Control, Programmable, Touch-Screen LCD, -40 °C / -20 °C to 100 °C, up to 98 % RH



Programmable Temp./Humidity Chamber (WTH-305) with Chart Recorder (WTH5100)

- Programmable Digital PID Controller with Touch-Screen LCD
- Program Capability: 120 Patterns 1200 Segments
- CFC Free Refrigerant (R404A)
- CE Certified

Specification

Model	WTH-155	WTH-305	WTH-420	WTH-800	
Temp./Humidity Range	-20 °C to 100 °C / 30 % to 98 % RH				
Refrigerator / Heater	1 / 2 HP / 3,5W	3 / 4 HP / 4,3W	1 HP / 4,5W	2 HP / 5,5W	
Model	WTH-L155	WTH-L305	WTH-L420	WTH-L800	
Temp./Humidity Range	-40 °C to 100 °C / 30 % to 98 % RH				
Refrigerator / Heater	368 W / 1,1 kW	552 W / 1,5 kW	736 W / 2,2 kW	1,5kW / 2,9 kW	
Capacity	155 Lit.	305 Lit.	420 Lit.	800 Lit.	
Interior Dimension	Size (w × d × h) (mm)	505 × 505 × 610	620 × 620 × 800	700 × 700 × 820	1,000 × 800 × 1,000
	Load per Rack	15 kg			
	Permitted Total Load	40 kg		60 kg	100 kg
Exterior Dimension	Weight of the Unit (empty)	285 kg	309 kg	378 kg	558 kg
	Size (w × d × h) (mm)	1.100 × 960 × 1.550	1.310 × 1.080 × 1.765	1.390 × 1.135 × 1.690	1.570 × 1.245 × 2.060
	Wall Clearance Rear	300 mm			
Temp.	Wall Clearance Side	300 mm			
	Exhaust Duct Outer	50 mm			
Humidity	Accuracy	± 0.3 °C			
	Stability	± 0.3 °C			
Controller	Accuracy	± 0.3 % RH			
	Stability	± 0.3 % RH at 70 %			
Program Function	Programmable Digital PID Multi-function Controller				
Material	Internal	120 patterns 1.200 segments			
	External	Stainless Steel (# 304)			
Shelves	Powder Coated Steel				
Sensor	3ea of Perforated Stainless Steel Shelves of Adjustable Position				
Heat-up Time	PT100 & Electronic Sensor				
Cooling-down Time	35 min (-20 °C to 80 °C)				
Safety Device	45 min (+20 °C to -20 °C)				
	Over Temp. and Over Current Protector, Sensor Error and Low Level Detector, Leakage Breaker				
Others	CE Certified				
Packing Dimension (w × d × h) (cm)	134 × 116 × 175	152 × 125 × 207	160 × 130 × 202	178 × 141 × 237	
	3~ 16A CEE				
Gross Weight	353 kg	369 kg	478 kg	678 kg	
	4,7 kW	5,7 kW	6,3 kW	9 kW	
Power Consumption	6,2 kW	7,9 kW	9,9 kW	12,7 kW	
	3~ 16A CEE				
Power plug type	3~ 16A CEE			32A CEE	
Power Supply*	3~, AC 230 V, 50 / 60 Hz				

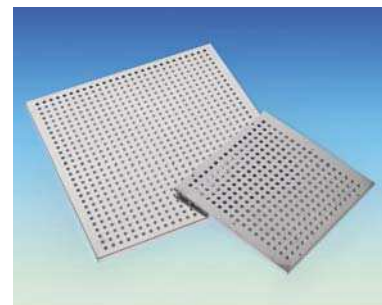
* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WTH Programmable Temp./Humidity Chamber>

Application & Features

- * Programmable Digital PID controller with Touch-Screen LCD.
- * Program Capability : 120 Patterns 1200 Segments.
- * Auto-Tuning Function.
- * Precise Temperature Control (-40 °C / -20 °C to 100 °C) and Humidity. (30 % to 98 % Relative Humidity)
- * Electronic Humidity Sensor has Excellent Response Time and Durability.
- * The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation. (2 ~ 4pcs)
- * CFC-Free Refrigerant. (R404A)
- * Low Water Level Alarm System.
- * Automatic Defrost Function.
- * Large Clear Viewing Window with Membrane Heating Element. (Moisture-Proof)
- * Sliding Water Supply Tank : Auto Water Supplementing System.
- * Easy and Safety Door Lock.
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- * RS232C Interface for Remote Monitoring and Controlling with PC. (Standard)
- * Temperature & Humidity Recorder(6 Channels & 2 Pens) and RS485 Communication Interface. (Optional)
- * CE Certified.



Stainless Steel Perforated Shelves

Ordering Information

- DH.WTH01155** Temp. / Humidity Chamber, **WTH-155**, -20 °C to 100 °C, 155 Lit.
DH.WTH01305 , **WTH-305**, -20 °C to 100 °C, 305 Lit.
DH.WTH01420 , **WTH-420**, -20 °C to 100 °C, 420 Lit.
DH.WTH01800 , **WTH-800**, -20 °C to 100 °C, 800 Lit.
- DH.WTH02155** Temp. / Humidity Chamber, **WTH-L155**, -40 °C to 100 °C, 155 Lit
DH.WTH02305 , **WTH-L305**, -40 °C to 100 °C, 305 Lit
DH.WTH02420 , **WTH-L420**, -40 °C to 100 °C, 420 Lit
DH.WTH02800 , **WTH-L800**, -40 °C to 100 °C, 800 Lit

Spare Accessories

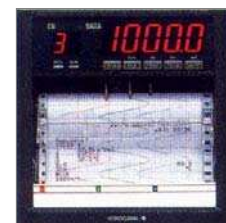
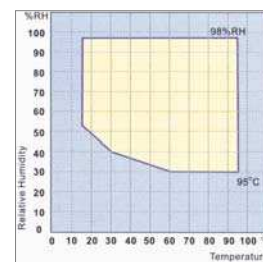
- DH.WTH11155** Perforated Shelf, Stainless Steel, **THS1155**, for 155 Lit., w 470 × d 480 mm
DH.WTH11305 , **THS1305**, for 305 Lit., w 590 × d 580 mm
DH.WTH11420 , **THS1420**, for 420 Lit., w 720 × d 640 mm
DH.WTH11800 , **THS1800**, for 800 Lit., w 970 × d 980 mm

Optional Accessories

- DH.WTH05100** Temperature & Humidity Recorder, **WTH5100**
DH.WTH05105 Chart Paper, **WTH5105**, w 100 mm × L 16 m
 The number of days available is depend on interval of measuring.

