

JT

VS/NS 800 - 1000 Series Reflow Ovens



QUALITEK

A Global Provider Of Soldering Solutions



VS/NS 800 - 1000 Series Reflow Ovens (8 or 10) Zone

Qualitek International, Inc. is a leading supplier of soldering materials for use in the electronics assembly industry. Qualitek has incorporated JT reflow ovens and wave soldering systems expanding the product line and providing lead free solutions. This combination provides a single established and successful source for service and support of materials and affordable equipment.

Introducing the New - VS/NS 800-1000 Series Reflow Ovens

JT Lead Free VS/NS 8 & 10 Zone Series Reflow Ovens

The JT designed reflow ovens VS Series are the first of their kind utilizing a built in KIC 24/7 auto focus with SPC charting, thermal analysis and production data traceability. All data is backed up automatically and easily accessed for ISO 9000 management. JT reflow ovens utilize a highly efficient design for uniform heating and zone to zone control. Models feature standard rail/mesh conveyors with auto lubrication. Nitrogen capable machines utilize flux management systems with self-contained chillers.

+ DUAL THERMAL SENSORS

Dual Thermal Sensors will protect heaters and turn off power when an over temperature condition exists.

+ VS-SERIES BUILT IN KIC 24-7

VS series has a built in KIC 24-7 system to provide real time process monitoring, SPC charting, thermal analysis, and production data traceability.

+ HIGH PERFORMANCE

High efficiency design of conveyor rail, force convection, and heating chambers, comply with the requirements of high performance lead free processes.

+ LOW DELTA-T

Low Delta-T across the newly designed heating tunnel provides optimum reflow results and solder joint reliability.

+ STEP FORCE COOLING SYSTEM

Step force cooling system achieves the requirements for strict lead free process. (Cooling slope $\geq 3\text{deg C/sec.}$)

+ AUTO BACK UP

All production data will backup automatically for ISO-9000 management.

+ TEMPERATURE & BLOWER

Temperature and blower speed are independently controlled.

+ CONTROL SYSTEM

+ Windows XP Operating System + IBM Computer
+ 15" Flat Panel Display + Three Operating Modes: Running/Demo/Edit + On Line Edit Function + User Friendly Software + Auto-Power ON/OFF Control

+ N² ATMOSPHERE & ANALYZER

Optional N₂ atmosphere provides a low oxygen ppm level and the optional N₂ analyzer can track these levels as low as 80ppm. The N₂ System also has a closed loop refrigerated cooling system.

+ FLUX MANAGEMENT SYSTEM

The flux management system pulls gas from the system to keep the oven clean and provide an easy to maintain system. The active cooling and flux management can also be added to air systems to enhance the cooling and provide a way to trap flux and solvents.

+ RAIL/MESH CONVEYOR

Combination rail / mesh conveyor are standard features and come with an automatic oiling system.

+ CENTER BOARD SUPPORT

An optional center board support system is also available when the mesh belt is not needed.



A Standard Combo Pin Chain Conveyor & Mesh Belt



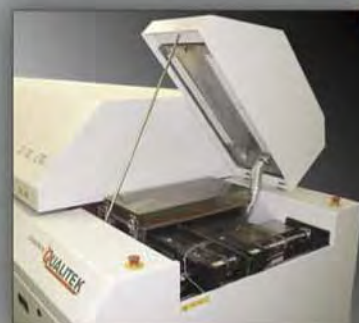
B Oven has 8 Zones 122" or 10 Zones 153" of Heating Length



D Active Cooling And Flux Management Are Standard With The Nitrogen Option And Can Be Added To Air Machines For Added Performance



C All Rear Covers Open For Easy Access And Maintenance



E Exhaust Ports & Buffer Area For Efficient Heat And N2 Control At Load And Unload Ends



