



# **miVac**

## **Modular Concentrator Series**

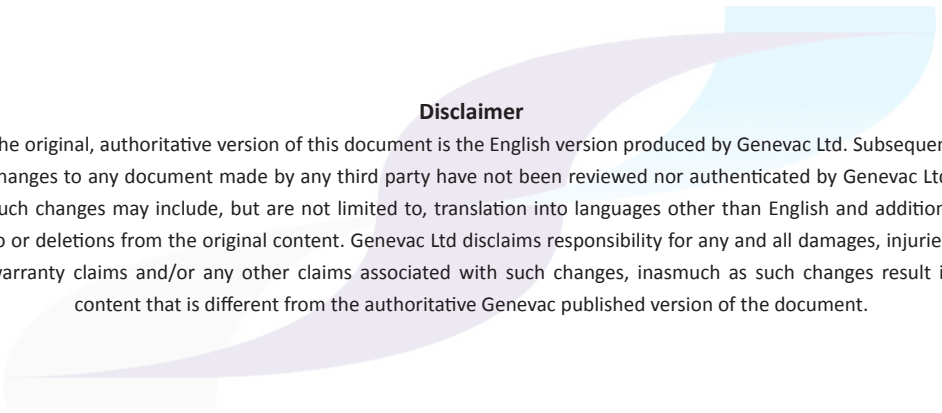
### **Rotors & Spare Parts Brochure**



## **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.

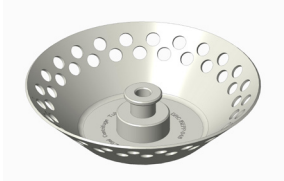
## Custom Rotor Designs

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

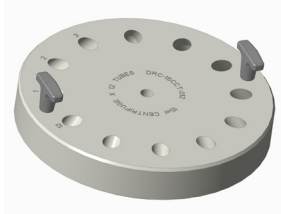
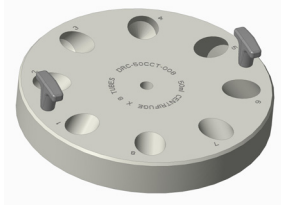
| Rotor                                                                               | Compatible with                                                      | Part Number   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------|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

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

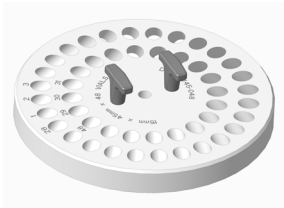
| Rotor                                                                            | Compatible with                                                             | Part Number   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|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

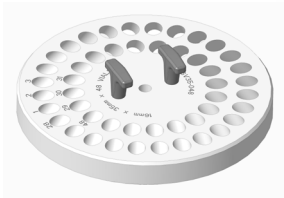
| Rotor                                                                             | Compatible with                                                                       | Part Number  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--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

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

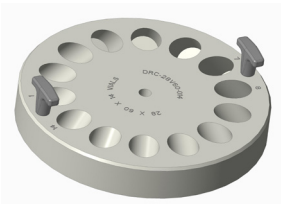
| Rotor                                                                               | Compatible with                                                                                           | Part Number    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------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

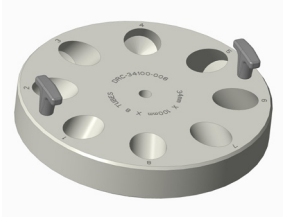
| Rotor                                                                            | Compatible with                                                          | Part Number   |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------|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

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

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

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

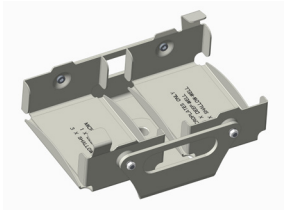
| Rotor                                                                               | Compatible with                                                                                        | Part Number   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------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

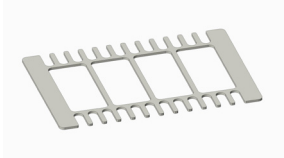
| Rotor                                                                            | Compatible with                                                    | Part Number   |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|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

