Far Infrared Ray Ovens | Far Infrared Heating

DIR631C

Forced Convection | Automatic Overheating Preventer | Overheating Preventer | Self-diagnostic Function | Key Lock Function | Power Failure Compensation Function | Overcurrent Leakage Circuit Breaker

Operating temp. range	RT+10~360℃

Temp. distribution accuracy	±3.0℃ (at 360℃)

It uses the properties of far infrared ray heaters (IR heaters) for thermal treatment of polymer materials and other applications.

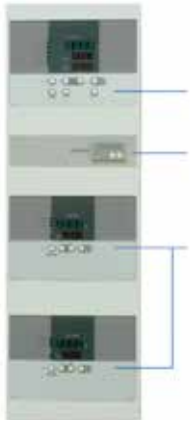
Features

- High temperature natural convection ovens with maximum operating temperature 360℃.
- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Digital setting through special function menu keys and ▲/▼ keys. 6 modes with a total of 90 segments program controller.
- Overheating protection, deviation correction and key locking through submenu keys.
- Quick exhaust and cooling through exhaust dampers.

Safety

- Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), independent overheating preventer, overcurrent leakage protection, key lock and other safety functions.

Control panel



Internal chamber

Specifications

Model			DIR631C
System			IR radiation + Forced convection and ventilation
Performance	Operating temp. range		Room temp. +10~360℃
	GB standard	Temp. fluctuation	±0.2℃ (at 360℃, IR heater off)
		Temp. deviation	±5℃ (at 360℃, IR heater off)
	JTM standard	Temp. adjusting accuracy	±0.2℃ (at 360℃, IR heater off)
		Temp. distribution accuracy	±3℃ (at 360℃, IR heater off)
	Max. temp. reaching time		100 min (from room temperature to 360℃, IR heater off)
Composition	Main body heater		Fin-type stainless steel heating tube 3.75kW
	IR heater		0.25kW×16 pcs×upper and lower surfaces
	Motor · fan		Capacitor-type motor 20W + axial flow fan
	Sensors		K-type thermocouple double probe×1 (for main body temperature controller and overheating preventer)
			K-type thermocouple×2 (for IR heater, centrally embedded in IR heater)
	Cable port		I.D. 30 mm, located at the back
	Other additional functions		Exhaust vent (manual type)
Controllers	Control method		PID control (main body)
	Operating functions		Fixed temp. operation, program operation, quick automatic stop, automatic stop, automatic start
	Additional functions		Deviation correction function, key lock function, power failure compensation function, door switch detection
Safety device	Leakage circuit breaker		Leakage, short circuit, and overcurrent protection
	Overheating preventer		Automatically cut off the heater circuit when overheating occurs
	Self-diagnostic function		Temperature sensor abnormality, heater disconnection, SSR short circuit, automatic overheating prevention function
Specifications	Internal dimensions (W×D×H mm)		600×600×600
	Effective dimensions (W×D×H mm)		600×600×200
	External dimensions (W×D×H mm)		1200×780×1000
	Internal capacity		216L
	IR heater upper and lower spacing		200mm
	Weight		Approx. 230kg
	Power supply (50Hz)		380V 18A
Accessories	Shelf		Stainless steel wire mesh plate
			1 pcs
	Supports		2 pcs
Options	Stand		OP62C
	Others		Shelves (1 shelf with 2 shelf supports), micro printer, data logger, combined warning light (standby/running/fault), external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software