Validation (IQ, OQ & PQ) Service

- DH.WTH31155** Validation Service(IQ, OQ & PQ), **THV1155**, for **WTH-155**
DH.WTH31305 , **THV1305**, for **WTH-305**
DH.WTH31420 , **THV1420**, for **WTH-420**
DH.WTH31800 , **THV1800**, for **WTH-800**
- DH.WTH32155** Validation Service(IQ, OQ & PQ), **THV2155**, for **WTH-L155**
DH.WTH32305 , **THV2305**, for **WTH-L305**
DH.WTH32420 , **THV2420**, for **WTH-L420**
DH.WTH32800 , **THV2800**, for **WTH-L800**
- DH.WTH41155** Calibration Certificate Service, 1 & 3 points, **THC1155**, for **WTH-155**
DH.WTH41305 , 1 & 3 points, **THC1305**, for **WTH-305**
DH.WTH41420 , 1 & 3 points, **THC1420**, for **WTH-420**
DH.WTH41800 , 1 & 3 points, **THC1800**, for **WTH-800**
- DH.WTH42155** Calibration Certificate Service, 1 & 3 points, **THC2155**, for **WTH-L155**
DH.WTH42305 , 1 & 3 points, **THC2305**, for **WTH-L305**
DH.WTH42420 , 1 & 3 points, **THC2420**, for **WTH-L420**
DH.WTH42800 , 1 & 3 points, **THC2800**, for **WTH-L800**
- DH.WTH51155** Calibration Certificate Service, 9 points, **THC3155**, for **WTH-155**
DH.WTH51305 , 9 points, **THC3305**, for **WTH-305**
DH.WTH51420 , 9 points, **THC3420**, for **WTH-420**
DH.WTH51800 , 9 points, **THC3800**, for **WTH-800**
- DH.WTH52155** Calibration Certificate Service, 9 points, **THC4155**, for **WTH-L155**
DH.WTH52305 , 9 points, **THC4305**, for **WTH-L305**
DH.WTH52420 , 9 points, **THC4420**, for **WTH-L420**
DH.WTH52800 , 9 points, **THC4800**, for **WTH-L800**



**Temp. & Humidity Recorder
6 Channel 2 Pens(Optional)
(WTH5100)**

“witeg” WiseCube® WGC Programmable Plant Growth Chamber, Touch-Screen LCD
 Multi-Functional Program Control System, 0~12.000 / 15.000 Lux, 30~95 % RH, 10~60 °C, 432- / 864- Lit.



Programmable Plant Growth Chamber (WGC-450)

- Suitable for Plant Growth, Stability, Product Self-life QC Testing
- Inner Tempered Glass Door with Silicone Packing Offers Easy Observation without Door Opening
- Humidity Control by Capacitive Humidity Sensor Provides Accurate Control from 30 to 95 %RH
- Easy-to-use Touch Screen LCD Controller
- CE Certified

Specification

Model		WGC-450	WGC-1000
Interior Dimension	Size (w × d × h) (mm)	650 × 640 × 1.050	1.200 × 690 × 1.050
	Load per Rack	15 kg	
	Permitted Total Load	40 kg	100 kg
	Weight of the Unit (empty)	375 kg	505 kg
Exterior Dimension	Size (w × d × h) (mm)	850 × 1.030 × 1.965	1.400 × 1.050 × 1.965
	Wall Clearance Rear	300 mm	
	Wall Clearance Side	300 mm	
Capacity		432 Lit.	864 Lit.
Heater		3 kW	3,8 kW
Refrigerator		552 W	920 W
Temp.	Range	10 °C ~ 60 °C	
	Accuracy	±0,5 °C at 10 °C, ±0,5 °C at 25 °C (0 % light intensity) ±1 °C at 10 °C, ±1 °C at 25 °C (100 % light intensity)	
	Uniformity	± 0,5-1.0 °C at 20 °C	
	Sensor	PT100	
Heating-up Time to 37°C		11 min. (0 % illumination) / 9 min. (100 % illumination)	
Cooling-down Time (down to 10°C)		13 min. (0 % illumination) / 15 min. (100 % illumination)	
Temp. Recovery (After Door was opened for 30sec)		3 min. at 10 °C, 1 min. at 37 °C (0 % illumination) 5 min. at 10 °C, 1min. at 37 °C (100 % illumination)	
Humidity	Range	30 % ~ 95 % RH	
	Accuracy	± 1 %	
	Uniformity	±3 % at 60 °C	
	Sensor	Capacitive Sensor	
	Humidifier	Evaporation by Fan with Heater	
Controller		Programmable Digital PID Controller	
Program Function		8 steps for Light Bank 120 Patterns, 1.200 Segments of Temperature and Humidity	
Display		Touch-Screen LCD	
Refrigerant		CFC-Free(R404a) Refrigeration System	
Illumination (8 Steps)	Range	0 to 12.000 Lux	0 to 15.000 Lux
	Lamp	FPL 55W × 14	FPL 55W × 28
	Bank	3 Side Walls	3 Side Walls & Ceiling
Material	Internal	Stainless Steel (# 304)	
	External	Power Coated Steel	
Door	Internal	Tempered Safety Glass with Silicon Packing	
	External	3-Side Magnetic Packing Door with Light Bank	
Shelves		3 Teflon Coated Steel Shelves of Adjustable Position	
Safety Device		Over Temp Protector, Over Current & Leakage Breaker	
Others		CE Certified	
Packing Dimension (w × d × h) (mm)		1.400 × 1.220 × 2.210	1.600 × 1.500 × 2.200
Gross Weight		435 kg	585 kg
Power Consumption		4,8 kW	6,5 kW
Power plug type		3~ 16A CEE	
Power Supply*		3~, AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WGC Programmable Plant Growth Chamber>

Application & Features

- * Suitable for Plant Growth, Stability, Product Self-life QC Testing.
- * Microprocessor PID Controller Provides Precise Temperature, Relative Humidity and Illumination Control - Maintain Uniformity and Accuracy of Growth Circumstance.
- * Inner Tempered Glass Door with Silicone Packing Offers Easy Observation without Door Opening.
- * Programmable Automatic Operation of Various Temperature and Humidity : 120 Patterns, 1.200 Segments.
- * Easy-to-use Touch Screen LCD Controller.
- * 3- / 4- Side Light Bank System : Intensity of Light is Controlled by 8-Levels and Displayed on LCD.
- * Over Temperature & Over Current Protection, Sensor Error Detection, Leakage Breaking.
- * Humidity Control by Electronic Humidity Sensor Provide Accurate Control from 30 to 95 %RH.
- * CE Certified.



