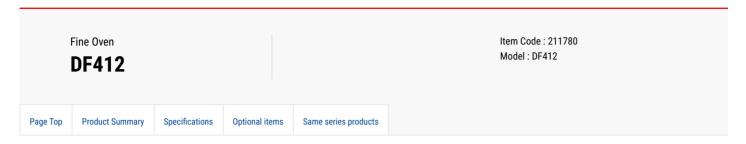
Products for Industry

➤ Scientific and Industrial equipment → Constant temperature and drying oven





Fine Oven (DF412)

Contact Us printing

Product Summary

Highly reliable accuracy oven with simple settings for various temperature characteristics test that require complicated programming.

Features of Fine Oven (DF412)

Features

Simple Operation by Interactive Key Input.

Features

Operation Monitor visualizes Controller Status, Temp and Temp. Changing.

Features

Incorporates with maximum 99 steps, 99 patterns program controller with repeat function.

Features

Loaded with Total Operation Hours Timer.

Features

Exhaust damper allows quick exhaust and cooling of inside.

Features

Accumulated timer function useful for maintenance and management is equipped as standard.

Features

Cable port useful for a monitor for temperature during testing is equipped as standard.

Specifications

Specifications

Model Part System Forcet convection and ventilation Operating temp, range Room temp, +15 to 26/FC Temp, Central accuracy (TTM K65) #1.5°C (at 26/FC) Temp, Settlandrian accuracy (TTM K65) #1.5°C (at 26/FC) Temp, distribution accuracy (TTM K65) #1.5°C (at 26/FC) Temp, gradient (18) #10°C (at 26/FC) Temp, gradient (18) #10°C (at 26/FC) Temp, gradient (18) #10°C (at 26/FC) Temp, control system Part Part	n 0. 4	244720
Forced convection and ventilation	Item Code	211780
Operating temp, reage Room temp, +15 to 260°C Temp, control accuracy (LTM K95) 10.1°C (xt 260°C) Temp, distribution accuracy (LTM K95) 11.5°C (xt 260°C) Temp, distribution accuracy (LTM K95) 11.5°C (xt 260°C) Time to attain max. temp. Approx. 50 min. (to 260°C) Time to attain max. temp. Approx. 50 min. (to 260°C) Temp, and time actting system Pilo control with a micro computer Temp, and time actting system Digital Setting by UP/DOWN Key Timer display range Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting Operation and manipulation functions Fixed temp. Auto-start, Auto-stop, Quick auto stop, program (Max. 59 steps, 59 patterns, repeat) Additional functions Collection timer (max. 74 hrs.), integration time (max. 655354rs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Co2 discharge/fielater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity chargestale function Sonsor Double K-thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.14W Blower fan (motor) Axial flore fan (capacitor motor) Cable port 10.33 mm (rear) Glass wool Other additional mechanism Echaust damper (manual) Safety device Self diagnosis functions (Sensor, Fan, Heater, Relay, Tirac, Automatic overheat prevention, Independent overheat prevention, Key lock function, Electric leskage breaker, Doer switch Accessories Shelf support 4 pcs Accessories Shelf support 4 pcs Internal dimensions (W-D-H mm) 450-450-450 mm	Model	DF412
Temp. control accuracy (JTM K05)	System	Forced convection and ventilation
Temp. floctuation (JIS) 11.5°C (at 260°C) Temp. distribution accuracy (JTM N85) 21.5°C (at 260°C) Temp. gradient (JIS) 110°C (at 260°C) Time to attain max. temp. Approx. 59 min. (to 260°C) Time to attain max. temp. PID control with a micro computer Temp. and time setting system Digital Setting by IJP/DOWN Key Timer display range Fixed temp., Auto start, Auto stop, Duick auto stop, program (Max. 99 steps., 99 patterns, repeat) Operation and manipulation functions Fixed temp., Auto start, Auto stop, Duick auto stop, program (Max. 99 steps., 99 patterns, repeat) Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Colembar timer (max. 24 lins.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Disp	Operating temp. range	Room temp. + 15 to 260°C
Temp. distribution accuracy (JTM K05)	Temp. control accuracy (JTM K05)	±0.1°C (at 260°C)
Temp. gradient (JIS)	Temp. fluctuation (JIS)	±0.5°C (at 260°C)
Time to attain max. temp. Approx. 50 min. (to 260°C) Temp. control system PiD control with a micro computer Temp. and time setting system Digital Setting by UP/DOWN Key Timer display range Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting Operation and manipulation functions Fixed temp, Auto-start, Auto-start, Auto-storp, Quick auto-stop, program (Max. 99 steps., 99 patterns, repeat) Additional functions Calendar timer (max. 24 Hrs.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions Co2 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K-thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port 1.0. 33 mm (rear) Heat insulator Glass wool Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric teakage breaker, Door switch No.of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W-D-H mm) 455×450×450mm	Temp. distribution accuracy (JTM K05)	±1.5°C (at 260°C)
Temp. control system PID control with a micro computer Temp. and time setting system Digital Setting by UP/DOWN Key Timer display range Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting Operation and manipulation functions Fixed temp., Auto-start, Auto-stop, Quick auto stop, program (Max. 99 steps, 99 patterns, repeat) Additional functions Calendar timer (max. 24 Hrs.), integration time (max. 6553SHrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions CO2 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K-thermocouple Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port 1.0. 33 mm (rear) Heat insulator Glass wool Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Internal dimensions (W+D+H mm) 450×450×450mm	Temp. gradient (JIS)	±10°C (at 260°C)
