<table>
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<td>Microcalorimetry - Nano Systems</td>
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<td>Thermophysical Properties</td>
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</tbody>
</table>
**Discovery Series DSC Accessories**

- 922303.901 Discovery Dual Module Upgrade Kit: requires separately priced installation by a TA Field Service Engineer
- 972500.901 Discovery DSC Replacement Cell
- 972503.901 Discovery Finned Air Cooling System (FACS)
  
  **Note:** For programmed air cooling of Discovery Series DSC Cell from 725°C to ambient temperature.

- 972507.901 Discovery Refrigerated Cooling System - RCS40 (120V / 60 Hz): for use with Discovery Series and Q Series DSC Instruments
  
  **Note:** For programmed or quench cooling of the Discovery DSC cell over the temperature range from 400 to -40°C. Sealed refrigeration system does not require liquid nitrogen.

- 972507.902 Discovery Refrigerated Cooling System - RCS40 (230V / 50 Hz) See above comments.
- 972007.901 Discovery Refrigerated Cooling System - RCS90 (120V / 60 Hz): for use with Discovery Series and Q Series DSC Instruments
  
  **Note:** For programmed or quench cooling of the Discovery DSC cell over the temperature range from 550 to -90°C. Sealed refrigeration system does not require liquid nitrogen.

- 972007.902 Discovery Refrigerated Cooling System - RCS90 (230V / 50 Hz) See above comments.
- 972400.901 Discovery Liquid Nitrogen Pump Accessory (LN2P)
- 972734.901 Discovery PCA Trigger Adapter: an adaptor to convert USB communication from the Discovery products to RS232 communication for the PCA.
- 972011.901 Accessory Kit, Discovery DSC
- 972581.901 Discovery DSC Cell Conditioning Tool

**Discovery & Q Series DSC Accessories**

- 970900.901 Tzero Pressure DSC Cell
  (use with the Q2000 DSC module requires the Tzero Pressure Cell Accessory Kit P/N: 970906.901)


- 970814.901 Q Series PDSC Cell Shipping Accessory Kit
  
  **Note:** For use with the Tzero Pressure DSC Cell (P/N: 970900.901) on a Q2000 module. Includes Tzero Pressure Cell Accessory Kit (P/N: 970906.901).

- 901600.901 Tzero Sample Press and Die Sets Kit
  
  **Note:** Includes a Tzero Press and die sets for Tzero Pans / Tzero Lids and Tzero Low-Mass Pans / Tzero Lids; Tzero Pans / Tzero Hermetic Lids; and Standard Aluminum Pans / Lids; Standard Hermetic Pans / Lids, respectively. The kit also includes one box each of Tzero Pans (100) and Tzero Lids (100).

- 935000.901 Photocalorimeter Accessory (PCA) with UV Light Source
  
  **Note:** For use with the Q2000 / Q200 DSC modules to provide photocuring studies between -50 and 250°C. Includes a 320 - 500 nm internal filter.

- 935014.901 PCA External Filter Adapter Accessory Kit
  
  **Note:** Allows use of external filters with the PCA P/N: 935000.901.

- 915064.901 MDSC Thermal Conductivity Kit

**Discovery & Q Series DSC Cooling Accessories**

- 970037.901 Finned Air Cooling System (FACS)
  
  **Note:** For programmed air cooling of Q Series DSC Cell from 725°C to ambient temperature.

- 970036.901 Quench Cooling Accessory for FACS
  (also suitable for use with the Tzero Pressure DSC Cell (P/N: 970900.901))
  
  **Note:** Assists FACS in rapid cooling of Q Series DSC Cell to ambient temperature.

- 200266.001 RCS Dryer
  
  **Note:** For removal of trace moisture in purge gases.

- 200245.001 Pressure Regulator (North America use only)
  
  **Note:** For use with the RCS Dryer or the LNCS Purge Gas Purifier Unit; 4000 psi input, 40 psi output; CGA.

- 970400.901 Liquid Nitrogen Cooling System (LNCS)
  
  **Note:** For programmed or quench cooling of Q Series DSC Cells from 550 to -180°C. LNCS can be automatically refilled from an external LN2 source.

- 970425.901 LNCS DSC Purge Gas Purifier Unit
  
  **Note:** For removal of trace moisture in purge gases. Includes gas dryer unit and appropriate shut-off and bypass valving.

- 970347.901 Quench Cooling Accessory (QCA)
  
  **Note:** For rapid manual cooling of Q Series DSC Cell to subambient temperatures. If used with the Q2000 / Q200 or the Q1000 / Q100 modules, the following three parts must be added: P/N: 970442.001, P/N: 970283.001, and P/N: 970284.901

- 970442.001 Inner Manual Lid (Auto II)
- 970283.001 Upper Manual Lid
- 970284.901 Manual Cell Cover
## Q Series DSC Replacement Cells

Note: Replacement Q Series DSC cells do not include silver lids or accessory kits.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>970020.901</td>
<td>User Replacement Cell for Q2000 / Q1000 DSC</td>
</tr>
<tr>
<td>970520.901</td>
<td>Replacement Cell for Q200 / Q20 / AQ20 / Q100 / Q10 DSC modules</td>
</tr>
<tr>
<td></td>
<td>Note: Requires separately priced installation by a TA Field Service Engineer.</td>
</tr>
<tr>
<td>970020.982</td>
<td>Remanufactured Q2000 / Q1000 User Replacement Cell - As Available</td>
</tr>
<tr>
<td>970520.982</td>
<td>Remanufactured Q200 / Q20 / AQ20 / Q100 / Q10 Cell - As available</td>
</tr>
<tr>
<td></td>
<td>Note: Requires separately priced installation by a TA Field Service Engineer.</td>
</tr>
</tbody>
</table>

## Q Series DSC Field Upgrades

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>970003.901</td>
<td>Mass Flow Controller Upgrade Kit for Q100 / Q10 DSC</td>
</tr>
<tr>
<td></td>
<td>Note: Includes Field Service Installation.</td>
</tr>
<tr>
<td>970004.901</td>
<td>MDSC Upgrade Kit for Q100, Q20, Q200, Q2000</td>
</tr>
<tr>
<td>970972.901</td>
<td>Q10 to Q20 Upgrade Kit (includes TA Service installation)</td>
</tr>
<tr>
<td>971000.901</td>
<td>DSC Autosampler Field Upgrade Kit for Q2000, Q200, Q100</td>
</tr>
<tr>
<td></td>
<td>Note: Includes Field Service Installation.</td>
</tr>
<tr>
<td>970777.901</td>
<td>Q2000 / Q20 Upgrade Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Upgrades the functionality of a Q1000 to a Q2000 or a Q100 to a Q200, respectively. The kit includes a Display Retrofit Kit to QNX, Nameplate Kit, new Autosampler tray, Autolids Upgrade Kit, Tzero Press Kit, and Tzero Pans and Tzero Hermetic Lids (1 box of each). Price includes field installation by a TA Field Service Engineer. Note: Some older Q1000 / Q100 modules may also need an upgrade of the Single Board Computer (SBC). Contact your TA Field Service Engineer for additional information.</td>
</tr>
</tbody>
</table>

## Q Series DSC Accessory and Upgrade Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>970011.901</td>
<td>DSC Accessory Kit for Q2000 / Q200 (supplied with Q2000 / Q200 modules)</td>
</tr>
<tr>
<td>970011.902</td>
<td>DSC Accessory Kit for Q20 (supplied with Q20 module)</td>
</tr>
<tr>
<td>970011.903</td>
<td>DSC Accessory Kit for Auto Q20 (supplied with Auto Q20 module)</td>
</tr>
<tr>
<td>970830.901</td>
<td>Q DSC Autolid II Upgrade Kit (optional field service installation is recommended)</td>
</tr>
</tbody>
</table>

## Q Zero Series DSC Sample Pans and Lids

*Note: Requires the Tzero Press (P/N: 901600.901).*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901670.901</td>
<td>Tzero Low-Mass Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901671.901</td>
<td>Tzero Lids (pkg. of 100)</td>
</tr>
<tr>
<td>901683.901</td>
<td>Tzero Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901684.901</td>
<td>Tzero Hermetic Lids (pkg. of 100)</td>
</tr>
<tr>
<td>901685.901</td>
<td>Tzero Hermetic Pinhole Lid (75 micron diameter pinhole) (pkg. of 50)</td>
</tr>
<tr>
<td>901697.901</td>
<td>Tzero Alodined Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901698.901</td>
<td>Tzero Hermetic Alodined Lids (pkg. of 100)</td>
</tr>
</tbody>
</table>

## Standard Series DSC Sample Pans and Lids

*Note: (*) Indicates the pans and lids work with the Tzero or Standard DSC Press.*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>900578.901</td>
<td>Platinum Sample Pans (pkg. of 10)</td>
</tr>
<tr>
<td>900760.901</td>
<td>Classic Aluminum Pans* (pkg. of 200) (higher sidewall compared to the standard aluminum sample pans)</td>
</tr>
<tr>
<td>900786.901</td>
<td>Aluminum Sample Pans* (pkg. of 200)</td>
</tr>
<tr>
<td>900779.901</td>
<td>Aluminum Lids* (pkg. of 200)</td>
</tr>
<tr>
<td>900793.901</td>
<td>Aluminum Sample Pans*, Hermetic (pkg. of 200)</td>
</tr>
<tr>
<td>900794.901</td>
<td>Aluminum Lids*, Hermetic (pkg. of 200)</td>
</tr>
</tbody>
</table>

## Miscellaneous Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>971126.901</td>
<td>DSC Autosampler Tray</td>
</tr>
</tbody>
</table>

## DSC Sample Encapsulation

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901600.901</td>
<td>Tzero Sample Press Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes a Tzero Press and die sets for Tzero Pans / Tzero Lids and Tzero Low-Mass Pans / Tzero Lids, Tzero Pans / Tzero Hermetic Lids, and Standard Aluminum Pans / Lids, Standard Hermetic Pans / Lids, respectively. The kit also includes one box each of Tzero Pans (100) and Tzero Lids (100).</td>
</tr>
<tr>
<td>901608.901</td>
<td>DSC Standard Die Set (for use in the Tzero Sample Press)</td>
</tr>
<tr>
<td>901608.902</td>
<td>DSC Hermetic Die Set (for use in the Tzero Sample Press)</td>
</tr>
<tr>
<td>901608.903</td>
<td>DSC Tzero Die Set (for use in the Tzero Sample Press)</td>
</tr>
<tr>
<td>901608.904</td>
<td>DSC Tzero Hermetic Die Set (for use in the Tzero Sample Press)</td>
</tr>
<tr>
<td>901608.905</td>
<td>DSC High Volume Die Set (for use in the Tzero Sample Press)</td>
</tr>
<tr>
<td>972800.901</td>
<td>Tzero Powder Sample Preparation Kit</td>
</tr>
</tbody>
</table>

## Tzero Series DSC Sample Pans and Lids

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901670.901</td>
<td>Tzero Low-Mass Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901671.901</td>
<td>Tzero Lids (pkg. of 100)</td>
</tr>
<tr>
<td>901683.901</td>
<td>Tzero Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901684.901</td>
<td>Tzero Hermetic Lids (pkg. of 100)</td>
</tr>
</tbody>
</table>

## Tzero Series DSC Sample Pans and Lids

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>901685.901</td>
<td>Tzero Hermetic Pinhole Lid (75 micron diameter pinhole) (pkg. of 50)</td>
</tr>
<tr>
<td>901697.901</td>
<td>Tzero Alodined Pans (pkg. of 100)</td>
</tr>
<tr>
<td>901698.901</td>
<td>Tzero Hermetic Alodined Lids (pkg. of 100)</td>
</tr>
</tbody>
</table>

## Standard Series DSC Sample Pans and Lids

*Note: (*) Indicates the pans and lids work with the Tzero or Standard DSC Press.*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>900578.901</td>
<td>Platinum Sample Pans (pkg. of 10)</td>
</tr>
<tr>
<td>900760.901</td>
<td>Classic Aluminum Pans* (pkg. of 200) (higher sidewall compared to the standard aluminum sample pans)</td>
</tr>
<tr>
<td>900786.901</td>
<td>Aluminum Sample Pans* (pkg. of 200)</td>
</tr>
<tr>
<td>900779.901</td>
<td>Aluminum Lids* (pkg. of 200)</td>
</tr>
<tr>
<td>900793.901</td>
<td>Aluminum Sample Pans*, Hermetic (pkg. of 200)</td>
</tr>
<tr>
<td>900794.901</td>
<td>Aluminum Lids*, Hermetic (pkg. of 200)</td>
</tr>
</tbody>
</table>
High Pressure Sample Pan Kit
Note: Includes metal bell jar and lid, crimping tool, 5 reusable stainless steel capsules, and 20 seals.

High Pressure Capsule Seals (pkg. of 20)

High Pressure Capsules (pkg. of 5)

High Volume Sample Pan Kit
Note: Includes metal bell jar and lid, high volume die sets for Tzero and older Standard Press plus 100 each pans, lids, and seals.

High Volume Sample Pan Die Set (for Standard DSC Press)

High Volume Sample Pans, Lids, and Seals (pkg. of 100)

Hermetic Lids with Pinhole (pkg. of 50)

Coated Aluminum Sample Pans*, Hermetic (pkg. of 200)

Coated Aluminum Lids*, Hermetic (pkg. of 200)

Aluminum Sample Pans for SFI Samples (pkg. of 200)

Gold Sample Pans* (pkg. of 10)

Gold Lids* (pkg. of 10)

Gold Sample Pans, Hermetic* (pkg. of 10)

Gold Lids, Hermetic* (pkg. of 10)

Copper Sample Pans (pkg. of 200)

Graphite Sample Pans (pkg. of 10)

Graphite Lids (pkg. of 10)

Sapphire Specific Heat Material
(0.187 inch OD x 0.020 inch height, for DSC standard sample pans)
Note: Compatible with all pans except Standard Series Hermetic Pans P/N: 900793.901; 900796.901; 900871.901.

Adamantane Traceable Temperature and Enthalpy Calibration Material

DSC Calibration Materials

Kit, Tzero Calibration, Sapphire

Kit, MDSC Calibration, Sapphire

DSC / DTA Certified Temperature Calibration Kit

Replacement Certified Indium Reference Material (for P/N: 915060.901 kit)

Tin Calibration Material (not certified)

Indium Calibration Material (not certified)

Zinc Calibration Material (not certified)

Sapphire Specific Heat Material (0.16 inch OD x 0.020 inch height)
Note: Compatible with all pans except Standard Series Hermetic Pans P/N: 900793.901; 900796.901; 900871.901.

Sapphire Specific Heat Material (0.13 inch OD x 0.020 inch height)
Note: Compatible with all DSC and SDT Pans.
935018.901  PCA Longpass Filter, 390 nm (pkg. of 2)
935019.901  PCA Longpass Filter, 490 nm (pkg. of 2)
935015.901  Filter, Neutral Density, 1 %
935016.901  Filter, Neutral Density, 10 %
935021.001  Lamp, 100 W, Mercury (for the Novacure 2100)
935021.002  Lamp, 200 W, Mercury (for the Omincure S-2000)

**Discovery TGA & Q5000 IR TGA Accessories**

**Discovery TGA & Q5000 IR TGA Replacement Parts**

935399.901  Q5000 IR TGA / Discovery TGA Lower Furnace Assembly
957099.901  Tray Autosampler TGA - 25 position: (for use with platinum, ceramic, and aluminum sample pans)
957216.901  Tray Autosampler TGA - 10 position: (standard with Q5000 SA; option for Q5000 IR with Quartz Crucibles)
957515.901  Loop Decoupler Kit
953260.901  TGA Heat Exchanger (for use with Discovery, Q50, Q500, and Q5000 TGA Instruments)
Note: Requires TGA Heat Exchanger Harness (P/N: 953176.901) for connection to the TGA Instrument.
953176.901  TGA Heat Exchanger Harness (for use with the TGA Heat Exchanger (P/N: 953260.901))
952377.901  Heat Exchanger Conditioning Kit (fungicide)
952394.901  Sample Nickel Wire (not certified)
900905.901  Calcium Oxalate Monohydrate
957082.901  Sample Hang-down Hook (sample side hang-down wire)
952040.901  Tare Hang-down Wire
957381.001  Tube Load Q5000 IR Sample
957381.002  Tube Load Q5000 IR Reference
957341.901  TGA Weight Set (Calibrated)
957202.001  Crimping Die Set (for use with older standard press)
957250.901  Discovery TGA / Q5000 IR Autosampler Dust Cover with Light Guard

**Discovery TGA & Q5000 IR Sample Pans**

(Also suitable for use with the TGA-HP and VTI-SA Sorption Analyzers)

957207.903  Platinum Sample Pans, 50 μL (pkg. of 3)
957207.904  Platinum Sample Pans, 100 μL (pkg. of 3)
957571.901  Platinum - HT Sample Pans, 100 μL (pkg. of 3)
957329.903  Ceramic Sample Pans, 100 μL (pkg. of 3)
957329.904  Ceramic Sample Pans, 250 μL (pkg. of 3)
957363.901  Aluminum Sample Pans, 80 μL (pkg. of 100)
957362.901  Aluminum Lids (pkg. of 100)
957364.901  Stainless Steel Bail (pkg. of 15)
957210.902  Kit, Sample Pans, Quartz (pkg. of 3)
(Requires Autosampler Tray P/N: 957216.901)

**TGA Q5000 SA Accessories**

200266.001  RCS Dryer
Note: For removal of trace moisture in purge gases; one unit supplied with the Q5000 SA.
957011.902  Replacement Accessory Kit, Q5000 SA

**TGA Q5000 SA Sample Pans**

(Also suitable for use with the TGA-HP and VTI-SA Sorption Analyzers)

