Articles

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DAIHAN-brand[®] 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×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

Stack & Model		2 Stacks "WIS-ML02"	4 Stacks "WIS-ML04"
Temp. Range & Accuracy		10°C ~ 60°C, ±0.2°C at 37°C	
Temp. Uniformity & Sensor		±1.0°C at 37, PT100 Sensor	
Heater		1.5 kW	1.8 kW
Compressor		1/2 HP	3/4 HP
Compressor Control		Intelligent Control of Refrigerator for Preventing Overload of Compressor	
Refrigerant		CFC-Free(134A) Refrigeration System	
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Door		Magnetic Packing Door with Pair Glass	
Plate Size		w700×d600mm	
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 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 "F	H500", for 500~1,000ml Flask
Safety Circuit		Over Temp./ Current Protector, Sensor Error Detector	
Material		Internal : Stainless steel (#304),	External : Powder Coated steel
Dimension	internal (mm)	700×700×1,100	700×700×1,790
(w×d×h) I	External (mm)	1,290×850×1,445	1,290×850×2,125
Packing Size (w×d×h) (mm) & Gross Weight		1,500×1,200×1,750	1,500×1,200×2,350
		397 kg	555 kg
Power Consumption		2.4 kW	3.2 kW
Power Supply*		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz	1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase 380V, 50/60Hz

* Other Specifications are available upon Customer's Request.

Ordering Information

2-Stackers Refrigerated Shaking Incubator, with 2 × Universal Platform DH.WIS05002 Multi-Stack Shaking Incubator, 1Phase, 230V, "WIS-ML02" DH.WIS05102 , 120V, "WIS-ML02"

4-Stackers Refrigerated Shaking Incubator, with 4 × Universal Platform DH.WIS05004 Multi-Stack Shaking Incubator, 1Phase, 230V, "WIS-ML04" DH.WIS05104 , 120V, "WIS-ML04" DH.WIS03004 , 3Phase, 380V, "WIS-ML04"

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Optional Platform/Spring Rack/Flask Holders

DH.WIS504620	(1) Universal Platform, w645 × h645mm, "SP620", for "WIS-ML02/04"
DH.WIS504520	(2) Universal Spring Rack, w653×d653×h135mm, "SR520", for "WIS-ML02/04"
DH.WIS504030	(3) Flask Holder, for 50~100ml Flask, "FH100", for "SHO", "SHR" and "WIS"
DH.WIS504035	(4) Flask Holder, for 200~300ml Flask, "FH250", for "SHO", "SHR" and "WIS"
DH.WIS504040	(5) Flask Holder, for 500~1000ml Flask, "FH500", for "SHO", "SHR" and "WIS"

Validation (IQ, OQ) Service

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





(1) Universal Platform "SP620" (Included)



Flask Holders (Optional)





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

WiseRemote® Remote Control Software

Connection of *Wisd*.²² Temperature Devices with Interface RS232C to a PC Export Recorded Data (Excel Spreadsheet)







RS232C Cable & Software