Temp. and time setting system Digital Setting by UP/DOWN Key Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting Operation and manipulation functions Fixed temp., Auto start, Auto-stop, Quick auto stop, program (Max. 99 steps, 99 patterns, repeat) Additional functions Calendar timer (max. 24 Hrs.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions CC2 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K-thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port I.D. 33 mm (rear) Glass wool Other additional mechanism Eshaust damper (manual) Safety device Self diagnosis functions (Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No.of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf upport 4 pcs Internal dimensions (W-D-H mm) 450×450×450mm	Time to attain max. temp.	Approx. 50 min. (to 260°C)
Timer display range Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting Operation and manipulation functions Fixed temp., Auto-start, Auto-stop, Quick auto stop, program (Max. 99 steps, 99 patterns, repeat) Additional functions Calendar timer (max. 24 Hrs.), Integration time (max. 65535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption Additional functions CO2 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K-thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port I.D. 33 mm (rear) Glass wool Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions (Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W-D-H mm) 450×450×450mm	Temp. control system	PID control with a micro computer
Operation and manipulation functions	Temp. and time setting system	Digital Setting by UP/DOWN Key
Additional functions Calendar timer (max. 24 Hrs.), Integration time (max. 6535Hrs.), Clock, Calibration off-set, Display the amount of Power consumption C02 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port 1.D. 33 mm (rear) Heat insulator Glass wool Other additional mechanism Exhaust damper (manual) Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key look function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf upport 4 pcs Internal dimensions (W*D×H mm) 450×450×450mm	Timer display range	Fixed value operation for 1 min. to 99 hr 59 min. and 24hr. setting
Additional functions CO2 discharge/Heater operation amount, Power failure recovery mode, User setting information save and recall, Wind velocity changeable function Sensor Double K-thermocouple Heater Stainless pipe heater with a fan Nominal heater capacity 2.1kW Blower fan (motor) Axial flow fan (capacitor motor) Cable port I.D. 33 mm (rear) Glass wool Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No.of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W*D×H mm) 450×450×450mm	Operation and manipulation functions	Fixed temp., Auto-start, Auto-stop, Quick auto stop, program (Max.99 steps, 99 patterns, repeat)
Nominal heater capacity 2.1kW	Additional functions	
Nominal heater capacity 2.1kW	Additional functions	
Nominal heater capacity 2.1kW	Sensor	Double K-thermocouple
Blower fan (motor) Cable port I.D. 33 mm (rear) Heat insulator Glass wool Other additional mechanism Exhaust damper (manual) Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Heater	Stainless pipe heater with a fan
Cable port Heat insulator Glass wool Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Nominal heater capacity	2.1kW
Heat insulator Other additional mechanism Exhaust damper (manual) Safety device Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Blower fan (motor)	Axial flow fan (capacitor motor)
Other additional mechanism Exhaust damper (manual) Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Cable port	I.D. 33 mm (rear)
Self diagnosis functions(Sensor, Fan, Heater, Relay, Triac, Automatic overheat prevention), Independent overheat prevention, Key lock function, Electric leakage breaker, Door switch No. of shelf stages/peg pitch 9 stages/45 mm Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Heat insulator	Glass wool
No. of shelf stages/peg pitch Accessories Shelf Accessories Shelf support Accessories Shelf support Accessories (W×D×H mm) 450×450×450mm	Other additional mechanism	Exhaust damper (manual)
Accessories Shelf 2 pcs Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	Safety device	
Accessories Shelf support 4 pcs Internal dimensions (W×D×H mm) 450×450×450mm	No.of shelf stages/peg pitch	9 stages/45 mm
Internal dimensions (W×D×H mm) 450×450×450mm	Accessories Shelf	2 pcs
	Accessories Shelf support	4 pcs
External dimensions (W×D×H mm) 1050×630×850mm	Internal dimensions (W×D×H mm)	450×450×450mm
	External dimensions (W×D×H mm)	1050×630×850mm

Remarks(dimensions)	91L
Power Source	AC220V 10A Single-phase
Weight	112kg

Maintenance and warranty

Conditions: temperature and humidity: 23 deg.C+/-5 deg.C, 65%RH+/-20% (no load)

External dimensions do not include protrusions.

Optional items







Same series products