957210.902  Kit, Sample Pan, Quartz (pkg. of 3)
(Requires Autosampler Tray P/N: 957216.901)
957210.903  Kit, Sample Pan, Quartz, Metal Coated (pkg. of 3)
<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>957207.903</td>
<td>Platinum Sample Pans, 50 μL (pkg. of 3)</td>
<td>Note: Requires P/N: 957099.901 (see below) for use with Q5000 SA.</td>
</tr>
<tr>
<td>957207.904</td>
<td>Platinum Sample Pans, 100 μL (pkg. of 3)</td>
<td>Note: Requires P/N: 957099.901 (see below) for use with Q5000 SA.</td>
</tr>
<tr>
<td></td>
<td>TGA Q5000 SA Replacement Parts</td>
<td></td>
</tr>
<tr>
<td>957216.901</td>
<td>Tray Autosampler Humidity Chamber - 10 position</td>
<td></td>
</tr>
<tr>
<td>957099.901</td>
<td>Tray Autosampler TGA - 25 position</td>
<td>(required for use with Platinum or Aluminum Pans)</td>
</tr>
<tr>
<td>957515.901</td>
<td>Loop Decoupler Kit</td>
<td></td>
</tr>
<tr>
<td>957082.901</td>
<td>Hook Hangdown</td>
<td>(used for both the sample and tare side of the balance)</td>
</tr>
<tr>
<td>953260.901</td>
<td>TGA Heat Exchanger</td>
<td>(for use with Q50, Q500, and Q5000 TGA Instruments)</td>
</tr>
<tr>
<td>953176.901</td>
<td>TGA Heat Exchanger Harness</td>
<td>(P/N: 953176.901) for connection to the TGA Instrument.</td>
</tr>
<tr>
<td>952377.901</td>
<td>Heat Exchanger Conditioning Kit (fungicide)</td>
<td></td>
</tr>
<tr>
<td>957381.003</td>
<td>Tube Load Q5000 SA Sample / Reference</td>
<td></td>
</tr>
<tr>
<td>957156.901</td>
<td>Replacement Sensor Kit for Humidity Chamber</td>
<td></td>
</tr>
<tr>
<td>957400.901</td>
<td>TGA Calibration Set (Calibrated)</td>
<td>(for Q5000 IR and Q5000 SA)</td>
</tr>
<tr>
<td></td>
<td>Consumables and Accessories for TGA-HP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and VTI-SA Sorption Analyzers</td>
<td></td>
</tr>
<tr>
<td>810026.001</td>
<td>Quartz Sample Holder (diameter = 12 mm)</td>
<td>(for use with TGA-HP and VTI-SA)</td>
</tr>
<tr>
<td>810027.001</td>
<td>Quartz Sample Holder (flat bottom) (diameter = 12 mm)</td>
<td>(for use with TGA-HP and VTI-SA)</td>
</tr>
<tr>
<td>810028.001</td>
<td>Aluminum Round Sample Holder (diameter = 12 mm; height = 5 mm)</td>
<td>(for use with TGA-HP and VTI-SA)</td>
</tr>
<tr>
<td>810028.002</td>
<td>Aluminum Round Sample Holder (diameter = 25 mm; height = 5 mm)</td>
<td>(for use with VTI-SA)</td>
</tr>
<tr>
<td>810029.001</td>
<td>Permeation Cell (diameter = 10 mm; height = 10 mm)</td>
<td>(for use with VTI-SA)</td>
</tr>
<tr>
<td>820044.001</td>
<td>Aluminum Sample Holder, Glass Opening, Round</td>
<td>(diameter = 12 mm) (for use with VTI-SA; requires P/N: 820047.001 Glass Covers)</td>
</tr>
<tr>
<td></td>
<td>Humidifier Wicks for SGA-100 and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>VTI-SA Sorption Analyzers</td>
<td></td>
</tr>
<tr>
<td>820346.901</td>
<td>SGA-100 Humidifier Wicks (pkg. of 30)</td>
<td>(replacement humidifier wick consisting of a cotton wick over a supporting polypropylene rod)</td>
</tr>
<tr>
<td>820347.901</td>
<td>VTI-SA Humidifier Wicks (pkg. of 35)</td>
<td>(replacement humidifier wick consisting of a cotton wick over a supporting polypropylene rod)</td>
</tr>
<tr>
<td></td>
<td>Demonstration Materials for TGA-HP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and VTI-SA Sorption Analyzers</td>
<td></td>
</tr>
<tr>
<td>820343.901</td>
<td>PVP Demonstration Material</td>
<td>(demonstration material for use in the VTI-SA)</td>
</tr>
<tr>
<td>820344.901</td>
<td>BPL Carbon Demonstration Material</td>
<td>(demonstration material for use in the VTI-SA)</td>
</tr>
<tr>
<td>820345.901</td>
<td>NaCI Demonstration Material</td>
<td>(demonstration material for use in the VTI-SA)</td>
</tr>
<tr>
<td>820348.901</td>
<td>5A Zeolite Demonstration Material</td>
<td>(demonstration material for use in the TGA-HP)</td>
</tr>
<tr>
<td></td>
<td>VTI-SA+ Options</td>
<td></td>
</tr>
<tr>
<td>820387.901</td>
<td>VTI-SA+ High Resolution CCD Camera Accessory</td>
<td></td>
</tr>
<tr>
<td>820390.901</td>
<td>VTI-SA+ Organic Solvent Accessory</td>
<td></td>
</tr>
</tbody>
</table>
TGA Q500 / Q50 Accessories and Field Upgrades

953350.901 Upgrade Kit, TGA High Resolution
   Note: Upgrades a Q500 for High Resolution operation.

953450.901 Upgrade Kit, Modulated TGA
   Note: Upgrades a Q500 for Modulated TGA operation.

953150.901 Upgrade Kit, Q500 Autosampler
   Note: Upgrades a Q500 for autosampler operation. Price includes field installation.

953046.901 Evolved Gas Furnace (EGA)
   Note: Recommended for evolved gas analysis with a MS or FTIR.

952011.901 Accessory Kit, TGA (supplied with Q500 / Q50 modules)

271001.002 Q500 / Q50 Mass Spectrometer Interface Kit (without library)

957481.901 Event Cable, FTIR

TGA Q500 / Q50 Sample Pans
(Also suitable for use with the TGA-HP and VTI-SA Sorption Analyzers)

952018.906 Platinum Sample Pans, 100 μL (pkg. of 3)
952018.907 Ceramic Sample Pans, 100 μL (pkg. of 3)
952018.908 Platinum Sample Pans, 50 μL (pkg. of 3)
952018.909 Ceramic Sample Pans, 250 μL (pkg. of 3)
952018.910 Ceramic Sample Pans, 500 μL (pkg. of 3)
952323.902 Aluminum Sample Pans, 100 μL (pkg. of 12)

TGA Q500 / Q50 Replacement Parts

952040.901 Sample Hangdown Wire
952040.902 Tare Hangdown Wire
952040.903 Tare Hangdown Wire - Short
   (for use in the latest TGA Q500 / Q50 without a Tare Access Cover)
952110.001 Sample Hangdown Wire Tube
952256.901 Kapton Hangdown Loop (strip of 10)
953208.901 Sample Thermocouple for Q TGA
952240.901 Auto TGA Q500 / 2950 Multiple Sample Tray Kit
   (includes three additional sample trays)
952434.901 Furnace Tube (quartz) with Seal Kit and Instructions for the
   EGA Furnace
953032.901 Replacement TGA Q500 / Q50 Furnace

953260.901 TGA Heat Exchanger
   (for use with Q50, Q500, and Q5000 TGA Instruments)
   Note: Requires TGA Heat Exchanger Harness (P/N: 953176.901) for connection to the TGA Instrument.

953176.901 TGA Heat Exchanger Harness
   (for use with the TGA Heat Exchanger (P/N: 953260.901))

952377.901 Heat Exchanger Conditioning Kit (fungicide)

Discovery TGA / Q5000 / Q50 / Q50 / SDT Q600
Calibration and Test Materials

952541.902 TGA ICTAC Curie Point Reference Materials Kit
   for Discovery TGA & Q5000 IR
   Note: Includes 0.5 gram each of the six ICTAC certified materials listed below.

952541.901 TGA / SDT ICTAC Curie Point Reference Materials Kit
   Note: Includes 0.5 gram each of the six ICTAC certified materials listed below.

952500.901 Replacement ICTAC Certified Curie Point Reference Material 153°C
952504.901 Replacement ICTAC Certified Curie Point Reference Material 357°C
952508.901 Replacement ICTAC Certified Curie Point Reference Material 554°C
952512.901 Replacement ICTAC Certified Curie Point Reference Material 746°C
952516.901 Replacement ICTAC Certified Curie Point Reference Material 931°C
952520.901 Replacement ICTAC Certified Curie Point Reference Material 1116°C

952384.901 TGA / SDT Temperature Calibration Kit
   (Alumel and Nickel Reference Materials)

952385.901 Replacement Certified Nickel Reference Material
   (for kit P/N: 952384.901)
952398.901 Replacement Certified Alumel Reference Material
   (for kit P/N: 952384.901)

952540.901 TGA / SDT Mass Loss Reference Materials Kit
   Note: Includes 1 gram each of the three materials listed below.

952524.901 Mass Loss Reference Material (2% solution)
952528.901 Mass Loss Reference Material (49% solution)
952532.901 Mass Loss Reference Material (98% solution)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>269931.001</td>
<td>100 mg Class 1 Precision Weight for TGA Weight Calibration</td>
</tr>
<tr>
<td>269931.002</td>
<td>1 gram Class E2 Precision Weight for TGA Weight Calibration</td>
</tr>
<tr>
<td>900905.901</td>
<td>Calcium Oxalate Monohydrate</td>
</tr>
</tbody>
</table>

**SDT Q600 Accessories and Upgrades**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>271002.002</td>
<td>Q600 Mass Spectrometer Interface Kit (without library)</td>
</tr>
<tr>
<td>957481.901</td>
<td>Event Cable, FTIR</td>
</tr>
</tbody>
</table>

**SDT Q600 Sample Pans**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>960070.901</td>
<td>Alumina Sample Cups, 90 μL (pkg. of 3)</td>
</tr>
<tr>
<td>960072.901</td>
<td>Alumina Sample Cups, 40 μL (pkg. of 3)</td>
</tr>
<tr>
<td>960148.901</td>
<td>Platinum Sample Cups, 40 μL (pkg. of 3)</td>
</tr>
<tr>
<td>960149.901</td>
<td>Platinum Sample Cups, 110 μL (pkg. of 3)</td>
</tr>
<tr>
<td>960239.901</td>
<td>Alumina Lids, (pkg. of 3) for use with P/N: 960070.901 and 961060.901</td>
</tr>
<tr>
<td>961060.901</td>
<td>Alumina Sample Cups, Disposable, 90 μL (pkg. of 20)</td>
</tr>
</tbody>
</table>

**SDT Q600 Replacement Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>961011.901</td>
<td>SDT Q600 Accessory Kit (included with the SDT Q600 module)</td>
</tr>
<tr>
<td>960017.901</td>
<td>Dual Beam Thermocouple Kit, SDT Q600</td>
</tr>
<tr>
<td>270198.015</td>
<td>O-Ring, Furnace Tube</td>
</tr>
<tr>
<td>960014.901</td>
<td>Calibration Weights Set</td>
</tr>
<tr>
<td>960059.001</td>
<td>Thermocouple Wire Contact</td>
</tr>
<tr>
<td>961020.901</td>
<td>SDT Q600 Furnace</td>
</tr>
</tbody>
</table>

**TMA Q400 / Q400 EM Accessories and Upgrade Kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>945250.901</td>
<td>Upgrade Kit, Q400 to Q400 EM (includes Flexure Accessory Kit P/N: 944203.902)</td>
</tr>
<tr>
<td>944203.902</td>
<td>Flexure Accessory Kit (for Q400 use; supplied with Q400 EM)</td>
</tr>
<tr>
<td>944202.901</td>
<td>Dilatometer Accessory Kit</td>
</tr>
</tbody>
</table>

**TMA Q400 / Q400 EM Replacement Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>944120.901</td>
<td>Sample Stage</td>
</tr>
<tr>
<td>944122.901</td>
<td>Standard Expansion Probe Assembly</td>
</tr>
<tr>
<td>944123.901</td>
<td>Macro-Expansion Probe Assembly</td>
</tr>
<tr>
<td>944124.901</td>
<td>Dilatometer Probe Assembly</td>
</tr>
<tr>
<td>941143.000</td>
<td>Dilatometer Sample Vial</td>
</tr>
<tr>
<td>944125.901</td>
<td>Hemispherical Probe Assembly</td>
</tr>
<tr>
<td>944126.901</td>
<td>Penetration Probe Assembly</td>
</tr>
<tr>
<td>944127.901</td>
<td>Flexure Probe Assembly</td>
</tr>
<tr>
<td>945045.901</td>
<td>3-Point Bending Calibration Fixture</td>
</tr>
<tr>
<td>941054.000</td>
<td>3-Point Bending Flexure Platform</td>
</tr>
<tr>
<td>944121.901</td>
<td>Film / Fiber Sample Holder</td>
</tr>
<tr>
<td>945051.901</td>
<td>Film / Fiber Upper Clamp</td>
</tr>
<tr>
<td>945052.901</td>
<td>Film / Fiber Lower Clamp</td>
</tr>
<tr>
<td>945053.901</td>
<td>Film Clamping Fixture</td>
</tr>
<tr>
<td>944330.901</td>
<td>Film Clamp Screws, #0-80 (pkg. of 10)</td>
</tr>
<tr>
<td>941038.901</td>
<td>Vial of Cleaved Aluminum Balls (for Film / Fiber Probe)</td>
</tr>
<tr>
<td>941148.901</td>
<td>Filling Medium (for Dilatometer Vial)</td>
</tr>
<tr>
<td>944341.901</td>
<td>Protective Quartz Disc for Sample Stage (pkg. of 20)</td>
</tr>
<tr>
<td>944344.902</td>
<td>TMA Thermocouple Kit</td>
</tr>
</tbody>
</table>

**TMA Q400 / Q400 EM Accessories and Upgrade Kits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>945300.901</td>
<td>Mechanical Cooling Accessory - MCA 70 (120V, 60Hz)</td>
</tr>
<tr>
<td>945300.902</td>
<td>Mechanical Cooling Accessory - MCA 70 (220V, 50Hz)</td>
</tr>
<tr>
<td>945050.901</td>
<td>TMA Film / Fiber Accessory Kit</td>
</tr>
</tbody>
</table>

**SDT Q600 Accessories and Upgrades**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>270134.001</td>
<td>Flow Meter</td>
</tr>
</tbody>
</table>

Note: For purge gas regulation (14.8 to 148 mL/min) of earlier TMA Q400 / Q400 EM without mass flow control.
## TMA Q400 / Q400 EM Calibration Materials

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>915061.901</td>
<td>Replacement Certified Indium Reference Material</td>
</tr>
<tr>
<td>944217.901</td>
<td>Replacement Certified Aluminum Reference Material</td>
</tr>
<tr>
<td>944206.901</td>
<td>TMA Certified Temperature and Dimension Calibration Kit</td>
</tr>
</tbody>
</table>

## Miscellaneous Q Series Upgrades and Accessories (Q Series; Advantage; Platinum)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>920247.901</td>
<td>Display Kit Retrofit to QNX</td>
</tr>
</tbody>
</table>

Note: A TA Service installed kit that upgrades a Q Series DSC, TGA, TMA, or DMA module with VRTX module software to the new QNX version. The kit also includes a full VGA module display and the latest Advantage operating and data analysis software with Platinum features, the capability of which is module specific. Installation and basic training is also included. Contact your TA Instruments Field Service Engineer for further information.

## General Computer Accessories and Software

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>924500.602</td>
<td>Ethernet Switch</td>
</tr>
<tr>
<td>926404.901</td>
<td>Advantage Software (Thermal and Rheology)</td>
</tr>
<tr>
<td>925713.001</td>
<td>Software - Advantage Specialty Library</td>
</tr>
<tr>
<td>925003.901</td>
<td>HP Color Inkjet Printer Model D4160: 120 / 230V; 50 / 60 Hz</td>
</tr>
</tbody>
</table>

## Common Thermal Analysis Tools and Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>259508.000</td>
<td>Tweezers, Brass</td>
</tr>
<tr>
<td>259509.000</td>
<td>Spatula, Stainless Steel</td>
</tr>
<tr>
<td>271580.001</td>
<td>Tweezers, Curved</td>
</tr>
<tr>
<td>910824.001</td>
<td>DSC Cell Cleaning Brush</td>
</tr>
</tbody>
</table>
### TAM III Calorimeters: Parts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>320101</td>
<td>Lifting Tool, Nanocalorimeter</td>
</tr>
<tr>
<td>320140</td>
<td>Lifting Tool, Nanocalorimeter, for Heat Seal Ampoule</td>
</tr>
<tr>
<td>320601</td>
<td>Lifting Tool, Minicalorimeter</td>
</tr>
<tr>
<td>320640</td>
<td>Lifting Tool, Minicalorimeter, for Heat Seal Ampoule</td>
</tr>
<tr>
<td>3207</td>
<td>Minicalorimeter Dummy</td>
</tr>
<tr>
<td>604225</td>
<td>Flow Divider Plate Assembly for Macrocalorimeter:</td>
</tr>
<tr>
<td>604226</td>
<td>Macrocalorimeter Glass Ampoule Lifter:</td>
</tr>
<tr>
<td>604227</td>
<td>Macrocalorimeter Battery Lifter:</td>
</tr>
<tr>
<td>604334</td>
<td>125 mL Glass Ampoule (pkg. of 20):</td>
</tr>
<tr>
<td>604328</td>
<td>Start-Up Kit, 125 mL Glass Ampoule:</td>
</tr>
<tr>
<td>604329</td>
<td>18650 Battery Adapter Kit:</td>
</tr>
<tr>
<td>604331</td>
<td>Lifting Hook for 125 mL Glass Ampoule (pkg. of 1):</td>
</tr>
<tr>
<td>604717</td>
<td>TAM III Easy Access Top Lid Complete</td>
</tr>
<tr>
<td>604829</td>
<td>TAM III Test Kit - 4 mL</td>
</tr>
<tr>
<td>604820</td>
<td>TAM III Test Kit - 4 mL &amp; 20 mL</td>
</tr>
</tbody>
</table>

### TAM Air: Parts and Consumables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>323906</td>
<td>Lifting Tool, TAM Air</td>
</tr>
<tr>
<td>334601</td>
<td>Lifting Eyelet, HDPE Plastic Ampoules, 20 mL</td>
</tr>
<tr>
<td>3346-5</td>
<td>HDPE Plastic Ampoules, 20 mL, with Screw Cap (pkg. of 1000)</td>
</tr>
<tr>
<td>3350-2</td>
<td>TAM Air Start-Up Kit, 20 mL</td>
</tr>
<tr>
<td>3455</td>
<td>TAM Air Admix Ampoule, 20 mL, without motor</td>
</tr>
<tr>
<td>3456-1</td>
<td>TAM Air Admix Ampoule, 20 mL, with motor (115V, 50 / 60Hz)</td>
</tr>
<tr>
<td>3456-2</td>
<td>TAM Air Admix Ampoule, 20 mL, with motor (230V, 50 / 60Hz)</td>
</tr>
<tr>
<td>345630</td>
<td>Stirrer, Disposable (pkg. of 50), for Admix Ampoule, 20 mL</td>
</tr>
<tr>
<td>345622</td>
<td>Syringe (1 mL), for use with the Admix Ampoule</td>
</tr>
</tbody>
</table>

### Static Ampoules and Consumables: 4 mL Calorimeters

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2277-301</td>
<td>Ampoule, Stainless Steel, 4 mL, with Threaded Cap (pkg. of 2)</td>
</tr>
<tr>
<td>2277-301.3</td>
<td>Ampoule, Hastelloy, 4 mL, with Threaded Cap (pkg. of 2)</td>
</tr>
<tr>
<td>2277-302</td>
<td>Ampoule, Glass, Disposable, Start-Up Kit, 3 mL</td>
</tr>
<tr>
<td>24.20.0401</td>
<td>Ampoule, Glass, Disposable, 4 mL (pkg. of 485)</td>
</tr>
<tr>
<td>2502-10</td>
<td>Ampoule, Stainless Steel, 1 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>2502-11</td>
<td>Ampoule, Glass, 1 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>2502-12</td>
<td>Ampoule, Hastelloy, 1 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>2502-40</td>
<td>Ampoule, Stainless Steel, 4 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>2502-41</td>
<td>Ampoule, Glass, 4 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>2502-42</td>
<td>Ampoule, Hastelloy, 4 mL, with Circlip Cap (pkg. of 1)</td>
</tr>
<tr>
<td>3320</td>
<td>Ampoule, Hastelloy, 4 mL, with Thread / O-Ring Cap (pkg. of 1)</td>
</tr>
<tr>
<td>3320-1</td>
<td>Ampoule, Stainless Steel, 4 mL, with Thread / O-Ring Cap (pkg. of 1)</td>
</tr>
<tr>
<td>3330-3</td>
<td>Start-Up Kit, 4 mL, with 50 Eyelets</td>
</tr>
<tr>
<td>3330-4</td>
<td>Start-Up Kit, 4 mL, with 12 Eyelets</td>
</tr>
<tr>
<td>86.33.0400</td>
<td>Aluminum Caps, Sealing Discs, Glass Ampoules 3 and 4 mL (pkg. of 100)</td>
</tr>
<tr>
<td>95.53.1015</td>
<td>Ampoules, Glass, Disposable, 3 mL (pkg. of 100)</td>
</tr>
</tbody>
</table>
202255.001 Decapper Tool (11 mm): a decapping tool for the 3 and 4 mL disposable glass ampoules (P/N: 95.53.1015 and P/N: 24.20.0401) used in the TAM III

