witeg® 1,000°C Programmable Digital Muffle Furnaces, "FP", Exposed Heating Elements-type

with Digital PID Programmable Control, Short Heat-up Time, Ceramic Fiber, 4-Side Heating, with Ceramic Fiber Plate, 3~63 Lit.

- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Digital PID Programmable Controller : 3 Patterns with 16 Segments**
- **CE Certified**
- **PL (Product Liability) Insurance**

✻ User's Self-Compensation Function for Temperature (±50°C)
✻ Programmable Timer : 99 hr 59 min
✻ Resolution : 1°C, 1min
✻ Safety Switch for Door Opening
✻ Ceramic Fiber exposed Heating Wire, 4-Side Heating

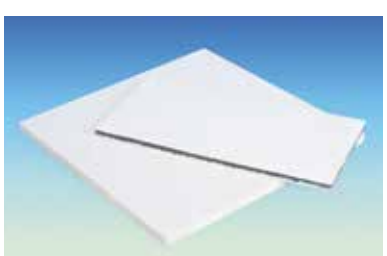
1000°C *Digital Muffle Furnace, Embedded Heating Elements-type "FP-14"*

Specification

Capacity & Model and Temp. Range		3 Lit. "FP-03"	4.5 Lit. "FP-05"	12 Lit. "FP-12"	14 Lit. "FP-14"	27 Lit. "FP-27"	63 Lit. "FP-63"
		300°C ~ 1000°C					
Heater		Kanthal A1, exposed Wire Heating Elements, 4-Side Heating					
Thermocouple		K-type Thermocouple					
Heating Power		1.4 kW	1.8 kW	3.6 kW	4.0 kW	4.6 kW	9 kW
Required time to be reached 800°C		16 min		20 min			23 min
Display		LED					
Controller		Programmable PID Controller : 3 Patterns 16 Segments					
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection Safety Switch for Door Opening					
Material		Ceramic Fiber with Heating Wire-Internal, Powder Coated Steel-External Ceramic Fiber-Insulation					
Dimension (w x d x h)	Internal (cm)	13 x 25 x 9	15 x 30 x 10	20 x 30 x 20	25 x 35 x 16	30 x 30 x 30	40 x 40 x 40
	External (cm)	39 x 48 x 53	42 x 53 x 55	48 x 55 x 66	53 x 58 x 62	58 x 59 x 76	63 x 71 x 79
Packing Size (w x d x h) (cm)		62 x 53 x 74	68 x 58 x 76	67 x 62 x 90	72 x 68 x 84	74 x 74 x 105	116 x 90 x 110
Gross Weight		54 kg	62 kg	82 kg	88 kg	104 kg	225 kg
Power plug type		Hybrid E+F		5 pole 16A CEE			
Power Supply*		AC 230V, 1N~, 50/60Hz		AC 400V, 3N~,50 / 60Hz			

*** Other Specifications are available upon Customer's Request.**

Inner Chamber of Exposed Heating Elements-type



(1) Ceramic Fiber Plate (Included)

(2) Heat-resistant Gloves

Ordering Information

DH.WF11.P03 Furnace, **230V, 3 Lit., "FP-03"**
DH.WF11.P05 **, 4.5 Lit., "FP-05"**
DH.WF13.P12 Furnace, **400V, 3N~, 12 Lit., "FP-12"**
DH.WF13.P14 **, 14 Lit., "FP-14"**
DH.WF13.P27 **, 27 Lit., "FP-27"**
DH.WF13.P63 **, 63 Lit., "FP-63"**

Spare Ceramic Fiber Plates

DH.WF211.03 (1) Ceramic Fiber Plate, **"FS1103"** for **"F/FH-03** and **"FP/FHP-03"**
DH.WF211.05 , **"FS1105"** for **"F/FH-05** and **"FP/FHP-05"**
DH.WF211.12 , **"FS1112"** for **"F/FH-12** and **"FP/FHP-12"**
DH.WF211.14 , **"FS1114"** for **"F/FH-14** and **"FP/FHP-14"**
DH.WF211.27 , **"FS1127"** for **"F/FH-27** and **"FP/FHP-27"**
DH.WF211.63 , **"FS1163"** for **"F/FH-63** and **"FP/FHP-63"**

Optional Gloves & Power Cable

NA.491041101 (2) Gloves , Heat-resistant, 900°C, Flexible & Long Sleeve, 1Pair

Validation (IQ, OQ) Service

DH.WF311.P03 Validation Service(IQ, OQ), **"FPV1103",** for **"FP-03"**
DH.WF311.P05 , **"FPV1105",** for **"FP-05"**
DH.WF311.P12 , **"FPV1112",** for **"FP-12"**
DH.WF311.P14 , **"FPV1114",** for **"FP-14"**
DH.WF311.P27 , **"FPV1127",** for **"FP-27"**
DH.WF311.P63 , **"FPV1163",** for **"FP-63"**

witeg® 1,200°C Programmable Digital Muffle Furnaces, "FHP", Exposed Heating Elements-type

with Digital PID Programmable Control, Short Heat-up Time, Ceramic Fiber, 4-Side Heating, with Ceramic Fiber Plate, 3~63 Lit.

- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Digital PID Programmable Controller : 3 Patterns with 16 Segments**
- **CE Certified**
- **PL (Product Liability) Insurance**

✻ User's Self-Compensation Function for Temperature (±50°C)
✻ Programmable Timer : 99 hr 59 min
✻ Resolution : 1°C, 1min
✻ Included Ceramic Fiber Plate
✻ Safety Switch for Door Opening
✻ Ceramic Fiber embedded Heating Wire, 4-Side Heating

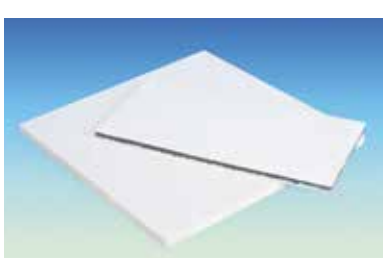
1200°C *Digital Muffle Furnace, Embedded Heating Elements-type "FHP-14"*

Specification

Capacity & Model and Temp. Range		3 Lit. "FHP-03"	4.5 Lit. "FHP-05"	12 Lit. "FHP-12"	14 Lit. "FHP-14"	27 Lit. "FHP-27"	63 Lit. "FHP-63"
		300°C ~ 1200°C					
Heater		Kanthal A1, Embedded Wire Heating Elements, 4-Side Heating					
Thermocouple		K-type Thermocouple					
Heating Power		1.4 kW	1.8 kW	3.6 kW	4.0 kW	4.6 kW	9 kW
Required time to be reached 800°C		16 min		20 min			23 min
Display		LED					
Controller		Programmable PID Controller : 3 Patterns 16 Segments					
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection Safety Switch for Door Opening					
Material		Ceramic Fiber with Heating Wire-Internal, Powder Coated Steel-External Ceramic Fiber-Insulation					
Dimension (w x d x h)	Internal (cm)	13 x 25 x 9	15 x 30 x 10	20 x 30 x 20	25 x 35 x 16	30 x 30 x 30	40 x 40 x 40
	External (cm)	39 x 48 x 53	42 x 53 x 55	48 x 55 x 66	53 x 58 x 62	58 x 59 x 76	63 x 71 x 79
Packing Size (w x d x h) (cm)		62 x 53 x 74	68 x 58 x 76	67 x 62 x 90	72 x 68 x 84	74 x 74 x 105	116 x 90 x 110
Gross Weight		54 kg	62 kg	82 kg	88 kg	104 kg	225 kg
Power plug type		Hybrid E+F		5 pole 16A CEE			
Power Supply*		AC 230V, 1N~, 50/60Hz		AC 400V, 3N~,50 / 60Hz			

*** Other Specifications are available upon Customer's Request.**

Inner Chamber of Exposed Heating Elements-type



(1) Ceramic Fiber Plate (Included)

(2) Heat-resistant Gloves

Ordering Information

DH.WFH12.P03	Furnace, **230V, 3 Lit., "FHP-03"**
DH.WFH12.P05	**, 4.5 Lit., "FHP-05"**
DH.WFH13.P12	Furnace, **400V, 3N~, 12 Lit., "FHP-12"**
DH.WFH13.P14	**, 14 Lit., "FHP-14"**
DH.WFH13.P27	**, 27 Lit., "FHP-27"**
DH.WFH13.P63	**, 63 Lit., "FHP-63"**

Spare Ceramic Fiber Plates

DH.WF211.03	(1) Ceramic Fiber Plate, **"FS1103"** for **"F/FH-03"** and **"FP/FHP-03"**
DH.WF211.05	, **"FS1105"** for **"F/FH-05"** and **"FP/FHP-05"**
DH.WF211.12	, **"FS1112"** for **"F/FH-12"** and **"FP/FHP-12"**
DH.WF211.14	, **"FS1114"** for **"F/FH-14"** and **"FP/FHP-14"**
DH.WF211.27	, **"FS1127"** for **"F/FH-27"** and **"FP/FHP-27"**
DH.WF211.63	, **"FS1163"** for **"F/FH-63"** and **"FP/FHP-63"**

Optional Gloves & Power Cable

NA.491041101	(2) Gloves, Heat-resistant, 900°C, Flexible & Long Sleeve, 1Pair

Validation (IQ, OQ) Service

DH.WFH312.P03	Validation Service(IQ, OQ), **"FHPV1203"**, for **"FHP-03"**
DH.WFH312.P05	, **"FHPV1205"**, for **"FHP-05"**
DH.WFH312.P12	, **"FHPV1212"**, for **"FHP-12"**
DH.WFH312.P14	, **"FHPV1214"**, for **"FHP-14"**
DH.WFH312.P27	, **"FHPV1227"**, for **"FHP-27"**
DH.WFH312.P63	, **"FHPV1263"**, for **"FHP-63"**

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