

- High-Clean Air Ovens
- Ovens, Gravity/Natural-Flow Type
- Ovens, Horizontal /Forced-Flow
- Precise Vacuum Ovens
- Industrial Forced Convection Ovens

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

UL Certified Ovens – WON, WOF & WOV 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.

► High-Clean Air Oven



WOC-500

► Oven, Gravity/Natural-Flow Type



WON-155

► Precise Vacuum Oven



WOV-30

“witeg” WiseVen® WOC High Clean Air Oven, with Class 100 HEPA Filter, 560-/800- Lit.
 Digital Fuzzy Control, Clean Air Convection Mechanism, up to 250 °C, ± 1,0 °C



High Clean Air Oven, with HEPA Filter (WOC-560)

Patented Control System
(No. 10-0554098)

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

- Specially Designed Clean Air Convection Mechanism Provides Dynamic Air Flow for Exhaust of Contaminated Air from the Chamber and Supply of Filtered Clean Air into the Chamber
- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- **Patented Jog-Shuttle Control System**
- CE Certified

Application & Features

- * Suitable for Critical Clean Application such as Electronics, Semiconductor, Pharmaceutical and Clinical Applications-Class 100 HEPA Filter is Used.
- * Specially Designed Clean Air Convection Mechanism Provides Dynamic Air Flow for Exhaust of Contaminated Air from the Chamber and Supply of Filtered Clean Air into the Chamber.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * RS232C Interface for Remote Controlling with PC.
- * Storage Function : Set Values of Temperature and Timer.
- * Locking Mode Supported for Experimental Safety. (Input to Jog-Shuttle can be Disabled)
- * Over Temperature & Over Current Protection, Sensor Error Detection.
- * **Patented Jog-Shuttle Control System** and Back-Light LCD Display.
- * CE Certified.

Specification

Model		WOC-560	WOC-800
Interior Dimension	Size (w×d×h) (mm)	800×700×1.000	1.000×800×1.000
	Load per Rack	15 kg	
	Permitted Total Load	40 kg	80 kg
	Weight of the Unit (empty)	336 kg	377 kg
Exterior Dimension	Size (w×d×h) (mm)	1.000×1.155×1.735	1.500×1.200×1.900
	Wall Clearance Rear	150 mm	
	Wall Clearance Side	150 mm	
	Exhaust Duct Outer	φ 40 mm	
Capacity		560 Lit.	800 Lit.
Temp.	Range	Ambient +5 °C to 250 °C	
	Accuracy	± 1,0 °C	
	Uniformity	± 2,0 °C at 200 °C	
	Sensor	PT100	
Clean Air		HEPA Filter Class 100 for High Temperature	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch(Turn+Push)	
Display		Digital LCD Display with Back-Light Function	
Verification		Timer Operated Verification System	
Material	Internal	Stainless Steel (# 304)	
	External	Powder Coated Steel	
	Insulation	Glass Wool	
Shelves		3 ea of Chrome Coated Steel Shelves of Adjustable Position	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector	
Others		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)		1.200×1.400×2.120	1.700×1.400×2.270
Gross Weight		386 kg	446 kg
Power Consumption		6,5 kW	9,4 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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Ordering Information

DH.WOC00560 High Clean Air Oven, **WOC-560**, 560 Lit., Ambient +5~250 °C
 DH.WOC00800 , **WOC-800**, 800 Lit., Ambient +5~250 °C

Spare Accessories

DH.WOC10560 Wire Shelf, Chrome Coated Steel, **OCS560**,
 780×680, for **WOC-560**

DH.WOC10800 Wire Shelf, Chrome Coated Steel, **OCS800**,
 980×880, for **WOC-800**

Optional Accessories

DH.WOCN2GIN N₂ Gas Inlet Device, **WOC-N2GIN**

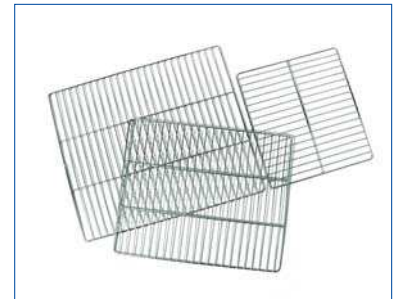
DH.WTH05010 RS485 PC Communication Interface, **WTH5010**

