



miVac

Modular Concentrator Series

Rotors & Spare Parts Brochure



JETROTORS™

INCREASE YOUR POWERS OF CONCENTRATION





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Introduction

The miVac Modular Concentrator Series combines ease-of-use with rapid, safe sample concentration, allowing high-capacity throughput at the touch of a button.

JetRotors are designed exclusively for use with the miVac Modular Concentrator Series. Precision-manufactured using solid aluminium, JetRotors are available to suit a wide range of sample formats.

Why JetRotors?

One of the most important factors in determining the speed of concentration is the rate at which heat (energy) is transferred to the sample. The better the heat transfer, the faster the concentration.

JetRotors are designed to provide highly efficient heat transfer in two ways:

Solid Aluminium Rotors

Aluminium is lightweight, but has very high thermal conductivity, allowing for excellent heat transfer.

Precision Engineering

miVac rotors are manufactured to very precise specifications, allowing tubes etc. to fit very snugly into the tube holders. This eliminates gaps between the tube wall and the rotor, further improving heat transfer.

Minimising Glassware Breakage

High-precision rotor design doesn't just improve heat transfer - it also reduces the risk of glassware breakage by ensuring that tubes etc. have maximum protection from breakage during the evaporation process.

Genevac recommends that only high-quality, machine-made borosilicate glassware from reputable manufacturers is used within miVac Modular Concentrator systems.

Durability

Solid aluminium rotors are hard-wearing and highly durable, ensuring long system life and reliability.

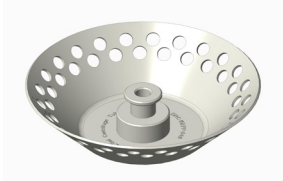
Custom Rotor Designs


A custom rotor design service is available for tubes and holders not listed in this brochure. Please contact your local miVac distributor for further details.







Rotors for DNA & Duo Concentrators


Open Sample Holders


Rotor	Compatible with	Part Number
	Microcentrifuge tubes.	DRC-15EPP-048
	1.5 ml flip-cap.	
	Capacity: 48	
	(Supplied with miVac DNA Concentrator)	


Rotor	Compatible with	Part Number
	Microcentrifuge tubes.	
	0.5 ml and 1.5 ml flip-cap.	
	Capacity: 24 of each type.	DRC-MIXEP-048


Solid Aluminium JetRotors


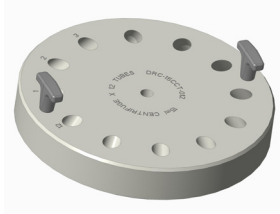
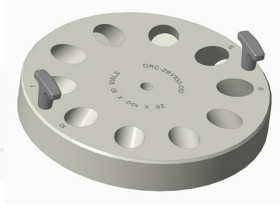
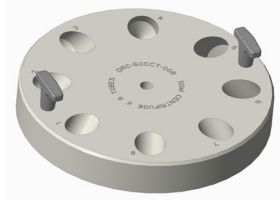
Rotor	Compatible with	Part Number
	Microcentrifuge tubes. 0.5 ml flip-cap. Capacity: 120	DRC-05EPP-120
	Microcentrifuge tubes. 1.5 ml flip-cap. Capacity: 84	DRC-15EPP-084
	Microcentrifuge tubes. 2.0 ml flip-cap. Capacity: 84	DRC-20EPP-084
	Tubes. Diameter: 10 mm. Length: 75 mm. Capacity: 68	DRC-01075-068


Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 12 mm Length: 75 mm</p> <p>Capacity: 40</p>	DRC-01275-040

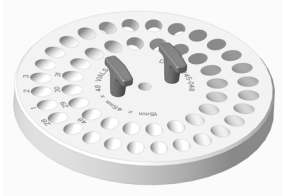
Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 13 mm Length: 100 mm</p> <p>Capacity: 32</p>	DRC-13100-032

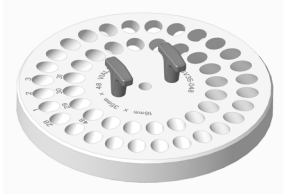
Rotor	Compatible with	Part Number
	<p>Centrifuge tubes.</p> <p>Diameter: 16 mm Length: 60 mm</p> <p>Capacity: 36</p>	DRC-5CCT-036


Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 16 mm Length: 100 mm</p> <p>Capacity: 28</p>	DRC-16100-028





Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 17 mm Length: 115 mm</p> <p>Capacity: 18</p>	DRC-17115-018
Rotor	Compatible with	Part Number
	<p>Centrifuge tubes.</p> <p>15 ml conical-base.</p> <p>Diameter: 17 mm Length: 120 mm</p> <p>Capacity: 12</p>	DRC-15CCT-012
Rotor	Compatible with	Part Number
	<p>Vials (scintillation)</p> <p>Diameter: 28 mm Length: 100 mm</p> <p>Capacity: 10</p>	DRC-28V100-010
Rotor	Compatible with	Part Number
	<p>Centrifuge tubes.</p> <p>Diameter: 28 mm Length: 115 mm</p> <p>50 ml conical-base.</p> <p>Capacity: 08</p>	DRC-50CCT-008

