



HGL-5504 Far Infrared Belt Dryer

MODEL AND EQUIPMENT NAME

HGL-5504 Far Infrared Belt Dryer

APPLICATIONS

Solar Cell ink/paste drying

TECHNICAL SPECIFICATIONS

Temperature Range

Max temperature: 300° C; typical operating temperature: 250° C

Parameters (Unit of Measure: mm/inch)

1. Entrance Opening: 600mm×25mm / 24" x 1"
2. Effective Height: 15mm / 0.6"
3. Belt Width: 550mm / 22"
4. Entrance Loading Table: 800mm×800mm(L×H), stainless steel surface, 32"×32" (L×H)
5. Exit Unloading Table: 800mm×800mm(L×H), stainless steel surface, 32"×32" (L×H)
6. Working Chamber Size: 3500mm×880mm×180mm(L×W×H), 140"×35"×7.2" (L×W×H)
7. Conveyor: Belt
8. Alarm Protection: Thermocouple failure, over temperature and belt stop, overload of electric motor and other audible and visual alarm
9. Belt Speed: 250~1500 mm/min, 10" – 60"/min

Electrical System

1. Rated Power: 32kw
2. Typical Operating Power: ≤15Kw (250° C soaking)
3. Power Supply: 380V , 50Hz, 3 phase, 5 wire (A、 B、 C、 Ground、 neutral)

Insulation System

1. Chamber Material: Stainless steel
2. Insulation Materials: High & pure fiber material. Its density: > 300kg/m3

Control System

1. Control Method: Imported single loop intelligent temperature controller (Japanese made Shimadan is the default one), PID control and parameter auto-tuning
2. Heated Zones: 4 zones, Zone 1: 500mm / 20", Zone 2" 500mm /20", Zone 3: 1000mm /40", Zone 4: 500mm/20"
3. Heating Element: Far infrared heater



4. Temperature Controls: 4 points
5. Control Accuracy: $\pm 2^{\circ}$ C
6. Cross Belt Temperature: $\pm 3^{\circ}$ C

Overall Furnace Layout (Unit of Measure: mm / inch)

1. Working Chamber Length: 3500 mm / 140"
2. Entrance and Exit Loading Tables: 800 mm / 32"
3. Cooling: At Exit end, forced air cooling
4. Exhaust: At entrance end
5. Overall Dimensions: 5100mm \times 1100mm \times 1500mm(W \times D \times H), 204" x 44"x60" (W \times D \times H)

Facility Requirements

1. Exhaust: 500CPH, non-contact exhaust, 294 CFM
2. Facility Layout: 6000mm \times 1300mm \times 1500mm(L \times W \times H), 240" x 52" x 60" (L \times W \times H)
3. Weight: Equipment weight: >1200kg, flat, no obvious vibrations
4. Environment: Flat ground, no big air draft; environmental temperature in electric control room: 0-40 $^{\circ}$ C, environmental humidity: 10%~85%RH
5. Power Conditions: 380V , 50Hz, 3 phase, 5 wire (A,B,C, ground, neutral), over 100KVA