



**REFLOW SOLDERING SYSTEMS** 





New heat insulation design with energy saving effect!

 $N_2$  consumption largely reduced!

Air conditioning load reduced!



# **TNV Ver. III**

# "P" Panel "X" Panel

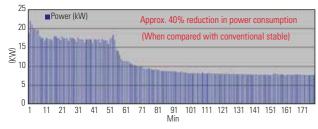
New structure of the furnace body insulation thermal resistance value twice

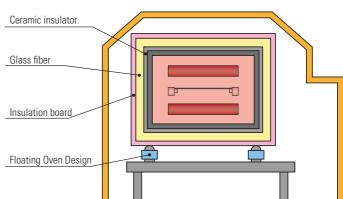
Power consumption about 40% reduced

Average effective power in stability 7.6kW Our previous model 12.6kw

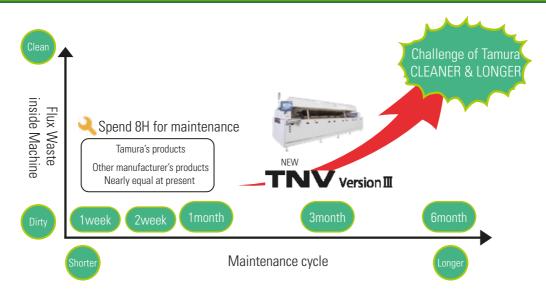
At our showroom temperature 23°C Measured after system operated for 6 hours

- Power saving with the new insulation structure of furnace casing
- Suppression of heat transfer to the frame floating structure by the furnace body

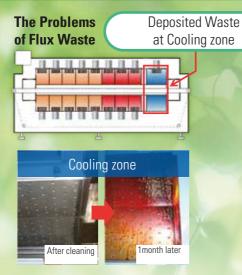




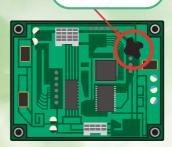
## Tamura's new development concepts



### Tamura's new development concepts

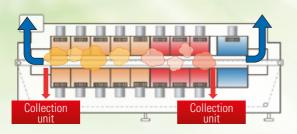


Drop on the PCB



Potential for PCB module failure from corrosion, short-circuit, or conductor failure

#### Current model



New model <u>LM</u>,



#### STANDARD FUNCTIONS

- PC without HDD
- Oxygen analyzerIndication of temperature profile
- Multi-language version (Japanese, English, Chinese)
- Flux collection unit
- PCB jam alarm
- Fan inverter individually controllable
- Maintenance timer
- Energy-saving mode
- External monitoring function

#### **OPTIONS**

- Automatic width control
- Warp preventive unit
   Uninterruptible Power Supply (UPS)
- Water cooling unit
- Oxygen density controller
- PCB manual exhaust handle
- Heater broken alarm
- Area sensor
- Oxygen deficiency alarm
- Activated carbon reproduction unit
- · Profile measurement unit
- · Overheat detection unit
- Simple automatic setup function

## Panel "X" Panel

About the size of each lineup "P Panel" and "X Panel"

Supports all conveyor widths and numbers of zones Covers from standard model to high-performance model

Series		Standard Model			High Performance Model		
Heating		P-TYPE Panel			X-TYPE Panel		
Conveyor width	Zones	8 Zones	10 Zones	12 Zones	8 Zones	10 Zones	12 Zones
TNV-M-CR Single Lane	00mm	0	0	0	0	0	0
Single Lane	10mm	0	0	0	0	0	0
	30mm Lane )	0	0	0	0	0	0

### 17-inches oparation screen panel

- Visibility that allows recognition at a glance
- Operation system inherited from the previous models and reduced start-up time

### CB photo and documents stored for each recipe

- Confirmation of actual object or precautions/special notes for process changeover
- Association of JPG data

Simple preparation of unique energy saving mode

## Tamura Reflow Integrated Total Online Network

Easy to manage equipment history and equipment situation

### Maintenance timer

Equipment inspection notification function

This function is the ability to notify the details of inspections or equipment, and cleaning the life of the parts used in the interval any day of the week, the date that you register in advance.