Validation (IQ, OQ & PQ) Service

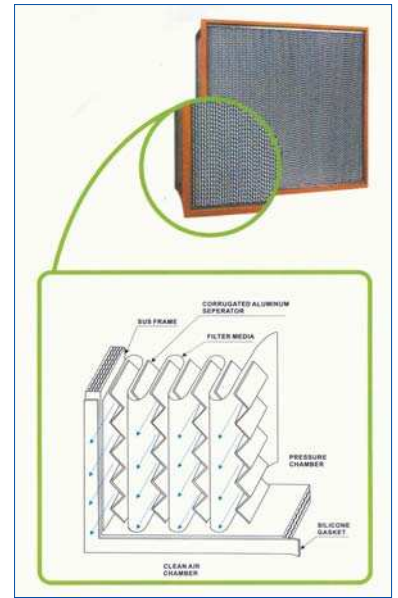
DH.WOC30560 Validation Service(IQ, OQ & PQ), **OCC560**, for **WOC-560**
 DH.WOC30800 , **OCC800**, for **WOC-800**

DH.WOC40560 Calibration Certificate Service, 1 & 3 points, **OCC0560**, for **WOC-560**
 DH.WOC40800 , 1 & 3 points, **OCC0800**, for **WOC-800**

DH.WOC50560 Calibration Certificate Service, 9 points, **OCC1560**, for **WOC-560**
 DH.WOC50800 , 9 points, **OCC10800**, for **WOC-800**



Chrome Coated Steel Wire Shelves



High Temp. HEPA Filter

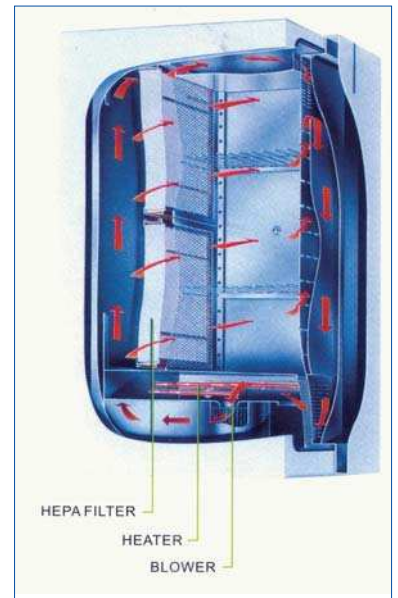
WiseRemote® Remote Control Software - standard delivery
 Connection of **Wisdom** Temperature Devices with Interface RS232C
 to a PC Export Recorded Data (Excel Spreadsheet)



Main Screen



RS232C Cable & Software



High Efficiency and High Clean Air Convection Mechanism

“witeg” **WisVen® WOF** Ovens, Horizontal-Flow, Forced-Air Type, 50- / 105- / 155- / 305- Lit. Digital Fuzzy Control, Maximum Temperature Uniformity, Perfect Head Insulation, up to 250 °C, ±0,3 °C



Oven, Horizontal-Flow Type, Standard Model (WOF-155)

- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- Optimized Air Flow by Forced Convection Mechanism
- **Patented Jog-Shuttle Control System**
- UL Certified ■ CE Certified

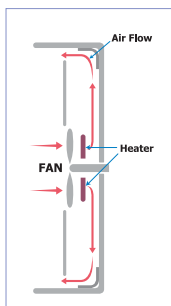
Specification

Model		Standard Model, without Window					
		WOF-50	WOF-105	WOF-155	WOF-305		
			Built-in Viewing Window Model				
		WOF-W105	WOF-W155	WOF-W305			
Interior Dimension	Size (w × d × h) (mm)	370 × 340 × 420	485 × 405 × 535	550 × 470 × 600	550 × 470 × 1.180		
	Load per Rack	15 kg					
	Permitted Total Load	25 kg			40 kg		
	Weight of the Unit (empty)	51 kg	70 kg	90 kg	158 kg		
Exterior Dimension	Size (w × d × h) (mm)	535 × 620 × 733	656 × 685 × 891	721 × 750 × 956	721 × 800 × 1.619		
	Wall Clearance Rear	150 mm					
	Wall Clearance Side	150 mm					
	Exhaust Duct Outer	φ 40 mm					
Capacity		50 Lit.	105 Lit.	155 Lit.	305 Lit.		
Heater		0,9 kW	1,2 kW	1,7 kW	3,2 kW		
Temp.	Range	Ambient + 5 °C to 250 °C					
	Accuracy	± 0,1 °C at 70 °C, ± 0,2 °C at 150 °C, ± 0,3 °C at 230 °C		± 0,3 °C at 70 °C, ± 0,3 °C at 150 °C, ± 0,5 °C at 230 °C			
	Uniformity	± 1 % of the reached Temp.					
	Sensor	PT100					
Heating-up Time		8 min. to 70 °C, 14 min. to 150 °C, 22 min. to 230 °C	8 min. to 70 °C, 14 min. to 150 °C, 22 min. to 230 °C	8 min. to 70 °C, 16 min. to 150 °C, 25 min. to 230 °C	10 min. to 70 °C, 19 min. to 150 °C, 29 min. to 230 °C		
Temp. Recovery Time (After Door was opened for 30sec)		2 min. at 70 °C, 4 min. at 150 °C, 7 min. at 230 °C	2 min. at 70 °C, 5 min. at 150 °C, 9 min. at 230 °C	2 min. at 70 °C, 5 min. at 150 °C, 10 min. at 230 °C	2 min. at 70 °C, 5 min. at 150 °C, 11 min. at 230 °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	Glass Wool					
	Viewing Window	Tempered Safety Glass, 2 Fold, 5T					
Shelves		Stainless Steel Shelves of Adjustable Position					
Door Gasket		2 ea		3 ea			
		High Temperature Grade Foamed Silicone Rubber					
Ventilation		Stainless Steel Cap, Dia. 40 mm					
Circulation		1 ea	2 ea				
Safety Device		Forced Convection-Blower FAN					
		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., Time) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)					
Packing Dimension (w × d × h) (mm)		572 × 660 × 840	710 × 762 × 970	790 × 790 × 1.090	1.000 × 1.000 × 1.870		
Gross Weight		58 kg	78 kg	100 kg	219 kg		
Power Consumption		900 W	1,2 kW	1,7 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.