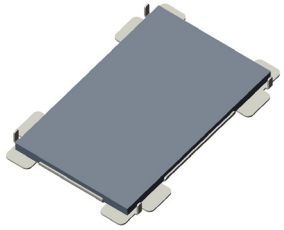
| Rotor                                                                            | Compatible with                                                     | Part Number   |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------|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



# Swing Rotors for Microtitre Plates

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

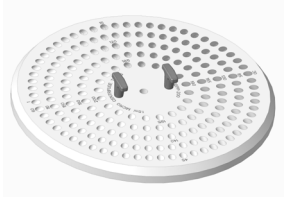
| Rotor                                                                            | Compatible with                                                                              | Part Number   |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------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

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

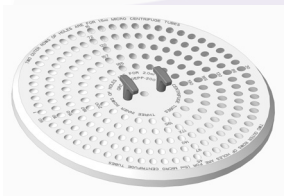
**NOTE:** For compatibility with stackers, shallow-well plates must have a full skirt.

# Rotors for Quattro Concentrators

## Solid Aluminium JetRotors

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

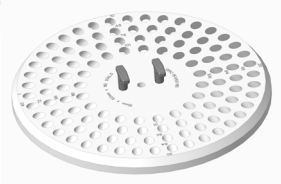
| Rotor                                                                            | Compatible with        | Part Number   |
|----------------------------------------------------------------------------------|------------------------|---------------|
|  | Microcentrifuge tubes. |               |
|                                                                                  | 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 |

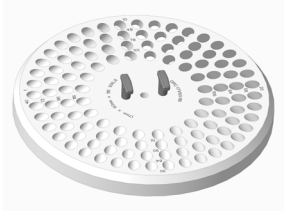
| Rotor                                                                              | Compatible with | Part Number   |
|------------------------------------------------------------------------------------|-----------------|---------------|
|  | Tubes.          |               |
|                  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

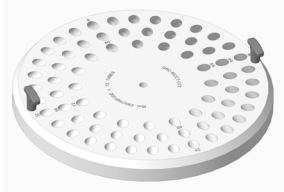
| Rotor                                                                             | Compatible with | Part Number   |
|-----------------------------------------------------------------------------------|-----------------|---------------|
|  | Tubes.          |               |
|                    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

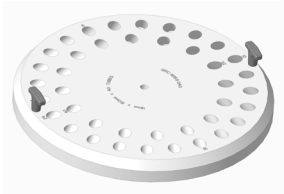
| Rotor                                                                             | Compatible with | Part Number   |
|-----------------------------------------------------------------------------------|-----------------|---------------|
|  | Tubes.          |               |
|                    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

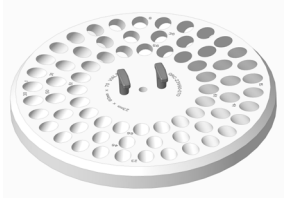
| Rotor                                                                              | Compatible with | Part Number   |
|------------------------------------------------------------------------------------|-----------------|---------------|
|  | Vials.          |               |
|                                                                                    | 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 |

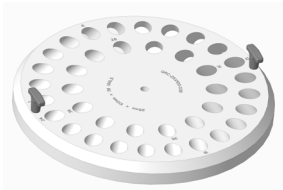
| Rotor                                                                            | Compatible with                                                             | Part Number   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|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

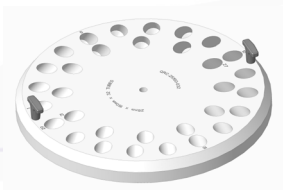
| Rotor                                                                            | Compatible with                                                                                                   | Part Number   |
|----------------------------------------------------------------------------------|---------------------------------------------------------------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

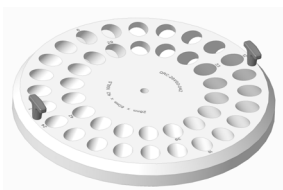
| Rotor                                                                             | Compatible with                                                             | Part Number   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------|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

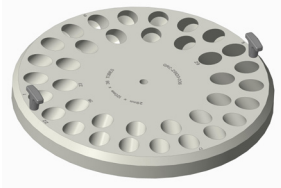
| Rotor                                                                              | Compatible with                                                            | Part Number   |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|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

