Refrigerated Centrifugal Concentrator - Cold Vacuum Concentrator - 180 Tubes - -5 to 100°C, 530×g

Model **MSVCC-AR1PSWISS** | Brand **Master Science**





The Master Science Refrigerated Centrifugal Concentrator adds cooling to vacuum centrifugal concentration, so heat-sensitive samples can be dried at low temperature. The chamber can be pre-cooled and controlled from -5 to 100°C, and up to 180 tubes of 1.5 or 2.0 ml are processed in each run.

KEY HIGHLIGHTS

- Gentle low-temperature drying
- Precise vacuum
- Safe, simple finish
- Flexible rotors

AT A GLANCE

800 to 2000 rpm SPEED RANGE	**0.1 to 100 mbar (±0.1 mbar)** VACUUM CONTROL RANGE
-5 to 100°C TEMPERATURE CONTROL RANGE	**±1°C** TEMPERATURE ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
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Overview

A fully automatic vacuum system regulates pressure between 0.1 and 100 mbar with ±0.1 mbar precision, and a pressure relief valve releases the vacuum automatically at the end of the cycle. With an electromagnetic dual-rotor drive, four quick keys and 30 stored programmes, the Master Science Refrigerated Centrifugal Concentrator suits demanding work in DNA/RNA research, biochemistry, residue analysis, HPLC and SPE.

Heat-sensitive samples can degrade in standard concentrators. The Master Science Refrigerated Centrifugal Concentrator helps with:

Key Benefits

Gentle low-temperature drying
Cooling down to -5°C protects sensitive samples.

Precise vacuum
Automatic control with ±0.1 mbar precision.

Safe, simple finish
Automatic vacuum release at the end of the run.

Flexible rotors
More than 20 rotor options are available for different tubes and plates.

For room-temperature work, compare the 180-tube vacuum concentrator.

Technical Specifications

GENERAL	
General	Technical data of the Master Science Refrigerated Centrifugal Concentrator:
Brand	Master Science
Model Number	MSVCC-AR1PSWISS
SKU	MSVCC-AR1PSWISS
Brand	Master Science
Model	MSVCC-AR1PSWISS
SKU	MSVCC-AR1PSWISS
Capacity	**180 × 1.5/2.0 ml tubes**
Speed Range	**800 to 2000 rpm**
General	Max. Centrifugal Force: 530 × g
Timer	1 to 9999 min
Vacuum Control Range	**0.1 to 100 mbar (±0.1 mbar)**
Ultimate Vacuum	≤ 0.2 mbar
Temperature Control Range	**-5 to 100°C**
Temperature Accuracy	**±1°C**
Chamber Pre-Cooling	Yes
Noise	≤ 60 dB(A)
Programmes	4 shortcut keys, 30 user programmes

POWER	
Power Supply	AC 220 V, 50/60 Hz, 10 A
Power	1200 W

DIMENSIONS & WEIGHT	
External Dimensions	608 × 370 × 348 mm
Net Weight	48.6 kg

PROBLEMS THE MASTER SCIENCE REFRIGERATED CENTRIFUGAL CONCENTRATOR SOLVES	
Thermal degradation	Refrigeration and pre-cooling keep samples cold during evaporation.
Unstable vacuum	±0.1 mbar control keeps conditions consistent.
Manual vacuum release	The relief valve opens automatically at the end.
Limited tube formats	Over 20 optional rotors cover many sample types.

Applications

The Master Science Refrigerated Centrifugal Concentrator is used for: Concentrating heat-sensitive proteins and nucleic acids Proteomics, genomics and molecular biology HPLC and SPE sample preparation Pharmaceutical and toxicology analysis Food safety and environmental residue testing

Cooling and Temperature

- Temperature range -5 to 100°C, ±1°C
- Sample chamber pre-cooling
- Two-stage temperature control

Vacuum System

- Fully automatic vacuum control, 0.1 to 100 mbar
- Control precision ±0.1 mbar
- Automatic vacuum release valve with auto switch
- Ultimate vacuum ≤ 0.2 mbar

Drive and Control

- Electromagnetic drive, high torque and low vibration
- 800 to 2000 rpm, up to 530 × g
- 4 programme shortcut keys and 30 stored programmes
- Corrosion-resistant design for organic solvents

Standard Accessories Included

- Concentrator main unit

Optional Accessories

- Additional rotors (more than 20 types available)