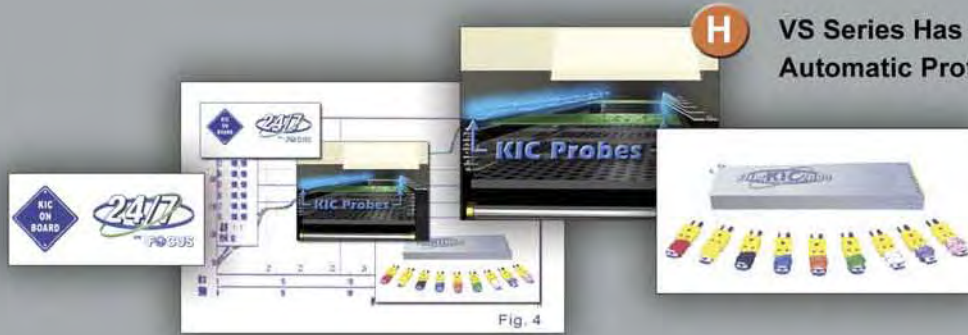
F

Exit Conveyor Has Open Area For Easy Board Removal



G

Nitrogen Atmosphere & Oxygen Analyzer



H

VS Series Has KIC 24/7 Automatic Profiler



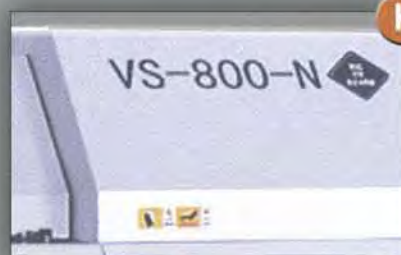
I

IBM Computer with Windows XP and Siemens PLC



J

Heavy Duty Solid Frame Construction Tubular Welded



K

Power Hood For Easy Access

QUALITEK

A Global Provider Of Soldering Solutions



JT REFLOW OVENS 800-1000 VS/NS 8 & 10 ZONE SERIES

STANDARD FEATURES OF HEATING ZONE

MODEL	VS-800/VS-800-N	VS-1000/VS-1000-N	NS-800/NS-800-N	NS-1000/NS-1000-N
No. Of Heating Zones	8 Top / 8 Bottom	10 Top / 10 Bottom	8 Top / 8 Bottom	10 Top / 10 Bottom
Length Of Heat Zone	3121mm / 123" in.	3891mm / 153" in.	3121mm / 123" in.	3891mm / 154" in.
No. Of Cooling Zones	2			
Exhaust Volume	10m ³ /min*2 Sets			

STANDARD FEATURES OF CONVEYOR SYSTEM

Max. Width Of PCB	400mm			
Range Of Rail Width/Adj.	50~400mm/Motorized			
Available Components Ht.	25mm - (PCB, Top Side Clearance, Bottom Side Clearance)			
Conveyor Direction	Left to Right (Option: Right to Left)			
Fixed Rail Side	Front Rail Fixed (Option: Rear Rail Fixed)			
PCB Transmission Agent	Chain/Mesh (Option For Nitrogen Reflow)			
Conveyor Height	900 ±20mm			
Conveyor Speed Range	0~2000mm/minutes			

STANDARD FEATURES OF CONTROL SYSTEM

Supply	3 phase, 380V 50/60Hz (3 phase 220V 50/60Hz optional)			
Power (Total Consumption)	64KW/67KW	80KW/83KW	64KW/67KW	80KW/83KW
Starting Power	23KW/24KW	29KW/30KW	23KW/24KW	29KW/30KW
Operating Power Consumption	12KW/14KW	14KW/16KW	12KW/14KW	14KW/16KW
Warm Up Time	Approx. 25 minutes			
Range Of Temp. Control	300°C			
Temp. Control Method	PID Close Loop Control +SSR Driving			
Precision Of Temp. Control	±1°C			
Temp. Deviation Tolerance	±1.5°C			
Data Storage	Process Data and Status Storage (40GB)			
Abnormal Alarm	Abnormal Temperature (Extra-high/Extra-low Temp.)			
Board Drop Alarm	Tower Light: Yellow-Warming; Green-Normal; Red-Abnormal			

