

Oven | muffle furnace

up to 1,000°C, Jog-Dial controller, 3 / 4.5 / 12 / 14 / 27 / 63 l, programmable

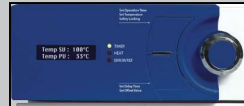
FP 1,000°C, programmable

Ideal for:

- ash-determinations, enameling, fusions, precipitate drying

Features:

- user's self-compensation function for temperature ($\pm 50.0^\circ\text{C}$)
- resolution: 1°C , 1 min
- ceramic fiber plate included
- powder-coated steel body, ceramic fiber insulation, ceramic fiber exposed heating wire interior with 4-sided heating
- backlight LCD display
- CE certified and unique serial number for tracing



Jog-Dial controller



4-sided heating

up to 1,000 °C
Jog-Dial
programmable

Safety mechanism:

- safety switch for door opening
- overheat and over-current protection
- sensor error detection

Controller:

- **Jog-Dial controller (PID)** with 2-way knob (turn and push), digital LCD with backlight, and two durable setting buttons
- programmable: 4 patterns with 10 segments



FP-14 with ceramic fiber plate (included)

Model	FP-03	FP-05	FP-12	FP-14	FP-27	FP-63
Capacity	3 l	4.5 l	12 l	14 l	27 l	63 l
Temperature range	300°C - 1000°C					
Heater	Kanthal A1, expose 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 reach 800°C	16 min		20 min		23 min	
Timer & alarm	99hr 59 min (delay & continuous run), error status and timer end					
Internal dimensions (W x D x H mm)	130x250x90	150x300x100	200x300x200	250x350x160	300x300x300	400x400x400
External dimensions (W x D x H mm)	410x480x530	440x530x550	500x550x660	550x580x620	600x590x760	1000x730x920
Packing size (W x D x H mm) & gross weight	630x540x770 47 kg	680x570x780 54 kg	700x630x890 59 kg	740x680x850 73 kg	740x730x990 83 kg	1160x900x1100 225 kg
Power supply	1 Phase AC 120V, 60 Hz or 1 Phase AC 230V, 50/60 Hz		1 Phase AC 120V, 60 Hz or 1 Phase AC 230V, 50/60 Hz or 3 Phase AC 400V, 50/60 Hz			
Order number 230V	DH.WF21.P03	DH.WF21.P05	DH.WF21.P12*	DH.WF21.P14*	DH.WF21.P27*	DH.WF21.P63*
Order number 120V	DH.WF20.P03	DH.WF20.P05	DH.WF20.P12*	DH.WF20.P14*	DH.WF20.P27*	DH.WF20.P63*
Order number 3 Phase	-	-	DH.WF23.P12	DH.WF23.P14	DH.WF23.P27	DH.WF23.P63

* models not available in Europe

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Oven | muffle furnace

up to 1,200°C, Jog-Dial controller, 3 / 4.5 / 12 / 14 / 27 / 63 l, programmable

FHP 1,200°C, programmable

Ideal for:

- ash-determinations, enameling, fusions, precipitate drying

Features:

- user's self-compensation function for temperature ($\pm 50.0^{\circ}\text{C}$)
- resolution: 1°C , 1 min
- ceramic fiber plate included
- powder-coated steel body, ceramic fiber insulation, ceramic fiber exposed heating wire interior with 4-sided heating
- backlight LCD display
- CE certified and unique serial number for tracing



Jog-Dial controller



4-sided heating

up to 1,200 °C
Jog-Dial
programmable

Safety mechanism:

- safety switch for door opening
- overheat and over-current protection
- sensor error detection

Controller:

- **Jog-Dial controller (PID)** with 2-way knob (turn and push), digital LCD with backlight, and two durable setting buttons
- programmable: 4 patterns with 10 segments



FHP-14 with ceramic fiber plate (included)

