

# Far Infrared Ray Oven

Far infrared heating

DIR631C

Forced convection circulation

Auto overheat prevention

Overheat protector

Self-diagnosis function

Key lock function

Power outage compensation

Overcurrent electric leakage breaker

Temp. range RT+10 ~ 360°C

Temp. distribution accuracy ± 3.0°C(at 360°C)

Making use of features of far infrared ray heater (IR heater), used for heat treatment of polymer materials.



## Features

- The max. working temp. is 360°C.
- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Use specialized function menu key and up/down key to set. With repeat function, the program controller has 3 segments and 30 steps.
- Use submenu key to operate overheat protector, deviation correction and key lock.
- Allows quick exhaust and cooling in the unit with the exhaust damper.

## Safety

- Self-diagnosis circuit (abnormal temp. sensing, heater disconnection, auto overheat prevention, SSR short circuit), overheat protector, ELB to prevent overcurrent, key lock, etc.

## Specifications

Model	DIR631C	
System	IR radiation+Forced convection circulation and ventilation	
Performance	Operating temp. range	RT+10 ~ 360°C
	Temp. control accuracy	±0.2°C ( at360°C , IR heater OFF )
	Temp. distribution accuracy	±3.0°C ( at360°C , IR heater OFF )
	Max. temp. reaching time	100min ( RT to 360°C , IR heater OFF )
Structure	Heater of unit body	Stainless steel heating pipe with fin 3.75kW
	IR heater	0.2kW×16pcs×up and down 6.4kW in total
	Motor-Fan	Capacitive motor 20W+axial flow fan
	Sensor	Double K thermocouples×1 (for unit body temp. controller and overheat protector) K thermocouple×2 (for IR heater which is built in the center)
	Cable hole	I.D. 30mm (at back)
	Other additional function	Exhaust damper (manual)
Controller	Control method	PID control (unit body)
	Operation function	Fixed temp., program, quick auto stop, auto stop and auto start operation
	Additional function	Deviation correction, key lock, power outage compensation, door open&close detection
Safety device	ELB	Electric leakage, short circuit, overcurrent protection
	Overheat protector	Auto cut off the heater circuit when overheating
	Self-diagnosis function	Abnormal temp. sensing, heater disconnection, auto overheat prevention, SSR short circuit
Spec.	Internal dimensions (W×D×Hmm)	600×600×600
	Effective dimensions (W×D×Hmm)	600×600×200
	External dimensions (W×D×Hmm)	1200×780×1000
	Space between IR heaters	200mm
	Weight	Approx.230kg
Accessories	Power supply	3 phase 380V 50/60Hz 18A
	Shelf plate	Stainless steel wire screen plate
	Shelf rest	1 pc
	Stand	2 pcs
Options	Stand	OP62C
	Others	Shelf plate (1 plate with 2 rests), recorder, indicator lamp (stand-by/running/malfunction), external communication (RS485), temp. output terminal (4~20mA), Output terminal for alarm device, time up output terminal

## Control panel



Controller for unit body control

Indendent overheat protector

Controller for IR heater control

## Chamber