THERMAL MANAGEMENT SYSTEM AND ANALYSIS ON THE OVEN

KIC 24/7 Profile System	24hrs./7days Monitoring By Thermal Analysis, SPC Documents Auto Show & Process, Data Reviewable	Not Available
-------------------------	---	---------------

STRUCTURE

Weight	Approx. 1500Kg. or 3300Lbs.	Approx. 1700Kg. or 3748Lbs.	Approx. 1500Kg. or 3300Lbs.	Approx. 1700Kg. or 3748Lbs.
Standard Color	Computer Grey			
Outside Dimension (LxWxH)	5606x1350x1440mm/221"x54"x57"	6376x1350x1440mm/252"x53"x57"	5606x1350x1440mm/221"x54"x57"	6376x1350x1440mm/252"x53"x57"



www.qualitek.com

- **Qualitek International, Inc.**
GLOBAL HEADQUARTERS U.S.A.
Tel: 800.365.3750
Global Tel: 630.628.8083
Fax: 630.628.6543
E-mail: solder@qualitek.com
315 Fairbank Street
Addison, IL 60101

- **Qualitek Singapore (Pte) Ltd.**
ASIA PACIFIC HEADQUARTERS
6 Tuas South Street 5, Singapore 637790
Tel: 65.6795.7757 ● Fax: 65.6795.7767

- **Qualitek Delta Philippines**
Qualitek Ave. (1st Ave.) Bataan Economic Zone
Mariveles Bataan Philippines 2106
Tel: 63.4793.54119/5618 ● Fax: 63.4793.55608

- **Qualitek Europe**
EUROPEAN HEADQUARTERS
9 Apex Court, Bassendale Road,
Wirral International Business Park
Bromborough, Wirral, CH62 3RE
Tel: 44.0.151.334.0888 ● Fax: 44.0.151.346.1408

- **Qualitek Electronic ShenZhen China**
3 B/F, YiFa Print Bldg., Tong Yi Industrial Zone,
351 JiHua Rd., Buji Shenzhen China 518112
Tel: 86.755.2852.2814 ● Fax: 86.755.2852.2787

Our goal is simple:

"To Be A Major Supplier And World-Class Producer Of Soldering Materials."

Qualitek Worldwide

Established in 1980, Qualitek International is the fastest growing manufacturer of soldering materials for the electronic assembly industries. Our rapid growth has been the result of our commitment to quality, service and technology. Our continuing expansion of manufacturing facilities worldwide provides immediate availability of our products and technical support to meet the needs of our customers. Today, Qualitek is a major supplier of high quality solder paste, soldering chemicals, and advanced soldering products. We pledge to continue providing customers with the highest level of quality, technology and service into the next century.

Quality Assured Products

An ISO 9002 & QS 9000 Certified Company

To assure a consistent level of quality, inspection of incoming raw materials, in-process monitoring and final testing of the finished products are carried out according to ISO standards.

All the appropriate testing is performed accurately and precisely using state-of-the-art instruments to ensure product consistency.

Research & Development

Qualitek is a proven, proactive manufacturer of innovative soldering products. At Qualitek, our development is "Customer Driven" so we focus on developing the product you require. We even perform testing using the actual assembly equipment to assure the desired results.

Technical Support & Services

Qualitek's product management group provides technical assistance on the products being used, recommending products for specific applications and solving customer problems. Product specialists are available to visit customers sites to assist in optimizing assembling process and to provide troubleshooting assistance with existing issues, if any.

You can contact us by phone, fax, e-mail and through our web site. We guarantee you our prompt attention.

The data in this catalog is based on information that the manufacturer believed to be reliable and offered in good faith. Qualitek International, Inc. makes no warranties express or implied as to its accuracy and assumes no responsibilities and liabilities arising out of its use by others as conditions and methods of use of the products is beyond the control of Qualitek International, Inc. The user must determine the suitability of the product before using it on a commercial basis. The warranties extend only to the conformity of the product to the physical descriptions. In no event will Qualitek International, Inc. be responsible for special, incidental and consequential damages whether the claim is in contract, negligence or otherwise. Qualitek International, expressly disclaims any implied warranties as to specific use or for any particular purpose.