Oven, Horizontal-Flow Type, Built-in Viewing Window Model (WOF-W155)



Forced Convection Mechanism



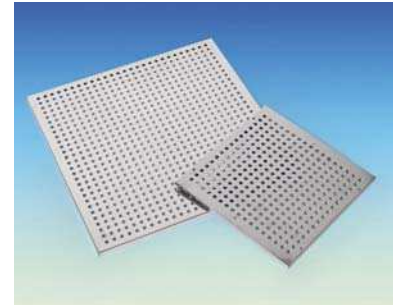
Rear-side Fan/Heater Mechanism for Maximum Temp. Uniformity

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<Continued from... "witeg" **WiseVen® WOF** Ovens, Horizontal-Flow>

Application & Features

- * Suitable for Drying, Baking, Conditioning, Curing, Pre-Heating and Aging.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD Display with Back-Light Function Used.
- * RS232C Interface for Remote Monitoring and Controlling with PC.
- * Ambient +5 °C to 250 °C Range with Accuracy of ±0,3 °C
- * Maximum Temp. Uniformity by Forced Convection : Rear-Side Fan/Heater Mechanism. (±1 % uniformity)
- * Corrosion Resistant 304 Stainless Steel Chamber and Shelves.
- * Perfect Heat Insulation Made by Heat-Resistant Rubber Packing and Air Flow Layer (AFL).
- * Over Temperature & Over Current Protector and Sensor Error Detector.
- * 2~3 Stainless Steel shelves are Included.
- * **Patented Jog-Shuttle Control System.**
- * UL Certified.
- * CE Certified.



Stainless Steel Perforated Shelves

Ordering Information

Standard Model

- DH.WOF01050** Oven, Forced-Air Convection, Standard, **WOF-50**, 50 Lit.
DH.WOF02105 , **WOF-105**, 105 Lit.
DH.WOF02155 , **WOF-155**, 155 Lit.
DH.WOF02305 , **WOF-305**, 305 Lit.

※ Ambient +5~250 °C, Digital Fuzzy Controller with Jog-Shuttle Switch

Built in Viewing Window Model

- DH.WOF01105** Oven, Forced-Air Convection, Viewing Window, **WOF-W105**, 105 Lit.
DH.WOF01155 , **WOF-W155**, 155 Lit.
DH.WOF01305 , **WOF-W305**, 305 Lit.

※ Viewing Window Ambient +5 ~ 250 °C, Digital Fuzzy Controller with Jog-Shuttle Switch

Spare Accessories

- DH.WON11050** Wire Shelf, Stainless Steel, **ONS050**, for 50 Lit., w 340 × d 310 mm
DH.WON11105 , **ONS105**, for 105 Lit., w 455 × d 375 mm
DH.WON11155 , **ONS155**, for 155 Lit./305Lit., w 520 × d 440 mm

Optional Accessories

- DH.WON21050** Perforated Shelf, Stainless Steel, **ONPS050**, for 50 Lit., w 340 × d 310 mm
DH.WON21105 , **ONPS105**, for 105 Lit., w 455 × d 375 mm
DH.WON21155 , **ONPS155**, for 155 Lit./305 Lit., w 520 × d 440 mm

