

SpeedVap® Evaporation System

SpeedVap® IV is a modern evaporation system providing safe and simultaneous unattended evaporation of up to nine pans of evaporating solvent for extractable hydrocarbons such as hexane oil and grease extractions.



SpeedVap is an economical way to provide more efficiency for any laboratory requiring the gravimetric measurement of hydrocarbons. It provides unattended evaporation of solvent for extractable hydrocarbons such as hexane oil and grease extractions generated using methods such as US EPA 1664, ISO 11349:2010 or Standard Methods 5520. It can also be used to evaporate solvents from extracted soil hydrocarbons and fats from foods.

The system provides an important step in the workflow while remaining independent, allowing for easy interaction with samples of varying evaporation rates. SpeedVap can be used with the Biotage® Horizon 1000/3000, SPE-DEX 4790 or other sources of volatile extracts.

The system comes in two models, one for 120 V and one that can be used with 220–240 V. One rack is provided with the system and can be chosen to accommodate either five 101 mm solvent pans or nine 70 mm pans.

The system can be combined with the in-line Biotage® Solvent Recovery system to capture the solvent for purification and reuse or proper disposal.

Features

- » Can accommodate five or nine pans to match higher or lower solvent volumes, depending on the solid phase extraction (SPE) disk size or extraction source
- » The 120 V version is NRTL safety approved and the 240 V version is further CE marked for sale in Europe,
- » having passed TUV CUE certification and EMC testing
- » The evaporation temperature is adjustable from 20 °C up to 60 °C , allowing flexibility for a range of solvents
- » A vacuum generates a gentle flow of air over all samples, speeding the evaporation process by 25–50%
- » Timer and chime allow the analyst to walk away with confidence and return when needed to monitor the final steps in evaporation

Specifications

Dimensions (W x D x H)

16 x 20 x 6 in.

40.6 x 50.8 x 15.2 cm

19 in. (48.3 cm) high when the lid is opened.

Weight

15 lbs (6.8 kg)

Electrical Requirements

- » Part Number 200-1000-04: 100–120 VAC, 50–60 Hz
- » Part Number 200-1000-05: 200–240 VAC, 50–60 Hz
- » Maximum Power: 350 W
- » Fuse: 250 V, 5 A, GDC. One in the 120 V model and two in the 220 V model

Uses an IEC type connector to accept various international power cords

Gas Requirements

Clean dry source of air

60–120 PSI inlet pressure at 2 CFM (57 LPM)

Environmental

Operating temperature range: 60–80 °F (17–28 °C)

Humidity range: 10–70%, non-condensing

Indoor use only

International Safety

CE (200-240 V model), TUV

Ventilation

Based on the reagents to be used, each laboratory will need to make their own decision to operate on the bench top or in a fume hood

Ordering Information

Part Number	Description
200-1000-04	SpeedVap® IV Solvent Evaporation System, 100-120 VAC, 50-60 Hz. Solvent evaporation system for hexane extracts, such as oil and grease samples. Includes One (1) Locator Rack, One (1) Box of aluminum weighing pans, and Dry Trap
200-1000-05	SpeedVap® IV Solvent Evaporation System, 200-240 VAC, 50- 60 Hz. Solvent evaporation system for hexane extracts, such as oil and grease samples. Includes One (1) Locator Rack, One (1) Box of aluminum weighing pans, and Dry Trap (CE Approved)
200-2000-01	Solvent Trap OG Solvent Recovery System, 100-120 VAC only.
Accessories and Consumables	
01-0284-02	SpeedVap 9-position locator rack (for use with 50-002-HT, 70-mm weigh pans)
01-0284-03	SpeedVap 5-position locator rack (for use with 50-002-03-HT, 105-mm weigh pans)
50-002-HT	Aluminum weigh pans, 70 mm, 55 mL, 100/box
50-002-02-HT	Aluminum weigh pans, 105 mm, 125 mL, 100/box
50-0572	Dry Trap (prevents water from the compressed air source from entering the SpeedVap System)