Vacuum Centrifugal Concentrator - 180 Tube Sample Concentrator - 800-2000 rpm - 0.1-100 mbar Control

Model **MSVCC-AR1SWISS** | Brand **Master Science**





The Master Science 180-Tube Vacuum Concentrator is built for laboratories that dry down large numbers of samples, concentrating up to 180 tubes of 1.5 or 2.0 ml in one run. It suits proteomics, genomics, molecular biology and natural product research, as well as residue analysis, HPLC, SPE and pharmaceutical work.

KEY HIGHLIGHTS

- High throughput
- Smooth, robust drive
- Controlled vacuum
- Sample protection

AT A GLANCE

800 to 2000 rpm SPEED RANGE	**0.1 to 100 mbar** VACUUM CONTROL RANGE
RT+5 to 100°C TEMPERATURE CONTROL RANGE	**±1°C** TEMPERATURE ACCURACY

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

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www.themsci.com

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Overview

An electromagnetic drive with a dual overlapping rotor design provides high torque with low vibration, and a fully automatic vacuum controller holds the chamber between 0.1 and 100 mbar. With two-stage temperature control up to 100°C, four quick programme keys and 30 user programmes, the Master Science 180-Tube Vacuum Concentrator combines capacity with precise control.

> Large sample sets overwhelm small concentrators and manual drying methods. The Master Science 180-Tube Vacuum Concentrator helps with:

Overview

- Intelligent control system with LCD
- 4 quick programme buttons
- 30 user-stored programmes

Key Benefits

High throughput
Concentrates up to 180 microtubes per run.

Smooth, robust drive
Electromagnetic drive gives high torque, low vibration and corrosion resistance.

Controlled vacuum
Automatic regulation from 0.1 to 100 mbar suits different solvents.

Sample protection
Two-stage temperature control helps protect sensitive samples.

For smaller batches, see the vacuum centrifugal concentrator with 66-tube rotor.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSVCC-AR1SWISS
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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**
Ultimate Vacuum	≤ 0.2 mbar
Temperature Control Range	**RT+5 to 100°C**
Temperature Accuracy	**±1°C**
Noise	≤ 55 dB(A)
Programmes	4 quick keys, 30 user programmes

POWER

Power Supply	AC 220 V, 50/60 Hz, 10 A
Power	1100 W

DIMENSIONS & WEIGHT

External Dimensions	481 × 370 × 294 mm
Net Weight	28.5 kg

PROBLEMS THE MASTER SCIENCE 180-TUBE VACUUM CONCENTRATOR SOLVES

Too many runs for large sets	180-tube capacity handles big batches at once.
Solvent bumping from uncontrolled vacuum	Automatic vacuum regulation keeps evaporation steady.
Overheating sensitive analytes	Two-stage temperature control with ±1°C accuracy.
Vibration and wear	The electromagnetic drive runs with low vibration.

Applications

The Master Science 180-Tube Vacuum Concentrator is used for
Proteomics and genomics sample preparation DNA/RNA concentration in molecular biology Natural product and organic synthesis work HPLC and SPE sample drying Food safety, environmental and forensic analysis

Drive and Rotor

- New electromagnetic drive system
- Dual overlapping rotor design for large capacity
- Speed 800 to 2000 rpm, up to 530 × g

Vacuum and Temperature

- Fully automatic vacuum control, 0.1 to 100 mbar
- Ultimate vacuum ≤ 0.2 mbar
- Two-stage temperature control, RT+5 to 100°C, ±1°C

Materials

- Corrosion-resistant design for organic solvents

Standard Accessories Included

- Concentrator main unit