Validation (IQ, OQ & PQ) Service

- DH.WOF31050** Validation Service(IQ, OQ & PQ), **OFV1050**, for **WOF-50**
DH.WOF31105 , **OFV1105**, for **WOF-105**
DH.WOF31155 , **OFV1155**, for **WOF-155**
DH.WOF31305 , **OFV1305**, for **WOF-305**
DH.WOF32105 Validation Service(IQ, OQ & PQ), **OFV2105**, for **WOF-W105**
DH.WOF32155 , **OFV2155**, for **WOF-W155**
DH.WOF32305 , **OFV2305**, for **WOF-W305**
DH.WOF41050 Calibration Certificate Service, 1 & 3 points, **OFC1050**, for **WOF-50**
DH.WOF41105 , 1 & 3 points, **OFC1105**, for **WOF-105**
DH.WOF41155 , 1 & 3 points, **OFC1155**, for **WOF-155**
DH.WOF41305 , 1 & 3 points, **OFC1305**, for **WOF-305**
DH.WOF42105 , 1 & 3 points, **OFC2105**, for **WOF-W105**
DH.WOF42155 , 1 & 3 points, **OFC2155**, for **WOF-W155**
DH.WOF42305 , 1 & 3 points, **OFC2305**, for **WOF-W305**
DH.WOF51105 Calibration Certificate Service, 9 points, **OFC3105**, for **WOF-105**
DH.WOF51155 , 9 points, **OFC3155**, for **WOF-155**
DH.WOF51305 , 9 points, **OFC3305**, for **WOF-305**
DH.WOF52105 , 9 points, **OFC4105**, for **WOF-W105**
DH.WOF52155 , 9 points, **OFC4155**, for **WOF-W155**
DH.WOF52305 , 9 points, **OFC4305**, for **WOF-W305**



Stainless 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” **WiseVen® WON** Ovens, Gravity/Natural-Flow Type, 32- / 50- / 105- / 155- / 305- Lit. Digital Fuzzy Control & Superior Temperature Accuracy, Optimized Air Flow by Natural Convection, up to 230 °C, ±0,3 °C



Oven, Gravity/Natural-Flow Type, Standard Model (WON-155)

- Digital Fuzzy Control System Implementing Superior Temperature Accuracy
- Optimized Air Flow by Natural Convection
- Patented Jog-Shuttle Control System
- UL Certified ■ CE Certified

Specification

Model		Standard Model, without Window				
		WON-32	WON-50	WON-105	WON-155	WON-305
				Built-in Viewing Window Model		
		WON-W105	WON-W155	WON-W305		
Interior Dimension	Size (w×d×h)(mm)	310×290×360	370×350×420	485×595×535	550×475×600	550×475×1.180
	Load per Rack	15 kg				
	Permitted Total Load	25 kg				40 kg
Exterior Dimension	Weight of the Unit (empty)	31 kg	47 kg	67 kg	83 kg	145 kg
	Size (w×d×h)(mm)	475×530×673	535×620×733	656×685×891	721×750×956	721×800×1.682
	Wall Clearance Rear	150 mm				
Capacity	Wall Clearance Side	150 mm				
	Exhaust Duct Outer	φ 40 mm				
Capacity		32 Lit.	50 Lit.	105 Lit.	155 Lit.	305 Lit.
Heater		800 W	1 kW	1,5 kW	1,7 kW	3,4 kW
Temp.	Range	Ambient + 5 °C ~ 230 °C				
	Accuracy	± 0,3 °C at 70 °C, ± 0,5 °C at 150 °C, ± 0,8 °C at 230 °C		± 0,5 °C at 70 °C, ± 0,7 °C at 150 °C, ± 0,9 °C at 230 °C		
	Uniformity	± 2 % of the Reached Temp.				
	Sensor	PT100				
Control Sensitivity		± 1,0 °C				
Heating-up Time		8 min. to 70 °C, 14 min. to 150 °C, 35 min. to 230 °C	8 min. to 70 °C, 18 min. to 150 °C, 45 min. to 230 °C	6 min. to 70 °C, 17 min. to 150 °C, 54 min. to 230 °C	15 min. to 70 °C, 19 min. to 150 °C, 55 min. to 230 °C	17 min. to 70 °C, 22 min. to 150 °C, 59 min. to 230 °C
Temp. Recovery Time (After Door was opened for 30sec)		2 min. at 70 °C, 5 min. at 150 °C, 9 min. at 230 °C	2 min. at 70 °C, 9 min. at 150 °C, 13 min. at 230 °C	2 min. at 70 °C, 8 min. at 150 °C, 14 min. at 230 °C	5 min. at 70 °C, 11 min. at 150 °C, 17 min. at 230 °C	4 min. at 70 °C, 15 min. at 150 °C, 22 min. at 230 °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	Glass Wool				
	Viewing Window	Tempered Safety Glass, 2 Fold, 5T				
Shelves		Stainless Steel Shelves of Adjustable Position				
Door Gasket		High Temperature Grade Foamed Silicone Rubber				
	Ventilation	Stainless Steel Cap, Dia. 40 mm				
Circulation		Gravity Convection Type				
	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., Time) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)				
Packing Dimension (w×d×h) (mm)		500×580×780	570×660×840	710×750×970	790×790×1.090	1.000×1.000×1.950
Gross Weight		38 kg	54 kg	74 kg	90 kg	204 kg
Power Consumption		800 W	1 kW	1,5 kW	1,7 kW	3,4 kW
Power plug type		Hybrid E+F				
Power Supply*		AC 230 V, 50 / 60 Hz				