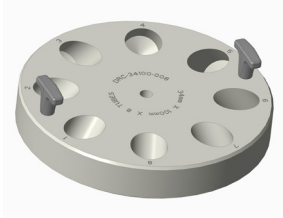
Rotor	Compatible with	Part Number
	Vials.	DRC-12V40-078
	Diameter: 12 mm	
	Length: 33 to 40 mm	
	Capacity: 78	


Rotor	Compatible with	Part Number
	Vials.	DRC-15V45-048
	1 dram.	
	Diameter: 15 mm	
	Length: 45 mm	
	Capacity: 48	

Rotor	Compatible with	Part Number
	Vials.	DRC-16V35-048
	Diameter: 16 mm	
	Length: 35 mm	
	Capacity: 48	

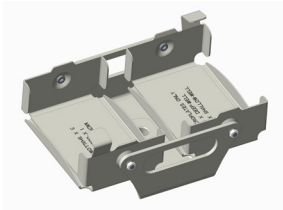
Rotor	Compatible with	Part Number
	Vials.	DRC-18V40-048
	Diameter: 18 mm	
	Length: 40 mm	
	Capacity: 48	

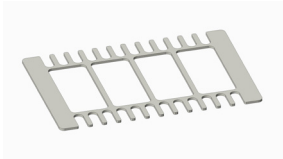
Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 18 mm Length: 150 mm</p> <p>Capacity: 6</p>	DRC-18150-006
Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>Diameter: 20 mm Length: 60 mm</p> <p>Capacity: 35</p>	DRC-20V60-035
Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>Diameter: 22 mm Length: 38 mm</p> <p>Capacity: 35</p>	DRC-22V38-035
Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>20 ml scintillation.</p> <p>Diameter: 28 mm Length: 60 mm</p> <p>Capacity: 14</p>	DRC-28V60-014

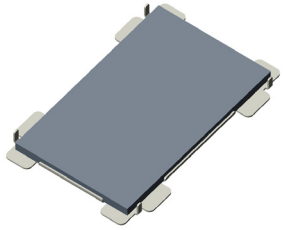
Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 34 mm Length: 100 mm</p> <p>Capacity: 8</p>	DRC-34100-008

Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>Diameter: 22 mm Length: 38 mm</p> <p>Capacity: 35.</p>	DRC-22V38-035

Swing Rotors for Microtitre Plates

Rotor	Compatible with	Part Number
	Swing rotor for microtitre plates. Capacity: Two deep-well or two shallow-well plates. Max. weight per swing: 0.6 kg.	DRS-00000-200

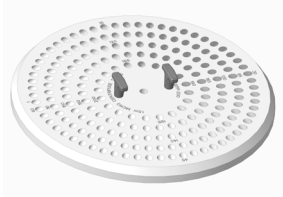
Rotor	Compatible with	Part Number
	Set of four stackers for swing rotors. Increases capacity to six shallow-well plates.	BRS-STK00-004

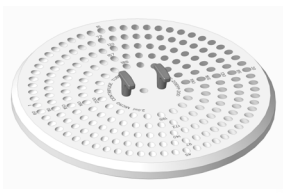
Component	Description	Part Number
	Heat-Transfer Plate with pliable thermal pad. Compatible with all types of deep-well plate that fit within the footprint of the fast-stack or side-bridge swing.	70-1786

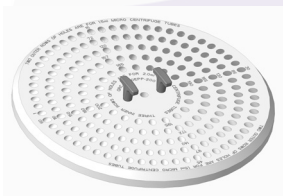
NOTE: For compatibility with stackers, shallow-well plates must have a full skirt.


Rotors for Quattro Concentrators


Solid Aluminium JetRotors


Rotor	Compatible with	Part Number
	Microcentrifuge tubes.	
	1.5 ml flip-cap.	
	Capacity: 200	QRC-15EPP-200


Rotor	Compatible with	Part Number
	Microcentrifuge tubes.	
	2.0 ml flip-cap.	
	Capacity: 200	QRC-20EPP-200


Rotor	Compatible with	Part Number
	Combined rotor for:	
	Microcentrifuge tubes, 1.5 ml	
	Capacity: 110	
	& Microcentrifuge tubes, 2.0 ml	
	Capacity: 90	QRC-15&20-200

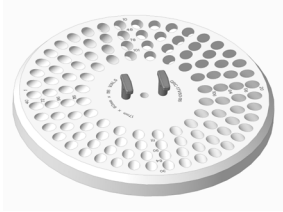
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 10 mm	
	Length: 75 mm	
	Capacity: 236	QRC-01075-236