Model	FHP-03	FHP-05	FHP-12	FHP-14	FHP-27	FHP-63
Capacity	3 l	4.5 l	12 l	14 l	27 l	63 l
Temperature range	300°C - 1200°C					
Heater	Kanthal A1, expose 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 reach 800°C	16 min			20 min		23 min
Timer & alarm	99hr 59 min (delay & continuous run), error status and timer end					
Internal dimensions (W x D x H mm)	130x250x90	150x300x100	200x300x200	250x350x160	300x300x300	400x400x400
External dimensions (W x D x H mm)	410x480x530	440x530x550	500x550x660	550x580x620	600x590x760	1000x730x920
Packing size (W x D x H mm) & gross weight	630x540x770 47 kg	680x570x780 54 kg	700x630x890 59 kg	740x680x850 73 kg	740x730x990 83 kg	1160x900x1100 225 kg
Power supply	1 Phase AC 120V, 60 Hz or 1 Phase AC 230V, 50/60 Hz			1 Phase AC 120V, 60 Hz or 1 Phase AC 230V, 50/60 Hz or 3 Phase AC 400V, 50/60 Hz		
Order number 230V	DH.WFH22.P03	DH.WFH22.P05	DH.WFH22.P12*	DH.WFH22.P14*	DH.WFH22.P27*	DH.WFH22.P63*
Order number 120V	DH.WFH20.P03	DH.WFH20.P05	DH.WFH20.P12*	DH.WFH20.P14*	DH.WFH20.P27*	DH.WFH20.P63*
Order number 3 Phase	-	-	DH.WFH23.P12	DH.WFH23.P14	DH.WFH23.P27	DH.WFH23.P63

* models not available in Europe

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Oven | muffle furnace

NEW

500°C - 1,450°C, PID controller, 1.9 / 4.5 / 11 / 22 l, programmable



2-sided heating

up to 1,450°C
PID controller
programmable

FSC 1,450°C, programmable

Ideal for:

- ash-determinations, enameling, fusions, precipitate drying

Features:

- ceramic fiber exposed heating wire
- 2-sided heating
- without ceramic fiber plate (please order separately)
- high quality insulation: ceramic fiber board
- LCD display
- CE certified and unique serial number for tracing

Safety mechanism:

- safety switch for door opening (only FSC-2)
- overheat and over-current protection
- sensor error detection

Controller:

- **digital PID controller**, UP35A, SCR-power controller with push button
- programmable: 2 patterns with 10 segments



FSC-2



Model	FSC-2	FSC-5	FSC-11	FSC-22
Temperature range	500°C - 1450°C			
Capacity	1.9 l	4.5 l	11 l	22 l
Heater	made from Silicon carbide (SiC), 2-sided heating			
Thermocouple	R-thermocouple			
Heating power	2 kW	3.3 kW	7.7 kW	9.6 kW
Required time to reach 800°C	30 min			
Timer & alarm	99 hr 59 min or continuous run			
Program function	2 patterns with 10 segments			
Safety mechanism	overheat and over-current protection sensor error detection safety switch for door opening	overheat and over-current protection, sensor error detection		
Material	ceramic fiber board with SiC-heater internal, powder-coated steel (external), ceramic fiber insulation			
Internal dimensions (W x D x H mm)	120 x 130 x 120	150 x 200 x 150	200 x 270 x 200	250 x 350 x 250
External dimensions (W x D x H mm)	440 x 482 x 700	820 x 555 x 655	870 x 625 x 715	920 x 705 x 785
Packing size (W x D x H mm) & gross weight	680 x 540 x 940, 57 kg	1350 x 600 x 980, 102 kg	1400 x 770 x 950, 102 kg	1450 x 900 x 1100, 132 kg
Power supply	Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz, without cord and plug			
Order number 230V	DH.FSC02002	DH.FSC02005	DH.FSC02011*	DH.FSC02022*
Order number 120V	DH.FSC01002	DH.FSC01005	DH.FSC01011*	DH.FSC01022*

* models not available in Europe

Heat-resistant gloves

- long and flexible sleeve

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NEW

Oven | muffle furnace

600°C - 1,650°C, PID controller, 1.9 / 4.5 / 11 l, programmable



2-sided heating

up to 1,650°C
PID controller
programmable

FSK 1,650°C, programmable

Ideal for:

- ash-determinations, enameling, fusions, precipitate drying

Features:

- ceramic fiber exposed heating wire
- 2-sided heating
- without ceramic fiber plate (please order separately)
- high quality insulation: ceramic fiber board
- LCD display
- CE certified and unique serial number for tracing

Safety mechanism:

- safety switch for door opening (only FSK-2)
- overheat and over-current protection
- sensor error detection

Controller:

- **digital PID controller**, UP35A, SCR-power controller with push button
- programmable: 2 patterns with 10 segments



