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Ersa hotflow 3 20 operators manual

Ersa powerflow.

Excellent heat transfer with the most varied board assemblies Rest-oxygen monitoring and control with low N2 consumption Low energy consumption through intelligent energy management Multi-level controlled cooling Multi-level process gas cleaning system "On the fly" maintenance for increased machine availability / uptime Multi-track conveyor system (1-4 tracks) Ersa Process Control (EPC) for continuous process monitoring Ersa Auto Profiler software for quickly generating temperature profiles The Ersa HOTFLOW 3/20 Reflow Soldering System is of robust design and manufactured entirely from steel, welded air-tight, powder coated and with interior electric cabinet and a PC operating terminal. Features include the motorized hood opening, quick-change convection heater cassettes, multi-level process gas cleaning and a powerful and effective cooling zone. Speed controlled pin-and-chain conveyors adapted to all pick-and-place systems, with up to 4 tracks and connectable center supports Extensive, clearly arranged operating software for easy handling; storage of temperature profiles as well as product data Process data acquisition and traceability link including printed circuit board tracing Multi-track conveyor system with separate drives each track Connectable center supports Inert atmosphere feature with rest-oxygen monitoring and control Metering of N2 consumption Power-cooling with 3 convection modules and "on the fly" process gas cleaning Emergency power supply Ersa Process Control (EPC) Auto Profiler Computation of energy consumption Quick profile change Up to 4 tracks with center support can be installed (1 track fixed, 3 tracks movable) - increasing the flexibility of the system Length: 6,590 mm Width: 1,530 mm Height: 1,450 mm Weight: appr. 3,200 kg Working width: 45-580 mm automatically infinitely adjustable Clear passing height: +25 (35)/-37 mm Centre support, automatically infinitely adjustable Conveyor speed: 20-200 cm/min Pin-and-chain conveyor with 3 / 4 / 5 mm pin length Process length: 5,190 mm Heated length: 3,700 mm Cooling length: 1,490 mm Up to 20 convections heating cassettes (Preheating up to 14 cassettes, reflow zone up to 6 cassettes) Volumetric flow rate each module adjustable up to 500 m3/h Rated power each module: 3.3 kW Up to 4 levels cooling zone with water back-cooling 400 V, 3 Phase, N, Ground, 50/60 Hz Continuous output during operation: appr. 12-19 kW Extraction rate 2x 400 m3/h with monitoring feature X-TOOL VARIO2 Pages Dual track transport increases throughput Optimized heat transfer, minimized AT zone Separation Internal cooling Lowest energy consumption Removable heating modules top and bottom Extreme low-mass center support ERSASOFT Process Data Recorder ERSASOFT - user-friendly machine control Auto profiler for rapid offline profiling The Ersa HOTFLOW 3/20e Reflow System is of robust design and manufactured entirely from steel, welded air-tight, powder coated and with interior electric cabinet and a PC operating terminal. Features include the motorized hood opening, quick-change convection heater cassettes, multi-level process gas cleaning and a powerful and effective cooling zone. Pin-and-chain conveyor with low-mass center support Automatic adjustment of the conveyor width and the center support Up to 2 tracks with center supports possible in the system For single track systems, low-mass tubular supports are available Operating in ambient atmosphere, internal cooling with room air RPMs of fan motors are adjustable via frequency converters Pin-and-chain conveyor 3 / 4 / 5 mm pin length Length: 6,265 mm Width: 1,201 mm Height: 1,375 mm Weight: appr. 1,900 kg Working width: 45-516 mm automatically infinitely adjustable Clear passage height: +35/-37 mm Center support, automatically infinitely adjustable Conveyor speed: 20-200 cm/min Pin-and-chain conveyor with either 3 / 4 / 5 mm pin length Process length: 4,840 mm Heated length: 3,725 mm Cooling length: 1,115 mm Up to 20 convection heating cassettes (Preheat zone up to 14 cassettes, reflow zone 6 cassettes) Volumetric flow rate each module, adjustable, up to 500 m3/h Rated power each module: 3.3 kW Rated power last module: 4.5 kW Three-stage cooling zone with air 400 V, 3 Phase, N, Ground, 50/60 Hz Continuous output during operation: appr. 12-16 kW Extraction capacity: stack at entry of system 300 m3/h; stack at exit of system 400 m3/h, both with monitoring feature The new, unique SMART CONVECTION POWER UNIT (SCPU®) enables previously unattained soldering quality. The perfectly tuned motor control operates highly efficiently and reduces energy consumption. Features: Benchmark in reflow soldering higher performance reduced energy consumption sustainable manufacturing With excellent and convenient software for intuitive operation and accurate process data acquisition. Features: maximum user-friendliness user-friendly industrial PC with touch screen easy MES connection thanks to standard interfaces real-time data due to standardization traceability (process information) Inspiring machine uptimes (OEE) thanks to the 3-stage Ersa SMART CLEANING system with perfect accessibility. Features: less maintenance increased Overall Equipment Effectiveness higher throughput and performance fast cooling/profile change With a wide range of configurations and equipment options, the HOTFLOW THREE always fits your requirements. Features: flexible transport system Nitrogen flexibility Prodrive Technologies from the Netherlands is expanding its production capacity with a state-of-the-art SMD line - an Ersa HOTFLOW THREE reflow soldering system.



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