Water Tank & Lux Meter

Ordering Information

- DH.WGC00450*** Plant Growth Chamber, **WGC-450**, 432 Lit., 10~60 °C, 30~95 % RH, 0 - 12.000 Lux
 - DH.WGC01000*** Plant Growth Chamber, **WGC-1000**, 864 Lit., 10~60 °C, 30~95 % RH, 0 - 15.000 Lux
- *Water Tank(with Silicon Tube) and Lux Meter Included

Spare Accessories

- DH.WGC10450** Wire Shelf, Teflon Coated Steel, **GCS450**, for **WGC-450**, w 640 × d 620 mm
- DH.WGC11000** Wire Shelf, Teflon Coated Steel, **GCS1000**, for **WGC-1000**, w 580 × d 620 mm
- DH.WGC20450** Basket Shelf Customizing Service, **GCSC450**, for **WGC-450**
- DH.WGC21000** Basket Shelf Customizing Service, **GCSC1000**, for **WGC-1000**

Validation (IQ, OQ & PQ) Service

- DH.WGC30450** Validation Service(IQ, OQ & PQ), **GCV450**, for **WGC-450**
- DH.WGC31000** , **GCV1000**, for **WGC-1000**
- DH.WGC40450** Calibration Certificate Service, 1 & 3 points, **GCC0450**, for **WGC-450**
- DH.WGC41000** , 1 & 3 points, **GCC01000**, for **WGC-1000**
- DH.WGC50450** Calibration Certificate Service, 9 points, **GCC1450**, for **WGC-450**
- DH.WGC51000** , 9 points, **GCC11000**, for **WGC-1000**



Teflon Coated Steel Wire Shelves

“witeg” **WiseCube**® **WGC** Programmable Growth/Environmental Chamber

Light Bank System, Program Control System, Touch-Screen LCD, 0~20.000 Lux, 30~95 % RH, 10~60 °C, 432- / 972- Lit.



Programmable Growth / Environmental Chamber (WGC-P4)

- Suitable for Plant Growth, Stability and Product Self-life QC Testing
- Light Bank System with 8 Steps Programmable Control from Top Side, Control from 0 to 20.000 Lux
- Relative Humidity from 30 % to 95 % Maintain Uniform and Accurate Growth Environment Capacitive Humidity Sensor is Used.
- Easy-to-use Touch Screen LCD Controller
- CE Certified

Specification

Model		WGC-P4	WGC-P9
Interior Dimension	Size (w × d × h) (mm)	600 × 600 × 1.200	900 × 900 × 1.200
	Load per Rack	15 kg	
	Permitted Total Load	40 kg	100 kg
	Weight of the Unit (empty)	336 kg	477 kg
Exterior Dimension	Size (w × d × h) (mm)	1.185 × 775 × 2.055	1.485 × 1.165 × 2.060
	Wall Clearance Rear	300 mm	
	Wall Clearance Side	300 mm	
Capacity		432 Lit.	972 Lit.
Heater		2,9 kW	3,4 kW
Refrigerator		552 W	920 W
Temp.	Range	10 °C ~ 60 °C	
	Accuracy	±0,5 °C at 10 °C, ±0,5 °C at 25 °C (0 % light intensity) ±1 °C at 10 °C, ±1 °C at 25 °C (100 % light intensity)	
	Uniformity	±0,5~1,0 °C at 20 °C	
	Sensor	PT100	
Heating-up Time to 37°C		11 min. (0 % illumination) / 9 min. (100 % illumination)	
Cooling-down Time (down to 10°C)		13 min. (0 % illumination) / 15 min. (100 % illumination)	
Temp. Recovery (After Door was opened for 30sec)		3 min. at 10 °C, 1 min. at 37 °C (0 % illumination) 5 min. at 10 °C, 1 min. at 37 °C (100 % illumination)	
Humidity	Range	30 % ~ 95 % RH	
	Accuracy	±1 %	
	Uniformity	±3 % at 60 °C	
	Sensor	Capacitive Sensor	
Humidifier		Evaporation by Fan with Heater	
Controller		Programmable Digital PID Multi-Function Controller	
Program Function		8 Step for Light Bank 120 Patterns, 1200 Segments of Temperature and Humidity	
Display		Touch - Screen LCD	
Refrigerant		CFC-Free (R404a) Refrigeration System	
Illumination	Range	0 to 20.000 Lux	
	Sensor	Electronic Photo Sensor with Flexible Cable	
	Bank	Ceiling	
Material	Internal	Stainless Steel (# 304)	
	External	Power Coated Steel	
Ceiling	Ceiling	Tempered Safety Pair Glass	
	Internal	Tempered Safety Glass with Silicon Packing	
Shelves		4 Teflon Coated Steel Shelves of Adjustable Position	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker	
Others		CE Certified	
Packing Dimension (w × d × h) (mm)		1.400 × 1.100 × 2.250	1.700 × 1.300 × 2.250
Gross Weight		416 kg	577 kg
Power Consumption		4,3 kW	5,7 kW
Power plug type		3~ 16A CEE	
Power Supply*		3~, AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WGC Programmable Growth/Environmental Chamber>

Application & Features

- * Suitable for Plant Growth, Stability and Product Self-life QC Testing.
- * Silent Fan Motor to Maintain Uniform Temperature and Humidity.
- * Light Bank System with 8 Step Programmable Control from Top Side, Control from 0 to 20.000 Lux.
- * Easy-to-use Touch Screen LCD Controller.
- * Inner Tempered Glass Door with Silicone Packing Offers easy Observation without Door Opening.
- * Precise Temperature Control from 10 °C to 60 °C.
- * Programmable Controller Provides Automatic Operation of Various Temperature, Humidity and illumination Values : 120 Patterns, 1.200 Segments.
- * Relative Humidity from 30 % to 95 % Maintain Uniform and Accurate Growth Environment Electronic Humidity Sensor is Used.
- * Over Temperature & Over Current Protection, Sensor Error Detection, Leakage Breaking.
- * CE Certified.



