
SpeedVac Facility

Overview

The Speedvac facility is equipped with two vacuum concentrators. One is equipped with a cold trap and the other with a chemical trap.

Equipment

Hetovac VR-1 The Hetovac VR-1 is a professional heated vacuum centrifuge designed for laboratory sample concentration and drying applications. Combining centrifugal force, heat, and vacuum, this system enables efficient solvent evaporation while protecting sensitive samples. Heto equipment is highly regarded for its reliability and laboratory-grade performance. It is equipped with cooling trap chamber (CT 60e)

SpeedVac™ DNA130 The Thermo Scientific Savant DNA130 is a dedicated centrifugal vacuum concentration system for drying low volume ethanol or isopropanol of DNA and RNA. DNA130 SpeedVac™ combines centrifugal force with vacuum for efficient sample drying. The vacuum is supplied by an integrated oil-free vacuum pump with an automatic bleeder valve. DNA130 SpeedVac™ has a chamber heater that counteracts evaporative sample cooling and accelerates solvent evaporation rates to shorten drying times. The operator can select the drying temperature from 35°C to 65°C, in 5°C increments. The DNA130 features a fan on the back of the unit that ensures chamber temperature remains close to the ambient temperature when no heat is applied. This allows the samples to remain within the ambient temperature.

Location

All the instruments are located at 2° floor, north side, room GEOTEC 03-143

Opening hours:

Monday- Friday 8:30-18.

It is possible to reserve time slots that are at least 15 minutes long.

Please note that, according to the Safety Guidelines of University of Padua:

“Do NOT work alone outside of working hours, particularly in cold rooms, or in rooms with X-ray sources and in cases of complex and dangerous operations. It is always important to check if specific procedures require special attention.

The presence of undergraduate students is conditioned on the presence of at least one structured staff unit.”

Service Coordinator

Prof. Tito Calì

Staff

Dr. Stefania Ferro (stefania.ferro.1@unipd.it)

The Facility's staff are available Monday to Friday during normal working hours (09:00-14:00).

Guidelines

Users are expected to perform experiments independently and must be adequately trained to ensure proper use of the instruments.

First use of the instrument and training

Prior to the first use of the instruments, please contact Dr. Stefania Ferro for the mandatory training.

Booking procedures

All equipment must be reserved before every work session.

Reservations are made through the dedicated page on the DSB Facilities & Services website by selecting the “book now” icon associated with the required instrument.

If your plans change, reservations may be cancelled up to 24 hours before the start of the reserved time slot.

Rules

Instruments placed in this room may not be moved without authorization for extraordinary maintenance.

Before your session:

- Equipment must be checked thoroughly everything must be clean and without any obvious damage. If this is not the case, please immediately contact the staff.
- Report any incorrect behavior or improperly disposed of waste to the staff.

After your session:-

- DO NOT leave anything in the room
- After use, it is REQUIRED to keep the instrument and surfaces clean
- Please check if you are the last user of the day/week and, if so, switch the instrument off.

User support material

Procedure using Hetovac VR-1

Procedure using Speedvac DNA130

DNA130 User Manual