FSK-2

Model	FSK-2	FSK-5	FSK-11
Capacity	1.9 l	4.5 l	11 l
Temperature range	600°C - 1,650°C		
Heater	made from molybdenum disilicide (MoSi ₂), 2-sided heating		
Thermocouple	B-thermocouple		
Heating power	1.3 kW	2.9 kW	6.6 kW
Required time to reach 800°C	40 min		
Timer & alarm	99 hr 59 min or continuous run		
Program function	2 patterns with 10 segments		
Safety mechanism	overheat and over-current protection sensor error detection safety switch for door opening	overheat and over-current protection, sensor error detection	
Material	ceramic fiber board with SIC-heater internal, powder-coated steel (external), ceramic fiber insulation		
Internal dimensions (W x D x H mm)	120 x 130 x 120 mm	150 x 200 x 150 mm	200 x 270 x 200 mm
External dimensions (W x D x H mm)	440 x 482 x 700 mm	900 x 600 x 695 mm	980 x 670 x 765 mm
Packing size (W x D x H mm) & gross weight	680 x 540 x 940 mm, 72 kg	1430 x 640 x 930 mm, 150 kg	1510 x 810 x 1000 mm, 186 kg
Power supply	Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz, without cord and plug		
Order number 230V	DH.FSK02002	DH.FSK02005	DH.FSK02011*
Order number 120V	DH.FSK01002	DH.FSK01005	DH.FSK01011*

* models not available in Europe

Heat-resistant gloves

- long and flexible sleeve

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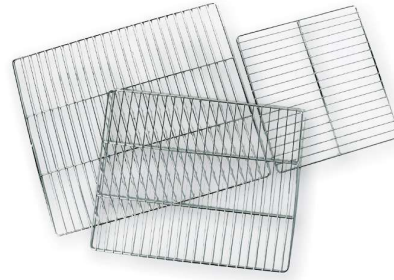
Oven

Accessories: shelves and plates

Wire shelves, stainless steel

• suitable for ovens **WON, WON-W, SWON, SWON-W**

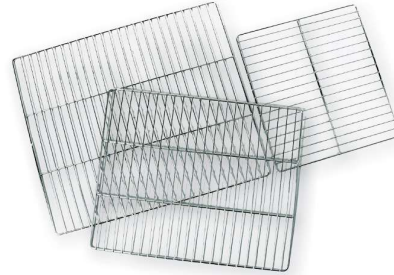
For device...	Measurements	Article	Order number
WON-32 / SWON-32	280 x 280 mm	ONS032	DH.WON11032
WON-50 / SWON-50	340 x 310 mm	ONS050	DH.WON11050
WON-105 / WON-W105 SWON-105 / SWON-W105	455 x 375 mm	ONS105	DH.WON11105
WON-155 / WON-W155 SWON-155 / SWON-W155	520 x 440 mm	ONS155	DH.WON11155



Wire shelves, stainless steel

• suitable for ovens **WOF, WOF-W, SWOF, SWOF-W**

For device...	Measurements	Article	Order number
WOF-50 / SWOF-50	340 x 310 mm	OFS050	DH.WOF11050
WOF-105 / WOF-W105 SWOF-105 / SWOF-W105	455 x 375 mm	OFS105	DH.WOF11105
WOF-155 / WOF-W155 SWOF-155 / SWOF-W155	520 x 440 mm	OFS155	DH.WOF11155



Ceramic fiber plates

• suitable for ovens / muffle furnaces **FSC**

For device...	Measurements	Order number
FSC-2	110 x 120 mm	DH.FSC2002
FSC-5	140 x 180 mm	DH.FSC2005
FSC-11	190 x 250 mm	DH.FSC2011
FSC-22	240 x 330 mm	DH.FSC2022

NEW

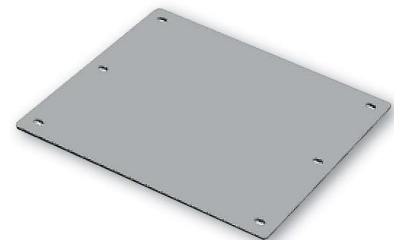


Ceramic fiber plates

• suitable for ovens / muffle furnaces **FSK**

For device...	Measurements	Order number
FSK-2	110 x 120 mm	DH.FSK2002
FSK-5	140 x 180 mm	DH.FSK2005
FSK-11	190 x 250 mm	DH.FSK2011

NEW



Shelves, aluminium

• suitable for vacuum ovens **WOV, SWOV**

For device...	Measurements	Article	Order number
WOV-20 / SWOV-20	260 x 245 x 3 mm	OVSN020	DH.WOV12020
WOV-30 / SWOV-30	290 x 285 x 3mm	OVSN030	DH.WOV12030
WOV-70 / SWOV-70	390 x 390 x3 mm	OVSN070	DH.WOV12070



Ceramic fiber plates

• suitable for ovens / muffle furnaces **FP, FHP**

For device...	Article	Order number
FP-03 / FHP-03	FS1103	DH.WF211.03
FP-05 / FHP-05	FS1105	DH.WF211.05
FP-12 / FHP-12	FS1112	DH.WF211.12
FP-14 / FHP-14	FS1114	DH.WF211.14
FP-27 / FHP-27	FS1127	DH.WF211.27

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