* Other Specifications are available upon Customer's Request.



Oven, Gravity/Natural-Flow Type, Built-in Viewing Window Model (WON-W155)



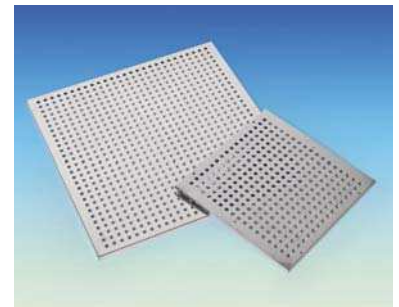
Heating Layer Embedded under the Chamber for Natural Convection

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<Continued from... "witeg" **WiseVen® WON** Ovens, Gravity/Natural-Flow Type >

Application & Features

- * Suitable for Drying, Baking, Conditioning, Curing, Pre-Heating and Aging.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * High-Quality LCD Display with Back-Light Function Used.
- * RS232C Interface for Remote Monitoring and Controlling with PC.
- * Ambient to 230 °C Range, Accuracy of ±0,3 °C
- * Compact Body Design.
- * Optimized Air Flow by Natural Convection.
- * Corrosion Resistant 304 Stainless Steel Chamber and Shelves.
- * Perfect Heat Insulation made by Heat-Resistant Rubber Packing and Air Flow Layer. (AFL)
- * Over Temperature & Over Current Protection and Sensor Error Detection.
- * 2-3 Stainless Steel Shelves are Included.
- * **Patented Jog-Shuttle Control System.**
- * UL Certified.
- * CE Certified.



Stainless Steel Perforated Shelves

Ordering Information

Standard Model

- DH.WON01032 Oven, Natural Convection, Standard, **WON-32**, 32 Lit.
 DH.WON01050 , **WON-50**, 50 Lit.
 DH.WON02105 , **WON-105**, 105 Lit.
 DH.WON02155 , **WON-155**, 155 Lit.
 DH.WON02305 , **WON-305**, 305 Lit.

* Ambient +5 ~ 230 °C, Digital Fuzzy Controller with Jog-Shuttle Switch.

Built in Viewing Window Model

- DH.WON01105 Oven, Natural Convection, Viewing Window, **WON-W105**, 105 Lit.
 DH.WON01155 , **WON-W155**, 155 Lit.
 DH.WON01305 , **WON-W305**, 305 Lit.

* Viewing Window Ambient +5 ~ 230 °C, Digital Fuzzy Controller with Jog-Shuttle Switch.

Spare Accessories

- DH.WON11032 Wire Shelf, Stainless Steel, **ONS032**, for 32 Lit., w 280 × d 280 mm
 DH.WON11050 , **ONS050**, for 50 Lit., w 340 × d 310 mm
 DH.WON11105 , **ONS105**, for 105 Lit., w 455 × d 375 mm
 DH.WON11155 , **ONS155**, for 155 Lit./305Lit., w 520 × d 440 mm

Optional Accessories

- DH.WON21032 Perforated Shelf, Stainless Steel, **ONPS032**, for 32 Lit., w 280 × d 280 mm
 DH.WON21050 , **ONPS050**, for 50 Lit., w 340 × d 310 mm
 DH.WON21105 , **ONPS105**, for 105 Lit., w 455 × d 375 mm
 DH.WON21155 , **ONPS155**, for 155 Lit./305 Lit., w 520 × d 440 mm