Will be displayed on the PC screen of reflow, the completion status of the check and when maintenance work is understood by anyone.

Monitoring the status of equipment operation

Alarm monitoring

Profile analysis

Edit and create equipment setting data

Display of alarm history

**Ultra-compact reflo** 

Monitoring status of the equipment will be available from the equipment to have a feature by Web server to your remote PC.

## **TNR15-225LH**

#### **SPECIFICATION** TNR15-225LH **Applicable boards** MAX. W150 x L150 (mm) - MIN. W50 x L50 (mm) **Component height** Upper 10, 15, 20, 25 mm - Lower 10, 15, 20, 25 mm Circuit board put allowance 99.99 % - 0.4~0.7 MPa - 150 NL/min N<sub>2</sub> Gas supply 900 +/- 20 mm Flow height from floor AC200V - 50/60Hz - 3P 21kVA - 61A (at synchronize start) **Power source Dimensions of machine** W1210 x L22001 x H13702 mm Weight approx. 600 kg Conveyor speed 0.1~0.7 m/min

1 Except inlet and outlet sprockets 2 Except Exhaust Duct, Signal Tower and LCD Monitor

#### STANDARD FUNCTIONS

- Touch panel control
- Activated carbon reproduction unit
- Flux collection unit
- PCB stop alarm
- Fan inverter individually controlable

#### OPTIONS

Uninterruptible Power Supply (UPS)

Conveyor

- Water cooling unit
- Oxygen density controller PCB recovery handle
- Heater broken alarm
- Area sensor

# **Automatic Setup**

No trouble production ex

#### Setup functions can be selected depending on the application bar code setup

#### 1) Simple Bar code set-up

The method by a bar code reader to a PC on the reflow

#### 2) Semi auto set up arranged

Arrangements by worker to connect a bar code reader to a PC for setup

#### 3) Actual setup

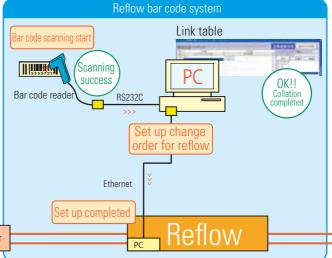
The bar code reader attached to the conveyor of the previous of reflow, By the QR code picture of the board. Make the changeover automatically reads

#### 4) Arrangements with external systems

(For more information, please contact our sales in charge).

5) The new machine can be installed as an option.

Interlocked with the mounter, etc. Mounter Mounter Mounter Conveyor











## **COMPACT SIZE**

First in the SMT industry, 8 zones in total length 3 meters.

# **TNV-EM SERIES**

## Type "MINI"

Type "mini" Equipment lineup

Model	TNV25-308EM			
Zones	8			
Length (mm)	3060			

- 250 mm width corresponding space-saving machine
- Temp. profile testing will be supported more easy.
- High performance and compact!
- You can select "P Panel" "X Panel".

TNV25-308EM
MAX. W250 x L330 (mm) - MIN. W50 x L50 (mm)
Upper 10, 15, 20, 25, 30 mm - Lower 10, 15, 20, 25, 30 mm
4 mm
99.99 % - 0.4~0.7 MPa - 250 NL/min
900 +/- 20 mm
AC200V - 50/60Hz - 3P 27kVA - 78A (at multi grouping flipflop start)
W1310 x L3060 <sup>1</sup> x H1374 <sup>2</sup> mm
approx. 1700 kg
0.1~0.7 m/min

1 Except inlet and outlet sprockets 2 Except Exhaust Duct, Signal Tower and LCD Monitor

All kinds of other size variations are available. Specifications are subject to change without prior notice. Please acknowledge it beforehan





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TAMURA EUROPE LTD. CZECH REP. Prumyslova 20 Znojmo 66902 Phone +42 (0) 515 284 716

TAMURA ELSOLD GmbH Germany
Huettenstrasse 1 38871 Ilsenburg
Phone +49 (0) 394 52 48 79 0
E-Mail info@tamura-elsold.de