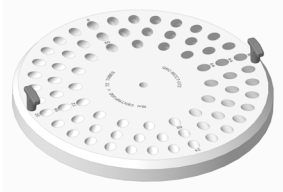
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 12 mm	
	Length: 75 mm	
	Capacity: 200	QRC-01275-200

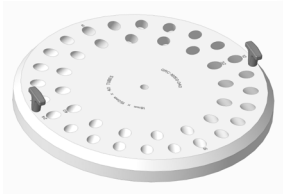
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 13 mm	
	Length: 100 mm	
	Capacity: 100	QRC-13100-100

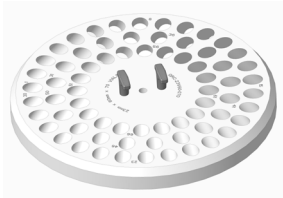
Rotor	Compatible with	Part Number
	Vials.	
	Diameter: 15 mm	
	Length: 60 mm	
	Capacity: 116	QRC-15V60-116


Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 16 mm	
	Length: 100 mm	
	Capacity: 100	QRC-16100-100

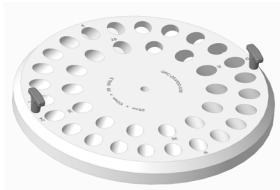
Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>Diameter: 17 mm Length: 60 mm</p> <p>Capacity: 116</p>	QRC-17V60-116

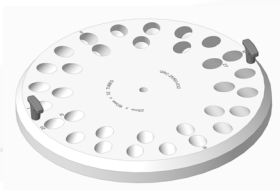
Rotor	Compatible with	Part Number
	<p>Centrifuge tubes.</p> <p>15 ml conical-base.</p> <p>Diameter: 17 mm Length: 120 mm</p> <p>Capacity: 72</p>	QRC-15CCT-072

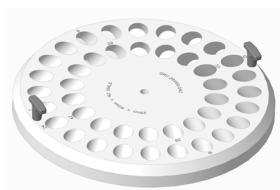
Rotor	Compatible with	Part Number
	<p>Tubes.</p> <p>Diameter: 18 mm Length: 150 mm</p> <p>Capacity: 40</p>	QRC-18150-040

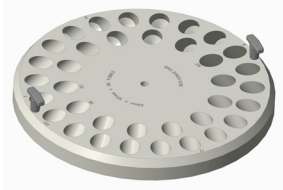
Rotor	Compatible with	Part Number
	<p>Vials.</p> <p>Diameter: 23 mm Length: 60 mm</p> <p>Capacity: 70</p>	QRC-23V60-070

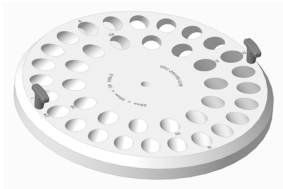
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 24 mm Length: 150 mm	QRC-24150-032
	Capacity: 32	


Rotor	Compatible with	Part Number
	Vials.	
	Diameter: 25 mm Length: 100 mm	QRC-25V100-038
	Capacity: 38	

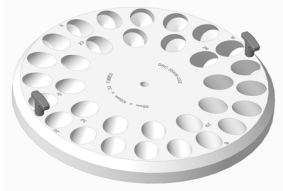
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 25 mm Length: 150 mm	QRC-25150-032
	Capacity: 32	

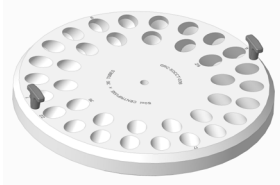
Rotor	Compatible with	Part Number
	Vials.	
	20 ml scintillation.	
	Diameter: 28 mm Length: 60 mm	QRC-28V60-042
	Capacity: 42	


Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 29 mm Length: 120 mm	QRC-29120-036
	Capacity: 36	

Rotor	Compatible with	Part Number
	Vials.	
	Diameter: 28 mm Length: 95 mm	QRC-28V95-038
	Capacity: 38	

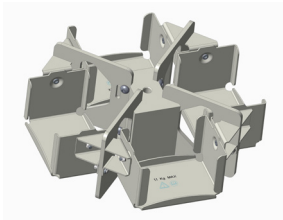
Rotor	Compatible with	Part Number
	Vials. Dionex ASE® 60 ml.	
	Capacity: 30	QRC-28V140-030

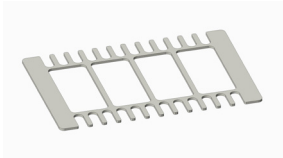
Rotor	Compatible with	Part Number
	Tubes.	
	Diameter: 35 mm Length: 105 mm	QRC-35105-032
	Capacity: 32	