Validation (IQ, OQ & PQ) Service

- DH.WON31032 Validation Service(IQ, OQ & PQ), **ONV1032**, for **WON-32**
 DH.WON31050 , **ONV1050**, for **WON-50**
 DH.WON31105 , **ONV1105**, for **WON-105**
 DH.WON31155 , **ONV1155**, for **WON-155**
 DH.WON31305 , **ONV1305**, for **WON-305**
 DH.WON32105 Validation Service(IQ, OQ & PQ), **ONV2105**, for **WON-W105**
 DH.WON32155 , **ONV2155**, for **WON-W155**
 DH.WON32305 , **ONV2305**, for **WON-W305**
 DH.WON41032 Calibration Certificate Service, 1 & 3 points, **ONC1032**, for **WON-32**
 DH.WON41050 , 1 & 3 points, **ONC1050**, for **WON-50**
 DH.WON41105 , 1 & 3 points, **ONC1105**, for **WON-105**
 DH.WON41155 , 1 & 3 points, **ONC1155**, for **WON-155**
 DH.WON41305 , 1 & 3 points, **ONC1305**, for **WON-305**
 DH.WON42105 , 1 & 3 points, **ONC2105**, for **WON-W105**
 DH.WON42155 , 1 & 3 points, **ONC2155**, for **WON-W155**
 DH.WON42305 , 1 & 3 points, **ONC2305**, for **WON-W305**
 DH.WON51105 Calibration Certificate Service, 9 points, **ONC3105**, for **WON-105**
 DH.WON51155 , 9 points, **ONC3155**, for **WON-155**
 DH.WON51305 , 9 points, **ONC3305**, for **WON-305**
 DH.WON52105 , 9 points, **ONC4105**, for **WON-W105**
 DH.WON52155 , 9 points, **ONC4155**, for **WON-W155**
 DH.WON52305 , 9 points, **ONC4305**, for **WON-W305**



Stainless 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” **WisVen® WOF-L** Industrial Forced Convection Oven, 486- /840- /1.176- Lit.

Digital PID Control System, up to 250 °C, ±1,0 °C



Industrial Forced Convection Oven (WOF-L800)

- Heavy Forced Air-Circulation by Strong and Reliable Fan System : ideal for Semiconductor and Electronic Parts Baking Purpose
- CE Certified

Specification

Model		WOF-L400	WOF-L800	WOF-L1000
Interior Dimension	Size (w×d×h) (mm)	900×600×900	1.250×700×960	1.400×700×1.200
	Load per Rack	15 kg		
	Permitted Total Load	40 kg	80 kg	100 kg
	Weight of the Unit (empty)	316 kg	408 kg	478 kg
Exterior Dimension	Size (w×d×h) (mm)	1.200×750×1.700	1.500×840×1.800	1.650×840×2.150
	Wall Clearance Rear	150 mm		
	Wall Clearance Side	150 mm		
	Exhaust Duct Outer	φ 40 mm		
Capacity		486 Lit.	840 Lit.	1.176 Lit.
Temp.	Range	Ambient +5 °C to 250 °C		
	Accuracy	±1,0 °C at 150 °C		
	Uniformity	±2,0 °C at 150 °C		
	Sensor	PT100		
Heater		3 kW	5 kW	7 kW
Circulation		245 W	245 W × 2 ea	245 W × 3 ea
Shelves		Stainless Steel Shelves		
		4 ea	5 ea	6 ea
Controller		Digital PID Control		
Display		2 lines LED for Temperature and Timer		
Timer		99 hr 59 min (Continuous Function Included)		
Material	Internal	Stainless Steel (# 304)		
	External	Powder Coated Steel		
	Insulation	Ceramic and Glass Wool Board		
Door		Silicon Packing Door		
Others		CE Certified Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker Locking Mode by Mechanical Locker Buzzer Alarm (for Timer-end)		
Packing Dimension (w×d×h) (mm)		1.400×1.220×1.960	1.700×1.310×2.060	1.850×1.310×2.410
Gross Weight		376 kg	488 kg	568 kg
Power Consumption		3,6 kW	6,2 kW	8,8 kW
Power plug type		3~ 16A CEE		
Power Supply*		3~, AC 230 V, 50 / 60 Hz		

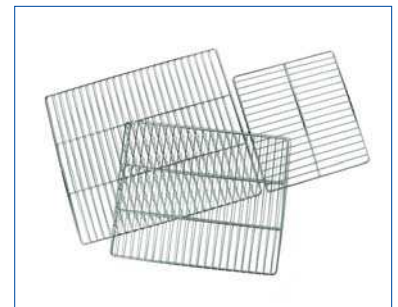
* Other Specifications are available upon Customer's Request.

