

Forced Convection Ovens (Programmable / General)

Specially designed for large volume and fast drying application. (max. 760L and 300 °C)

Offering rapid heating performance as well as uniform temperature distribution, these heavy-duty ovens are ideal for obtaining quick test results.



OF3-75P/PH, OF3-75/H

with optional viewing window

Standard accessories

- Wire shelves (2ea for 314L chambers, 3ea for 450/760L chambers)

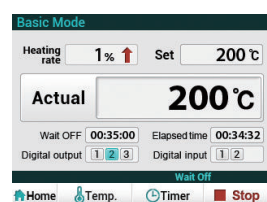
Optional accessories

see page 104

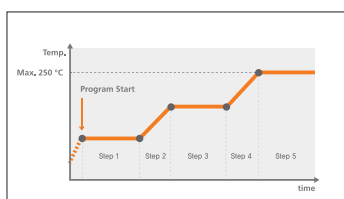
- Perforated shelves
- Digital recorders

Programmable model (OF3-P/PH)

for intelligent program control



Color touch LCD display



- 10 programs available for temperature ramp up and dwell control.
- 10 steps per a program and 99 hours 59 minutes per a step.
- Stored programs are easily linkable.
- Programs can be repeated up to 99 cycles.
- Pre-heating and heating time are settable before program starts.

General model (OF3/H)

for simple and quick control



Bright VFD display and quick adjustable dial knob

- Designed for offering the simplest control by user-friendly control panel.
- Set value and present value are shown on display at once.
- Easy adjustable knob for convenient set values and select functions.



Performance

- Rapid heating performance up to maximum 300 °C
- Microprocessor PID control.
- Three point temperature calibration / Automatic tuning.
- Forced air convection generated by two noiseless and powerful sirocco fans ensures optimal air circulation, temperature uniformity, and short heat-up time.
- Adjustable 5-speed fan for inner circulation rate.
- Adjustable dual slide vents for inner vapor circulation.
- Energy efficiency is achieved thanks to optimization of the insulation system.
 - Even if the unit is operating at max. temperature, the surface of the unit doesn't allow high temperatures.

Convenience

- Optimum model selection is available according to two different types of control panel.
 - Intuitive touch screen LCD controller with easy icons and logical menus. (for OF3P/HP)
 - Bright VFD display with quick adjustable dial knob. (for OF3/H)

- Dual wait on/off timer modes. (1 min. to 99 hr. 59 min.)
- Convenient presetting function for 3 most commonly used temperature settings.
- Rounded inner chamber corners for easy cleaning and optimal airflow.
- Corrosion-resistant incoloy sheath heating element and stainless steel interior.
- Threefold tempered-glass window provides clear inside view of the chamber. (optional)
- USB port and RS-232 port for external control and data collection.
- Casters for easy mobility during installation or relocation.

Safety

- Keypad lock function prevents accidental changes during operation.
- Automatic run after power interruption.
- Over-temperature and over-current protection.
- Audible and visible open door alarms.