Water Tank & Lux Meter

Ordering Information

- DH.WGC01400*** Programmable Growth/Environmental Chamber,
WGC-P4, 432 Lit, 10-60 °C, 30-95 % RH, 0-20.000 Lux
- DH.WGC01900*** Programmable Growth/Environmental Chamber,
WGC-P9, 972 Lit, 10-60 °C, 30-95 % RH, 0-20.000 Lux
 *Water Tank(with Silicon Tube) and Lux Meter Included

Spare Accessories

- DH.WGC11400** Wire Shelf, Teflon Coated Steel, **GCS400,** for **WGC-P4,** w 570 × d 580 mm
- DH.WGC11900** , **GCS900,** for **WGC-P9,** w 870 × d 880 mm
- DH.WGC21400** Basket Shelf Customizing Service, **GCSC400,** for **WGC-P4**
- DH.WGC21900** , **GCSC900,** for **WGC-P9**

Validation (IQ, OQ & PQ) Service

- DH.WGC31400** Validation Service(IQ, OQ & PQ), **GCV400,** for **WGC-P4**
- DH.WGC31900** , **GCV900,** for **WGC-P9**
- DH.WGC41400** Calibration Certificate Service, 1 & 3 points, **GCC0400,** for **WGC-P4**
- DH.WGC41900** , 1 & 3 points, **GCC0900,** for **WGC-P9**
- DH.WGC51400** Calibration Certificate Service, 9 points, **GCC1400,** for **WGC-P4**
- DH.WGC51900** , 9 points, **GCC1900,** for **WGC-P9**



Teflon Coated Steel Wire Shelves

“witeg” WiseCube® WIR Low Temperature (B.O.D) Incubators, 150- /250- /420- /700- Lit.
 Digital Fuzzy Control System, CFC-free Refrigeration(I 34A) System, Forced Convection, 0~60 °C, ±0,1 °C



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

Patented Control System
 (No. 10-0554098)

1 or 2 Mode Buttons + Jog Shuttle Switch
 Realize “Easy to Use”

- Intelligent Control of Refrigerator for Preventing Overload of Compressor
- CFC-free (134A) Refrigeration System
- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- **Patented Jog-Shuttle Control System**
- **UL Certified**
- **CE Certified**

Specification

Model		WIR-150	WIR-250	WIR-420	WIR-700
Interior Dimension	Size (w×d×h) (mm)	505×505×610	505×505×1.000	705×605×1.000	800×700×1.250
	Load per Rack	15 kg			
	Permitted Total Load	40 kg		60 kg	80 kg
	Weight of the Unit (empty)	118 kg	157 kg	202 kg	259 kg
Exterior Dimension	Size (w×d×h) (mm)	640×832×1.313	640×832×1.703	840×932×1.753	935×1.027×2.000
	Wall Clearance Rear	300 mm			
	Wall Clearance Side	300 mm			
	Exhaust Duct Outer	40 mm			
Capacity		155 Lit.	255 Lit.	425 Lit.	700 Lit.
Heater		800 W	1 kW	1,2 kW	2 kW
Refrigerator		184 W	245 W	294 W	368 W
Temp.	Range	0 °C ~ 60 °C			
	Accuracy	±0,2 °C			
	Uniformity	±0,5 °C at 37 °C			
	Sensor	PT100			
Control Sensitivity		±1,0 °C			
Heating-up Time		18 min. to 37 °C, 20 min. to 50 °C			
Cooling-down Time (down to 10°C)		8 min.	10 min.	13 min.	15 min.
Temp. Recovery (After Door was opened for 30sec)		3 min. at 10 °C, 5 min. at 37 °C			
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn + Push)			
Display		Digital LCD Display with Back-Light Function			
Timer		99 hr 59 min (Delay & Continuous Function Included)			
Compressor Control		Intelligent Control of Refrigerator for preventing Overload of Compressor			
Refrigerant		CFC-Free(134A) Refrigeration System			
Material	Internal	Stainless Steel (# 304)			
	External	Powder Coated Steel			
Shelves		3 Teflon Coated Steel Shelves of Adjustable Position			
Door Gasket		High Temperature Grade Foamed Silicone Rubber			
Viewing Window		Tempered Safety Inner Glass Door, 5 t			
Air Circulation		Forced Convection			
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker			
Others		UL Certified, CE Certified RS232C Interface for Monitoring and Controlling with PC Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)			
Packing Dimension (w×d×h) (mm)		900×1.000×1.550	900×1.000×1.950	1.100×1.100×2.050	1.200×1.200×2.260
Gross Weight		191 kg	217 kg	276 kg	317 kg
Power Consumption		1,3 kW	1,7 kW	1,9 kW	3 kW
Power plug type		Hybrid E+F			
Power Supply*		AC 230 V, 50 / 60 Hz			

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseCube® WIR Low Temperature (B.O.D) Incubators>

Application & Features

- * Variable Application : Animal & Plant Cell Culture, Constant Temperature, Germination Test, BOD Test, and so on.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * Intelligent Control of Refrigerator for Preventing Overload of Compressor.
- * RS232C Interface for Monitoring and Controlling with PC.
- * Superior Temperature Uniformity by Forced Convection.
- * Stainless Steel Chamber and Teflon-Coated Shelves - Corrosion Resistance.
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- * Storage Function : Alarm & Timer.
- * Back-Light LCD Display.
- * Locking Mode Supported for Experimental Safety. (Input to Jog - Shuttle can be Disabled)
- * CFC-free (134A) Refrigeration System.
- * Patented Jog-Shuttle Control System.
- * UL Certified.
- * CE Certified.