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<Continued from... "witeg" WiseVen® WOF-L Industrial Forced Convection Oven >

Application & Features

- * Heavy Forced Air-Circulation by Strong and Reliable Fan System : ideal for Semiconductor and Electronic Parts Baking Purpose.
- * Voltage and Ampere Meter Equipped for Monitoring Safe Operation of the Machine.
- * Digital PID Control System Enables Superior Temperature Accuracy.
- * Digital Timer Function with Buzzer Alarm : up to 99 hrs 59 min.
- * Locker is Available for Operational Safety Control by an Administrator.
- * Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
- * Multi-Channel Temperature Sensors with Digital Display for Monitoring Temperature Uniformity in the Chamber is available. (Optional)
- * Default Damper to Enhance Thermal Efficiency.
- * Automatic Gas Exhaust Available. (Optional)
- * CE Certified.



Stainless Steel Wire Shelves

Ordering Information

- DH.WOFL0400** Industrial Forced Convection Oven, **WOF-L400**,
486 Lit., Ambient + 5 °C~250 °C
- DH.WOFL0800** Industrial Forced Convection Oven, **WOF-L800**,
840 Lit., Ambient + 5 °C~250 °C
- DH.WOFL1000** Industrial Forced Convection Oven, **WOF-L1000**,
1.176 Lit., Ambient + 5 °C~250 °C

Spare Accessories

- DH.WOF10400** Wire Shelf, Stainless Steel, **OFLS400**, w 880 × d 580 mm, for **WOF-L400**
- DH.WOF10800** , **OFLS800**, w 1.230 × d 680 mm, for **WOF-L800**
- DH.WOF11000** , **OFLS1000**, w 1.380 × d 680 mm, for **WOF-L1000**

Validation (IQ, OQ & PQ) Service

- DH.WOF30400** Validation Service(IQ, OQ & PQ), **OFLV400**, for **WOF-L400**
- DH.WOF30800** , **OFLV800**, for **WOF-L800**
- DH.WOF31000** , **OFLV1000**, for **WOF-L1000**
- DH.WOF40400** Calibration Certificate Service, 1 & 3 points, **OFLC0400**, for **WOF-L400**
- DH.WOF40800** , 1 & 3 points, **OFLC0800**, for **WOF-L800**
- DH.WOF41000** , 1 & 3 points, **OFLC01000**, for **WOF-L1000**
- DH.WOF50400** Calibration Certificate Service, 9 points, **OFLC1400**, for **WOF-L400**
- DH.WOF50800** , 9 points, **OFLC1800**, for **WOF-L800**
- DH.WOF51000** , 9 points, **OFLC11000**, for **WOF-L1000**

“witeg” WiseVen® WOV Precise Vacuum Oven, Highly Safety Viewing Window, 30- /69- Lit. Digital Fuzzy Control, Superior Temperature & Vacuum Accuracy, 10~750 mmHg, up to 200 °C



Precise Vacuum Oven (WOV-30)

Patented Control System
(No. 10-0554098)

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

- Suitable for Drying, Baking, Conditioning, Curing, Out-Gassing Solids and Liquids, Vacuum Embedding, Moisture Testing, Plating and Aging Test
- Very Easy and Convenient for Vacuuming and Venting, Easy to read Vacuum Gauge
- Highly Safety Viewing Window (Tempered Safety Glass+ Polycarbonate Window)
- Patented Jog-Shuttle Control System and Back-Light LCD Display
- UL Certified ■ CE Certified

Application & Features

- * Suitable for Drying, Baking, Conditioning, Curing, Out-Gassing Solids and Liquids, Vacuum Embedding, Moisture Testing, Plating and Aging Test.
- * Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
- * RS232C Interface for Remote Monitoring and Controlling with PC.
- * Superior Uniformity and Stability.
- * Very Easy and Convenient for Vacuuming and Venting, Easy to read Vacuum Gauge.
- * High Quality Door Sealing : High Temperature Grade Silicone Molded Gasket.
- * Highly Safety Viewing Window. (Tempered Safety Glass+ Polycarbonate Window)
- * Over Temperature & Over Current Protection and 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 and Back-Light LCD Display.
- * UL Certified. * CE Certified.

