

## **RPS CADENCE DX STEAM AGING SYSTEM**



### **Cadence DX Steam Aging System**

The Cadence Steam Aging Systems are designed to meet military and commercial Hi-Rel specifications (MIL-STD 202, Method 208 and others) for artificial aging of all electronic components and circuit boards, including high density, discrete components, relays, transistors, capacitors, including SMT and axial components.

The Cadence DX System features 3 individually timed, ESD protected drawers with a unique closure mechanism that reduces steam escapement during drawer removal. The Cadence provides complete monitoring and control of steam or water temperature and features automatic timing of the test duration.

Artificial steam aging of components must occur over a very narrow temperature range, typically at 93 C +/- 3 degrees. The Cadence Steam Aging Systems are the only systems currently on the market that meet this precise control requirement. This thermal accuracy makes the Cadence Systems ideal for component manufacturers and military, commercial, and industrial end users.

To complete the solderability testing process, a Cadence can be used in conjunction with an RPS Prelude 202 Solderability Test System. The Prelude will conduct an automated flux and solder dip process to enable the “Dip & Look Test” to validate the solderability of the aged components.

All RPS Systems are made in the USA and feature a full one year warranty.

### Advantages

#### Benefits

- Large Component Capacity
- Small Footprint | Lab Processing
- Autonomous | Minimal Operator Intervention
- Industry’s Most Precise Steam Aging Control
- Complies with Hi Rel | Mil Compliance Testing
- Controlled Aging

#### Features

- Constant Digital Display
- 3 Independent Processing Units
- Continuous 99+ Hour Operation
- Fully Programmable
- Audible Alarms
- Microprocessor Controlled

#### Warranty

- One (1) Year System Warranty

### CONTROL

A commercially available touch screen PLC control package delivers precision temperature and duration control. Easy to write programs are readily input or modified at the touch screen panel. Extensive duration allows round-the-clock processing of samples in a single or multi-batch set-up. The controller features end-user friendly programming.

### STEAM MANAGEMENT

#### Operation

Automatic

#### Test Duration

8 Hours Standard | Emulates 1 Year Aging  
Duration Timer (1 – 99+ hours)

#### Thermocouple

Selectable Thermocouple (*Water or Steam*)

#### Accuracy

± 2°C Steam

#### Steam Chamber Insulation

High-Density Ceramic Wool

#### Standard Process Area (W x L x H)

12 x 12 x 2+” | 305 x 305 x 50+ mm

#### DX Process Area | Drawers (W x L x H)

3 Drawers | Each with 3 Configurable Sections

3 x 9.5 x 0.86 ” per Drawer

76 x 305 x 51 mm per Drawer

## OPERATION

### Temperature Control

100°C Max | PID Proportional

### Programming

Touch Screen

### Water Capacity

1.25 gal | kgs

### Pressure Regulator

5 PSI Max Regulator | Pressurized Configuration

### Data Recording & Export

Option | Export Download

### Safety

Automatic Low Water Shutdown

High Water Overflow to Drain

Over Temperature Shut Off

Caution Light Illuminates Above 40°C

## PHYSICAL

### Electrical

110 VAC | 1 Ø | 60Hz | 15 Amps

### Construction

Stainless Steel Wet Surfaces

Epoxy Coated External Surfaces

### Water Type

Demineralized or Deionized Water ONLY

### Plumbing Connection

Specify Carboy | ¼" poly quick connect

Specify Pressurized | ¼" pipe (female)

### CE | UL

CE & UL Compliant

Incorporates UL components where available

### Dimensions | Footprint (W x D x H)

24 x 16 x 18" | 615 x 410 x 460 mm

### Ship Weight

40 lbs | 18 kgs