

Oven | gravity-air

Jog-Dial controller, gravity-air convection, up to 230°C, 32 / 50 / 105 / 155 l



Gravity-air
3-sided heater



Wise remote



Jog-Dial controller

WON 230°C, 32/50/105/155 l

Ideal for:

- drying, baking, conditioning, curing, pre-heating and aging

Features:

- optimized air flow by gravity-air mechanism
- 3-side heating ensures temperature uniformity and accuracy
- ambient +5°C to 230°C range, fluctuation of $\pm 0.5^\circ\text{C}$ at 100°C
- RS232C interface for monitoring and controlling (WireRemote)
- stainless steel chamber
- powder-coated steel body and glass wool insulation
- available with viewing window (WON-W models)
- new compact body design
- storage function for set values of temperature and timer
- backlight LCD display
- 2x stainless steel wire shelves included
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- locking mode
- 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

IQ | OQ
available
page 12 for details



WON-W105 with viewing window
and 2x wire shelves (included)

Model	WON-32	WON-50	WON-105 / WON-W105*	WON-155 / WON-W155*
Capacity	32 l	50 l	105 l	155 l
Temperature range, variation & sensor	room temperature +5°C - 230°C, variation: $\pm 1.2^\circ\text{C}$ at 100°C, $\pm 2.2^\circ\text{C}$ at 150°C, sensor: PT 100			
Temperature fluctuation	$\pm 0.5^\circ\text{C}$ at 100°C, $\pm 0.6^\circ\text{C}$ at 150°C			$\pm 0.5^\circ\text{C}$ at 100°C, $\pm 0.8^\circ\text{C}$ at 150°C
Heating power	500 W	650 W	1.4 kW	1.6 kW
Heat-up time	30 min to 100°C, 43 min to 150°C	30 min to 100°C, 45 min to 150°C		35 min to 100°C, 50 min to 150°C
Recovery time (door open 30 sec)	8 min to 100°C, 10 min to 150°C		12 min to 100°C, 10 min to 150°C	
Timer & alarm	99hr 59 min (delay & continuous run)			
Control resolution	$\pm 0.1^\circ\text{C}$			
Shelves	2 x stainless steel wire shelves included, load per shelf 16 kg			
Ventilation	1x hole \varnothing 35 mm ventilation hole with stainless steel cap		2x hole \varnothing 35 mm ventilation hole with stainless steel cap	
Internal dimensions (W x D x H)	310x290x360 mm	370x350x420 mm	485x409x535 mm	550x474x600 mm
External dimensions (W x D x H) & net weight	458x557x664 mm, 36 kg	518x647x724 mm, 44 kg	653x712x882 mm, 79 kg	718x777x947 mm, 78 kg
Packing size & gross weight	562x664x747 mm, 43 kg	622x754x807 mm, 59 kg	743x819x1068 mm, 79 kg	808x884x1133 mm, 92 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz			
Power consumption	502 W	674 W	1390 W	1566 W
Energy consumption at 100°C/ at 150°C	90 Wh / 181 Wh	117 Wh / 230 Wh	187 Wh / 337 Wh	204 Wh / 398 Wh
Order number 230V	DH.WON05032	DH.WON05050	DH.WON05105	DH.WON05155
Order number 120V	DH.WON06032	DH.WON06050	DH.WON06105	DH.WON06155
Order number built-in viewing window 230V	-	-	DH.WON07105	DH.WON07155

Supply & Distributed By:



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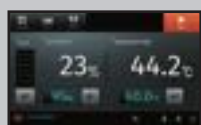
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Oven | gravity-air

SMART-Lab™ controller, gravity-air convection, up to 230°C, 32 / 50 / 105 / 155 l



Gravity-air
3-sided heater



SMART-Lab™ controller



WiRe™ app service

IQ | OQ
available
page 12 for details

SWON 230°C, 32/50/105/155 l

Ideal for:

- drying, baking, conditioning, curing, pre-heating and aging

Features:

- optimized air flow by gravity-air mechanism
- 3-side heating ensures temperature uniformity and accuracy
- ambient +5°C to 230°C range, fluctuation of ±0.5°C at 100°C
- stainless steel chamber
- powder-coated steel body and glass wool insulation
- available with viewing window (SWON-W models)
- new compact body design
- storage function for set values of temperature and timer
- 2x stainless steel wire shelves included
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- push alarm service to your smartphone
- locking mode
- overheat and over-current protection
- sensor error detection