2422-000 Cap Adjustment Tool

**Other Consumables and Accessories: 4 mL Calorimeters**

- 2250-420 Ampoule Seal, PTFE, 1 and 4 mL (pkg. of 5) (for Circlip Ampoules)
- 2252-460 Lifting Eyelet, Ampoule, 1 mL
- 2277-305 Seal Discs, PTFE, 4 mL, Threaded Cap (pkg. of 100)
- 3339 Cap, Crimping Tool, Ampoules, 3 and 4 mL
- 2241-010 Lifting Eyelet, Ampoules, Glass, 4 and 20 mL
- 2241-020 Centering Tool, 4 mL Disposable Glass Ampoule
- 2241-060 Lifting Eyelet, Ampoules, Glass, 3 mL
- 84.25.1201 Circlip, 12 mm (pkg. of 1) (for Circlip Ampoule)
- 84.39.1001.1 O-Ring, 10.4 x 1.0 mm Nitrile (pkg. of 1) (for Circlip Ampoule)
- 84.39.1001.2 O-Ring, 10.4 x 1.0 mm EPDM (pkg. of 1) (for Circlip Ampoule)
- 84.39.1001.3 O-Ring, 10.4 x 1.0 mm Viton (pkg. of 1) (for Circlip Ampoule)
- 84.39.1001.4 O-Ring, 10.4 x 1.0 mm Kalrez (pkg. of 1) (for Circlip Ampoule)
- 2277-307 Steel Ampoule Key: a locking tool to facilitate the sealing of 4 mL threaded cap ampoules (P/N: 2277-301 and P/N: 3377-301.3)

**Static Ampoules and Consumables: 20 mL Calorimeters**

- 2277-309 Ampoule, Stainless Steel, 20 mL, with Threaded Cap (pkg. of 1)
- 24.60.0001 Ampoules, Disposable Glass, 20 mL (pkg. of 113)
- 2602-20 Ampoule, Stainless Steel, 20 mL, with Circlip Cap (pkg. of 1)
- 2602-21 Ampoule, Glass, 20 mL, with Circlip Cap (pkg. of 1)
- 2602-22 Ampoule, Hastelloy, 20 mL, with Circlip Cap (pkg. of 1)
- 2606-21 Start-Up Kit, 20 mL, Disposable Glass Ampoules
- 3343 Ampoule, Glass / Hastelloy, 20 mL, with Hastelloy Circlip Cap (pkg. of 1)
- 86.33.2000 Aluminum Caps, Sealing Discs, Glass Ampoules, 20 mL (pkg. of 100)
- 2461-020 Centering Tool, 20 mL, Disposable Glass Ampoule
- 604056.901 Stainless Steel Titration Shaft (complete) for 1 mL Titration Ampoule (P/N: 3410-1)
- 604061.901 Hastelloy Titration Shaft (complete) for 1 mL Titration Ampoule (P/N: 3410)
- 2254-420 Ampoule Seal, PTFE, 20 mL (pkg. of 5)
- 2277-312 PTFE Seal Discs, 20 mL, with Threaded Cap (pkg. of 50)
- 2241-010 Lifting Eyelet, Glass Ampoules, 4 and 20 mL
- 2462-000 Cap Crimping Tool, Glass Ampoules, 20 mL
- 84.25.2501 Circlip, 25 mm (pkg. of 1) (for Circlip Ampoule)
- 84.39.2201.1 O-Ring, 22.1 x 1.6 mm Nitrile (pkg. of 1) (for Circlip Ampoule)
- 84.39.2201.2 O-Ring, 22.1 x 1.6 mm EPDM (pkg. of 1) (for Circlip Ampoule)
- 84.39.2201.3 O-Ring, 22.1 x 1.6 mm Viton (pkg. of 1) (for Circlip Ampoule)
- 84.39.2201.4 O-Ring, 22.1 x 1.6 mm Kalrez (pkg. of 1) (for Circlip Ampoule)
- 2225-110 Reaction Vessel, Glass, 100 mL, with Bridge Plugs
- 2225-130 Reaction Vessel, Glass, 25 mL, with Bridge Plugs
- 2225-150 Crushing Ampoules, 1 mL, with Stopper (pkg. of 50)
- 2225-152 Crushing Ampoules, Heat Seal, 1 mL, with Filling Tube, 2 mm
- 2226-110 Titration Vessel, Glass, 100 mL, with Bridge Plugs
- 2226-130 Titration Vessel, Glass, 25 mL, with Bridge Plugs
- 3820 Heat Sealer

**Consumables and Accessories: 1 and 4 mL Micro Reaction Systems**

- 22.50.1200 Shaft, Complete, Perfusion, 1 and 4 mL
- 22.50.1200.3 Shaft, Complete, Perfusion, Hastelloy, 1 and 4 mL
- 22.50.1230.1 Shaft, Lower, Perfusion, 18K Gold, 4 mL
- 22.50.6100.1 Tube, Titration, 18K Gold, 4 mL
- 604056.901 Stainless Steel Titration Shaft (complete) for 1 mL Titration Ampoule (P/N: 3410-1)
- 604061.901 Hastelloy Titration Shaft (complete) for 1 mL Titration Ampoule (P/N: 3410)
- 22.51.1200 Shaft, Complete, Titration, 1 and 4 mL
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.51.1200.1</td>
<td>Shaft, Complete, Titration, 18K Gold, 1 and 4 mL</td>
<td></td>
</tr>
<tr>
<td>22.51.1200.3</td>
<td>Shaft, Complete, Titration, Hastelloy, 1 and 4 mL</td>
<td></td>
</tr>
<tr>
<td>22.51.1230.1</td>
<td>Shaft, Lower, Titration, 18K Gold, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-420</td>
<td>Ampoule Seal, PTFE, 1 and 4 mL (pkg. of 5)</td>
<td></td>
</tr>
<tr>
<td>2250-450</td>
<td>Reaction Vessel, Stainless Steel, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-452</td>
<td>Reaction Vessel, Glass, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-453</td>
<td>Reaction Vessel, Hastelloy, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-500</td>
<td>Stirrer, Turbine, Kel-F, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-501</td>
<td>Stirrer, Turbine, Stainless Steel, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-502</td>
<td>Stirrer, Turbine, Kel-F with 18K Gold Shaft, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-503</td>
<td>Stirrer, Turbine, Hastelloy, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-510</td>
<td>Stirrer, Paddle, 18K Gold, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-520</td>
<td>Propeller, 18K Gold, 4 mL</td>
<td></td>
</tr>
<tr>
<td>604295.901</td>
<td>Secondary Propeller, Gold, 4 mL (for use with the 2250-520 Propeller, 18K Gold, 4 mL)</td>
<td></td>
</tr>
<tr>
<td>604425.901</td>
<td>Stirrer, Double Propeller, Gold, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-990</td>
<td>Kalrez Kit, Ampoule, Perfusion, 1 and 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-991</td>
<td>Kalrez Kit, Ampoule, Titration, 1 and 4 mL</td>
<td></td>
</tr>
<tr>
<td>2250-999</td>
<td>Service Kit, 1 and 4 mL</td>
<td></td>
</tr>
<tr>
<td>2252-450</td>
<td>Reaction Vessel, Stainless Steel, 1 mL</td>
<td></td>
</tr>
<tr>
<td>2252-452</td>
<td>Reaction Vessel, Glass, 1 mL</td>
<td></td>
</tr>
<tr>
<td>2252-453</td>
<td>Reaction Vessel, Hastelloy, 1 mL</td>
<td></td>
</tr>
<tr>
<td>2252-511</td>
<td>Propeller, 18K Gold, 1 mL</td>
<td></td>
</tr>
<tr>
<td>2252-530</td>
<td>Stirrer, Turbine, Kel-F, 1 mL</td>
<td></td>
</tr>
<tr>
<td>2255-990</td>
<td>Kalrez Kit, Ampoule, RH Perfusion, 1 and 4 mL</td>
<td></td>
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<tr>
<td>2255-991</td>
<td>Kalrez Kit, Ampoule, RH Perfusion / Titration, 1 and 4 mL</td>
<td></td>
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<tr>
<td>2256-510</td>
<td>Cell Culture Glasses (pkg. of 10)</td>
<td></td>
</tr>
<tr>
<td>2256-520</td>
<td>Matrix Cartridge</td>
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</tr>
<tr>
<td>2421-032</td>
<td>Hygrostat, Micro, 0.2 mL (pkg. of 100)</td>
<td></td>
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<tr>
<td>2421-033</td>
<td>Hygrostat, Micro, 0.3 mL (pkg. of 100)</td>
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<tr>
<td>2613</td>
<td>Calibration Heater, External, 4 mL</td>
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<tr>
<td>332305</td>
<td>Reaction Vessel, Glass / Hastelloy, 4 mL</td>
<td></td>
</tr>
<tr>
<td>2251-990</td>
<td>Titration Preparation Kit</td>
<td></td>
</tr>
<tr>
<td>3520</td>
<td>Stirrer Holder for Glass Plates (pkg. of 10)</td>
<td></td>
</tr>
<tr>
<td>84.25.1201</td>
<td>Circlip, 12 mm (pkg. of 1) (for Circlip Ampoule)</td>
<td></td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Capacity</th>
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<tbody>
<tr>
<td>84.39.1001.1</td>
<td>O-Ring, 10.4 x 1.0 mm Nitrile (pkg. of 1) (for Circlip Ampoule)</td>
<td></td>
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<tr>
<td>84.39.1001.2</td>
<td>O-Ring, 10.4 x 1.0 mm EDPM (pkg. of 1) (for Circlip Ampoule)</td>
<td></td>
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<tr>
<td>84.39.1001.3</td>
<td>O-Ring, 10.4 x 1.0 mm Viton (pkg. of 1) (for Circlip Ampoule)</td>
<td></td>
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<tr>
<td>84.39.1001.4</td>
<td>O-Ring, 10.4 x 1.0 mm Kalrez (pkg. of 1) (for Circlip Ampoule)</td>
<td></td>
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<tr>
<td>604769.901</td>
<td>Cannula - Disposable (0.8 x 80 mm)</td>
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<tr>
<td>604771.901</td>
<td>MRS Reaction Vessel Circlip Plier</td>
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</tbody>
</table>

**Consumables and Accessories:**

**20 mL Micro Reaction Systems**

- 6310-001 Power Supply, Single Channel (115V / 60Hz), for 2277 MRS Ampoules
- 6310-002 Power Supply, Single Channel (230V, 50 / 60Hz), for 2277 MRS Ampoules
- 6311-001 Stirrer Power Supply (1.5 to 12VDC, USA), for TAM III 20 mL MRS Ampoules
- 6311-002 Stirrer Power Supply (5 to 12VDC, EURO), for TAM III 20 mL MRS Ampoules
- 22.54.1230.1 Shaft, Lower, Perfusion, 18K Gold, 20 mL
- 22.54.1231.1 Shaft, Lower, Titration, 18K Gold, 20 mL
- 22.64.1200 Shaft, Complete, Perfusion, 20 mL
- 22.64.1200.3 Shaft, Complete, Perfusion, Hastelloy, 20 mL
- 22.64.1201 Shaft, Complete, Titration, 20 mL
- 22.64.1201.3 Shaft, Complete, Titration, Hastelloy, 20 mL
- 345600.12 Shaft, Complete, Titration, 20 mL TAM III
- 22.64.6100.1 Tube, Titration, 18K Gold, 20 mL
- 2254-420 Ampoule Seal, PTFE, 20 mL (pkg. of 5)
- 2254-450 Reaction Vessel, Stainless Steel, 20 mL
- 2254-452 Reaction Vessel, Glass, 20 mL
- 2254-453 Reaction Vessel, Hastelloy, 20 mL
- 2265-650 Stirrer, Stainless Steel Turbine / Gold Propeller, used for 20 mL Microsolution Ampoule
- 2254-500 Stirrer, Turbine, PEEK, 20 mL
- 2254-503 Stirrer, Turbine, Hastelloy, 20 mL
- 2254-510 Stirrer, Paddle, 18K Gold, 20 mL
- 2254-511 Stirrer, Paddle, Stainless Steel, 20 mL
- 2264-990 Kalrez Kit, Ampoule, Perfusion, 20 mL
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2264-991</td>
<td>Kalrez Kit, Ampoule, Titration, 20 mL</td>
</tr>
<tr>
<td>2265-621</td>
<td>Sample Cartridge, 20 µL, Channel 1</td>
</tr>
<tr>
<td>2265-622</td>
<td>Sample Cartridge, 20 µL, Channel 2</td>
</tr>
<tr>
<td>2265-623</td>
<td>Sample Cartridge, 20 µL, Channel 3</td>
</tr>
<tr>
<td>22.65.9011</td>
<td>Loading Tube, Cartridge, 20 µL</td>
</tr>
<tr>
<td>2265-641</td>
<td>Sample Cartridge, 40 µL, Channel 1</td>
</tr>
<tr>
<td>2265-642</td>
<td>Sample Cartridge, 40 µL, Channel 2</td>
</tr>
<tr>
<td>2265-643</td>
<td>Sample Cartridge, 40 µL, Channel 3</td>
</tr>
<tr>
<td>22.65.9010</td>
<td>Loading Tube, Cartridge, 40 µL</td>
</tr>
<tr>
<td>22.65.9000</td>
<td>Loading Tool</td>
</tr>
<tr>
<td>2269-990</td>
<td>Kalrez Kit, Ampoule, RH Perfusion, 20 mL</td>
</tr>
<tr>
<td>2269-991</td>
<td>Kalrez Kit, Ampoule, RH Perfusion / Titration, 20 mL</td>
</tr>
<tr>
<td>334305</td>
<td>Reaction Vessel, Glass / Hastelloy, 20 mL</td>
</tr>
<tr>
<td>84.25.2501</td>
<td>Circlip, 25 mm (pkg. of 1) (for Circlip Ampoule)</td>
</tr>
<tr>
<td>84.33.0503</td>
<td>Blind Plug (pkg. of 1)</td>
</tr>
<tr>
<td>84.39.2201.1</td>
<td>O-Ring, 22.1 x 1.6 mm Nitrile (pkg. of 1) (for Circlip Ampoule)</td>
</tr>
<tr>
<td>84.39.2201.2</td>
<td>O-Ring, 22.1 x 1.6 mm EPDM (pkg. of 1) (for Circlip Ampoule)</td>
</tr>
<tr>
<td>84.39.2201.3</td>
<td>O-Ring, 22.1 x 1.6 mm Viton (pkg. of 1) (for Circlip Ampoule)</td>
</tr>
<tr>
<td>84.39.2201.4</td>
<td>O-Ring, 22.1 x 1.6 mm Kalrez (pkg. of 1) (for Circlip Ampoule)</td>
</tr>
<tr>
<td>84.39.0111.4</td>
<td>O-Ring, 1.15 x 1.0 mm Kalrez (pkg. of 1)</td>
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**General Consumables**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>6140-008</td>
<td>Syringe, 100 µL with Cannula, Stainless Steel</td>
</tr>
<tr>
<td>6140-009</td>
<td>Syringe, 100 µL with Cannula, 18K Gold</td>
</tr>
<tr>
<td>6140-010</td>
<td>Syringe, 250 µL with Cannula, Stainless Steel</td>
</tr>
<tr>
<td>6140-011</td>
<td>Syringe, 250 µL with Cannula, 18K Gold</td>
</tr>
<tr>
<td>6140-012</td>
<td>Syringe, 500 µL with Cannula, Stainless Steel</td>
</tr>
<tr>
<td>6140-013</td>
<td>Syringe, 500 µL with Cannula, 18K Gold</td>
</tr>
<tr>
<td>6140-014</td>
<td>Syringe, 1 mL with Cannula, Stainless Steel</td>
</tr>
<tr>
<td>6140-015</td>
<td>Syringe, 1 mL with Cannula, 18K Gold</td>
</tr>
<tr>
<td>6140-016</td>
<td>Syringe, 2.5 mL with Cannula, Stainless Steel</td>
</tr>
<tr>
<td>6140-017</td>
<td>Syringe, 2.5 mL with Cannula, 18K Gold</td>
</tr>
<tr>
<td>6141-044</td>
<td>Tubing, Aliprene, White / White (pkg. of 6)</td>
</tr>
<tr>
<td>604647.001</td>
<td>Syringe 100 µL with Removable Needle</td>
</tr>
<tr>
<td>604648.001</td>
<td>Syringe 250 µL with Removable Needle</td>
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</table>
## Nano DSC System Accessories and Consumables

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6111</td>
<td>Vinyl Caps for Capillary Cell (pkg. of 20)</td>
</tr>
<tr>
<td>6312</td>
<td>Pressure Cap O-Ring (pkg. of 2)</td>
</tr>
<tr>
<td>6113</td>
<td>Pressure Cap</td>
</tr>
<tr>
<td>6114</td>
<td>Tubing Monosil, 2 feet (pkg. of 2)</td>
</tr>
<tr>
<td>6115</td>
<td>Micropipette (500 - 2500 µL) for Capillary Cell</td>
</tr>
<tr>
<td>6116</td>
<td>Pipette Tips, used with Micropipette (500 - 2500 µL) (pkg. of 100)</td>
</tr>
<tr>
<td>6317</td>
<td>Cylindrical Cell Cleaning Tool</td>
</tr>
<tr>
<td>6118</td>
<td>O-Ring for Cylindrical Cell Cleaning Tool (pkg. of 4)</td>
</tr>
<tr>
<td>6119</td>
<td>Syringe, 1 mL, for Cylindrical Cell</td>
</tr>
<tr>
<td>6120</td>
<td>Syringe Needle (5 inch), No Stop, for Cylindrical Cell</td>
</tr>
<tr>
<td>602035.001</td>
<td>AutoSampler Cable External (for connection of the Nano DSC AutoSampler Interface to the Nano DSC Instrument)</td>
</tr>
<tr>
<td>602214.901</td>
<td>AutoSampler Cable External (for connection of the Nano DSC AutoSampler Interface (P/N: 602215.901) to the Nano DSC Instrument (P/N: 602000.901))</td>
</tr>
<tr>
<td>602067.901</td>
<td>AutoSampler Solvent Inlet Assembly (pkg. of 5)</td>
</tr>
<tr>
<td>602068.901</td>
<td>AutoSampler Waste Line Assembly (pkg. of 2)</td>
</tr>
<tr>
<td>602069.901</td>
<td>AutoSampler Interface Tubing Assembly (pkg. of 1)</td>
</tr>
<tr>
<td>602071.001</td>
<td>96 Deep Well Plate (sample volume = 1.64 mL) (pkg. of 2) (for use with the Nano DSC AutoSampler)</td>
</tr>
<tr>
<td>602072.001</td>
<td>Sealing Mat 96 Well (pkg. of 2) (for use with the Nano DSC AutoSampler)</td>
</tr>
<tr>
<td>99555610</td>
<td>Cable, USB, 6 Ft. (pkg. of 1) (used to connect the Nano DSC AutoSampler to the computer)</td>
</tr>
<tr>
<td>6326</td>
<td>Complete Degassing Station (110 / 230V)</td>
</tr>
<tr>
<td>99552110</td>
<td>Clear Plastic Vacuum Dome (for Complete Degassing Station (P/N: 6326))</td>
</tr>
<tr>
<td>603028</td>
<td>Vacuum Connection Hose Assembly (for Complete Degassing Station (P/N: 6326))</td>
</tr>
<tr>
<td>602198.901</td>
<td>Nano Differential Scanning Calorimeter (Nano DSC) Test Kit (contains water sample, glycine sample buffer, and lysozyme sample)</td>
</tr>
<tr>
<td>602000.921</td>
<td>Nano DSC Capillary Cell Accessory Kit</td>
</tr>
<tr>
<td>603050.901</td>
<td>96-well Plate Adapter for Degassing Station</td>
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## Nano ITC System Accessories and Consumables

