# Technical Specifications

NETZSCH

## MMC 315 *Nexus*®

### Key Technical Data for the ARC Module

| | |
|---|---|
| Temperature range | RT to 500°C |
| Temperature readability | 0.01 K |
| Heating rate | 0 to 5 K/min<br>0 to 2 K/min with *VariPhi*® |
| Pressure limit | 150 bar |
| Pressure readability | 0.01 bar |
| Sample Container volume | 0.5 to 8.5 ml |
| Container | Stainless steel, Inconel, Hastelloy, glass inlet, Titanium |
| Modes of Operation | Heat-Wait-Search (HWS), constant rate, iso-aging, with *VariPhi*®: Heat-Wait-Search (HWS), constant rate, constant power, isothermal |
| Tracking rate | Up to 50 K/min |

### Key Technical Data for the Scanning Module

| | |
|---|---|
| Temperature range | RT to 500°C |
| Temperature readability | 0.01 K |
| Heating rate | 0 to 5 K/min |
| Pressure limit | 150 bar |
| Pressure readability | 0.01 bar |
| Sample container volume | 2.6 ml |
| Container | Stainless steel, Inconel, Hastelloy, Titanium |
| Tracking rate | Up to 50 K/min |
| Modes of operation | Constant rate, constant power, isothermal |

### Key Technical Data for the Two Coin Cell Module Variations

| | Coin Cell Module with High-Temperature Sensor | Coin Cell Module with High-Sensitivity Sensor |
|---|---|---|
| Temperature range | RT to 300°C | RT to 200°C |
| Temperature readability | 0.01 K | 0.01 K |
| Limit of detection | 0.1 mW | 0.05 mW |
| Heat flow range | ± 4500 mW | ± 350 mW |
| Heating rate | 0 to 2 K/min | 0 to 2 K/min |
| Sample sizes | ▪ Typically Coin Cell CR2032<br>▪ Diameter: 5 to 30 mm<br>▪ Volume of up to 1 ml<br>▪ Minipouch 25 x 30 mm<br>▪ Thickness: 1 to 5 mm | ▪ Typically CR2032<br>▪ Diameter: 5 to 30 mm<br>▪ Volume of up to 1 ml<br>▪ Minipouch 25 x 30 mm<br>▪ Thickness: 1 to 5 mm |
| Modes of Operation | Isothermal, constant heating rate | Isothermal, constant heating rate |
| Number of sample cell/ reference cell | 1/1 | 1/1 |