Controller:

- **Smart-Lab™ controller** with 4" full touch screen TFT LCD:
 - ◆ WiRe™ app service, remote control system
 - ◆ variable program settings
 - ◆ self-diagnostic function
 - ◆ automatic data recording
 - ◆ data transfer to PC by USB memory
 - ◆ Internet connectivity with WiFi



SWON-W105 with viewing window
and 2x wire shelves (included)

Model	SWON-32	SWON-50	SWON-105 / SWON-W105*	SWON-155 / SWON-W155*
Capacity	32 l	50 l	105 l	155 l
Temperature range, variation & sensor	room temperature +5°C - 230°C, variation: ±1.2°C at 100°C, ±2.2°C at 150°C, sensor: PT 100			
Temperature fluctuation	±0.5°C at 100°C, ±0.6°C at 150°C			±0.5°C at 100°C, ±0.8°C at 150°C
Heating power	500 W	650 W	1.4 kW	1.6 kW
Heat-up time	30 min to 100°C, 43 min to 150°C	30 min to 100°C, 45 min to 150°C		35 min to 100°C, 50 min to 150°C
Recovery time (door open 30 sec)	8 min to 100°C, 10 min to 150°C		12 min to 100°C, 10 min to 150°C	
Timer & alarm	99hr 59 min (delay & continuous run)			
Control resolution	±0.1°C			
Shelves	2 x stainless steel wire shelves included, load per shelf 16 kg			
Ventilation	1x hole Ø 35 mm ventilation hole with stainless steel cap		2x hole Ø 35 mm ventilation hole with stainless steel cap	
Internal dimensions (W x D x H)	310x290x360 mm	370x350x420 mm	485x409x535 mm	550x474x600 mm
External dimensions (W x D x H), net weight	458x557x664 mm, 36kg	518x647x724 mm, 44kg	653x712x882 mm, 69kg	718x777x947 mm, 78kg
Packing size & gross weight	562x664x747 mm, 43kg	622x754x807 mm, 59kg	743x819x1068 mm, 79kg	808x884x1133 mm, 92kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz			
Power consumption	502 W	674 W	1390 W	1566 W
Energy consumption at 100°C/ at 150°C	90 Wh / 181 Wh	117 Wh / 230 Wh	187 Wh / 337 Wh	204 Wh / 398 Wh
Order number 230V	DH.SWON05032	DH.SWON05050	DH.SWON05105	DH.SWON05155
Order number 120V	DH.SWON06032	DH.SWON06050	DH.SWON06105	DH.SWON06155
Order number built-in viewing window 230V	-	-	DH.SWON07105	DH.SWON07155

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Oven | forced-air

Jog-Dial controller, forced-air convection, up to 250°C, 50 / 105 / 155 l



Forced-air
3-sided heater



Wise remote



Jog-Dial controller

IQ | OQ
available
page 12 for details



WOF-W105 with viewing window
and 2x wire shelves (included)

WOF 250°C, 50/105/155 l

Ideal for:

- drying, baking, conditioning, curing, pre-heating and aging

Features:

- optimized air flow by forced-air mechanism
- 3-side heating ensures temperature uniformity and accuracy
- ambient +5°C to 250°C range, fluctuation of $\pm 0.3^\circ\text{C}$ at 100°C
- RS232C interface for monitoring and controlling (WireRemote)
- stainless steel chamber
- powder-coated steel body and glass wool insulation
- available with viewing window (WOF-W models)
- new compact body design
- storage function for set values of temperature and timer
- backlight LCD display
- 2x stainless steel wire shelves included
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- locking mode
- 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