<table>
<thead>
<tr>
<th>Item Number</th>
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<tbody>
<tr>
<td>99552090</td>
<td>Teflon Coated Stir Rod for 1 mL Conical Vials</td>
</tr>
<tr>
<td>99552100</td>
<td>Teflon Coated Round Stir Rod (3 mm x 6.35 mm)</td>
</tr>
<tr>
<td>99552102</td>
<td>Teflon Coated Round Stir Rod (8 mm x 25 mm)</td>
</tr>
<tr>
<td>73714210</td>
<td>Vacuum Flask, Side Arm, 1000 mL</td>
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<tr>
<td>4801</td>
<td>1L Side-Arm Vacuum Flask Accessory (Glass)</td>
</tr>
<tr>
<td>5312</td>
<td>O-Ring for Nano ITC Titration Buret (pkg. of 2)</td>
</tr>
<tr>
<td>5317</td>
<td>Stainless Steel Cleaning Tool (for the Nano ITC Standard Volume (1 mL) Instrument)</td>
</tr>
<tr>
<td>601028.901</td>
<td>Stainless Steel Cleaning Tool (for the Nano ITC Low Volume (190 µL) Instrument)</td>
</tr>
<tr>
<td>5319</td>
<td>Vacuum Cup Replacement for Cleaning Tool for Titration Cell (P/N: 5317)</td>
</tr>
<tr>
<td>5342</td>
<td>Cell Filling Syringe (2.5 mL), with Needle</td>
</tr>
<tr>
<td>5343</td>
<td>Filling Syringe Needle (pkg. of 3)</td>
</tr>
<tr>
<td>5344</td>
<td>Titration Syringe (100 µL) with Needle (recommended spare for the Nano Standard Volume (1 mL) instrument.)</td>
</tr>
<tr>
<td>5345</td>
<td>Titration Syringe (250 µL) with Needle (recommended spare for the Nano Standard Volume (1 mL) instrument.)</td>
</tr>
<tr>
<td>305155610</td>
<td>Dummy ITC Needle (for use in the reference cell of the Nano ITC Standard Volume (1 mL) instrument)</td>
</tr>
<tr>
<td>601029.901</td>
<td>Dummy ITC Needle (for use in the reference cell of the Nano ITC Low Volume (190 µL) instrument)</td>
</tr>
<tr>
<td>5346</td>
<td>Titration Syringe with Needle (50 µL) (recommended spare for Nano ITC Low Volume (190 µL) instrument)</td>
</tr>
<tr>
<td>5347</td>
<td>Cell Filling Syringe with Needle (0.5 mL) (recommended spare for Nano ITC Low Volume (190 µL) instrument)</td>
</tr>
</tbody>
</table>

Note: Not recommended for use with the Nano ITC Low Volume (190 µL) instrument.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>5348</td>
<td>Cell Filling Syringe (0.5 mL) (recommended spare for the Nano ITC Low Volume (190 µL) instrument)</td>
</tr>
<tr>
<td>5349</td>
<td>Filling Syringe Needle (pkg. of 3) (recommended spare for the Nano ITC Low Volume (190 µL) instrument) <em>Note: Not recommended for the Nano ITC Standard Volume (1 mL) instrument.</em></td>
</tr>
<tr>
<td>601000.921</td>
<td>Nano ITC Low Volume Accessory Kit</td>
</tr>
<tr>
<td>601001.921</td>
<td>Nano ITC Standard Volume Accessory Kit</td>
</tr>
<tr>
<td>601169.901</td>
<td>Nano ITC Standard Buret Handle</td>
</tr>
<tr>
<td>601220.901</td>
<td>Nano ITC Organic Solvent Buret Handle (for use with the Nano ITC when using organic solvents)</td>
</tr>
<tr>
<td>601234.901</td>
<td>Nano ITC Buret and Syringe Stand Kit</td>
</tr>
<tr>
<td>601221.001</td>
<td>Nano ITC Buret O-Rings (Kalrez) (pkg. of 2)</td>
</tr>
<tr>
<td>601277.001</td>
<td>Titration Syringe Plunger, 50 µL</td>
</tr>
<tr>
<td>601278.001</td>
<td>Titration Syringe Plunger, 100 µL</td>
</tr>
<tr>
<td>601279.001</td>
<td>Titration Syringe Plunger, 250 µL</td>
</tr>
<tr>
<td>601274.901</td>
<td>Titration Syringe with Needle, 50 µL (Organic Solvent Compatible)</td>
</tr>
<tr>
<td>601275.901</td>
<td>Titration Syringe with Needle, 100 µL (Organic Solvent Compatible)</td>
</tr>
<tr>
<td>601276.901</td>
<td>Titration Syringe with Needle, 250 µL (Organic Solvent Compatible)</td>
</tr>
<tr>
<td>600072.901</td>
<td>MC DSC Accessory Kit</td>
</tr>
<tr>
<td>600088.901</td>
<td>MC DSC Gas Flow Meter (for use with MC DSC P/N: 600000.901)</td>
</tr>
<tr>
<td>600086.001</td>
<td>MC DSC Gas Flow Meter Stand (only for use with MC DSC Gas Flow Meter P/N: 600088.901)</td>
</tr>
<tr>
<td>4129</td>
<td>Gas Regulator (0 to 4,000 psi / 0 to 40 psi), for use in North America only</td>
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<tr>
<td>4130</td>
<td>Second User Ampoule Kit (pkg. of 4)</td>
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<tr>
<td>4128-1</td>
<td>High Capacity Cooling Bath (115V)</td>
</tr>
<tr>
<td>4128-2</td>
<td>High Capacity Cooling Bath (230V)</td>
</tr>
<tr>
<td>4171</td>
<td>High Pressure Ampoule Kit for MC DSC (pkg. of 4)</td>
</tr>
<tr>
<td>4175</td>
<td>Batch Mixing Ampoule Kit (pkg. of 3)</td>
</tr>
<tr>
<td>4176</td>
<td>Probe Accessible Cells (pkg. of 4)</td>
</tr>
</tbody>
</table>

### Accessories, Parts, and Supplies for Previous Generation CSC Instruments

#### DSC Calorimeters
- 4131 Reusable Ampoule, Hastelloy-C (set of 3)
- 4136 Solid Reference Ampoule Set
- 4138 MC DSC Access Lid O-Ring (pkg. of 1)
- 4139 Ampoule Storage Block

#### Isothermal Titration Calorimeters

##### Model 4201-ST Isothermal Titration Calorimeter
- 4230 Second User - Cell Assembly Kit
- 4231 Cell Assembly Set, Hastelloy-C (2 each)
- 4232 Test Shunt Assembly (2 each)
- 4235 Micro-Batch Addition Cell
- 4242 Cell Filling Syringe (2.5 mL) with Needle
- 4243 Teflon Stirrer Sleeves (pkg. of 2)
- 4244 Buret Syringe and Needle
- 4245 Flexible Cell Stirrers (pkg. of 3)
- 4246 Viton Cell O-Rings (pkg. of 10)
- 4247 Kalrez Cell O-Rings (pkg. of 4)
- 4248 Quick Release Coupler

##### Model 4301-ST Isoperibol Solution Calorimeter
- 4325 Recommended Supplies Kit for 4300
- 4331 Reaction Vessel
- 4332 Batch Ampoule, Hastelloy-C
- 4333 Ampoule Glass Windows (pkg. of 100)
- 4334E EP Ampoule O-Rings (pkg. of 10)
- 4334K Kalrez Ampoule O-Rings (pkg. of 10)
- 4334V Viton Ampoule O-Rings (pkg. of 10)
- 4336 Teflon Titrant Delivery Line
- 4337 Glass Reaction Vessel Stirrer (pkg. of 2)
- 4338E EP Dewar O-Rings (pkg. of 2)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>4338K</td>
<td>Kalrez Dewar O-Rings (pkg. of 2)</td>
<td>730</td>
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<tr>
<td>4338V</td>
<td>Viton Dewar O-Rings (pkg. of 2)</td>
<td>10</td>
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<tr>
<td>4339</td>
<td>Spring Clamp for Dewar</td>
<td>45</td>
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<tr>
<td>4340</td>
<td>Micro-Combination pH Electrode</td>
<td>630</td>
</tr>
<tr>
<td>4341</td>
<td>Replacement Thermister</td>
<td>245</td>
</tr>
<tr>
<td>4342</td>
<td>Replacement Calibration Heater</td>
<td>40</td>
</tr>
</tbody>
</table>

**Model 4401-2ST / 4401-4ST Standard Temperature**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4432</td>
<td>Batch Addition Adapter</td>
<td>10,500</td>
</tr>
<tr>
<td>4437-1</td>
<td>Buret Syringe, 1 mL</td>
<td>200</td>
</tr>
<tr>
<td>4437-2</td>
<td>Buret Syringe, 2.5 mL</td>
<td>200</td>
</tr>
<tr>
<td>4437-5</td>
<td>Buret Syringe, 5 mL</td>
<td>200</td>
</tr>
<tr>
<td>4444</td>
<td>Adsorption Bed Cartridge</td>
<td>235</td>
</tr>
<tr>
<td>4446</td>
<td>Flexible Adsorption Cell Stirrer (pkg. of 3)</td>
<td>240</td>
</tr>
<tr>
<td>4450</td>
<td>Glass Ampoule Accessory Kit</td>
<td>3,030</td>
</tr>
<tr>
<td>4451</td>
<td>Glass Ampoules Lowering Rod</td>
<td>2,070</td>
</tr>
<tr>
<td>4452</td>
<td>Glass Ampoules (pkg. of 36)</td>
<td>190</td>
</tr>
<tr>
<td>4453</td>
<td>Glass Ampoule Seals with Teflon Liners (pkg. of 72)</td>
<td>220</td>
</tr>
<tr>
<td>4454</td>
<td>Glass Ampoule Metal Crimp Lids (pkg. of 144)</td>
<td>80</td>
</tr>
<tr>
<td>4455</td>
<td>Glass Ampoule Tool Kit</td>
<td>965</td>
</tr>
<tr>
<td>4456</td>
<td>Ampoule Set, Hastelloy-C</td>
<td>4,570</td>
</tr>
<tr>
<td>4458</td>
<td>Battery Shunts</td>
<td>2,690</td>
</tr>
<tr>
<td>4460</td>
<td>Glove Box Accessory Kit</td>
<td>5,240</td>
</tr>
</tbody>
</table>

**Model 4501 Isothermal Nano Calorimeter**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4550</td>
<td>Glass Ampoule Accessory Kit</td>
<td></td>
</tr>
<tr>
<td>4552</td>
<td>Glass Ampoules (pkg. of 100)</td>
<td></td>
</tr>
<tr>
<td>4553</td>
<td>Glass Ampoule Seals with Teflon Liners (pkg. of 100)</td>
<td></td>
</tr>
<tr>
<td>4554</td>
<td>Glass Ampoule Metal Crimp Lids (pkg. of 100)</td>
<td></td>
</tr>
<tr>
<td>4555</td>
<td>Glass Ampoule Tool Kit</td>
<td></td>
</tr>
</tbody>
</table>

**Model 4601-ST, 2-Drop Calorimeter**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4642-2</td>
<td>Syringe (100 µL) with Needle (2 Drop)</td>
<td></td>
</tr>
<tr>
<td>4642-3</td>
<td>Syringe (250 µL) with Needle (2 Drop)</td>
<td></td>
</tr>
<tr>
<td>4644</td>
<td>Stirrer Bar (pkg. of 5)</td>
<td></td>
</tr>
<tr>
<td>4645</td>
<td>Pressure Sensor Needles</td>
<td></td>
</tr>
<tr>
<td>4652</td>
<td>Glass Ampoules (pkg. of 100)</td>
<td></td>
</tr>
<tr>
<td>4653</td>
<td>Metal Crimp Seal with Silicone / TFE Liner (pkg. of 100)</td>
<td></td>
</tr>
</tbody>
</table>

**Generic Accessories and Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4796</td>
<td>Surge Supressor (Power Strip)</td>
<td></td>
</tr>
<tr>
<td>4799</td>
<td>UPS (2.2kVA / 1600 watt)</td>
<td></td>
</tr>
<tr>
<td>4241</td>
<td>Needle for 100 µL Buret Syringe</td>
<td></td>
</tr>
<tr>
<td>4240</td>
<td>Filling Syringe Needle (12-16 Gauge)</td>
<td></td>
</tr>
<tr>
<td>4239</td>
<td>Needle for 250 µL Buret Syringe</td>
<td></td>
</tr>
</tbody>
</table>
## DHR & AR Series Software

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>926404.901</td>
<td>Advantage Software (Thermal and Rheology)</td>
</tr>
<tr>
<td>925714.001</td>
<td>Software Advantage Navigator</td>
</tr>
<tr>
<td>925715.001</td>
<td>Enhanced Polymer Library for Advantage</td>
</tr>
<tr>
<td>595196.901</td>
<td>Software QCR/CSA II Script</td>
</tr>
<tr>
<td>595100.901</td>
<td>Software Rheology Solutions Archive</td>
</tr>
<tr>
<td>926018.001</td>
<td>LAOS and FT RHEOLOGY for TRIOS: Large Amplitude Oscillatory Shear and Fourier Transform Rheology Software for TRIOS</td>
</tr>
<tr>
<td>926019.001</td>
<td>Rheology Polymer Library for TRIOS: includes software for Molecular Weight Distribution Calculations</td>
</tr>
</tbody>
</table>

## Installation and Peltier Kits

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>250000.001</td>
<td>DHR &amp; AR Rheometer Filter / Regulator</td>
</tr>
<tr>
<td>403209.901</td>
<td>Air Cooled Peltier Circulator (110 / 220V, 50 / 60 Hz): for use with DHR &amp; AR and ARES Rheometers</td>
</tr>
<tr>
<td>403258.901</td>
<td>Peltier Circulator Thermocube Model 10-300 (115 / 230V, 50 / 60Hz)</td>
</tr>
</tbody>
</table>

## DHR & AR Rheometer Peltier Plates, Geometries, and Accessories

### Peltier Plate Temperature Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>533210.901</td>
<td>DHR &amp; AR-Series Smart Swap Peltier Plate</td>
</tr>
<tr>
<td>546502.901</td>
<td>DHR &amp; AR-Series Dual-Stage Smart Swap Peltier Plate</td>
</tr>
<tr>
<td>533211.901</td>
<td>DHR &amp; AR-Series Stepped Peltier with Screw-in Plate</td>
</tr>
</tbody>
</table>

## Stainless Steel Peltier Cone Geometries with No Solvent Trap (NST)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>511204.902</td>
<td>Stainless Steel, 20 mm, 1 deg Cone, NST</td>
</tr>
<tr>
<td>511206.902</td>
<td>Stainless Steel, 20 mm, 2 deg Cone, NST</td>
</tr>
<tr>
<td>511207.902</td>
<td>Stainless Steel, 20 mm, 4 deg Cone, NST</td>
</tr>
</tbody>
</table>
### Stainless Steel Peltier Plate Geometries with No Solvent Trap (NST)

- **511080.902** Stainless Steel, 8 mm Plate, NST
- **511200.902** Stainless Steel, 20 mm Plate, NST
- **511250.902** Stainless Steel, 25 mm Plate, NST
- **517080.902** Stainless Steel, Cross Hatched, 8 mm Plate, NST
- **517200.902** Stainless Steel, Cross Hatched, 20 mm Plate, NST

### Stainless Steel Peltier Cone Geometries with No Solvent Trap

- **511203.901** Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.901** Stainless Steel, 20 mm, 1 deg Cone
- **511206.901** Stainless Steel, 20 mm, 2 deg Cone
- **511207.901** Stainless Steel, 20 mm, 4 deg Cone

### Stainless Steel Peltier Plate Geometries with Solvent Trap

- **511200.901** Stainless Steel, 20 mm Plate
- **511400.901** Stainless Steel, 40 mm Plate
- **511600.901** Stainless Steel, 60 mm Plate
- **517200.901** Stainless Steel, Cross Hatched, 20 mm Plate

### Stainless Steel Peltier Cone Geometries with Solvent Trap

- **511203.901** Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.901** Stainless Steel, 20 mm, 1 deg Cone
- **511206.901** Stainless Steel, 20 mm, 2 deg Cone
- **511207.901** Stainless Steel, 20 mm, 4 deg Cone

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

### Stainless Steel Peltier Plate Geometries with No Solvent Trap (NST)

- **511080.906** DHR & AR-G2, Stainless Steel, 8 mm Plate, NST
- **511200.906** DHR & AR-G2, Stainless Steel, 20 mm Plate, NST
- **511250.906** DHR & AR-G2, Stainless Steel, 25 mm Plate, NST
- **517080.906** DHR & AR-G2, Stainless Steel, Cross Hatched, 8 mm Plate, NST
- **517200.906** DHR & AR-G2, Stainless Steel, Cross Hatched, 20 mm Plate, NST

### Stainless Steel Peltier Cone Geometries with No Solvent Trap

- **511203.905** DHR & AR-G2, Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.905** DHR & AR-G2, Stainless Steel, 20 mm, 1 deg Cone
- **511206.905** DHR & AR-G2, Stainless Steel, 20 mm, 2 deg Cone
- **511207.905** DHR & AR-G2, Stainless Steel, 20 mm, 4 deg Cone

### Stainless Steel Peltier Plate Geometries with Solvent Trap

- **511200.905** DHR & AR-G2, Stainless Steel, 20 mm Plate
- **511400.905** DHR & AR-G2, Stainless Steel, 40 mm Plate
- **511600.905** DHR & AR-G2, Stainless Steel, 60 mm Plate
- **517200.905** DHR & AR-G2, Stainless Steel, Cross Hatched, 20 mm Plate

### Stainless Steel Peltier Cone Geometries with Solvent Trap

- **511203.905** DHR & AR-G2, Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.905** DHR & AR-G2, Stainless Steel, 20 mm, 1 deg Cone
- **511206.905** DHR & AR-G2, Stainless Steel, 20 mm, 2 deg Cone
- **511207.905** DHR & AR-G2, Stainless Steel, 20 mm, 4 deg Cone

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

### Stainless Steel Peltier Plate Geometries with No Solvent Trap (NST)

- **511080.906** Stainless Steel, 8 mm Plate, NST
- **511200.906** Stainless Steel, 20 mm Plate, NST
- **511250.906** Stainless Steel, 25 mm Plate, NST
- **517080.906** Stainless Steel, Cross Hatched, 8 mm Plate, NST
- **517200.906** Stainless Steel, Cross Hatched, 20 mm Plate, NST

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

### Stainless Steel Peltier Cone Geometries with No Solvent Trap

- **511203.906** Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.906** Stainless Steel, 20 mm, 1 deg Cone
- **511206.906** Stainless Steel, 20 mm, 2 deg Cone
- **511207.906** Stainless Steel, 20 mm, 4 deg Cone

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

### Stainless Steel Peltier Plate Geometries with Solvent Trap

- **511200.906** DHR & AR-G2, Stainless Steel, 20 mm Plate
- **511400.906** DHR & AR-G2, Stainless Steel, 40 mm Plate
- **511600.906** DHR & AR-G2, Stainless Steel, 60 mm Plate
- **517200.906** DHR & AR-G2, Stainless Steel, Cross Hatched, 20 mm Plate

### Stainless Steel Peltier Cone Geometries with Solvent Trap

- **511203.906** DHR & AR-G2, Stainless Steel, 20 mm, 0.5 deg Cone
- **511204.906** DHR & AR-G2, Stainless Steel, 20 mm, 1 deg Cone
- **511206.906** DHR & AR-G2, Stainless Steel, 20 mm, 2 deg Cone
- **511207.906** DHR & AR-G2, Stainless Steel, 20 mm, 4 deg Cone

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>517400.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Cross Hatched, 40 mm Plate</td>
</tr>
<tr>
<td>517600.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Cross Hatched, 60 mm Plate</td>
</tr>
<tr>
<td>519400.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Sandblasted, 40 mm Plate</td>
</tr>
<tr>
<td>519600.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Sandblasted, 60 mm Plate</td>
</tr>
</tbody>
</table>