Teflon Coated Steel Wire Shelves

Ordering Information

- DH.WIR01150 Low Temperature(B.O.D) Incubator, **WIR-150**, 150 Lit, 0 °C~60 °C
 DH.WIR01250 , **WIR-250**, 250 Lit, 0 °C~60 °C
 DH.WIR01420 , **WIR-420**, 420 Lit, 0 °C~60 °C
 DH.WIR01700 , **WIR-700**, 700 Lit, 0 °C~60 °C

Spare Accessories

- DH.WIR11150 Wire Shelf, Teflon Coated Steel, **IRS150**,
 for **WIR-150 / -250**, w 470×d 480 mm
 DH.WIR11420 Wire Shelf, Teflon Coated Steel, **IRS420**,
 for **WIR-420**, w 670×d 580 mm

Validation (IQ, OQ & PQ) Service

- DH.WIR31150 Validation Service(IQ, OQ & PQ), **IRV150**, for **WIR-150**
 DH.WIR31250 , **IRV250**, for **WIR-250**
 DH.WIR31420 , **IRV420**, for **WIR-420**
 DH.WIR31700 , **IRV700**, for **WIR-700**
- DH.WIR41150 Calibration Certificate Service, 1 & 3 points, **IRC0150**, for **WIR-150**
 DH.WIR41250 , 1 & 3 points, **IRC0250**, for **WIR-250**
 DH.WIR41420 , 1 & 3 points, **IRC0420**, for **WIR-420**
 DH.WIR41700 , 1 & 3 points, **IRC0700**, for **WIR-700**
- DH.WIR51150 Calibration Certificate Service, 9 points, **IRC1150**, for **WIR-150**
 DH.WIR51250 , 9 points, **IRC1250**, for **WIR-250**
 DH.WIR51420 , 9 points, **IRC1420**, for **WIR-420**
 DH.WIR51700 , 9 points, **IRC1700**, for **WIR-700**

WiseRemote® Remote Control Software - standard delivery

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



Main Screen



RS232C Cable & Software

"witeg" **WiseCube® WIS-30** Precise Shaking Incubator, Front Door Type, Orbital Motion

Digital Fuzzy Control, Advanced Shaking Mechanism, Quiet Shaking, Precise Speed Control, up to 60 °C, 30~250 rpm



Precise Shaking Incubator, Front Door Type (WIS-30)

- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified

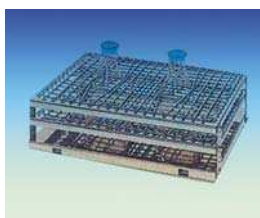
Application & Features

- * 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 Display 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 1.000 ml
- * Universal Spring Rack for Various Shapes/Size of Flasks. (Optional)
- * Automatic Stop of Shaking, Heating and Refrigeration when the Door is Opened.
- * Over Temperature & Over Current Protection and Leakage Breaking.
- * Patented Jog-Shuttle Control System.
- * CE Certified.

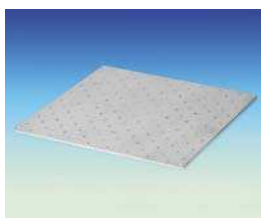
Specification

Model		WIS-30	WIS-30R
Dimension (w × d × h)	Internal (mm)	570 × 465 × 470	
	External (mm)	916 × 730 × 683	
System		None	
Heater		600 W	800 W
Refrigerator		None	184 W
Temp.	Range	Ambient +5 °C ~ 60 °C	10 °C ~ 60 °C
	Accuracy	±0.1 °C at 25 °C	
	Uniformity	±0.5 °C at 25 °C	
Shaking	Speed	30 ~ 250 rpm	
	Stroke	25 mm Orbital Motion	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Display		Digital LCD Display with Back-Light Function	
Timer		99 hr 59 min (Continuous Function Included)	
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor
Refrigerant		None	CFC-Free(134A) Refrigeration System
Material	Inner	Stainless Steel (# 304)	
	Outer	Powder Coated Steel	
Platform		Universal Platform for Various Shapes & Sizes of Flasks	
Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1.000 ml)	
Maximum Capacity of	FH100	36 ea	
Flask Holder	FH250	20 ea	
	FH500	16 ea	
Safety Device		Over Temp Protector, Over Current & Leakage Breaker	
Others		CE Certified, Storage Function (Temp., Timer), Locking Mode (Jog-Shuttle Input Disabled) Alarm (for Error Status and Timer-end) Automatic Stop when Door is Opened	
Packing Dimension(w×d×h) (mm)		1.050 × 900 × 900	
Gross Weight		146 kg	156 kg
Power Consumption		600 W	1.3 kW
Power plug type		Hybrid E+F	
Power Supply*		AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.



Universal Spring Rack (SR530)



Universal Platform (SP630)



Flask Holders (FH500, FH250, FH100)

WiseRemote® Remote Control Software

- standard delivery

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



Main Screen



RS232C Cable & Software

Ordering Information

General Purpose-type, Ambient +5 °C ~ 60 °C

DH.WIS03010 Shaking Incubator, **WIS-30**, Ambient +5 °C~60 °C, with **SP630** Universal Platform

Refrigerated-type, 10 °C ~ 60 °C

DH.WIS03011 Shaking Incubator, **WIS-30R**, 10 °C~60 °C, with **SP630** Universal Platform

Optional Accessories

DH.WIS504530 Universal Spring Rack for WIS-30(R), **SR530**, w 498 × d 408 × h 135 mm

DH.WIS504630 Universal Platform for WIS-30(R), **SP630**, w 485 × h 405 mm

DH.WIS504030 Flask Holder, **FH100**, 50~100 ml, for **SHO, SHR** and **WIS**

DH.WIS504035 , **FH250**, 200~300 ml, for **SHO, SHR** and **WIS**

DH.WIS504040 , **FH500**, 500~1.000 ml, for **SHO, SHR** and **WIS**

Validation (IQ, OQ & PQ) Service

DH.WIS33010 Validation Service(IQ, OQ & PQ), **ISV3010**, for **WIS-30**

DH.WIS33011 , **ISV3011**, for **WIS-30R**

DH.WIS43010 Calibration Certificate Service, 1 & 3 points, **ISC03010**, for **WIS-30**