Model	WOF-50	WOF-105 / WOF-W105*	WOF-155 / WOF-W155*
Capacity	50 l	105 l	155 l
Temperature range, fluctuation & sensor	range: room temperature +5°C - 250°C, fluctuation: $\pm 0.3^\circ\text{C}$ at 100°C, $\pm 0.5^\circ\text{C}$ at 150°C, PT 100		
Temperature variation	$\pm 1^\circ\text{C}$ at 100°C, 1.8°C at 150°C		$\pm 1^\circ\text{C}$ at 100°C, $\pm 2^\circ\text{C}$ at 150°C
Heating power	650 W	1.4 kW	1.6 kW
Heat-up time	25 min to 100°C, 45 min to 150°C	25 min to 100°C, 40 min to 150°C	
Recovery time (door open 30 sec)	8 min to 100°C, 8 min to 150°C	6 min to 100°C, 6 min to 150°C	
Timer & alarm	99hr 59 min (delay & continuous run)		
Control resolution	$\pm 0.1^\circ\text{C}$		
Shelves	2 x stainless steel wire shelves included, load per shelf 16 kg		
Ventilation	1 x hole \varnothing 35 mm ventilation hole with stainless steel cap	2 x hole \varnothing 35 mm ventilation hole with stainless steel cap	
Internal dimensions (W x D x H)	370 x 345 x 420 mm	485 x 415 x 535 mm	550 x 480 x 600 mm
External dimensions (W x D x H), net weight	518 x 647 x 724 mm, 44 kg	653 x 712 x 882 mm, 69 kg	718 x 777 x 947 mm, 78 kg
Packing size & gross weight	622 x 754 x 807 mm, 59 kg	743 x 819 x 1068 mm, 79 kg	808 x 884 x 1133 mm, 92 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz		
Power consumption	674 W	1390 W	1566 W
Energy consumption at 100°C/ at 150°C	117 Wh / 230 Wh	187 Wh / 337 Wh	204 Wh / 398 Wh
Order number 230V	DH.WOF05050	DH.WOF05105	DH.WOF05155
Order number 120V	DH.WOF06050	DH.WOF06105	DH.WOF06155
Order number built-in viewing window 230V	-	DH.WOF07105	DH.WOF07155
Order number built-in viewing window 120V	-	DH.WOF08105	DH.WOF08155

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Oven | forced-air

SMART-Lab™ controller, forced-air convection, up to 250°C, 50 / 105 / 155 l



Forced-air
3-sided heater



SMART-Lab™ controller



WiRe™ app service

SWOF 250°C, 50/105/155 l

Ideal for:

- drying, baking, conditioning, curing, pre-heating and aging

Features:

- optimized air flow by forced-air mechanism
- 3-side heating ensures temperature uniformity and accuracy
- ambient +5°C to 250°C range, fluctuation of $\pm 0.3^\circ\text{C}$ at 100°C
- stainless steel chamber
- powder-coated steel body and glass wool insulation
- available with viewing window (SWOF-W models)
- new compact body design
- storage function for the set values of temperature and timer
- 2x stainless steel wire shelves included
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- push alarm service to your smartphone
- locking mode
- overheat and over-current protection
- sensor error detection

Controller:

- **Smart-Lab™ controller** with 4" full touch screen TFT LCD:
 - ◆ WiRe™ app service, remote control system
 - ◆ variable program settings
 - ◆ self-diagnostic function
 - ◆ automatic data recording
 - ◆ data transfer to PC by USB memory
 - ◆ Internet connectivity with WiFi

IQ | OQ
available
page 12 for details



SWOF-W105 with viewing window
and 2x wire shelves (included)

Model	SWOF-50	SWOF-105 / SWOF-W105*	SWOF-155 / SWOF-W155*
Capacity	50 l	105 l	155 l
Temperature range, fluctuation & sensor	range: room temperature +5°C - 250°C, fluctuation: $\pm 0.3^\circ\text{C}$ at 100°C, $\pm 0.5^\circ\text{C}$ at 150°C, PT 100		
Temperature variation	$\pm 1^\circ\text{C}$ at 100°C, 1.8°C at 150°C		$\pm 1^\circ\text{C}$ at 100°C, $\pm 2^\circ\text{C}$ at 150°C
Heating power	650 W	1.4 kW	1.6 kW
Heat-up time	25 min to 100°C, 45 min to 150°C	25 min to 100°C, 40 min to 150°C	
Recovery time (door open 30 sec)	8 min to 100°C, 8 min to 150°C	6 min to 100°C, 6 min to 150°C	
Timer & alarm	99hr 59 min (delay & continuous run)		
Control resolution	$\pm 0.1^\circ\text{C}$		
Shelves	2 x stainless steel wire shelves included, load per shelf 16 kg		
Ventilation	1 x hole \varnothing 35 mm ventilation hole with stainless steel cap	2 x hole \varnothing 35 mm ventilation hole with stainless steel cap	
Internal dimensions (W x D x H)	370 x 345 x 420 mm	485 x 415 x 535 mm	550 x 480 x 600 mm
External dimensions (W x D x H), net weight	518 x 647 x 724 mm, 44 kg	653 x 712 x 882 mm, 69 kg	718 x 777 x 947 mm, 78 kg
Packing size & gross weight	622 x 754 x 807 mm, 59 kg	743 x 819 x 1068 mm, 79 kg	808 x 884 x 1133 mm, 92 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz		
Power consumption	674 W	1390 W	1566 W
Energy consumption at 100°C/ at 150°C	117 Wh / 230 Wh	187 Wh / 337 Wh	204 Wh / 398 Wh
Order number 230V	DH.SWOF05050	DH.SWOF05105	DH.SWOF05155
Order number 120V	DH.SWOF06050	DH.SWOF06105	DH.SWOF06155
Order number built-in viewing window 230V	-	DH.SWOF07105	DH.SWOF07155