**Stainless Steel Peltier Cone Geometries with Composite Heat Break**

Note: Upper Cones for Use with Lower Peltier Plate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>512206.902</td>
<td>Stainless Steel, Composite HB, 20 mm, 2 deg Cone, NST</td>
</tr>
<tr>
<td>512207.902</td>
<td>Stainless Steel, Composite HB, 20 mm, 4 deg Cone, NST</td>
</tr>
<tr>
<td>512406.901</td>
<td>Stainless Steel, Composite HB, 40 mm, 2 deg Cone</td>
</tr>
<tr>
<td>512407.901</td>
<td>Stainless Steel, Composite HB, 40 mm, 4 deg Cone</td>
</tr>
<tr>
<td>512606.901</td>
<td>Stainless Steel, Composite HB, 60 mm, 2 deg Cone</td>
</tr>
<tr>
<td>512607.901</td>
<td>Stainless Steel, Composite HB, 60 mm, 4 deg Cone</td>
</tr>
</tbody>
</table>

**Titanium Peltier Plate Geometries with Solvent Trap**

Note: Upper Plates / Cones for Use with Lower Peltier Plate.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>520400.901</td>
<td>Titanium, 40 mm Plate</td>
</tr>
<tr>
<td>520600.901</td>
<td>Titanium, 60 mm Plate</td>
</tr>
<tr>
<td>520404.901</td>
<td>Titanium, 40 mm, 1 deg Cone</td>
</tr>
<tr>
<td>520406.901</td>
<td>Titanium, 40 mm, 2 deg Cone</td>
</tr>
<tr>
<td>520407.901</td>
<td>Titanium, 40 mm, 4 deg Cone</td>
</tr>
<tr>
<td>520604.901</td>
<td>Titanium, 60 mm, 1 deg Cone</td>
</tr>
<tr>
<td>520606.901</td>
<td>Titanium, 60 mm, 2 deg Cone</td>
</tr>
<tr>
<td>520607.901</td>
<td>Titanium, 60 mm, 4 deg Cone</td>
</tr>
</tbody>
</table>

**Stainless Steel Peltier Plate Geometries with Composite Heat Break**

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>512206.906</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 20 mm, 2 deg Cone, NST</td>
</tr>
<tr>
<td>512207.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 20 mm, 4 deg Cone</td>
</tr>
<tr>
<td>512406.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 40 mm, 2 deg Cone</td>
</tr>
<tr>
<td>512407.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 40 mm, 4 deg Cone</td>
</tr>
<tr>
<td>512606.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 60 mm, 2 deg Cone</td>
</tr>
<tr>
<td>512607.905</td>
<td>DHR &amp; AR-G2, Stainless Steel, Composite HB, 60 mm, 4 deg Cone</td>
</tr>
</tbody>
</table>

**Titanium Peltier Plate Geometries with Solvent Trap**

Note: Following Smart Swap geometries for use with DHR & AR-G2 only. Titanium geometries have stainless steel shaft.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>520400.905</td>
<td>DHR &amp; AR-G2, Titanium, 40 mm Plate</td>
</tr>
<tr>
<td>520600.905</td>
<td>DHR &amp; AR-G2, Titanium, 60 mm Plate</td>
</tr>
<tr>
<td>520604.905</td>
<td>DHR &amp; AR-G2, Titanium, 60 mm, 1 deg Cone</td>
</tr>
<tr>
<td>520606.905</td>
<td>DHR &amp; AR-G2, Titanium, 60 mm, 2 deg Cone</td>
</tr>
<tr>
<td>520607.905</td>
<td>DHR &amp; AR-G2, Titanium, 60 mm, 4 deg Cone</td>
</tr>
</tbody>
</table>

**Acrylic Peltier Cone Geometries with NO Solvent Trap (NST)**

Note: Upper Cones for Use with Lower Peltier Plate. Maximum Use Temperature = 40°C.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>516204.902</td>
<td>Acrylic, 20 mm, 1 deg Cone, NST</td>
</tr>
<tr>
<td>516206.902</td>
<td>Acrylic, 20 mm, 2 deg Cone, NST</td>
</tr>
<tr>
<td>516207.902</td>
<td>Acrylic, 20 mm, 4 deg Cone, NST</td>
</tr>
</tbody>
</table>

**Acrylic Peltier Plate Geometries with NO Solvent Trap (NST)**

Note: Upper Plates for Use with Lower Peltier Plate. Maximum Use Temperature = 40°C.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>516200.902</td>
<td>Acrylic, 20 mm Plate, NST</td>
</tr>
</tbody>
</table>
Acrylic Peltier Cone Geometries with Solvent Trap
Note: Upper Cones for Use with Lower Peltier Plate. Maximum Use Temperature = 40°C.

516204.901 Acrylic, 20 mm, 1 deg Cone
516206.901 Acrylic, 20 mm, 2 deg Cone
516207.901 Acrylic, 20 mm, 4 deg Cone
516404.901 Acrylic, 40 mm, 1 deg Cone
516406.901 Acrylic, 40 mm, 2 deg Cone
516407.901 Acrylic, 40 mm, 4 deg Cone
516604.901 Acrylic, 60 mm, 1 deg Cone
516606.901 Acrylic, 60 mm, 2 deg Cone
516607.901 Acrylic, 60 mm, 4 deg Cone

Acrylic Peltier Plate Geometries with Solvent Trap
Note: Upper Plates for Use with Lower Peltier Plate. Maximum Use Temperature = 40°C.

516200.901 Acrylic, 20 mm Plate
516400.901 Acrylic, 40 mm Plate
516600.901 Acrylic, 60 mm Plate
518200.901 Acrylic, Cross Hatched, 20 mm Plate
518400.901 Acrylic, Cross Hatched, 40 mm Plate

Hard Anodized Aluminum (HA AL) Peltier Cone Geometries with Solvent Trap
Note: Upper Cones for Use with Lower Peltier Plate.

513204.901 HA Aluminum, 20 mm, 1 deg Cone, NST
513206.901 HA Aluminum, 20 mm, 2 deg Cone, NST
513207.901 HA Aluminum, 20 mm, 4 deg Cone, NST
513404.901 HA Aluminum, 40 mm, 1 deg Cone
513406.901 HA Aluminum, 40 mm, 2 deg Cone
513407.901 HA Aluminum, 40 mm, 4 deg Cone
513604.901 HA Aluminum, 60 mm, 1 deg Cone
513606.901 HA Aluminum, 60 mm, 2 deg Cone
513607.901 HA Aluminum, 60 mm, 4 deg Cone

Hard Anodized Aluminum (HA AL) Peltier Plate Geometries with Solvent Trap
Note: Upper Plate for Use with Lower Peltier Plate.

513200.901 HA Aluminum, 20 mm Plate
513400.901 HA Aluminum, 40 mm Plate
513600.901 HA Aluminum, 60 mm Plate

Hard Anodized Aluminum (HA AL) Peltier Cone Geometries with Solvent Trap
Note: Upper Cones for Use with Lower Peltier Plate.

513204.902 HA Aluminum, 20 mm, 1 deg Cone, NST
513204.901 HA Aluminum, 20 mm, 1 deg Cone
513206.902 HA Aluminum, 20 mm, 2 deg Cone, NST
513206.901 HA Aluminum, 20 mm, 2 deg Cone
513207.902 HA Aluminum, 20 mm, 4 deg Cone, NST
513207.901 HA Aluminum, 20 mm, 4 deg Cone
513404.901 HA Aluminum, 40 mm, 1 deg Cone
513406.901 HA Aluminum, 40 mm, 2 deg Cone
513407.901 HA Aluminum, 40 mm, 4 deg Cone
513604.901 HA Aluminum, 60 mm, 1 deg Cone
513606.901 HA Aluminum, 60 mm, 2 deg Cone
513607.901 HA Aluminum, 60 mm, 4 deg Cone

Hard Anodized Aluminum (HA AL) Peltier Plate Geometries with Solvent Trap
Note: Upper Plate for Use with Lower Peltier Plate.

513200.901 HA Aluminum, 20 mm Plate
513400.901 HA Aluminum, 40 mm Plate
513600.901 HA Aluminum, 60 mm Plate

Note: Following Smart Swap geometries for use with DHR & AR-G2 only.

513204.905 DHR & AR-G2, HA Aluminum, 20 mm, 1 deg Cone
513206.905 DHR & AR-G2, HA Aluminum, 20 mm, 2 deg Cone
513207.905 DHR & AR-G2, HA Aluminum, 20 mm, 4 deg Cone
513404.905 DHR & AR-G2, HA Aluminum, 40 mm, 1 deg Cone
513406.905 DHR & AR-G2, HA Aluminum, 40 mm, 2 deg Cone
513407.905 DHR & AR-G2, HA Aluminum, 40 mm, 4 deg Cone
513603.905 DHR & AR-G2, HA Aluminum, 60 mm, 0.5 deg Cone
513604.905 DHR & AR-G2, HA Aluminum, 60 mm, 1 deg Cone
513606.905 DHR & AR-G2, HA Aluminum, 60 mm, 2 deg Cone
513607.905 DHR & AR-G2, HA Aluminum, 60 mm, 4 deg Cone

Solvent Trap, Purge Gas, Thermal, and Lower Plate Covers for Peltier Plate

529613.901 Hard Anodized Split Solvent Trap Cover and Location Ring
529612.901 Peltier Plate Purge Gas Cover and Location Ring
517105.901 Insulated Solvent Trap Cover and Location Ring (for standard Peltier Plate - not for use with Stepped Peltier)
529750.901 25 mm Plate Insulating Thermal Cover for Peltier Plate
545941.901 AR-G2 Peltier Plate Draft Shield
533240.901 DHR Peltier Plate Draft Shield
570059.901 Hard Anodized Aluminum Cover Plate (with Ring Adapter), Cross Hatched, 40 mm
570011.901 Hard Anodized Aluminum Cover Plate (with Ring Adapter), Cross Hatched, 60 mm
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>517040.901</td>
<td>Stainless Steel Cover Plate, Cross Hatched, 40 mm</td>
</tr>
<tr>
<td>517060.901</td>
<td>Stainless Steel Cover Plate, Cross Hatched, 60 mm</td>
</tr>
<tr>
<td>545430.901</td>
<td>Stainless Steel Peltier Plate Cover</td>
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<tr>
<td>545431.901</td>
<td>Stainless Steel Peltier Plate Cover, Raised Center, 20 mm</td>
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<tr>
<td>545433.901</td>
<td>Stainless Steel Peltier Plate Cover, Raised Center, 60 mm</td>
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<tr>
<td>545435.901</td>
<td>Titanium Peltier Plate Cover, Raised Center, 40 mm</td>
</tr>
<tr>
<td>533201.901</td>
<td>DHR &amp; AR-Series Smart Swap Concentric Cylinder Peltier Jacket</td>
</tr>
<tr>
<td>546011.901</td>
<td>DHR &amp; AR-G2, HA Aluminum Conical DIN Rotor, Rad = 14 mm, Height = 42 mm</td>
</tr>
<tr>
<td>546016.901</td>
<td>DHR &amp; AR-G2, HA Aluminum Recessed End Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>546012.901</td>
<td>DHR &amp; AR-G2, Stainless Steel Conical DIN Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>546017.901</td>
<td>DHR &amp; AR-G2, Stainless Steel Recessed End Rotor, Rad = 14 mm, Height = 42 mm</td>
</tr>
<tr>
<td>546026.901</td>
<td>DHR &amp; AR-G2, Stainless Steel Vaned Rotor, Rad = 14 mm, Height = 42 mm</td>
</tr>
<tr>
<td>546027.901</td>
<td>DHR &amp; AR-G2, Wide Gap Vaned Rotor with Heat Break, Rad = 7.5 mm, Height = 38 mm</td>
</tr>
<tr>
<td>546048.901</td>
<td>DHR &amp; AR-G2, Stainless Steel Double Gap Rotor, Inner Rad = 16 mm, Outer Rad = 17.5 mm, Height = 53 mm</td>
</tr>
<tr>
<td>546049.901</td>
<td>DHR &amp; AR-G2, HA Aluminum Double Gap Rotor, Inner Rad = 16 mm, Outer Rad = 17.5 mm, Height = 53 mm</td>
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<tr>
<td>546021.901</td>
<td>AR-G2, Ver 1 HA Aluminum Double Gap Rotor, Inner Rad = 20.38 mm, Outer Rad = 21.96 mm, Height = 59.5 mm</td>
</tr>
<tr>
<td>546022.901</td>
<td>AR-G2, Ver 1 Stainless Steel Double Gap Rotor, Inner Rad = 20.38 mm, Outer Rad = 21.96 mm, Height = 59.5 mm</td>
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<td>545012.001</td>
<td>HA Aluminum Conical DIN Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>545023.001</td>
<td>HA Aluminum Recessed End Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>545026.001</td>
<td>Stainless Steel, Conical DIN Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>545027.001</td>
<td>Stainless Steel, Recessed End Rotor, Rad = 14 mm, Height = 42 mm</td>
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<td>545025.001</td>
<td>Stainless Steel, Vaned Rotor, Rad = 14 mm, Height = 42 mm</td>
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<tr>
<td>545028.001</td>
<td>Wide Gap Vaned Rotor with Heat Break, Rad = 7.5 mm, Height = 38 mm</td>
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<tr>
<td>545662.001</td>
<td>HA Aluminum Double Gap Rotor, Inner Rad = 16 mm, Outer Rad = 17.5 mm, Height = 53 mm</td>
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<tr>
<td>545031.001</td>
<td>Ver 1 HA Aluminum Double Gap Rotor, Inner Rad = 20.38 mm, Outer Rad = 21.96 mm, Height = 59.5 mm</td>
</tr>
<tr>
<td>545035.001</td>
<td>Ver 1 Stainless Steel, Double Gap Rotor, Inner Rad = 20.38 mm, Outer Rad = 21.96 mm, Height = 59.5 mm</td>
</tr>
<tr>
<td>545660.001</td>
<td>Stainless Steel, Double Gap Rotor, Inner Rad = 16 mm, Outer Rad = 17.5 mm, Height = 53 mm</td>
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<tr>
<td>545700.901</td>
<td>HA Aluminum Standard Concentric Cylinder Cup with Cap for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
<tr>
<td>545696.901</td>
<td>Stainless Steel, Standard Concentric Cylinder Cup with Cap for DHR &amp; A-Series Peltier Jacket</td>
</tr>
<tr>
<td>546050.901</td>
<td>HA Aluminum Double Gap Concentric Cylinder Cup (Diameter = 30.4 mm) for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
<tr>
<td>545612.901</td>
<td>Ver 1 HA Aluminum Double Gap Concentric Cylinder Cup (Inner Rad = 20.38 mm, Outer Rad = 21.96 mm) for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
<tr>
<td>545613.901</td>
<td>Ver 1 Stainless Steel Double Gap Concentric Cylinder Cup (Inner Rad = 20.38 mm, Outer Rad = 21.96 mm) for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
<tr>
<td>546045.901</td>
<td>Stainless Steel Double Gap Concentric Cylinder Cup (Diameter = 30.4 mm, Outer Rad = 18.5 mm) for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
<tr>
<td>545626.001</td>
<td>Split Cover for DHR &amp; AR-Series Smart Swap Peltier Concentric Cylinders</td>
</tr>
<tr>
<td>545615.901</td>
<td>HA Aluminum Large Diameter Concentric Cylinder Cup (Rad = 22 mm) for DHR &amp; AR-Series Peltier Jacket</td>
</tr>
</tbody>
</table>

**DHR & AR Rheometer Concentric Cylinders, Geometries, and Accessories**

Note: HA AL = Hard Anodized Aluminum; SST = Stainless Steel.

**Peltier Concentric Cylinder Jacket for DHR & AR-G2 and AR 2000 (Smart Swap)**

**DHR & AR-G2 Smart Swap Rotors for Concentric Cylinders (Smart Swap)**
Stainless Steel Blank Plug for DHR & AR-Series Peltier Jacket
Double Gap Cup

HA Aluminum Grooved Concentric Cylinder Cup for
DHR & AR-Series Peltier Jacket

HA Aluminum Starch Rotor Concentric Cylinder Cup (Rad = 18.5 mm) for DHR & AR-Series Peltier Jacket

Peltier Concentric Cylinder Solvent Trap
Note: Not for use with Double Wall Concentric Cylinder system.

**Circulators (Computer Controlled)**

Computer Controlled Circulator, Model FP35HE US
For use with CSA II and AR 1000 / AR550 Concentric Cylinders.

Computer Controlled Circulator, Model FP35HE UK
For use with CSA II and AR 1000 / AR550 Concentric Cylinders.

**UHP Upper Heated Plates, EHP Electrically Heated Plates, Geometries, and Accessories**

**UHP and Dry Asphalt Systems (Smart Swap)**

DHR & AR-G2 Upper Heated Plate System
(for use with Peltier Plate)

Dry Asphalt System for DHR and AR-G2

DHR & AR-G2 Upper Heated Plate Smart Swap Geometry Shaft and Heat Spreader

AR 2000 / AR 1500 Upper Heated Plate System
(for use with Peltier Plate)
Note: AR 2000 Instruments with serial numbers prior to 4F… will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost (price includes installation by TA Service Engineer). Option requires Advantage Software (P/N: 926404.901). AR 2000 Rheometers with serial numbers 6D3066 and below, require calibration cable P/N: 552025.001, sold separately.

AR 2000 / AR 1500 Dry Asphalt system
Note: AR 2000 Instruments with serial numbers prior to 4F… will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost (price includes installation by TA Service Engineer). Option requires Advantage Software (P/N: 926404.901). AR 2000 Rheometers with serial numbers 6D3066 and below, require calibration cable P/N: 552025.001, sold separately.

DHR & AR-Series UHP and
Dry Asphalt Low Temperature Cooling Option
Note: This cooling option is required when cooling with fluid circulator below temperatures of 5°C. Customer must supply fluid circulator.

**EHP Electrically Heated Plate Kits**

DHR & AR-G2 Electrically Heated Plate System
Note: Max Temperature = 400°C. Includes 25 mm stainless steel plates.

DHR & AR-G2 Electrically Heated Disposable Plate System
Note: Max Temperature = 400°C. Includes five sets of 25 mm drip channel disposable plates.

DHR & AR-G2 Add-On Disposable Plate Accessory for EHP
Note: Includes parts necessary to convert Electrically Heated Plate System, P/N: 533206.901, for disposable plate use. Includes five sets of 25 mm drip channel disposable plates.

DHR & AR-G2 Addt-On Disposable Plate Accessory for EHP System
Note: Includes parts necessary to convert Electrically Heated Plate System, P/N: 533206.901, for disposable plate use. Includes five sets of 25 mm drip channel disposable plates.

