

VSU45

Vacuum Reflow Soldering Oven

Specifications:

Process environment: nitrogen, inert gas, formic acid

Heating plate: size 420 x 420 mm

Clearance vertical: 80mm between bottom and top heating, 60mm above the heating plate (90mm with single heating)

Chamber lid: manual operation with lid lock

Viewing port: 2x Ø20mm left and right in lid

Maximum temperature: 450°C, Control deviation: +/- 0.5°C

Heating elements: 8x / 16x with dual heating) infrared lamps in one or two crossed rows

Ramp heat up max.: 250°C/minute

Ramp cool down max.: 250°C/minute

Temperature measurement and control: up to 4x K-Type thermocouples freely positional

Heating control: Individual power control with adjustable power gain on every heating lamp, 3D power profile is available

Vacuum measurement: integrated vacuum gauge down to 5mbar

Process gas lines with digital flow meters: L1: 100slm, L2: 100slm, L3 via bubbler: 10slm(optional), Cooling: 100slm

Chamber cooling: water cooling. Built in water-to-air chiller

Power supply: 3P+N+PE star wiring, 400/230V, 50Hz, 22A or 3P+PE delta wiring, 208/120V, 60Hz, 24A

Dimensions and weight: 715 mm(W) x 930 mm(D) x 1500 mm(H), 280 kg

Interfaces: PC Software for process logging, file transfer; External user interface for remote control: Interface for control of vacuum pump and turbo pump



Options:

[P] Positive pressure capability up to 3bar positive

[D] Dual heating, 8x additional heaters in lid

[FC] Automatic flow control of process gas lines

[B] Formic acid bubbler 40ml with 1L container box and auto refill system in front panel

[E] Additional gas line with needle valve

[G] Pressure measurement down to 1x10⁻⁴mbar over separate vacuum gauge

[I] Independent overheat protection over separate thermocouple

[T3] Signal indication, 3 colors (red, green, amber) + buzzer

[VL] Vacuum flow limiter for slow evacuation

[HV] High vacuum up to 1x10⁻⁵mbar with turbo pump (including vacuum gauge)

[D15] Vacuum pump, 15 m³/hour, ultimate vacuum 1Pa

[D30] Vacuum pump, 30 m³/hour, ultimate vacuum 1Pa

Warranty: 12 months

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