

Technical Specifications

NETZSCH

| | TG 209 F1 Nevio | DSC 204 F1 Nevio | STA 449 F3 Nevio |
|---|--|---|---|
| Temperature range (max.) | (10°C) ... RT to 1100°C | -180°C to 700°C | -150°C to 1000°C ³⁾ |
| Max. cooling rate/ max. heating rate | 200 K/min | 200 K/min | 50 K/min |
| Measuring range/ weighing range (max.) | 2000 mg ¹⁾ | ± 750 mW | 35000 mg ¹⁾ / ± 250 mW ⁴⁾ |
| Enthalpy accuracy | n/a | < 1% ²⁾ | ± 1 ... 3% |
| TGA resolution | 0.1 µg | n/a | 0.1 µg |
| Indium Response Ratio | n/a | > 160 mW/K ⁵⁾ | > 85 mW/K ^{2) 6)} |
| Sensors | Interchangeable | Exchangeable | Interchangeable |
| Cooling options | n/a | <ul style="list-style-type: none"> ▪ Air compressor: RT to 700°C ▪ Compressed air: < 0°C to 700°C ▪ Intracooler: -85°C to 600°C ▪ Liquid nitrogen: -180°C to 700°C | <ul style="list-style-type: none"> ▪ Compressed air: < 0°C to 1000°C³⁾ ▪ Liquid nitrogen: -150°C to 1000°C³⁾ |
| Gas atmospheres | Inert, oxidizing, static and dynamic | Inert, oxidizing, static and dynamic | Inert, oxidizing, reducing (forming gas), humid, vacuum, static, dynamic |
| Gas-tight/vacuum-tight | Vacuum-tight | Gas-tight | Vacuum-tight |
| Mass flow controller for purge/protective gas | 3, integrated (0 to 250 ml/min) | 3, integrated (0 to 250 ml/min) | Optional, 3 (0 to 250 ml/min) |
| Automatic Sample Changer (ASC, optional) | 192 positions | 192 positions | 20 positions |
| Proteus® software including | SmartMode, ExpertMode, AutoCalibration, BeFlat®, c-DTA®, AutoEvaluation, Identify | SmartMode, ExpertMode, AutoCalibration, BeFlat®, specific heat capacity, AutoEvaluation, Identify | c-DTA®, AutoEvaluation, Identify |
| Software extensions, optional | Temperature modulation, Proteus® Protect, Peak Separation, Kinetics Neo, Thermal Simulations | Temperature modulation, Proteus® Protect, Peak Separation, Kinetics Neo, Thermal Simulations | Temperature modulation, Proteus® Protect, Peak Separation, Kinetics Neo, Thermal Simulations |

¹⁾ minus weight of crucible

²⁾ for indium

³⁾ optimized temperature range for pharmacy, cosmetics and foodstuffs; depending on the selected furnaces: total temperature range: -150°C up to 2400°C

⁴⁾ for thermocouple type E

⁵⁾ using the equation published by B. Wunderlich, Thermal Analysis of Polymeric Materials, Springer (2005), page 346

⁶⁾ in Al₂O₃ crucibles



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