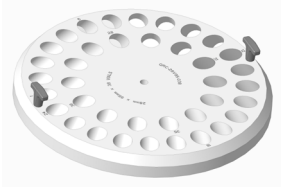
| Rotor                                                                             | Compatible with                   | Part Number   |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Tubes.             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

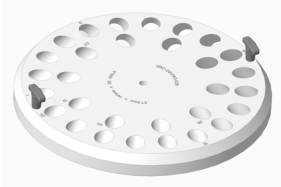
| Rotor                                                                             | Compatible with                   | Part Number    |
|-----------------------------------------------------------------------------------|-----------------------------------|----------------|
|  | Vials.           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

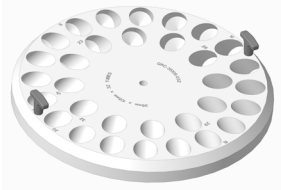
| Rotor                                                                              | Compatible with                   | Part Number   |
|------------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Tubes.           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

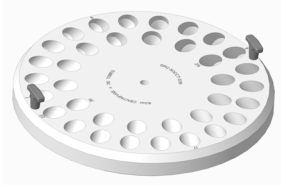
| Rotor                                                                               | Compatible with                  | Part Number   |
|-------------------------------------------------------------------------------------|----------------------------------|---------------|
|  | Vials.           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

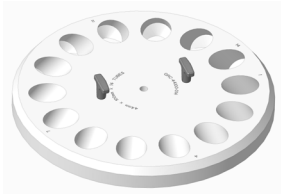
| Rotor                                                                            | Compatible with                   | Part Number   |
|----------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Tubes.               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

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

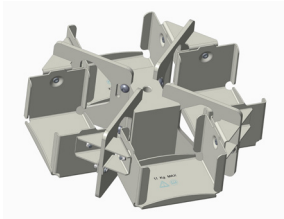
| Rotor                                                                             | Compatible with              | Part Number    |
|-----------------------------------------------------------------------------------|------------------------------|----------------|
|  | Vials.<br>Dionex ASE® 60 ml.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

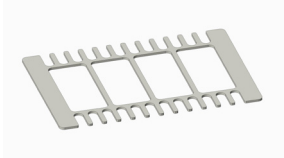
| Rotor                                                                              | Compatible with                   | Part Number   |
|------------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Tubes.           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

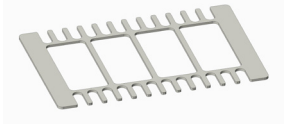
| Rotor                                                                             | Compatible with                   | Part Number   |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Centrifuge tubes.  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

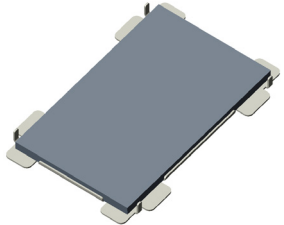
| Rotor                                                                             | Compatible with                   | Part Number   |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | Tubes.                            | QRC-44100-014 |
|                                                                                   | Diameter: 44 mm<br>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     |

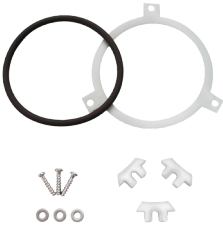
**NOTE:** For compatibility with stackers, shallow-well plates must have a full skirt.

# Spare Parts

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

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

| Component                                                                          | Description                                                   | Part Number |
|------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|
|  | Lid seal.<br><br>Compatible with miVac Quattro Concentrators. | 04-4793     |

| Component                                                                           | Description                                                                                     | Part Number   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------|
|  | Seal kit for miVac SpeedTrap.<br><br>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.<br><br><b>NOTE:</b> Requires a miVac system with a SpeedTrap and a Super Vacuum Pump. | FDA-IMP00-000 |

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

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

| Component                                                                           | Description                                                                                                              | Part Number   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------|
|  | Round-bottomed freeze-drying flask.<br><br>Capacity 600 ml.<br><br>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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