DH.WIS43011 , 1 & 3 points, **ISC03011**, for **WIS-30R**

DH.WIS53010 Calibration Certificate Service, 9 points, **ISC13010**, for **WIS-30**

DH.WIS53011 , 9 points, **ISC13011**, for **WIS-30R**

“witeg” WiseCube® WIS-20 Precise Shaking Incubator, BenchTop Type, Orbital Motion
 Digital Fuzzy Control, Advanced Shaking Mechanism, Quiet Shaking, Precise Speed Control, up to 60 °C, 30~250 rpm

- Useful for Biological Cultures under various Temperature
- Patented Jog-Shuttle Control System
- CE Certified

Application & Features

- * 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 Display with Back-Light Function.
- * Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control.
- * Automatic Stop of Shaking, Heating and Refrigeration when the Door is Opened.
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- * Accommodate Flasks up to 1.000 ml. * Stabilized Orbital Motion.
- * RS232C Interface for Monitoring and Controlling with PC.
- * Universal Spring Rack for Various Shapes/Sizes of Flasks is available. (Optional)
- * Patented Jog-Shuttle Control System. * CE Certified.

Specification

Model		WIS-20	WIS-20R
Dimension (w x d x h)	Internal (mm)	530 x 530 x 350	
	External (mm)	575 x 855 x 850	
Heater		500 W	700 W
Refrigerator		None	184 W
Temp.	Range	Ambient +5°C ~ 60°C	10 °C ~ 60 °C
	Accuracy	±0.1 °C at 37 °C	±0.1 °C at 25 °C
	Uniformity	±0.5 °C at 37 °C	±0.5 °C at 25 °C
Sensor		PT100	
Refrigerator	Speed	30 ~ 250 rpm	
	Stroke	25 mm Orbital Motion	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Display		Digital LCD Display with Back-Light Function	
Timer		99 hr 59 min (Continuous Function Included)	
Compressor Control		None	Intelligent Control of Refrigerator for Preventing Overload of Compressor
Refrigerant		None	CFC-Free(134A) Refrigeration System
Material	Internal	Stainless Steel (# 304)	
	External	Powder Coated Steel	
Room Lamp		Krypton Lamp, 60W	
Platform		Universal Platform for Various Shapes & Sizes of Flasks	
Flask Holder		Durable & Flexible Plastic Flask holder (up to 1.000 ml)	
Maximum Capacity of Flask Holder	FH100	36 ea	
	FH250	20 ea	
	FH500	16 ea	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker	
Others		CE Certified, Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end) Automatic Stop when Door is Opened	
Power Consumption		500 W	1,2 kW
Packing Dimension(w x d x h) (mm)		1.000 x 800 x 1.100	
Gross Weight		147 kg	150 kg
Power plug type		Hybrid E+F	
Power Supply*		AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.

Ordering Information

General Purpose-type, Ambient +5 °C ~ 60 °C

DH.WIS02010 Shaking Incubator, WIS-20, Ambient + 5 °C ~60 °C with SP600 Universal Platform

Refrigerated-type, 10 °C ~ 60 °C

DH.WIS02011 Shaking Incubator, WIS-20R, 10 °C~60 °C, with SP600 Universal Platform

Optional Accessories

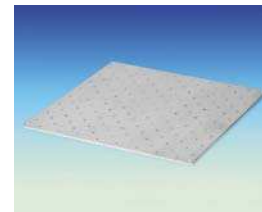
- DH.WIS504500 Universal Spring Rack for WIS-20(R), SR500, w 483 x d 483 x h 135 mm
- DH.WIS504600 Universal Platform for WIS-20(R), SP600, w 478 x d 478 mm
- DH.WIS504030 Flask Holder, FH100, 50-100 ml, for SHO, SHR and WIS
- DH.WIS504035 , FH250, 200-300 ml, for SHO, SHR and WIS
- DH.WIS504040 , FH500, 500-1.000 ml, for SHO, SHR and WIS

Validation (IQ, OQ & PQ) Service

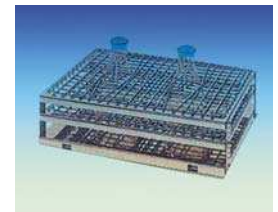
- DH.WIS32010 Validation Service(IQ, OQ & PQ), ISV2010, for WIS-20
- DH.WIS32011 , ISV2011, for WIS-20R
- DH.WIS42010 Calibration Certificate Service, 1 & 3 points, ISC02010, for WIS-20
- DH.WIS42011 , 1 & 3 points, ISC02011, for WIS-20R
- DH.WIS52010 Calibration Certificate Service, 9 points, ISC12010, for WIS-20
- DH.WIS52011 , 9 points, ISC12011, for WIS-20R



Precise Shaking Incubator, BenchTop Type (WIS-20R)



Universal Platform (SP600)



Universal Spring Rack (SR500)



Flask Holders (FH500, FH250, FH100)

WiseRemote® Remote Control Software

- standard delivery

Connection of WIS-20 Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software

“witeg” **WiseCube® WIS-10** Precise Shaking Incubator, Top Door Type, Orbital Motion with Digital Fuzzy Control, up to 60 °C, 30~250 rpm, with or without illuminators & Recorder



Precise Shaking Incubator, Top Door Type (WIS-10R)

- Useful for Biological Cultures under various Temperature
- **Patented Jog-Shuttle Control System**
- CE Certified

Application & Features

- * Useful for Biological Cultures under various Temperature.
- * Precise Temperature Control by Digital Fuzzy Controller, up to 60 °C
- * Digital LCD Display 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 the Door is Opened.
- * Universal Spring Rack for Various Shapes/Sizes of Flasks is available. (Optional)
- * RS232C Interface for Monitoring and Controlling with PC.
- * **Patented Jog-Shuttle Control System.**
- * CE Certified.

