

VSU28

Vacuum Reflow Soldering Oven

Specifications:

Process environment: nitrogen, inert gas, formic acid, forming gas

Heating plate: size 260 x 210 mm

Clearance vertical: 50mm above the heating plate, 80mm between bottom and top heating with option D

Chamber lid: manual operation with lid lock

Viewing port: Ø80mm (not available with option D)

Maximum temperature: 650°C, Control deviation: +/- 0.5°C

Heating elements: 8x/16x infrared heating lamps in one/two rows

Ramp heat up / cool down max.: 250/250 °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

Integrated overheat protection: electrical thermostat

Vacuum measurement: integrated vacuum gauge down to 5mbar

Process gas lines with manual flow meters (automatic MFC with option FC) with digital readout: L1: 100slm, L2: 100slm, L3: 10slm (via formic acid bubbler with option B), Cooling line: 100slm

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

Power supply: 3P+N+PE star wiring, 400/230V, 50Hz, 11/22*A or 3P+PE delta wiring, 208/120V, 60Hz, 19/24*A (*with option D)

Dimensions and weight: 550 mm(W) x 650 mm(D) x 1400 mm(H), up to 125 kg

Interfaces: PC Software for process logging, recipe transfer; External user interface for remote control



Options:

[P] Positive pressure capability up to 3.5bar positive

[D] Double heating (bottom + top)

[FC] Automatic flow control of process gas lines

[B] Formic acid bubbler with auto refill and box for 1L container

[E] Additional gas line with manual flow adjust

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

[C] Convection preheat on inlet gas flow with individual thermocouple; requires [D]

[I] Independent overheat protection over separate thermocouple

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

[L] Clearance above heating plate +50mm; don't combine with [P]

[VL] Vacuum flow limiter for slow evacuation

[D15] Dry vacuum pump

Delivery time: 2-4 weeks for VSU28-D and optional FC, B, E, G, C, I, T3, VL, D15; Other setup 1-3 months

Warranty: 12 months

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