AR 2000/ex and AR 1500ex Electrically Heated Disposbale Plate System
Note: Max Temperature = 400°C. Includes 25 mm stainless steel plates. AR 2000 Instruments with serial numbers prior to 4F… will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost (price includes installation by TA Service Engineer). Option requires Advantage Software (P/N: 926404.901).
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>546107.901</td>
<td>AR 2000ex and AR 1500ex Add-On Disposable Plate Accessory for EHP</td>
<td>Note: Includes parts necessary to convert Electrically Heated Plate System, P/N: 546104.901, for disposable plate use. Includes five sets of drip channel disposable plates.</td>
</tr>
<tr>
<td>546109.901</td>
<td>EHP Glass Purge Cover (maximum use temperature = 300°C)</td>
<td></td>
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<tr>
<td>546127.901</td>
<td>DHR and AR EHP GCA Kit (cooling down to -70°C)</td>
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<tr>
<td>991400.902</td>
<td>Gas Cooling Accessory for DHR, DMA Q800 and AR-Series EHP</td>
<td></td>
</tr>
<tr>
<td>546153.901</td>
<td>DHR &amp; AR EHP-GCA Transformer (220 / 240V to 110 / 120V) (ROW)</td>
<td></td>
</tr>
<tr>
<td>546152.901</td>
<td>DHR &amp; AR EHP-GCA Transformer (220 / 240V to 110 / 120V) (UK ONLY)</td>
<td></td>
</tr>
</tbody>
</table>

**DHR & AR-G2 EHP and UHP Stainless Steel Smart Swap Upper (Upper Temperature Sensor) UTS Geometries**

Note: UTS upper Smart Swap Geometries are for use with UTS Draw Rod and lower screw in plates. UTS and UTS geometries are required for patented Active Temperature Control of upper plate. This feature is available only with TA Instruments DHR & AR-G2 EHP and UHP Temperature Systems.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>546202.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 8 mm Upper UTS Plate</td>
<td>(use with P/N: 546240.001)</td>
</tr>
<tr>
<td>546220.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 20 mm Upper UTS Plate</td>
<td>(use with P/N: 546261.001)</td>
</tr>
<tr>
<td>546203.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm Upper UTS Plate</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546204.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm Upper UTS Plate</td>
<td>(use with P/N: 546242.001)</td>
</tr>
<tr>
<td>546210.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 0.1 Rad Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546208.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 0.04 Rad Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546206.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 0.02 Rad Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546205.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 1 deg Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546207.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 2 deg Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546209.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm 4 deg Upper UTS Cone</td>
<td>(use with P/N: 546241.001)</td>
</tr>
<tr>
<td>546216.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm 0.1 Rad Upper UTS Cone</td>
<td>(use with P/N: 546242.001)</td>
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</tbody>
</table>

**Electrically Heated Plate, Upper Heated Plate, and Dry Asphalt System Screw-in Plates**

Note: Screw-in Parallel Plates for use with the following Systems: 1) DHR & AR-G2 EHP: Lower Plate only, 2) AR 2000 / 1500ex EHP upper and lower, 3) DHR & AR-G2, AR 2000 and AR 1500ex UHP with Standard Peltier Plate: Upper plate Only, and 4) DHR & AR-G2, AR 2000/ex and AR 1500ex Dry Asphalt System: For upper and lower use (two of these parts are required to replace both upper and lower). 4 mm, 8 mm, and 25 mm plates also compatible with Stepped Peltier. These plates are constructed with flats and are used with the flat plate removal wrench.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>546241.001</td>
<td>Stainless Steel, 25 mm Screw-in Parallel Plate for EHP UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546261.001</td>
<td>Stainless Steel, 20 mm Screw-in Parallel Plate for EHP UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546242.001</td>
<td>Stainless Steel, 40 mm Screw-in Parallel Plate for EHP UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546239.001</td>
<td>Stainless Steel, 4 mm Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546240.001</td>
<td>Stainless Steel, 8 mm Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546259.001</td>
<td>Stainless Steel, 8 mm Cross Hatched Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
<td></td>
</tr>
<tr>
<td>546255.001</td>
<td>Stainless Steel, 25 mm Cross Hatched Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
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<tr>
<td>546256.001</td>
<td>Stainless Steel, 40 mm Cross Hatched Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
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<tr>
<td>546265.001</td>
<td>Stainless Steel, 8 mm Sandblasted Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
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<tr>
<td>Part Number</td>
<td>Description</td>
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<tr>
<td>546266.001</td>
<td>Stainless Steel, 25 mm Sandblasted Screw-in Parallel Plate for EHP, UHP, and Dry Asphalt</td>
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<tr>
<td>546267.001</td>
<td>Stainless Steel, 40 mm Sandblasted Screw-in Parallel Plate for EHP, UHP and Dry Asphalt</td>
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<tr>
<td>546248.001</td>
<td>Stainless Steel, 25 mm, 0.1 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546246.001</td>
<td>Stainless Steel, 25 mm, 0.04 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546244.001</td>
<td>Stainless Steel, 25 mm, 0.02 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546243.001</td>
<td>Stainless Steel, 25 mm, 1 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546245.001</td>
<td>Stainless Steel, 25 mm, 2 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546247.001</td>
<td>Stainless Steel, 25 mm, 4 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546254.001</td>
<td>Stainless Steel, 40 mm, 0.1 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<td>546252.001</td>
<td>Stainless Steel, 40 mm, 0.04 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546250.001</td>
<td>Stainless Steel, 40 mm, 0.02 rad, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546249.001</td>
<td>Stainless Steel, 40 mm, 1 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<td>546251.001</td>
<td>Stainless Steel, 40 mm, 2 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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<tr>
<td>546253.001</td>
<td>Stainless Steel, 40 mm, 4 deg, Screw-in Cone for AR 2000/ex, AR 1500ex EHP and UHP</td>
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</table>

**ETC Environmental Test Chamber, Kits, Geometries, and Gas Manifolds**

ETC system requires the chamber and one or more Accessory Kits. The flow meter kit, P/N: 543311.901, is required if cooling accessory is not specified.

**ETC Environmental Test Chambers**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>543501.901</td>
<td>AR-G2 and AR 2000ex ETC Oven Camera Viewer Option</td>
</tr>
<tr>
<td>533208.901</td>
<td>DHR ETC Oven Camera Viewer Option</td>
</tr>
</tbody>
</table>

**DHR & AR-G2 ETC Kits**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>543407.901</td>
<td>DHR &amp; AR-G2 ETC Torsion Clamp Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes clamps for rectangular solid samples. Maximum Sample Size: Length = 50 mm, Width = 13 mm, Thickness = 5 mm.</td>
</tr>
<tr>
<td>547905.901</td>
<td>DHR &amp; AR-G2 ETC Torsion Cylindrical Clamp Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes collets to accommodate rods 1.5, 3, and 4.5 mm in diameter. Maximum Sample Length = 40 mm.</td>
</tr>
<tr>
<td>543408.901</td>
<td>DHR &amp; AR-G2 ETC Disposable Parallel Plate Accessory Kit</td>
</tr>
<tr>
<td>543406.901</td>
<td>DHR &amp; AR-G2 ETC Parallel Plate Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes 25 mm stainless steel parallel plates. All other geometries purchased separately.</td>
</tr>
<tr>
<td>543409.901</td>
<td>DHR &amp; AR-G2 ETC Pressure Sensitive Adhesives Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes 8 and 25 mm stainless steel parallel plates. All other geometries purchased separately.</td>
</tr>
<tr>
<td>543410.901</td>
<td>DHR &amp; AR-G2 ETC Asphalt Parallel Plate Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>Note: Includes 8 and 25 mm stainless steel parallel plates and silicone asphalt molds.</td>
</tr>
</tbody>
</table>

**DHR & AR-G2 ETC Stainless Steel Smart Swap Upper Single Piece Geometries**

<table>
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<tr>
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<tr>
<td>543602.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 4 mm Upper ETC Plate (use with P/N: 527040.904)</td>
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<tr>
<td>543601.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 8 mm Upper ETC Plate (use with P/N: 527080.904)</td>
</tr>
<tr>
<td>543606.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm Upper ETC Plate (use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543611.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm Upper ETC Plate (use with P/N: 527400.903)</td>
</tr>
<tr>
<td>543641.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm Cross Hatched ETC Plate (use with P/N: 527250.906)</td>
</tr>
<tr>
<td>543651.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm, 0.1 rad, ETC Cone (use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543652.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm, 0.04 rad, ETC Cone (use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543661.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm, 2 deg, ETC Cone (use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543662.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 25 mm, 4 deg, ETC Cone (use with P/N: 527250.904)</td>
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<tr>
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<tr>
<td>543671.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm, 2 deg, ETC Cone</td>
</tr>
<tr>
<td>543672.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm, 4 deg, ETC Cone</td>
</tr>
<tr>
<td>543681.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, Upper ETC Smart Swap Torsion Geometry</td>
</tr>
</tbody>
</table>

**AR 2000 ETC Kits**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>543307.901</td>
<td>AR 2000 ETC Torsion Clamp Accessory Kit</td>
<td>Note: Includes clamps for rectangular solid samples. Maximum Sample Size: Length = 50 mm, Width = 13 mm, Thickness = 5 mm.</td>
</tr>
<tr>
<td>543708.901</td>
<td>AR 2000 ETC Disposable Parallel Plate Accessory Kit</td>
<td></td>
</tr>
<tr>
<td>543706.901</td>
<td>AR 2000 ETC Parallel Plate Accessory Kit</td>
<td>Note: Includes 25 mm stainless steel parallel plates. All other geometries purchased separately.</td>
</tr>
<tr>
<td>543709.901</td>
<td>AR 2000 ETC Pressure Sensitive Adhesives Accessory Kit</td>
<td>Note: Includes 8 and 25 mm stainless steel parallel plates. All other geometries purchased separately.</td>
</tr>
<tr>
<td>543710.901</td>
<td>AR 2000 ETC Asphalt Parallel Plate Accessory Kit</td>
<td>Note: Includes 8 and 25 mm stainless steel parallel plates and silicone asphalt molds.</td>
</tr>
</tbody>
</table>

**AR 2000 ETC Stainless Steel Upper Single Piece Geometries**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>543329.901</td>
<td>AR 2000, Stainless Steel, 4 mm Upper ETC Plate</td>
<td>(use with P/N: 527040.904)</td>
</tr>
<tr>
<td>543336.001</td>
<td>AR 2000, Stainless Steel, 8 mm Upper ETC Plate</td>
<td>(use with P/N: 527080.904)</td>
</tr>
<tr>
<td>543330.001</td>
<td>AR 2000, Stainless Steel, 25 mm Upper ETC Plate</td>
<td>(use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543331.001</td>
<td>AR 2000, Stainless Steel, 40 mm Upper ETC Plate</td>
<td>(use with P/N: 527400.903)</td>
</tr>
<tr>
<td>543337.001</td>
<td>AR 2000, Stainless Steel, 25 mm Cross Hatched ETC Plate</td>
<td>(use with P/N: 527250.906)</td>
</tr>
<tr>
<td>543338.001</td>
<td>AR 2000, Stainless Steel, 40 mm Cross Hatched ETC Plate</td>
<td>(use with P/N: 527400.905)</td>
</tr>
<tr>
<td>543351.001</td>
<td>AR 2000, Stainless Steel, 25 mm, 0.1 rad, ETC Cone</td>
<td>(use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543352.001</td>
<td>AR 2000, Stainless Steel, 25 mm, 0.04 rad, ETC Cone</td>
<td>(use with P/N: 527250.904)</td>
</tr>
<tr>
<td>543361.001</td>
<td>AR 2000, Stainless Steel, 25 mm, 2 deg, ETC Cone</td>
<td>(use with P/N: 527250.904)</td>
</tr>
</tbody>
</table>

**Stainless Steel Stepped (lower) and Non-Stepped (upper) Screw-in ETC Plates**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>527040.904</td>
<td>Stainless Steel, 4 mm Stepped Lower ETC Plate</td>
<td>(use with single piece upper shaft / geometries, or use two of this part number if using upper screwed shaft)</td>
</tr>
<tr>
<td>527080.904</td>
<td>Stainless Steel, 8 mm Stepped Lower ETC Plate</td>
<td>(use with single piece upper shaft / geometries, or use two of this part number if using upper screwed shaft)</td>
</tr>
<tr>
<td>527250.903</td>
<td>Stainless Steel, 25 mm Non-Stepped Upper ETC Plate</td>
<td>(use with lower screw-in plate P/N: 527250.904)</td>
</tr>
<tr>
<td>527250.904</td>
<td>Stainless Steel, 25 mm Stepped Lower ETC Plate</td>
<td>(use with single piece upper shaft / geometries, or use with upper screw-in plate P/N: 527250.903 and upper screwed shaft)</td>
</tr>
<tr>
<td>527400.903</td>
<td>Stainless Steel, 40 mm ETC Plate, use for upper and lower</td>
<td>(use one with single piece upper shaft P/N: 543331.001, or two required if used with upper screwed shaft)</td>
</tr>
<tr>
<td>527250.905</td>
<td>Stainless Steel, Cross Hatched, 25 mm Non-Stepped Upper ETC Plate</td>
<td>(use with lower screw-in plate P/N: 527250.906)</td>
</tr>
<tr>
<td>527250.906</td>
<td>Stainless Steel, Cross Hatched, 25 mm Stepped Lower ETC Plate</td>
<td>(use with single piece upper shaft / geometries, or use with upper screw-in plate P/N: 527250.905 if using upper screwed shaft)</td>
</tr>
<tr>
<td>527400.905</td>
<td>Stainless Steel, Cross Hatched 40 mm ETC Plate, use for upper and lower</td>
<td>(use with single piece upper shaft / geometries, or use two of this part number if using upper screwed shaft)</td>
</tr>
</tbody>
</table>

**Hard Anodized Aluminum Stepped (lower) and Non-Stepped (upper) ETC Plates**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>526080.904</td>
<td>HA Aluminum, 8 mm Stepped Lower ETC Plate</td>
<td>(2 required)</td>
</tr>
<tr>
<td>526250.903</td>
<td>HA Aluminum, 25 mm Non-Stepped Upper ETC Plate</td>
<td>(use with P/N: 526250.904)</td>
</tr>
</tbody>
</table>
526250.904 HA Aluminum, 25 mm Stepped Lower ETC Plate
(use with P/N: 526250.903)

526400.903 HA Aluminum, 40 mm ETC Plate, use for upper and lower
(2 required)

AR 1000 / 550 ETC Kits

543014.901 AR 1000 / 550 ETC Torsion Clamp Accessory Kit
543016.901 AR 1000 / 550 ETC Disposable Parallel Plate Accessory Kit
543015.901 AR 1000 / 550 ETC Parallel Plate Accessory Kit

Aluminum Disposable Plates for ETC / EHP / UHP and Disposable Stepped Peltier

Note: For use with upper ETC shaft (AR 2000 P/N: 543334.901, AR 1000 / 550 P/N: 543319.901) or ETM upper shaft.

543334.901 Upper Disposable Plate Shaft (for AR 2000/ex and AR 1500)
523250.927 Aluminum, 25 mm Disposable Plates (pkg. of 100)
523400.927 Aluminum, 40 mm Disposable Plates (pkg. of 100)
523080.937 Aluminum, 8 mm Disposable Plates (pkg. of 20)
523200.917 Aluminum, 20 mm Disposable Plates (pkg. of 10)
523250.937 Aluminum, 25 mm Disposable Plates (pkg. of 20)
523400.937 Aluminum, 40 mm Disposable Plates (pkg. of 20)
523250.928 Aluminum, 25 mm Disposable Plates (with Drip Channel)
(pkg. of 100)
523250.938 Aluminum, 25 mm Disposable Plates (with Drip Channel)
(pkg. of 20)

Note: Required for EHP and UHP upper and lower systems.

Stainless Steel Disposable Plates for ETC / EHP / UHP and Disposable Stepped Peltier

Note: For use with upper ETC shaft (AR 2000 P/N: 543334.901, AR 1000 / 550 P/N: 543319.901) or ETM upper shaft.

527080.937 Stainless Steel, 8 mm Disposable Plates (pkg. of 20)
527250.937 Stainless Steel, 25 mm Disposable Plates (pkg. of 20)
527250.938 Stainless Steel, 25 mm Disposable Plates (with Drip Channel)
(pkg. of 20)

Note: Required for EHP and UHP upper and lower systems.

527400.937 Stainless Steel, 40 mm Disposable Plates (pkg. of 20)

ETC / EHP Accessories

543097.911 ETC Melt Rings for 25 mm Lower Stepped ETC Plate (pkg. of 50)
578904.001 Brass Scraper (for cleaning plates)
578905.001 Brass Brush (for cleaning plates)

ETC Flow Meter and Low Temp Kits for DHR & AR-G2 / AR 2000 / AR 1000 / AR550

543311.901 DHR & AR-Series ETC Flow Meter Kit
543313.901 DHR & AR-Series Low Temperature Fittings with LN2 Dewar
543312.901 DHR & AR-Series Low Temperature Fittings without LN2 Dewar

AR-Series ETM / ETC Plates and Cones

Aluminum Stepped Upper Cone Geometry for ETM (compatible with ETC)

Note: For use with upper ETC shaft (AR 2000 P/N: 543334.901, AR 1000 / 550 P/N: 543319.901). For correct operation cones require a matched plate (e.g. P/N: 523406.903 4 cm 2 deg cone requires P/N: 523400.903 4 cm plate).

523206.904 Aluminum, 20 mm, 2 deg Cone for ETC and ETM
523207.904 Aluminum, 20 mm, 4 deg Cone for ETC and ETM
526253.903 Aluminum, 25 mm, 0.5 deg Cone for ETC and ETM
526254.903 Aluminum, 25 mm, 1 deg Cone for ETC and ETM
526256.903 Aluminum, 25 mm, 2 deg Cone for ETC and ETM
526257.903 Aluminum, 25 mm, 4 deg Cone for ETC and ETM
523406.903 Aluminum, 40 mm, 2 deg Cone for ETC and ETM
523407.903 Aluminum, 40 mm, 4 deg Cone for ETC and ETM
523408.901 Aluminum, 40 mm, 5.6 deg Cone for ETC and ETM

Aluminum Stepped Plates Cone Geometry for ETM (compatible with ETC)

Note: ETM stepped plates are compatible with ETC. However, they are NOT anodized and are only available in stepped version.