Specification

Model		WIS-10	WIS-10R	WIS-10RL
Dimension (w×d×h)	Internal (mm)	750 × 720 × 400		
	External (mm)	1.065 × 900 × 980		
System		None		FRL 55W × 4
Heater		800 W	1,2 kW	
Refrigerator		None	245 W	
Temp.	Range	Ambient +5 °C ~ 60 °C	10 °C ~ 60 °C	
	Accuracy	±0.1 °C at 37 °C	±0.1 °C at 25 °C	
	Uniformity	±0.5 °C at 37 °C	±0.5 °C at 25 °C	
	Sensor	PT100		
Shaking	Speed	30 ~ 250 rpm		
	Stroke	25 mm Orbital Motion		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Display		Digital LCD with Back-Light Function		
Timer		99 hr 59 min (Continuous Function Included)		
Compressor Control		None	Intelligent Control of Refrigerator for Preventing Overload of Compressor	
Refrigerant		CFC-Free (R134A) Refrigeration System		
Material	Internal	Stainless Steel (# 304)		
	External	Powder Coated Steel		
Room Lamp		Krypton Lamp, 60 W		
Platform		Universal Platform for various Shapes & Size of Flask		
Flask Holder		Durable & Flexible Plastic Flask holder (up to 1.000ml)		
Maximum Capacity of Flask Holder	FH100	72 ea		
	FH250	36 ea		
	FH500	25 ea		
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker		
Others		CE Certified Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end) Automatic Stop When Door is Opened		
Packing Dimension (w×d×h) (mm)		1.220 × 1.060 × 1.200		
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 230 V, 50 / 60 Hz		

* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" **WiseCube® WIS-10** Precise Shaking Incubator>

Ordering Information

General Purpose-type, Ambient +5 °C ~ 60 °C

DH.WIS01010 Shaking Incubator, **WIS-10**, Ambient + 5 °C ~ 60 °C, with **SP610** Universal Platform

Refrigerated-type, 10 °C ~ 60 °C

DH.WIS01011 Shaking Incubator, **WIS-10R**, 10 °C ~ 60 °C with **SP610** Universal Platform

DH.WIS01012 Shaking Incubator, **WIS-10RL**, 10 °C ~ 60 °C with **SP610** Universal Platform and **illuminators**

DH.WIS01013 Shaking Incubator, **WIS-10RLC**, 10 °C ~ 60 °C, with **SP610** Universal Platform, **illuminators** and **Recorder**
Packing Dimension w 1.220 × d 1.060 × h 1.200 mm, Gross Weight 238 kg

Optional Accessories

DH.WIS504510 **Universal Spring Rack** for WIS-10(R/RL/RLC), **SR510**, w 693 × d 653 × h 135 mm

DH.WIS504610 **Universal Platform** for WIS-10(R/RL/RLC), **SP610**, w 688 × d 648 mm

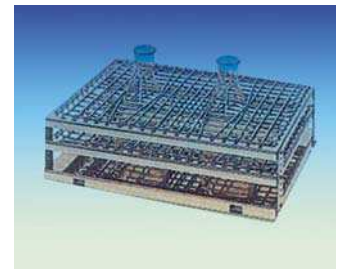
DH.WIS504030 **Flask Holder**, **FH100**, 50~100 ml, for **SHO**, **SHR** and **WIS**
DH.WIS504035 , **FH250**, 200~300 ml, for **SHO**, **SHR** and **WIS**
DH.WIS504040 , **FH500**, 500~1.000 ml, for **SHO**, **SHR** and **WIS**

Validation (IQ, OQ & PQ) Service

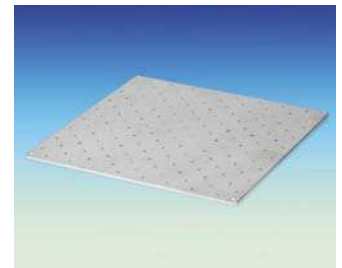
DH.WIS31010 Validation Service(IQ, OQ & PQ), **ISV1010**, for **WIS-10**
DH.WIS31011 , **ISV1011**, for **WIS-10R**
DH.WIS31012 , **ISV1012**, for **WIS-10RL**
DH.WIS31013 , **ISV1013**, for **WIS-10RLC**

DH.WIS41010 Calibration Certificate Service, 1 & 3 points, **ISC01010**, for **WIS-10**
DH.WIS41011 , 1 & 3 points, **ISC01011**, for **WIS-10R**
DH.WIS41012 , 1 & 3 points, **ISC01012**, for **WIS-10RL**
DH.WIS41013 , 1 & 3 points, **ISC01013**, for **WIS-10RLC**

DH.WIS51010 Calibration Certificate Service, 9 points, **ISC11010**, for **WIS-10**
DH.WIS51011 , 9 points, **ISC11011**, for **WIS-10R**
DH.WIS51012 , 9 points, **ISC11012**, for **WIS-10RL**
DH.WIS51013 , 9 points, **ISC11013**, for **WIS-10RLC**



Universal Spring Rack (SR510)



Universal Platform (SP610)



Flask Holders (FH500, FH250, FH100)

WiseRemote® Remote Control Software - standard delivery
Connection of **Wisdom** Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software

“witeg” **WiseCube® WIS-ML** Multi-Stack Refrigerated Shaking Incubator, Orbital Motion

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)

Patented Control System (No. 10-0554098)

1 or 2 Mode Buttons + Jog Shuttle Switch
Realize “Easy to Use”

- Excellent for Multi-use and wide range of Sample Testing under various Temperature
- **Patented Jog-Shuttle Control System**
- CE Certified

Application & Features

- * Excellent for Multi-use and wide range of Sample Testing under various Temperature.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * Intelligent Control of Refrigerator for Preventing Overload of Compressor.
- * High-Quality LCD Display 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)
- * **Patented Jog-Shuttle Control System.**
- * CE Certified.