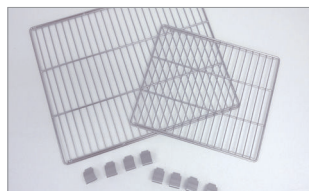
Programmable Model		OF3-30P	OF3-45P	OF3-75P	OF3-30HP	OF3-45HP	OF3-75HP
Chamber volume (L / cu ft)		314 / 11.1	450 / 15.9	760 / 26.8	314 / 11.1	450 / 15.9	760 / 26.8
Temperaure	Range (°C / °F)	Amb. +10 to 200 / Amb.+18 to 392			Amb. +10 to 300 / Amb.+18 to 572		
	Fluctuation ¹⁾ at 100 °C (±°C / °F)	0.2 / 0.36			0.2 / 0.36		
	Variation ¹⁾ at 100 °C (±°C / °F)	0.8 / 1.44			0.8 / 1.44		
Dimension (WxDxH)	Interior (mm / inch)	645x750x650 / 25.4x29.5x25.6	645x750x930 / 25.4x29.5x36.6	745x850x1200 / 29.3x33.5x47.2	645x750x650 / 25.4x29.5x25.6	645x750x930 / 25.4x29.5x36.6	745x850x1200 / 29.3x33.5x47.2
	Exterior (mm / inch)	850x1100x1235 / 33.5x43.3x48.6	850x1100x1525 / 33.5x43.3x60	950x1200x1785 / 37.4x47.2x70.3	850x1100x1235 / 33.5x43.3x48.6	850x1100x1525 / 33.5x43.3x60	950x1200x1785 / 37.4x47.2x70.3
	Net weight (Kg / lbs)	200 / 440.9	240 / 529.1	300 / 661.4	200 / 440.9	240 / 529.1	300 / 661.4
Shelves	No. of wire shelf (standard / max.)	2 / 5	3 / 8	3 / 11	2 / 5	3 / 8	3 / 11
	Max. load per shelf (kg / lbs)	25 / 55.1			25 / 55.1		
Electrical requirements (230V, 50/60Hz, A)		1P, 13.2	3P, 10.3	3P, 14.1	3P, 10.3	3P, 14.1	3P, 17.1
Cat No.	Solid door	AAH18615K	AAH186213K	AAH186313K	AAH196113K	AAH196213K	AAH196313K
	Window door	AAH18715K	AAH187213K	AAH187313K	AAH197113K	AAH197213K	AAH197313K
Electrical requirements (380V, 50/60Hz, A)			3P, 6.7	3P, 9.0	3P, 6.7	3P, 9.0	3P, 10.8
Cat No.	Solid door	-	AAH186214K	AAH186314K	AAH196114K	AAH196214K	AAH196314K
	Window door	-	AAH187214K	AAH187314K	AAH197114K	AAH197214K	AAH197314K
General Model		OF3-30	OF3-45	OF3-75	OF3-30H	OF3-45H	OF3-75H
Chamber volume (L / cu ft)		314 / 11.1	450 / 15.9	760 / 26.8	314 / 11.1	450 / 15.9	760 / 26.8
Temperaure	Range (°C / °F)	Amb. +10 to 200 / Amb.+18 to 392			Amb. +10 to 300 / Amb.+18 to 572		
	Fluctuation ¹⁾ at 100 °C (±°C / °F)	0.2 / 0.36			0.2 / 0.36		
	Variation ¹⁾ at 100 °C (±°C / °F)	0.8 / 1.44			0.8 / 1.44		
Dimension (WxDxH)	Interior (mm / inch)	645x750x650 / 25.4x29.5x25.6	645x750x930 / 25.4x29.5x36.6	745x850x1200 / 29.3x33.5x47.2	645x750x650 / 25.4x29.5x25.6	645x750x930 / 25.4x29.5x36.6	745x850x1200 / 29.3x33.5x47.2
	Exterior (mm / inch)	850x1100x1235 / 33.5x43.3x48.6	850x1100x1525 / 33.5x43.3x60	950x1200x1785 / 37.4x47.2x70.3	850x1100x1235 / 33.5x43.3x48.6	850x1100x1525 / 33.5x43.3x60	950x1200x1785 / 37.4x47.2x70.3
	Net weight (Kg / lbs)	200 / 440.9	240 / 529.1	300 / 661.4	200 / 440.9	240 / 529.1	300 / 661.4
Shelves	No. of wire shelf (standard / max.)	2 / 5	3 / 8	3 / 11	2 / 5	3 / 8	3 / 11
	Max. load per shelf (kg / lbs)	25 / 55.1			25 / 55.1		
Electrical requirements (230V, 50/60Hz, A)		1P, 13.2	3P, 10.3	3P, 14.1	3P, 10.3	3P, 14.1	3P, 17.1
Cat No.	Solid door	AAH18215K	AAH182213K	AAH182313K	AAH192113K	AAH192213K	AAH192313K
	Window door	AAH18315K	AAH183213K	AAH183313K	AAH193113K	AAH193213K	AAH193313K
Electrical requirements (380V, 50/60Hz, A)			3P, 6.7	3P, 9.0	3P, 6.7	3P, 9.0	3P, 10.8
Cat No.	Solid door	-	AAH182214K	AAH182314K	AAH192114K	AAH192214K	AAH192314K
	Window door	-	AAH183214K	AAH183314K	AAH193114K	AAH193214K	AAH193314K

1) Technical data according to DIN 12880.