523200.904 Aluminum, 20 mm ETM Plate, Stepped (compatible with ETC)
523250.904 Aluminum, 25 mm ETM Plate, Stepped (compatible with ETC)
523400.903 Aluminum, 40 mm ETM Plate, Stepped (compatible with ETC)
### DHR & AR-Series Specialty Geometries and Accessories

#### DHR & AR-G2 Tribo-rheometry Accessory

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>533242.901</td>
<td>Tribo-rheometry Accessory Base Kit</td>
</tr>
<tr>
<td>533279.901</td>
<td>DHR &amp; AR-G2, Tribo-rheometry Coupling Adapter, Short</td>
</tr>
<tr>
<td>533279.902</td>
<td>DHR &amp; AR-G2, Tribo-rheometry Coupling Adapter, Long</td>
</tr>
<tr>
<td>533273.901</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Medium</td>
</tr>
<tr>
<td>533273.902</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Short</td>
</tr>
<tr>
<td>533273.903</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Long</td>
</tr>
<tr>
<td>533283.901</td>
<td>Tribo-rheometry, Ring on Plate Upper Geometry Holder</td>
</tr>
<tr>
<td>533290.901</td>
<td>Tribo-rheometry, 3 Balls on Plate Upper Geometry Holder</td>
</tr>
<tr>
<td>533249.901</td>
<td>Tribo-rheometry, 5/16” Truncated SST Balls (pkg. of 12)</td>
</tr>
<tr>
<td>533250.901</td>
<td>Tribo-rheometry, 1/2” SST Balls (pkg. of 25)</td>
</tr>
<tr>
<td>533284.901</td>
<td>Tribo-rheometry, Ring Upper Geometry (pkg. of 3)</td>
</tr>
<tr>
<td>533274.901</td>
<td>Tribo-rheometry, Ball on 3 Balls Lower Geometry</td>
</tr>
<tr>
<td>533281.901</td>
<td>Tribo-rheometry, SST Cup 45 mm Lower Geometry</td>
</tr>
<tr>
<td>533282.901</td>
<td>Tribo-rheometry, 3 Plates Lower Geometry</td>
</tr>
<tr>
<td>533291.901</td>
<td>Tribo-rheometry, Ball on 3 Plates SST Test Plates (pkg. of 30)</td>
</tr>
<tr>
<td>523400.907</td>
<td>Aluminum, 40 mm Disposable Plate</td>
</tr>
<tr>
<td>533300.901</td>
<td>DHR &amp; AR-G2, ETC, Tribo-rheometry Lower Geometry Holder</td>
</tr>
<tr>
<td>531336.901</td>
<td>DHR &amp; AR-G2 to AR2000ex Tribo-rheometry Geometry Adapter Sleeve</td>
</tr>
</tbody>
</table>

#### DHR Optics Plate Accessory

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>546800.901</td>
<td>Optics Plate Accessory</td>
</tr>
<tr>
<td>546800.902</td>
<td>Optics Plate Accessory with Camera</td>
</tr>
<tr>
<td>546801.901</td>
<td>Optics Plate Accessory Replacement Glass Plates and O-rings</td>
</tr>
<tr>
<td>546802.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm Parallel Plate, Mirror Finish</td>
</tr>
<tr>
<td>546803.901</td>
<td>DHR &amp; AR-G2, Stainless Steel, 40 mm Upper UTS Plate, Mirror Finish</td>
</tr>
</tbody>
</table>

#### DHR Dielectric Accessory (for use with the HR-3, HR-2, and HR-1 Discovery Hybrid Rheometers)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>546601.901</td>
<td>DHR Dielectric Accessory</td>
</tr>
<tr>
<td>546602.901</td>
<td>DHR 25 mm Upper Dielectric Geometry: for use with the DHR Dielectric Accessory (P/N: 546601.901)</td>
</tr>
<tr>
<td>546603.901</td>
<td>DHR 25 mm Lower Dielectric Geometry: for use with the DHR Dielectric Accessory (P/N: 546601.901)</td>
</tr>
<tr>
<td>546610.901</td>
<td>DHR Upper Dielectric Disposable Geometry: for use with the DHR Dielectric Accessory (P/N: 546601.901)</td>
</tr>
<tr>
<td>546615.901</td>
<td>DHR Lower Dielectric Disposable Geometry: for use with the DHR Dielectric Accessory (P/N: 546601.901)</td>
</tr>
</tbody>
</table>

#### DHR Electro-Rheology Accessory (for use with the HR-3, HR-2, and HR-1 Discovery Hybrid Rheometers)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>546701.901</td>
<td>DHR Electro-Rheology Accessory (110V)</td>
</tr>
<tr>
<td>546701.902</td>
<td>DHR Electro-Rheology Accessory (220V)</td>
</tr>
<tr>
<td>546705.901</td>
<td>DHR Electro-Rheology, Parallel Plate, 40 mm</td>
</tr>
<tr>
<td>546761.901</td>
<td>DHR Electro-Rheology, Parallel Plate, 25 mm</td>
</tr>
<tr>
<td>546762.901</td>
<td>DHR Electro-Rheology, 25 mm DIN Rotor</td>
</tr>
<tr>
<td>545630.902</td>
<td>DHR Electro-Rheology, Stainless Steel Concentric Cylinders Cup, 30 mm diameter</td>
</tr>
<tr>
<td>595006.901</td>
<td>DHR Electro-Rheology Dress Cover Grounding Retro-Fit Kit</td>
</tr>
</tbody>
</table>

#### DHR & AR-Series Torsion Immersion (Smart Swap)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>545618.901</td>
<td>DHR &amp; AR-Series Smart Swap Torsion Immersion Kit Note: Requires Peltier Fluid Jacket P/N: 533201.901.</td>
</tr>
</tbody>
</table>

#### DHR & AR-Series Generic Container Holder

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>547004.901</td>
<td>DHR &amp; AR-Series Generic Container Holder Note: Suitable for containers with OD in the range of 30 to 80 mm.</td>
</tr>
</tbody>
</table>

#### DHR & AR-Series Blank Smart Swap Base

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>531056.901</td>
<td>DHR &amp; AR-Series Blank Smart Swap Base</td>
</tr>
</tbody>
</table>

#### DHR & AR-G2 / AR 2000 Pressure Cell

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>533214.901</td>
<td>DHR &amp; AR-G2 / AR 2000 Pressure Cell Note: Requires Smart Swap Peltier Concentric Cylinder Jacket P/N: 533201.901. For AR-Series instruments requires P/N: 533230.901.</td>
</tr>
<tr>
<td>402815.901</td>
<td>Vane Rotor for DHR &amp; AR-G2 / AR 2000 Pressure Cell (P/N: 533214.901)</td>
</tr>
<tr>
<td>402828.901</td>
<td>Starch Rotor for DHR &amp; AR-G2 / AR 2000 Pressure Cell (P/N: 533214.901)</td>
</tr>
</tbody>
</table>
# DHR & AR-Series Smart Swap Starch Pasting Cell and Replacement Parts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>545702.901</td>
<td>DHR &amp; AR-G2, Starch Pasting Cell</td>
</tr>
<tr>
<td>545712.901</td>
<td>DHR &amp; AR-G2, Replacement Rotor for Starch Pasting Cell</td>
</tr>
<tr>
<td>545713.901</td>
<td>DHR &amp; AR-G2, HA Aluminum Conical Rotor For Starch Pasting Cell</td>
</tr>
<tr>
<td>545701.901</td>
<td>AR 2000/ex and AR 1500, Starch Pasting Cell</td>
</tr>
<tr>
<td>545723.001</td>
<td>Replacement Cup for Starch Pasting Cell</td>
</tr>
<tr>
<td>545751.001</td>
<td>AR 2000/ex and AR 1500, Replacement Rotor for Starch Pasting Cell</td>
</tr>
<tr>
<td>545761.001</td>
<td>AR 2000/ex and AR 1500, HA Aluminum Conical Rotor for Starch Pasting Cell</td>
</tr>
</tbody>
</table>

# DHR & AR UV-Curing Option (Smart Swap)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>546301.901</td>
<td>DHR-3, DHR-2 &amp; AR-Series, UV Light Guide Accessory without UV Light Source</td>
</tr>
<tr>
<td>533217.901</td>
<td>DHR-3, DHR-2 &amp; AR-Series, 365 mm LED UV-Curing Accessory</td>
</tr>
<tr>
<td>533218.901</td>
<td>DHR-3, DHR-2 &amp; AR-Series, 455 mm LED Blue Light Curing Accessory</td>
</tr>
<tr>
<td>546303.901</td>
<td>DHR-3, DHR-2 &amp; AR-Series, UV Light Guide Accessory with UV Light Source</td>
</tr>
<tr>
<td>546384.901</td>
<td>UV Curing Accessory Plate Rubber Ring Plate Guards</td>
</tr>
<tr>
<td>546319.901</td>
<td>AR 2000ex, Stainless Steel, Disposable Plate Shaft for UV Accessories</td>
</tr>
<tr>
<td>546320.901</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Stainless Steel, Smart Swap Disposable Plate Shaft for UV Accessories</td>
</tr>
<tr>
<td>403153.001</td>
<td>20 mm Quartz Plate for ARES and AR UV-Curing Option</td>
</tr>
<tr>
<td>403064.901</td>
<td>Package of 10 disposable 20 mm diameter acrylic plates</td>
</tr>
<tr>
<td>935014.901</td>
<td>PCA/UV External Filter Adapter Accessory Kit</td>
</tr>
<tr>
<td>935009.001</td>
<td>Filter, External, 320 - 480 nm</td>
</tr>
</tbody>
</table>

# DHR & AR-Series Smart Swap™ Interfacial Rheology Systems and Accessories (Teflon)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>545907.901</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Double Wall Ring Interfacial (DWR) Rheology System: includes DWR Pt/Ir Ring Geometry and Delrin Trough with fluid level monitor and fluid injection port.</td>
</tr>
<tr>
<td>545950.001</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Double Wall Ring, Platinum-Ir (replacement ring - does NOT include geometry holder)</td>
</tr>
<tr>
<td>545908.901</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Double Wall Ring Window Kit</td>
</tr>
<tr>
<td>545903.901</td>
<td>DHR &amp; AR-G2, Smart Swap Interfacial Bicone Accessory</td>
</tr>
<tr>
<td>545909.901</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Double Wall Du Nouy Ring (DDR) Interfacial Rheology System</td>
</tr>
<tr>
<td>530021.001</td>
<td>DHR-3, DHR-2 &amp; AR-G2, Pt-Ir Du Nouy Ring Geometry for Dynamic Interfacial System</td>
</tr>
<tr>
<td>545901.901</td>
<td>Interfacial Viscosity Bicone System for AR 2000/ex and AR 1500 Note: Includes 80 mm inner diameter Teflon cup, 68 mm diameter and 10° angle stainless steel bicone geometry, and cover.</td>
</tr>
<tr>
<td>545922.001</td>
<td>45 mm Diameter Teflon Interfacial Cup for AR-G2 and AR 2000</td>
</tr>
<tr>
<td>545931.001</td>
<td>34 mm 10 deg Stainless Steel Bicone Geometry</td>
</tr>
<tr>
<td>578155.001</td>
<td>Sample - Vessel 70 mm diameter (glass-cup)</td>
</tr>
</tbody>
</table>

# DHR & AR-Series Smart Swap Asphalt Submersion Cell

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>554103.901</td>
<td>DHR &amp; AR-Series Smart Swap Asphalt Submersion Cell</td>
</tr>
</tbody>
</table>

# Quartz Geometries

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>524400.902</td>
<td>Quartz, 40 mm Parallel Plate (for AR 2000, AR 1000, and AR 550 Only)</td>
</tr>
</tbody>
</table>
Ambient Disposable Plate System
Note: Clip-on system for AR 1000 and AR 550 Peltier Plate; temperature is NOT controlled by the Peltier Plate.

- 545290.901 Upper Ambient Disposable Plate Shaft
- 545291.901 Lower Ambient Disposable Plate Holder
- 545299.901 Set of Ambient 40 mm Diameter Disposable Plates
- 545300.901 Disposable Plate R/T 20 mm

Air Supply Accessories From US (AR-Series and CSL)

- 250000.001 Filter / Regulator
- 250000.002 0.01 micron replacement filter element for use with P/N: 250000.001
- 250000.003 5 micron replacement filter element for use with P/N: 250000.001
- 500030.901 Membrane Compressed Air Dryer

Air Supply Accessories From UK (AR-Series and CSL)

- 545420.901 Replacement Oil Filter Element, Red (for use with P/N: 545415.901)
- 500030.901 Membrane Compressed Air Dryer
- 575016.901 AR-Series Oil-Free Compressor (240V / 50 Hz)

DHR & AR-G2 and AR 2000ex SALS Accessory

- 533222.901 DHR-3, DHR-2 & AR-Series SALS Accessory
  Note: For AR-Series instruments requires P/N: 533230.901.
- 546418.901 Quartz 50 mm Plate
- 546417.901 DHR-3, DHR-2 & AR-G2 Quartz 50 mm Plate
- 546484.001 SALS Polystyrene Alignment Material
- 546483.001 SALS Neutral Density Filter Kit

DHR & AR-G2 and AR 2000ex SER2 Universal Testing Platform

- 547906.901 SER2 Universal Testing Platform for DHR-3, DHR-2 & AR-G2, and AR 2000ex (temperature range: 0 to 290°C)
- 200974.002 SER2 Standard Drum Pair for DHR-3, DHR-2, AR-G2, and AR 2000ex

200975.002 SER2 Knurled Surface Drum Pair Set for DHR-3, DHR-2, AR-G2, and AR 2000ex
200976.002 SER2 Rough Surface Drum Pair Set for DHR-3, DHR-2, AR-G2, and AR 2000ex
200977.002 SER2 Securing Clamps for DHR-3, DHR-2, AR-G2, and AR 2000ex (pkg. of 6)
200978.001 SER2 Dual Blade Cutter Assembly
200979.001 Razor Blades for SER2 Dual Blade Cutter Assembly (P/N: 200978.001) (pkg. of 50)

DHR & AR-G2 and AR Helical Tools

- 546018.901 DHR & AR-G2 Stainless Steel Helical Rotor
- 546019.901 AR Stainless Steel Helical Rotor
- 546093.001 Helical Cup, HA Aluminum, diameter = 34 mm, height = 50 mm

DHR Manifold Mounting Adapter

- 533235.901 DHR Manifold Mounting Adapter

DHR & AR-Series, CSA, and CSA II Asphalt Accessories

Cylindrical Torsion

- 543033.001 Asphalt Cylindrical Torsion End Pieces

Automated Temperature Calibration

- 554024.901 DHR & AR-Series Automated Asphalt Temperature Calibration Kit
  Note: Requires PC with USB port and Rheology Advantage Software Version 5.7.

CSA and CSA II Accessories, DHR & AR Asphalt Submersion Cell

- 554003.901 Asphalt Submersion Cell Replacement Filter Material, 1 Package
- 554004.901 Replacement Asphalt Submersion Cell Plate Removal Tool
- 585062.901 Asphalt Submersion Cell Maintenance Kit
- 554012.901 Asphalt Submersion Cell Water Valve (48 volt)
- 554007.901 Asphalt Sample Molds, 1 Pair
**Asphalt Submersion Cell Parallel Plates**

Note: Screw-in Parallel Plates for use with following Systems: 1) CSA / CSA II: Lower Plate only, 2) DHR & AR-Series Asphalt Submersion Cell. These plates are constructed with four holes with plate removal.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>554001.901</td>
<td>Stainless Steel, 8 mm Screw-in Parallel Plates for Asphalt Submersion Cell</td>
</tr>
<tr>
<td>554008.901</td>
<td>Stainless Steel, 12 mm Screw-in Parallel Plates for Asphalt Submersion Cell</td>
</tr>
<tr>
<td>554002.901</td>
<td>Stainless Steel, 25 mm Screw-in Parallel Plates for Asphalt Submersion Cell</td>
</tr>
<tr>
<td>554019.902</td>
<td>HA Aluminum, 8 mm Screw-in Parallel Plates for Asphalt Submersion Cell</td>
</tr>
<tr>
<td>554020.902</td>
<td>HA Aluminum, 25 mm Screw-in Parallel Plates for Asphalt Submersion Cell</td>
</tr>
</tbody>
</table>

**Peltier, UHP, Dry Asphalt System Replacement Parts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>952377.901</td>
<td>Fungicide for Peltier Reservoir</td>
</tr>
<tr>
<td>532067.901</td>
<td>DHR &amp; AR-Rheometer Vibration Isolation Pads</td>
</tr>
</tbody>
</table>

**Stainless Steel Sample Trimming Tools**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>545852.001</td>
<td>3 mm UHP Plate Trimming Tool (for use with Standard Peltier Plate)</td>
</tr>
<tr>
<td>545851.001</td>
<td>6 mm UHP Dry Asphalt System Trimming Tool (for use with Stepped Peltier)</td>
</tr>
</tbody>
</table>

**Standard Oils**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>250024.001</td>
<td>Low Viscosity Standard Oil (S60) ~ 100 mPa.s (cP) @ 25°C</td>
</tr>
<tr>
<td>250024.002</td>
<td>High Viscosity Standard Oil (S600) ~ 1100 mPa.s (cP) @ 25°C</td>
</tr>
<tr>
<td>201261.001</td>
<td>DSR Standard N2700000SP Standard Oil</td>
</tr>
</tbody>
</table>

**Rheology Text Books**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>575105.901</td>
<td>A Handbook of Elementary Rheology, Howard A. Barnes</td>
</tr>
<tr>
<td>575103.901</td>
<td>Introduction to Rheology, H.A. Barnes, J.F. Hutton and K. Walters</td>
</tr>
</tbody>
</table>
ARES-G2 Software

402010.901 Orchestator Polymer Library

926018.001 LAOS and FT RHEOLOGY for TRIOS: Large Amplitude Oscillatory Shear and Fourier Transform Rheology Software for TRIOS

926019.001 Rheology Polymer Library for TRIOS: includes software for Molecular Weight Distribution Calculations

251471.002 DSL Router with 4-Port Switch: for communication between an external controller and Thermal and Rheology instruments. Note: Must be included on all ARES-G2 and RSA-G2 quotations.

ARIES FCO Temperature Control Option

FCO Temperature Control System and Options

401892.901 ARES-G2 and RSA-G2 Forced Convection Oven FCO

401041.901 ARES-G2 and RSA-G2 FCO LN2 Controller

401798.901 ARES to ARES-G2 LN2 Upgrade Kit

401711.901 ARES-G2 and RSA-G2 FCO Camera

401070.901 Heat Shield for ARES-G2 Forced Convection Oven

402164.901 ARES-G2 and RSA-G2 Chiller Panel Note: Requires Customer Supplied Chiller.

FCO Geometry Bundles and Sample Preparation Kit

402319.901 ARES FCO Melt Rheology Geometry Bundle: includes: Torsion Rectangular Fixture (P/N: 403220.901) Stainless Steel, 25 mm parallel plates (Two of P/N: 401981.901) Stainless Steel 25 mm 0.1 rad Cone (P/N: 402317.901) Note: Compatible with ARES Classic Instruments.

401035.901 ARES FCO Advanced Melt Rheology Add-On Geometry Bundle: includes: Designed for use with Melt Rheology Geometry Bundle Stainless Steel 50 mm Parallel Plates (Two of P/N: 401968.901) Stainless Steel 25 mm Serrated Plates (Two of P/N: 401.00512.1) Stainless Steel 50 mm 0.04 rad Cone (P/N: 401963.901) Note: Compatible with ARES Classic Instruments.

402323.901 ARES FCO Thermoset Testing Geometry Bundle; includes: Torsion Rectangular Fixture (P/N: 403220.901) Disposable Plate Fixture (Two of P/N: 402303.901) One Pair 8 mm Aluminum Disposable Plates One Pair 25 mm Aluminum Disposable Plates Note: Compatible with ARES Classic Instruments. Additional disposable plates sold separately.

402331.901 ARES-G2 Melt Sample Preparation Kit; includes: 8 mm, 25 mm punch and die set (to 3 mm thick) Aluminum scraping tool for trimming sample Brass brush for cleaning plates Precision knife for sample trimming Polymer Pellet Melt Ring for 25 mm diameter Upper Cones and Plates Note: Compatible with ARES Classic Instruments.

FCO Torsion Rectangular and Torsion Cylindrical Geometries

403220.901 ARES-G2 Torsion Rectangular Clamp Set

402560.901 ARES-G2 Torsion Cylindrical Clamp Set (sample holder diameters: 1.5, 3, and 4.5 mm)

403220.902 ARES Classic Torsion Rectangular Clamp Set (Ver 1 through 8)

FCO Specialty Fixtures

403165.901 ARES EVF Extensional Viscosity Fixture Note: ARES Classic requires 2KFRT transducer.

403074.901 ARES EVF, Replacement Drum Pins, One Set

403076.901 ARES EVF, Sample Mold and Plates

708.01440 ARES Linear Tack Testing Tool

708.01458 ARES Linear Film / Fiber Testing Tool: for use with ARES-G2 and ARES Classic Instruments configured with 2KFRTN transducers.

708.00991 ARES Dynamic Film / Fiber Testing Tool

402333.901 ARES Recessed End Ambient Couette: includes 25 mm diameter Titanium Bob, 27 mm diameter Stainless Steel Cup and PRT. Note: For ARES-G2 and ARES Classic Rheometers.