Specification

Model		WIS-ML02	WIS-ML04
Dimension (w×d×h)	Internal (mm)	700×700×1.100	700×700×1.790
	External (mm)	1.290×850×1.445	1.290×850×2.125
Stack		2 Stacks	4 Stacks
Heater		1,5 kW	1,8 kW
Refrigerator		368 W	552 W
Temp.	Range	10 °C ~ 60 °C	
	Accuracy	±0.1 °C at 25 °C	
	Uniformity	±1.0 °C at 25 °C	
	Sensor	PT100	
Shaking	Speed	30 ~ 250 rpm	
	Stroke	25 mm Orbital Motion	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Display		Digital LCD Display with Back-Light Function	
Timer		99 hr 59 min (Continuous Function Included)	
Compressor Control		Intelligent Control of Refrigerator for Preventing Overload of Compressor	
Refrigerant		CFC-Free(134A) Refrigeration System	
Door		Magnetic Packing Door with Pair Glass	
Material	Internal	Stainless Steel (# 304)	
	External	Powder Coated Steel	
Plate Size (w × d mm)		700 × 600	
Platform		Universal Platform for Various Shapes & Size of Flask	
Flask Holder		Durable & Flexible Plastic Flask holder (up to 1.000 ml)	
Capacity of Flask Holder	FH100	62 ea / Universal Platform	
	FH250	36 ea / Universal Platform	
	FH500	25 ea / Universal Platform	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector	
Others		CE Certified Storage Function (Temp., Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end) Automatic Stop When Door is Opened	
Packing Dimension (w×d×h) (mm)		1.500×1.200×1.750	1.500×1.200×2.350
Gross Weight		397 kg	555 kg
Power Consumption		2,4 kW	3,2 kW
Power plug type		Hybrid E+F	
Power Supply*		AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.

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Cat. No	Description
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Articles

<Continued from... "witeg" **WiseCube® WIS-ML** Multi-Stack Refrigerated Shaking Incubator>

Ordering Information

2-Stackers Type

DH.WIS05002 Multi-Stack Shaking Incubator, **WIS-ML02**, 2 Stacks 10~60 °C, 20~250 rpm, with 2 ea × **SP620** Universal Platform

4-Stackers Type

DH.WIS05004 Multi-Stack Shaking Incubator, **WIS-ML04**, 4 Stacks 10~60 °C, 20~250 rpm, with 4 ea × **SP620** Universal Platform

Optional Accessories

DH.WIS504520 Universal Spring Rack for WIS-ML02/04, **SR520**, w 653 × d 653 × h 135 mm

DH.WIS504620 Universal Platform for WIS-ML02/04, **SP620**, w 645 × d 645 mm

DH.WIS504030 Flask Holder, **FH100**, 50~100 ml, for **SHO, SHR** and **WIS**

DH.WIS504035 , **FH250**, 200~300 ml, for **SHO, SHR** and **WIS**

DH.WIS504040 , **FH500**, 500~1.000 ml, for **SHO, SHR** and **WIS**

Validation (IQ, OQ & PQ) Service

DH.WIS35002 Validation Service(IQ, OQ & PQ), **ISV5002**, for **WIS-ML02**

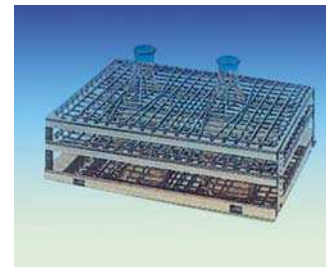
DH.WIS35004 , **ISV5004**, for **WIS-ML04**

DH.WIS45002 Calibration Certificate Service, 1 & 3 points, **ISC05002**, for **WIS-ML02**

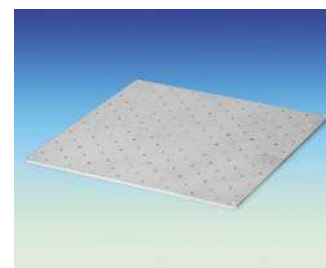
DH.WIS45004 , 1 & 3 points, **ISC05004**, for **WIS-ML04**

DH.WIS55002 Calibration Certificate Service, 9 points, **ISC15002**, for **WIS-ML02**

DH.WIS55004 , 9 points, **ISC15004**, for **WIS-ML04**



Universal Spring Rack (SR520)



Universal Platform (SP620)



Flask Holders (FH500, FH250, FH100)

WiseRemote® Remote Control Software - standard delivery

Connection of **Wis²** Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software

“witeg” **Wisemix® BML** Programmable Ball Mill, 2- /6- Pots

Digital Feedback Controller, Digital LCD, up to 600 rpm, ±5 rpm, 10 Steps 6 Programs



Programmable Ball Mill (BML-2)

- Microprocessor, Programmable, Up to 600 rpm
- Digital Feedback Control and LCD Display : Speed (RPM), Power Bar-Graph, Timer Status
- CE Certified

Application & Features

- * Microprocessor, Programmable, Up to 600 rpm.
- * Digital Feedback Control and LCD Display : Speed (RPM), Power Bar-Graph, Timer Status.
- * Digital LCD with Back-Light Function.
- * Ergonomic and Compact Design.
- * NBR Roller with Pot Guide Ring.
- * Programmable Operation : 10 Steps 6 Programs.
- * Over Load Protection.
- * Soundproof Cabinet for Safety and Minimum Noise. (Optional)
- * CE Certified.

Specification

Model		BML-2	BML-6
Dimension (w×d×h)	Roller (mm)	50×300	70×800
	External (mm)	620×300×515	1.200×500×795
Capacity		up to 2 pots	up to 6 pots
Maximum Load		40 kg	120 kg
Motor		DC 40 W Geared Motor (5 : 1 ratio), 100 W	
Speed		Max. 600 rpm	
Controller		Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn+Push)	
Program Function		10 Steps, 6 Programs	
Speed Accuracy		± 5 rpm	
Display		Digital LCD Display with Back -Light Function	
Timer		99 hr 59 min (Programmable)	
Safety Device		Over Load Protector for Motor	
Others		CE Certified Storage Function (RPM, Timer)	
Packing Dimension (w×d×h) (mm)		760×460×700	1.300×620×1.010
Gross Weight		52 kg	115 kg
Power Consumption		40 W	
Power plug type		Hybrid E+F	
Power Supply*		AC 230 V, 50 / 60 Hz	

* Other Specifications are available upon Customer's Request.



Minimum Noise and Safety Soundproof Cabinet (BMC-6)



Programmable Ball Mill (BML-6)

Ordering Information

Standard Open-type , For 2~6 Pots

- DH.WBM05002 Ball Mill, **BML-2**, φ 50×L 300 mm Roller, for up to 2 Pots
 DH.WBM05006 , **BML-6**, φ 70×L 800 mm Roller, for up to 6 Pots

Soundproof Cabinet

- DH.WBM050102 Soundproof Cabinet, **BMC2**, for **BML-2**, w 1.020×d 570×h 1.120 mm
 DH.WBM050106 , **BMC6**, for **BML-6**, w 1.600×d 770×h 1.400 mm