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Oven | vacuum oven

Jog-Dial controller, 10 - 750 mm Hg (0.63 mbar), up to 200°C, 18.6 / 30 / 70 l



Optimized gas exchange



Wise remote



Jog-Dial controller

WOV 200°C, 18.6/30/70 l, 750mmHg

Ideal for:

- drying, baking, conditioning, curing, out-glassing solids and liquids, vacuum embedding, moisture testing, plating and aging test

Features:

- very easy and convenient for vacuuming and venting, easy to read vacuum gauge
- high quality door sealing: high temperature grade silicone molded gasket
- superior uniformity and stability
- safety window: tempered safety glass 12T & polycarbonate 5T
- RS232C interface for monitoring and controlling (WireRemote)
- stainless steel interior, powder-coated steel body and glass wool insulation
- 2x aluminium shelves included
- storage function for set values of alarm and timer
- backlight LCD display
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- locking mode
- overheat and over-current protection
- sensor error detection and leakage breaker

Controller:

- **Jog-Dial controller (PID)** with 2-way knob (turn and push), digital LCD with backlight, and two durable setting buttons



WOV-30 with 2x aluminium shelves (included)

Model	WOV-20	WOV-30	WOV-70
Capacity	18.6 l	30 l	70 l
Vacuum range, level & rate	10 - 750 mmHg, 0.63 mbar, 0.39 mbar/h		
Temperature range, fluctuation & sensor	room temperature +5°C - 200°C, fluctuation: ±0.5°C at 100°C & 150°C, PT 100 sensor		
Temperature variation	±2.0°C at 100°C, ±3.0°C at 150°C		±2.5°C at 100°C, ±3.5 at 150°C
Heating power	2 x 170 W, 2 x 130 W		2 x 350 W, 2 x 450 W
Heat-up time	60 min. to 100°C 90 min. to 150°C	70 min. to 100°C 100 min. to 150°C	80 min. to 100°C 100 min. to 150°C
Timer & alarm	99hr 59 min (delay & continuous run) and timer end		
Resolution	control: ±1.0°C, display: ±1.0°C		
Height between shelves	87 mm	98 mm	133 mm
Vacuum inlet valve size	outer Ø10 mm		
Internal dimensions (W x D x H)	265 x 290 x 265 mm	300 x 330 x 300 mm	400 x 435 x 400 mm
External dimensions (W x D x H), net weight	480 x 475 x 552 mm, 48 kg	515 x 515 x 587 mm, 55 kg	618 x 620 x 687 mm, 85 kg
Packing size & gross weight	585 x 580 x 795 mm, 59 kg	620 x 620 x 830 mm, 67 kg	725 x 720 x 930 mm, 100 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz		
Power consumption	600 W	600 W	1,6 kW
Order number 230V	DH.WOV03020	DH.WOV03030	DH.WOV03070
Order number 120V	DH.WOV04020	DH.WOV04030	DH.WOV04070

Recommended vacuum pump for 18.6l- and 30l-oven: Rocker 810, see page 190

Recommended vacuum pump for 70l-oven: Rocker 800/Rocker 811, see page 190/191

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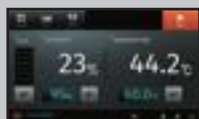
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Oven | vacuum oven

SMART-Lab™ controller, 10 - 750 mm Hg (0.63 mbar), up to 200°C, 18.6 / 30 / 70 l



Optimized gas exchange



SMART-Lab™ controller



WiRe™ app service

SWOV 200°C, 18.6/30/70 l, 750mmHg

Ideal for:

- drying, baking, conditioning, curing, out-glassing solids and liquids, vacuum embedding, moisture testing, plating and aging test

