



**Catalog Number:** 7910001

## Overview

The RapidVap N2 Evaporation Systems offer a more efficient, automatic alternative to Kuderna-Danish and rotary evaporators and may be used with a broad range of aggressive chemicals. In RapidVap N2 Systems, a stream of nitrogen or dry gas is directed downward onto the surface of the sample. Nitrogen blow down reduces the partial pressure directly over the liquid to speed evaporation and help remove the solvent as it evaporates. Nitrogen may be programmed for 2, 4, 6 or all 8 tube locations. Vortex motion and dry heat may also be applied to further accelerate processing.

The block holds eight large samples, up to 450 milliliters each, making it efficient for environmental and residue testing. An accessory block that holds eight 170 milliliter tubes suitable for solid phase extraction is also available. In many of these applications, the samples should not go to dryness. The unique Cool-Zone block and tube design significantly reduces the evaporation rate after end point is achieved. The Cool-Zone insulates the samples and allows the researcher adequate time before the samples reach dryness to remove them or to perform solvent exchange procedures. Alarms that signal when timed end point has occurred and when the RapidVap senses that the process is nearing completion allow for unattended operation.

## Specifications

- **Weight:** 107.0 lbs
- **Weight metric:** 49.0 kg
- **Dimensions:** 21.7"w x 19"d x 13.5"h
- **Dimensions metric:** 55 x 48 x 34 cm
- **Electrical:** 230 volts, 50/60 Hz, 4.5 amps, International
- **Region:** International
- **Conformance:** CE
- **Product Subcategory:** N2 System with Vortex Motion (nitrogen blow down)

## Description

### Compliance

- UL 61010-1

### Features

- Fast evaporation rates. Methylene chloride evaporates at a rate up to 7.3 ml/minute/tube. Water evaporates at a rate up to 1.1 ml/minute/tube.
- Microprocessor-controlled nitrogen blow down manifold introduces nitrogen to 2, 4, 6 or 8 individual sample tubes.
- Microprocessor-controlled 1000-watt dry block heating system supplies a controlled amount of heat up to 100° C.
- Microprocessor-controlled vortex motion increases surface area for faster evaporation.
- Maintenance-free, microprocessor-controlled motor provides smooth variable-speed power to drive the vortex motion up to 500 rpm.
- PTFE-coated aluminum chamber
- PTFE-coated aluminum sample block for accommodating 8 each 600 ml tubes
- Epoxy-coated cast aluminum cabinet base and acrylic/PVC thermoplastic upper housing
- Glass lid
- Dual lid clamps
- Phenol-free gasket provides complete sealing.
- Unique Cool-Zone insulates sample remaining in glassware stem to permit processing to a desired end point.
- Alarm signals completion of run allowing samples to be left unattended while evaporating to desired end point.
- Up to 9 different user-set programs, each with different parameter set points, may be stored in memory. Parameters of time, heat, vortex speed and number of active nitrogen positions may be set.
- Easy-to-read LCD display
- All mechanical components are isolated from the chemical fumes and vapors for longer life.
- ETL listed (115 volt models)
- CE Conformity (230 volt models)
- Overall dimensions with closed lid: 21.7" wide x 19" deep x 13.5" high (55.1 x 48.3 x 34.3 cm)
- Full one year warranty

### Options

- Two-way RS-232 Link to allow remote control of functions from a user-supplied personal computer
- International electrical configuration

### Required Accessories

- Glassware
- Nitrogen with minimum flow rate of 0.6 CFM/17 LPM
- Gas pressure regulator (pressure not to exceed 20 psi)

### Optional Accessories

- Laboratory Carts, Tables and Benches