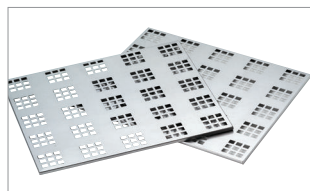
* CE for 380V, 50/60hz. * FDA establishment registered company. FDA listed products.

Accessories & Options

for Forced / Natural convection ovens



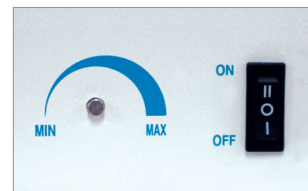
Wire shelves



Perforated shelves



Tempered viewing windows



Fan speed adjuster

Wire shelves

Stainless steel and electro-polished shelf system is removed easily without using tools for easy cleaning.

Cat. No.	Description			Suitable for
	Included	Maximum	WxL (mm / inch)	
EDA8136	2	7	366×316 / 14.4×12.4	OF-02G/P
	4	14		OF-02G-2C
	8	28		OF-02G-4C
EDA8135	2	11	446×366 / 17.6×14.4	OF-12G/P
EDA8134	2	13	516×416 / 20.3×16.4	OF-22G/P
EDA8136	2	9	366×316 / 14.4×12.4	OF-01E, ON-01E
EDA8135	2	13	446×366 / 17.6×14.4	OF-11E, ON-11E
EDA8137	2	14	576×419 / 22.7×16.5	OF-21E, ON-21E
RTD1196	2	16	708×608 / 27.9×23.9	OF3-30/P/H/HP
	3	25		OF3-45/P/H/HP
RTD1197	3	34		OF3-75/P/H/HP
EDA8136	2	7	366×316 / 14.4×12.4	ON-02G
EDA8135	2	11	446×366 / 17.6×14.4	ON-12G
EDA8137	2	13	576×419 / 22.7×16.5	ON-22G

Perforated shelves

Stainless steel shelf system is removed easily without using tools for easy cleaning.

Cat. No.	Description		Suitable for
	Maximum	WxL (mm / inch)	
AAA12531	7	366×316 / 14.4×12.4	OF-02G/P
	14		OF-02G-2C
	28		OF-02G-4C
AAA12532	11	446×366 / 17.6×14.4	OF-12G/P
AAA12533	13	516×416 / 20.3×16.4	OF-22G/P
AAA12531	9	366×316 / 14.4×12.4	OF-01E, ON-01E
AAA12532	13	446×366 / 17.6×14.4	OF-11E, ON-11E
AAA12535	14	576×419 / 22.7×16.5	OF-21E, ON-21E
AAA18501	16	708×608 / 27.9×23.9	OF3-30/P/H/HP
	25		OF3-45/P/H/HP
AAA18502	34		OF3-75/P/H/HP
AAA12531	7	366×316 / 14.4×12.4	ON-02G
AAA12532	11	446×366 / 17.6×14.4	ON-12G
AAA12535	13	576×419 / 22.7×16.5	ON-22G

Tempered viewing windows

Optimized sample monitoring with threefold, tempered safety glass window. (for OF-G/P, ON-G)

Cat. No.	Description		Suitable for
	Thickness, WxL (mm / inch)		
AAA12611	5, 150×280 / 0.2, 5.9×11		OF-02G/P, ON-02G
AAA12612	5, 150×380 / 0.2, 5.9×15		OF-12G/P, 22G/P, ON-12G, 22G

Fan speed adjuster

Adjustable inner air circulation speed, which protects spreading out powder sample. (for OF-G)

Cat. No.	Description	Suitable for
AAA12701	Analog dial control	OF-02G, 12G, 22G

Recorders

Easy recognizable digital recorders for efficient temperature indicating.

Cat. No.	Description	Suitable for
AAA8T500	Recorder (6 point)	OF3-30/P/H/HP OF3-45/P/H/HP
AAAE1503	Recorder (thermal line type)	OF3-75/P/H/HP