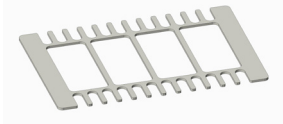
Rotor	Compatible with	Part Number
	Centrifuge tubes.	QRC-50CCT-036
	50 ml conical-base.	
	Diameter: 28 mm Length: 115 mm	
	Capacity: 36	

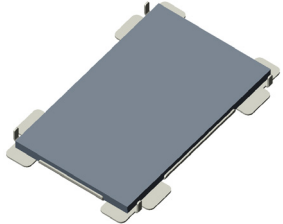
Rotor	Compatible with	Part Number
	Tubes.	QRC-44100-014
	Diameter: 44 mm Length: 100 mm	
	Capacity: 14	

Swing Rotors for Microtitre Plates

Rotor	Compatible with	Part Number
	Swing rotor for microtitre plates.	
	Capacity: four deep-well or four shallow-well plates.	QRS-00000-400
	Max. weight per swing: 1.1 kg.	


Rotor	Compatible with	Part Number
	Set of four stackers for swing rotor.	
	Increases capacity to eight deep-well or eight shallow-well plates.	BRS-STK00-004


Rotor	Compatible with	Part Number
	Set of 16 stackers for swing rotor.	
	Increases capacity to eight deep-well or 20 shallow-well plates.	BRS-STK00-016


Component	Description	Part Number
	Heat-Transfer Plate with pliable thermal pad.	
	Compatible with all types of deep-well plate that fit within the footprint of the fast-stack or side-bridge swing.	70-1786

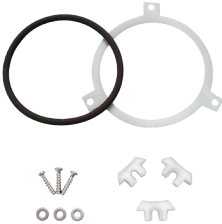
NOTE: For compatibility with stackers, shallow-well plates must have a full skirt.

Spare Parts

Component	Description	Part Number
	Spindle friction washer. Compatible with all miVac Modular Concentrators.	RTR-FRCTN-001


Component	Description	Part Number
	Lid seal. Compatible with miVac Duo & DNA Concentrators.	04-4722


Component	Description	Part Number
	Lid seal. Compatible with miVac Quattro Concentrators.	04-4793


Component	Description	Part Number
	Seal kit for miVac SpeedTrap. Includes: PTFE O-ring, thread inserts, screws and washers.	MST-SEALS-000


Accessory Kits


miVac Lyo Option


Component	Description	Part Number
	Enables lyophilisation (freeze-drying) of up to 250 ml of water using a cascade condenser pot. NOTE: Requires a miVac system with a SpeedTrap and a Super Vacuum Pump.	FDA-IMP00-000

Component	Description	Part Number
	Round-bottomed freeze-drying flask. Capacity 150 ml. Includes flask cap, filter and glass connection tube.	FDA-FL150-000

Component	Description	Part Number
	Round-bottomed freeze-drying flask. Capacity 300 ml. Includes flask cap, filter and glass connection tube.	FDA-FL300-000

Component	Description	Part Number
	Round-bottomed freeze-drying flask. Capacity 600 ml. Includes flask cap, filter and glass connection tube.	FDA-FL600-000

Component	Description	Part Number
	Freeze drying flask adaptors for DIN 29/32 ground flask fittings on round bottomed flasks.	
	Set of 3.	FDA-A2932-003

Component	Description	Part Number
	Freeze-drying flask connection tube, glass.	
	Set of 3.	FDA-CONGL-003

Rotor Maintenance

General Cleaning

Inspect and clean miVac rotors at least monthly. Always dry each rotor thoroughly after cleaning. Do not use a wet rotor in a miVac Concentrator.

After Glass Breakage

If glass breakage or solvent spillage occurs during concentration, you must perform the following inspection and cleaning routine before continuing to use the miVac system.



CAUTION: Risk of damage to equipment. Always perform the required inspection and cleaning routine after glass breakage or solvent spillage to avoid damage to rotors, samples or the Concentrator.

The most common cause of repeat glassware breakage is a fragment of glass from a previously broken tube. The additional pressure caused by even small fragments of debris place additional stress on glassware during evaporation, which may result in breakage.

Inspection

Visually inspect the rotor(s) and clean off any debris. Take care to ensure that no debris remains in the sample holder wells - some solvents can cause debris to adhere to the rotor.

Superficial surface damage (scratches etc.) do not affect the performance of a rotor. However, if there is any structural damage visible (e.g. if any part of the rotor is bent or deformed), do not use the rotor. Contact Genevac for assistance.

Cleaning

Loose dirt and debris can be removed using a brush. Compressed-air may also be used if available. Adhered dirt, debris or sample/solvent residue should be cleaned off using methanol or acetone (soak the rotor if necessary). The rotor should then be washed in clean water and fully dried before use.

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All specifications are subject to change without notice.

Your local miVac sales representative will be happy to advise on the availability of special order items in addition to the sample holders included in this brochure.

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