Specification

Model		WOV-30	WOV-70
Interior Dimension	Size (w×d×h) (mm)	300×330×300	400×435×400
	Load per Rack	15 kg	
	Permitted Total Load	25 kg	40 kg
	Weight of the Unit (empty)	56 kg	82 kg
Exterior Dimension	Size (w×d×h) (mm)	507×483×577	570×588×677
	Wall Clearance Rear	150 mm	
	Wall Clearance Side	150 mm	
Capacity		30 Lit.	69 Lit.
Heater		300 W×2 ea	400 W×4 ea
Temp.	Range	Ambient +5 °C ~ 200 °C	
	Accuracy	±1 °C at 100 °C, ± 1 °C at 200 °C	
	Uniformity	± 1,5 % of the Reached Temp.	
	Sensor	PT100	
Control Sensitivity		±1,0 °C	
Heating-up Time		30 min. to 100 °C, 50 min. from 100 °C to 150 °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	Ceramic Wool	
Shelves		3 Aluminum Shelves	
Door Gasket		High Temperature Grade Foamed Silicone Rubber	
Viewing Window		Tempered Safety Glass, 12T, Poly Carbonate 5T for Safety	
Vacuum Range		10 ~ 750 mmHg	
Vacuum and Ventilation Nozzle		i.d. 7 mm × o.d. 8 mm	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector, Leakage Breaker	
Others		UL Certified, CE Certified, PL (Product Liability) Insurance 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)		600×600×780	700×700×900
Gross Weight		76 kg	114 kg
Power Consumption		600 W	1.600 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" WiseVen® WOV Precise Vacuum Oven >

Ordering Information

DH.WOV01030 Vacuum Oven, **WOV-30**, 30 Lit., Ambient +5 °C~200 °C
 DH.WOV01070 , **WOV-70**, 69 Lit., Ambient +5 °C~200 °C

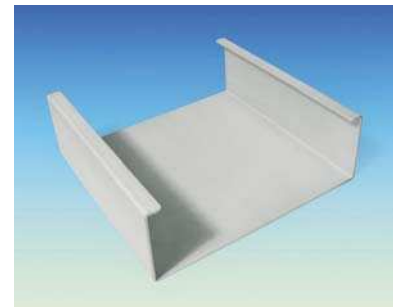
Spare Accessories

DH.WOV11030 Shelf, Aluminum, **OVS030**, for **WOV-30**, w 295 × d 285 × h 98 mm
 DH.WOV11070 , **OVS070**, for **WOV-70**, w 395 × d 395 × h 130 mm

Validation (IQ, OQ & PQ) Service

DH.WOV31030 Validation Service(IQ, OQ & PQ), **OVV030**, for **WOV-30**
 DH.WOV31070 , **OVV070**, for **WOV-70**

DH.WOV41030 Calibration Certificate Service, 1 & 3 points, **OVC030**, for **WOV-30**
 DH.WOV41070 , 1 & 3 points, **OVC070**, for **WOV-70**



Aluminum Shelf

※ Recommendation : Combination of the Vacuum Oven(WOV) with the Cold Trap Bath (Page 30) and the Vacuum Pump (Page 116)

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

Vacuum Pumps, GLD-Series with Two-Stage, Direct Drive & Oil Sealed Rotary Type 6.7×10^{-2} , 6.7×10^{-1} Pa, 60 Lit. to 336 Lit.

CE



Vacuum Pump (GLD-201)

CE



Vacuum Pump (GLD-280)

Application & Features

- * Double Stage Vacuum Pumps.
- * Easy-to-use Large Finger Grips.
- * Thermal Protector Equiped.
- * Over Current Protection.
- * Installed Filter Prevent Sludge Contamination.
- * CE Certified.

Specification

Model	GLD-136	GLD-201	GLD-280
Pumping Speed	162 Lit./min	240 Lit./min	336 Lit./min
Ultimate Pressure	6.7×10^{-2} Pa (5×10^{-4} Torr)		6.7×10^{-1}
Motor Power	400 W	750 W	750 W
Motor Speed	1.730 rpm	1.740 rpm	1.730 rpm
Recommended Oil	SMR-100		
Oil Capacity	800 ml	1.100 ml	1.300 ml
Suction Pipe(o.dxi.d)	KF-25(NW-25)	KF-25(NW-25)	KF-26
Temp. Range	7 ~ 40 °C		
Weight	13,7 kg	13,7 kg	32 kg
Dimension (w×d×h) (mm)	170×499×241,1	170×465,5×241,1	180×544×268,4
Others	CE Certified		
Power	AC 230 V, 50 / 60 Hz		3~, AC 230 V, 50 / 60 Hz

* Other Specifications are available upon Customer's Request.

Ordering Information

UL.GLD136C Vacuum Pump, **GLD-136**, 162 Lit./min, 100 V (230 V)
UL.GLD201 , **GLD-201**, 240 Lit./min, 100 V (230 V)
UL.GLD280 , **GLD-280**, 336 Lit./min, 230 V

※ **Recommendation : Combination of the Vacuum Pump with the Cold Trap Bath (Page 30) and the Vacuum Oven (Page 114,115)**

※ **Selection Guide**

We recommend 'GLD-136 Vacuum Pump' for WOV-70, '70 Lit. Vacuum Oven.'