

# CryoVault<sup>®</sup>

Bench Top Freezer



# CryoVault® Bench Top Freezer

The Bench Top Freezer system expands the CryoVault® platform by providing a small-scale representative freeze and thaw solution to complement our production-scale CV96 and CV300 portfolios. This system supports process and product development for the entire CryoVault® platform, but only requires a fraction of the footprint and process fluids to do so.

The Bench Top Freezer is compatible with our small volume 40 mL and 120 mL CryoVault® stability containers and maintains the same characteristic freeze path length as our production scale containers. By enabling the creation of recipes that can match the last point to freeze of our small-volume CryoVault® to production-scale freeze and thaw profiles, representative freeze and thaw dynamics can be replicated in our small-scale stability containers.

Accommodates 10 quantity  
40 mL or 120 mL containers

Secure viewport for easy  
process monitoring

Auxiliary Thermocouple Ports

Electropolished  
stainless steel shroud

Thermofluid ports (quick-  
coupler accessories available)

## Key Features

- Compatible with both 40 mL and 120 mL CryoVault® stability containers
- Controlled freeze and thaw of up to 10 CryoVault® stability container
- System can cool containers to -60 °C and heat containers up to 40 °C
- Pre-loaded recipes matching our at-scale water studies
- Tiered user system with Active Directory integration
- Facilitates 21 CFR Part 11 Compliance
- Recipe driven controls
- Auto-Generated PDF Test Reports
- Live-test data stored to CSV files
- Multiple selectable save locations

## System Specifications

### Components

CryoVault® Bench Top Freezer Heat Exchanger  
Temperature Control Unit  
CryoVault® Bench Freezer software running on Windows 10 PC  
40 mL or 120 mL CryoVault® Containers

### Power Requirements

Heat Exchanger: 5 VDC (supplied via USB port)  
Temperature Control Unit: available as 230V  
1~50Hz, 12.5 A max or 208 2~ 60Hz, 20A

### PC Requirements

Windows 10 - 64 bit  
2.0./3.0 USB (2 QTY)

### Recommended PC Specifications

16 GB RAM  
I5-1135G7, 2.42 GHz  
(equivalent or better)



### Heat Exchanger

#### Physical Dimensions:

15" W x 18.8" D x 12.9" H  
(381 x 476 x 327 mm)

62 lbs | 28 kg



### Environmental Conditions

**Operating temperature range:**  
60 °F to 80 °F (16 °C to 27 °C)

**Storage temperature range:**  
-4 °F to 122 °F (-20 °C to 50 °C)

**Maximum humidity:**  
95% R.H. (No condensation)



### Temperature Control Unit

#### Physical Dimensions:

16.73" W x 15.75" D x 28.35" H  
(425 x 400 x 720 mm)

209.48 lbs | 95 kg



120 mL CryoVault® stability containers and  
40 mL CryoVault® stability container (pictured with accessory thermocouple).

# Ordering Information

The CryoVault® platform's modular component categories create a menu of options that can be tailored to your specific process needs. Meissner will work with your team to identify and recommend the best components for your process.

## Part Number/Item

KCVF-BF001A	CryoVault® Bench Top Freezer - Heat Exchanger
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## Part Number/Item

DVC3790H-VV2-C0600-01	40 mL CryoVault® Stability Container
DVC2791H-VV2-C0600-01	120 mL CryoVault® Stability Container

## Accessories

KCVF-BFTCXS	40 mL CryoVault® thermocouples (non-fluid contact).
KCVF-BFTCNS	120 mL CryoVault® thermocouples.

## Temperature Control Unit

KCVF-CU705A	Unistat® 705 temperature control unit (208V 60Hz)
KCVF-CU755A	Unistat® 705 temperature control unit (230V 50Hz)



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