Features:

- very easy and convenient for vacuuming and venting, easy to read vacuum gauge
- high quality door sealing: high temperature grade silicone molded gasket
- superior uniformity and stability
- safety window: tempered safety glass 12T & polycarbonate 5T
- compact new body design
- 2x aluminium shelves included
- stainless steel interior, powder-coated steel body and glass wool insulation
- CE & UL/CUL certified and unique serial number for tracing

Safety mechanism:

- push alarm service to your smartphone
- overheat and over-current protection
- sensor error detection and leakage breaker

Controller:

- **Smart-Lab™ controller** with 4" full touch screen TFT LCD:
 - ◆ WiRe™ app service, remote control system
 - ◆ variable program settings
 - ◆ self-diagnostic function
 - ◆ automatic data recording
 - ◆ data transfer to PC by USB memory
 - ◆ Internet connectivity with WiFi



SWOV-30 with 2x aluminium shelves (included)

Model	SWOV-20	SWOV-30	SWOV-70
Capacity	18.6 l	30 l	70 l
Vacuum range, level & rate	10 - 750 mmHg, 0.63 mbar, 0.39 mbar/h		
Temperature range, fluctuation & sensor	room temperature +5°C - 200°C, fluctuation: ±0.5°C at 100°C & 150°C, PT 100 sensor		
Temperature variation	±2.0°C at 100°C, ±3.0°C at 150°C		±2.5°C at 100°C, ±3.5 at 150°C
Heating power	2 x 170 W, 2 x 130 W		2 x 350 W, 2 x 450 W
Heat-up time	60 min. to 100°C 90 min. to 150°C	70 min. to 100°C 100 min. to 150°C	80 min. to 100°C 100 min. to 150°C
Timer & alarm	99hr 59 min (delay & continuous run), error status and timer end		
Resolution	control: ±1.0°C, display: ±1.0°C		
Height between shelves	87 mm	98 mm	133 mm
Vacuum inlet valve size	outer Ø10 mm		
Internal dimensions (W x D x H)	265 x 290 x 265 mm	300 x 330 x 300 mm	400 x 435 x 400 mm
External dimensions (W x D x H), net weight	480 x 475 x 552 mm, 48 kg	515 x 515 x 587 mm, 55 kg	618 x 620 x 687 mm, 85 kg
Packing size & gross weight	585 x 580 x 795 mm, 59 kg	620 x 620 x 830 mm, 67 kg	725 x 720 x 930 mm, 100 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz		
Power consumption	600 W	600 W	1,6 kW
Order number 230V	DH.SWOV03020	DH.SWOV03030	DH.SWOV03070
Order number 120V	DH.SWOV04020	DH.SWOV04030	DH.SWOV04070

Recommended vacuum pump for 18.6l- and 30l-oven: Rocker 810, see page 190

Recommended vacuum pump for 70l-oven: Rocker 800/Rocker 811, see page 190/191

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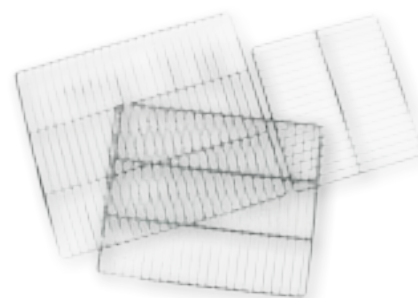
Oven

Accessories: shelves and plates

Wire shelves, stainless steel

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

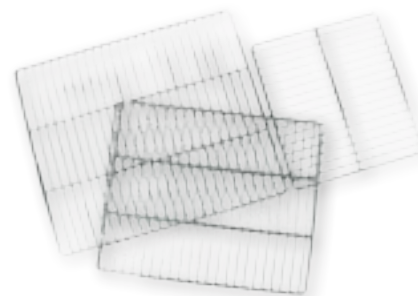
For device...	Measurements	Article	Order number
WON-32 / SWON-32	280 x 280 mm	ONS032	DH.WON11032
WON-50 / SWON-50	340 x 310 mm	ONS050	DH.WON11050
WON-105 / WON-W105 SWON-105 / SWON-W105	455 x 375 mm	ONS105	DH.WON11105
WON-155 / WON-W155 SWON-155 / SWON-W155	520 x 440 mm	ONS155	DH.WON11155



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



NEW

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



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
FP-60 / FHP-60	FS1160	DH.WF211.60