402800.901 ARES-G2, Cone Partitioned Plate Geometry for FCO
### ARES-G2 Peltier Plate Temperature Control Option

**Peltier Plate Temperature Control System (Smart Swap)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>401014.901</td>
<td>ARES-G2 Smart Swap Peltier Plate</td>
<td>Requires Environmental Control Box (P/N: 401949.901) and appropriate Peltier Circulator.</td>
</tr>
<tr>
<td>401949.901</td>
<td>ARES-G2 Environmental Control Box</td>
<td>Required for Peltier Plate Temperature Control.</td>
</tr>
</tbody>
</table>

### ARES Solvent Trap Accessory and Solvent Trap Geometries

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>402280.901</td>
<td>ARES Peltier Plate Solvent Trap Accessory (requires use of solvent trap geometries P/N's: 402274.901, 402278.901)</td>
<td>For use with ARES Classic and ARES-G2 Smart Swap Peltier Plates ONLY.</td>
</tr>
<tr>
<td>402278.901</td>
<td>ARES, Stainless Steel, 25 mm, Solvent Trap, Cross Hatched, Parallel Plate</td>
<td></td>
</tr>
</tbody>
</table>

### ARES Peltier Circulators for Peltier Systems (Peltier Plate and APS)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>403209.901</td>
<td>Air Cooled Peltier Circulator (110 / 220V, 50 / 60Hz) for DHR, AR and ARES Rheometers</td>
<td></td>
</tr>
<tr>
<td>403258.901</td>
<td>Peltier Circulator Thermocube Model 10-300 (115 / 230V, 50 / 60Hz)</td>
<td>For use with DHR, AR and ARES Peltier Plate and Peltier Concentric Cylinder Systems. For use with AR UHP System along with the Combined Manifold (P/N: 554104.901).</td>
</tr>
</tbody>
</table>

### ARES-G2 Sealed Bath Temperature Control Option

**Sealed Bath Temperature Control System (Smart Swap)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>401015.901</td>
<td>ARES-G2, Smart Swap Sealed Bath</td>
<td>Compatible with ARES Classic Rheometer. This part number replaces the ARES Classic Sealed Bath P/N: 700.03362.8.</td>
</tr>
<tr>
<td>401060.901</td>
<td>ARES Classic to ARES-G2 Sealed Bath Upgrade Kit</td>
<td>For use on the ARES-G2 Rheometer. Includes Smart Swap cable and new plastic cover required for upgrading ARES Classic Sealed Bath (P/N: 700.03362.8).</td>
</tr>
</tbody>
</table>

### ARES Computer Controlled Circulators Sealed Bath

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>403197.901</td>
<td>ARES, Computer Controlled Circulator (110V, 60Hz) for Sealed Recirculating Bath (P/N: 401015.901)</td>
<td>Use for temperature control of Sealed Recirculating Bath</td>
</tr>
<tr>
<td>403197.902</td>
<td>ARES, Computer Controlled Circulator (230V, 50Hz) for Sealed Recirculating Bath (P/N: 401015.901)</td>
<td>Use for temperature control of Sealed Recirculating Bath</td>
</tr>
</tbody>
</table>

### ARES-G2 Sealed Bath Geometry Bundles and Couettes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>402328.901</td>
<td>ARES, Sealed Bath Fluid Rheology Geometry Bundle: includes 50 mm Titanium Upper Plate and Stainless Lower Parallel Plate, Titanium Upper 50 mm 0.04 rad Cone, and recessed end Couette with 34 mm diameter Cup and 32 mm diameter Bob.</td>
<td></td>
</tr>
<tr>
<td>402330.901</td>
<td>ARES, Sealed Bath Advanced Fluids Rheology Geometry Bundle: includes 25 mm diameter Titanium Upper Plate and Stainless Lower Parallel Plate, Titanium 25 mm diameter 0.04 rad Cone, and small volume recessed end Couette with 17 mm diameter Stainless Steel Cup and 16.5 mm diameter Titanium Bob.</td>
<td></td>
</tr>
<tr>
<td>401995.901</td>
<td>ARES, Sealed Bath Recessed End Couette: includes 32 mm diameter Titanium Bob with Recessed End and 34 mm diameter Stainless Steel Cup.</td>
<td></td>
</tr>
<tr>
<td>401996.901</td>
<td>ARES, Sealed Bath Small Volume Recessed End Couette: includes 16.5 mm diameter Titanium Bob and 17 mm diameter Stainless Steel Cup.</td>
<td></td>
</tr>
<tr>
<td>401997.901</td>
<td>ARES, Sealed Bath Double Wall Couette: includes 34 mm OD / 27.95 mm ID Stainless Steel Cup; 32 mm OD / 29.5 mm ID Titanium Bob.</td>
<td></td>
</tr>
<tr>
<td>708.01228</td>
<td>ARES, Stainless Steel 18 mm Vaned Bob: for use with Sealed Bath configured with lower 34 mm Stainless Steel Cup.</td>
<td></td>
</tr>
<tr>
<td>700.03464</td>
<td>ARES, Stainless Steel Double Wall Cup for Sealed Bath</td>
<td></td>
</tr>
<tr>
<td>708.01471</td>
<td>ARES, Stainless Steel, 25 mm Lower Plate for Sealed Bath</td>
<td></td>
</tr>
<tr>
<td>708.01472</td>
<td>ARES, Stainless Steel, 50 mm Lower Plate for Sealed Bath</td>
<td></td>
</tr>
<tr>
<td>708.01483</td>
<td>ARES, Stainless Steel, 63 mm Lower Plate with Glass Cup and Cover for Sealed Bath</td>
<td></td>
</tr>
</tbody>
</table>
## ARES-G2 Advanced Peltier System (APS)

### APS = Advanced Peltier System

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>402500.901</td>
<td>ARES-G2, APS, Jacket</td>
</tr>
</tbody>
</table>

### APS Cups

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>402620.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 30 mm Dia., Cup</td>
</tr>
<tr>
<td>402741.901</td>
<td>ARES-G2, APS, Stainless Steel, 30 mm Dia., Cup (with embedded PRT)</td>
</tr>
<tr>
<td>402641.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 34 mm Dia., Cup</td>
</tr>
<tr>
<td>402684.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 34 mm Dia., Double Gap Cup</td>
</tr>
<tr>
<td>402684.902</td>
<td>ARES-G2, APS, Stainless Steel, 34 mm Dia., Double Gap Cup</td>
</tr>
<tr>
<td>402678.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 20 mm Dia., Cup</td>
</tr>
<tr>
<td>402681.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 42 mm Dia., 15 mm Edge Height, Immersion Cup; includes two removable sidewalls (one aluminum and one clear polycarbonate) for easy sample loading and trimming</td>
</tr>
</tbody>
</table>

### APS Bobs (for use with APS Cups)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>402621.901</td>
<td>ARES-G2, APS, Stainless Steel, 27.7 mm Dia., DIN Bob</td>
</tr>
<tr>
<td>402673.901</td>
<td>ARES-G2, APS, Stainless Steel, 27.7 mm Dia., 41.5 mm Height, Recessed End DIN Bob</td>
</tr>
<tr>
<td>402675.901</td>
<td>ARES-G2, APS, Stainless Steel, 27.7 mm Dia., 41.5 mm Height, Vane Bob</td>
</tr>
<tr>
<td>402682.901</td>
<td>ARES-G2, APS, Stainless Steel, 15 mm Dia., 38 mm Height, Wide Gap Vane Bob</td>
</tr>
<tr>
<td>402679.901</td>
<td>ARES-G2, APS, Stainless Steel, 18.6 mm Dia., 27.9 mm Height, Conical End DIN Bob</td>
</tr>
<tr>
<td>402680.901</td>
<td>ARES-G2, APS, Stainless Steel, 18.6 mm Dia., 27.9 mm Height, Recessed End DIN Bob</td>
</tr>
<tr>
<td>402674.901</td>
<td>ARES-G2, APS, Titanium, 31.4 mm Dia., 47.1 mm Height, Recessed End DIN Bob</td>
</tr>
<tr>
<td>402676.901</td>
<td>ARES-G2, APS, Titanium, Double Gap Bob: Inner Dia. = 29.4 mm, Outer Dia. = 32 mm, Height = 48 mm, Sample Volume = 9.4 mL</td>
</tr>
<tr>
<td>402676.902</td>
<td>ARES-G2, APS, Titanium, Narrow Gap Double Gap Bob: Inner Dia. = 28.6 mm, Outer Dia. = 33 mm, Height = 49.5 mm, Sample Volume = 5.0 mL</td>
</tr>
</tbody>
</table>

### APS Standard Flat Plate

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>402619.901</td>
<td>ARES-G2, APS, Standard Flat Plate</td>
</tr>
</tbody>
</table>

### APS Quick Change Plates (for use with APS Standard Flat Plate)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>402625.901</td>
<td>ARES-G2, APS, Stainless Steel, 8 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402624.901</td>
<td>ARES-G2, APS, Stainless Steel, 25 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402623.901</td>
<td>ARES-G2, APS, Stainless Steel, 40 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402622.901</td>
<td>ARES-G2, APS, Stainless Steel, 50 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402627.901</td>
<td>ARES-G2, APS, Stainless Steel, Cross Hatched, 8 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402628.901</td>
<td>ARES-G2, APS, Stainless Steel, Cross Hatched, 25 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402629.901</td>
<td>ARES-G2, APS, Stainless Steel, Cross Hatched, 40 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402630.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 25 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402631.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 40 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402632.901</td>
<td>ARES-G2, APS, Hard Anodized Aluminum, 50 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402633.901</td>
<td>ARES-G2, APS, Titanium, 25 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402634.901</td>
<td>ARES-G2, APS, Titanium, 50 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402770.901</td>
<td>ARES-G2, APS, Sandblasted, 25 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402769.901</td>
<td>ARES-G2, APS, Sandblasted, 40 mm, Quick Change Plate</td>
</tr>
<tr>
<td>402768.901</td>
<td>ARES-G2, APS, Sandblasted, 50 mm, Quick Change Plate</td>
</tr>
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</table>

### APS Quick Change Disposable Plates (for use with APS Standard Flat Plate)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>402611.901</td>
<td>ARES-G2, APS, Aluminum, 8 mm, Quick Change Disposable Plate (pkg. of 20)</td>
</tr>
<tr>
<td>402612.901</td>
<td>ARES-G2, APS, Aluminum, 20 mm, Quick Change Disposable Plate (pkg. of 20)</td>
</tr>
<tr>
<td>402613.901</td>
<td>ARES-G2, APS, Aluminum, 25 mm, Quick Change Disposable Plate (pkg. of 20)</td>
</tr>
<tr>
<td>402751.901</td>
<td>ARES-G2, APS, Quick Change Disposable Plate Holder</td>
</tr>
</tbody>
</table>
**APS Solvent Trap Cover**

- [402515.901](#) ARES-G2, APS, Split Solvent Trap Cover for Cones and Parallel Plates
- [402691.901](#) ARES-G2, APS, Solvent Trap Cover for Concentric Cylinders

**ARIES Solvent Trap - Heat Break Geometries** *(for use with Peltier Plate and APS)*

**ARIES Solvent Trap - Heat Break Geometries: Parallel Plates**

- [402677.903](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 25 mm, Parallel Plate
- [402677.901](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 40 mm, Parallel Plate
- [402677.902](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 50 mm, Parallel Plate
- [402683.903](#) ARES, PPS, Solvent Trap, 25 mm, Parallel Plate
- [402683.901](#) ARES, PPS, Solvent Trap, 40 mm, Parallel Plate
- [402683.902](#) ARES, PPS, Solvent Trap, 50 mm, Parallel Plate

**ARIES Solvent Trap - Heat Break Geometries: Roughened Surface Plates**

- [402767.903](#) ARES, Stainless Steel, Solvent Trap, Sandblasted, 25 mm, Parallel Plate
- [402767.901](#) ARES, Stainless Steel, Solvent Trap, Sandblasted, 40 mm, Parallel Plate
- [402767.902](#) ARES, Stainless Steel, Solvent Trap, Sandblasted, 50 mm, Parallel Plate
- [402766.902](#) ARES, Stainless Steel, Heat Break, Solvent Trap, Cross Hatched, 25 mm, Parallel Plate
- [402766.901](#) ARES, Stainless Steel, Heat Break, Solvent Trap, Cross Hatched, 40 mm, Parallel Plate
- [402766.903](#) ARES, Stainless Steel, Heat Break, Solvent Trap, Cross Hatched, 50 mm, Parallel Plate

**ARIES Solvent Trap - Heat Break Geometries: Cones**

- [402761.901](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 25 mm, 1 deg Cone
- [402762.901](#) ARES, PPS, Solvent Trap, 25 mm, 1 deg Cone

- [402760.903](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 40 mm, 1 deg Cone
- [402760.901](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 40 mm, 2 deg Cone
- [402764.903](#) ARES, PPS, Solvent Trap, 40 mm, 1 deg Cone
- [402764.901](#) ARES, PPS, Solvent Trap, 40 mm, 2 deg Cone
- [402763.903](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 50 mm, 1 deg Cone
- [402763.901](#) ARES, Stainless Steel, Heat Break, Solvent Trap, 50 mm, 2 deg Cone
- [402765.903](#) ARES, PPS, Solvent Trap, 50 mm, 1 deg Cone
- [402765.901](#) ARES, PPS, Solvent Trap, 50 mm, 2 deg Cone

**ARIES Single Boxed Parallel Plate Geometries**

**Stainless Steel Parallel Plate Geometries** *(Note: For use with FCO (two required), Bath, and Peltier Temperature Systems.)*

- [401985.901](#) ARES, Stainless Steel, 8 mm Parallel Plate
- [401981.901](#) ARES, Stainless Steel, 25 mm Parallel Plate
- [402302.901](#) ARES, Stainless Steel, 40 mm Parallel Plate
- [401968.901](#) ARES, Stainless Steel, 50 mm Parallel Plate
- [401978.901](#) ARES, Stainless Steel, 25 mm Parallel Plate, Serrated
- [401667.901](#) ARES, Stainless Steel, Cross Hatched, 25 mm Plate
- [401687.901](#) ARES, Stainless Steel, Cross Hatched, 50 mm Plate

**Titanium Parallel Plate Geometries** *(Note: For use with FCO (two required), Bath, and Peltier Temperature Systems.)*

- [402309.901](#) Titanium, 25 mm Parallel Plate
- [402310.901](#) Titanium, 50 mm Parallel Plate

**Polyphenylene Sulfide (PPS) Parallel Plate Geometries** *(Note: For use with Bath and Peltier Temperature Systems.)*

- [402311.901](#) ARES, PPS, 25 mm Upper Plate; Maximum Temperature = 150°C
- [402312.901](#) ARES, PPS, 40 mm Upper Plate; Maximum Temperature = 150°C
- [402313.901](#) ARES, PPS, 50 mm Upper Plate; Maximum Temperature = 150°C
ARES Cone Geometries

Stainless Steel Upper Cones

Note: For use with FCO, Bath, and Peltier Temperature Systems.

402305.901 ARES, Stainless Steel, 8 mm 0.1 rad Cone (5.73 deg)
401977.901 ARES, Stainless Steel, 25 mm 0.02 rad Cone (1.15 deg)
401976.901 ARES, Stainless Steel, 25 mm 0.04 rad Cone (2.29 deg)
402317.901 ARES, Stainless Steel, 25 mm 0.1 rad Cone (5.73 deg)
401965.901 ARES, Stainless Steel, 50 mm 0.02 rad Cone (1.15 deg)
401963.901 ARES, Stainless Steel, 50 mm 0.04 rad Cone (2.29 deg)

Titanium Upper Cones

Note: For use with FCO, Bath, and Peltier Temperature Systems.

401975.901 ARES, Titanium, 25 mm 0.04 rad Cone (2.29 deg)
401972.901 ARES, Titanium, 25 mm 0.02 rad Cone (1.15 deg)
401973.901 ARES, Titanium, 25 mm 0.1 rad Cone (5.73 deg)
401964.901 ARES, Titanium, 50 mm 0.02 rad Cone (1.15 deg)
401962.901 ARES, Titanium, 50 mm 0.04 rad Cone (2.29 deg)

Polyphenylene Sulfide (PPS) Cone Geometries

Note: For use with Bath and Peltier Temperature Systems.

402314.901 ARES, PPS, 25 mm 0.1 rad Cone; Maximum Temperature = 150°C
402315.901 ARES, PPS, 50 mm 0.04 rad Cone; Maximum Temperature = 150°C

ARES Disposable Plate Fixtures and Accessories

Stainless Steel Disposable Plate Fixture

Note: For use with FCO (two required), Bath, and Peltier Temperature Systems.

402303.901 ARES, Stainless Steel, Disposable Plate Fixture

Note: Two required for use with FCO Temperature System. Requires Disposable Plates.

Aluminum and Stainless Steel Disposable Plates

700.01294.17 Aluminum, 8 mm Disposable Plates, 10 Pair (20 pieces)
700.01294.3 Aluminum, 25 mm Disposable Plates, 10 Pair (20 pieces)
700.01294.4 Aluminum, 40 mm Disposable Plates, 10 Pair (20 pieces)

Titanium Disposable Plates

700.01294.5 Aluminum, 50 mm Disposable Plates, 10 Pair (20 pieces)
700.01294.11 Serrated Aluminum, 8 mm Disposable Plates, 1 pair (2 Pieces)
700.01294.6 Serrated Aluminum, 25 mm Disposable Plates, 1 pair (2 Pieces)
700.01294.7 Serrated Aluminum, 50 mm Disposable Plates, 1 pair (2 Pieces)
700.01295.9 Stainless Steel, 8 mm Disposable Plates, 10 Pair (20 pieces)
700.01295.3 Stainless Steel, 25 mm Disposable Plates, 10 Pair (20 pieces)
700.01295.4 Stainless Steel, 40 mm Disposable Plates, 10 Pair (20 pieces)
700.01295.5 Stainless Steel, 50 mm Disposable Plates, 10 Pair (20 pieces)
700.01295.6 Serrated Stainless Steel, 25 mm Disposable Plates, 1 pair (2 Pieces)
700.02678 Aluminum, 42 mm Disposable Cup, (1 piece)
700.02648 Disposable Plate Sample Mold, 25 mm
40239.901 Aluminum, 25 mm Disposable Plates with Drip Channel (pkg. of 20)

Aluminum Disposable Cones

700.02451.2 Aluminum, 25 mm 0.02 rad (1.15 deg) Disposable Cone, (10 pieces)
700.02451.1 Aluminum, 25 mm 0.1 rad (5.73 deg) Disposable Cone, (10 pieces)
700.02451.3 Aluminum, 50 mm 0.04 rad (2.29 deg) Disposable Cone, (10 pieces)

ARES Miscellaneous Fixtures and Accessories

ARES Asphalt Accessories

554007.901 Asphalt Sample Molds, 1 Pair

ARES Air and Calibration Accessories

700.02657.2 ARES and RSA Air Dryer
250000.006 Oil Filter Removal Element (Norgren)
613.06406 Replacement F73G 5 micron Filter Element for Air Dryer
700.00437.1 Air Table
700.01011 PDMS, 2oz
700.01016 Silicone Oil, 1000 cP
400.02589 Steel Reference Standard
ARES Universal Testing Platform

- 403090.001 SER2 Universal Testing Platform for ARES / ARES-G2 (temperature range: 0 to 290°C)
- 200974.001 SER2 Standard Drum Pair Set for ARES Rheometers
- 200975.001 SER2 Knurled Surface Drum Pair Set for ARES Rheometers
- 200976.001 SER2 Rough Surface Drum Pair Set for ARES Rheometers
- 200977.001 SER2 Securing Clamps for ARES Rheometers (pkg. of 6)
- 200978.001 SER2 Dual Blade Cutter Assembly
- 200979.001 Razor Blades for SER2 Dual Blade Cutter Assembly (P/N: 200978.001) (pkg. of 50)

ARES Helical Mixer Geometry

- 401827.901 ARES Stainless Steel Helical Rotor

ARES DETA: Dielectric Thermal Analysis Options

- 402551.901 ARES-G2 and RSA-G2 DETA Accessory Kit (LCR Meter not included): Requires two ARES 25 mm DETA Geometries (P/N: 402553.901) and customer supplied Agilent E4980A LCR Meter (P/N: 613.04946) or Agilent 4285A LCR Meter (P/N: 201259.001).
- 402553.901 ARES 25 mm DETA Geometry: for use with the ARES DETA option (P/N: 402551.901)
- 404000.901 ARES-G2, Disposable DETA Geometry: for use with the ARES DETA option (P/N: 402551.901)
- 613.04946 Agilent E4980A LCR Meter for ARES-G2 and RSA-G2 DETA: frequency range: 20 Hz. to 2 MHz.; AC test signal (potential) 0.005 to 20 Volts (115 / 230V; 50 / 60 Hz.)
- 201259.001 Agilent 4285A LCR Meter for ARES-G2 and RSA-G2 DETA: frequency range: 75 kHz. to 30 MHz.; AC test signal (potential) 0.005 to 10 Volts (115 / 230V; 50 / 60 Hz.)

ARES UV-Curing Options

- 401177.901 ARES-G2 UV-Curing Option without Light Source
- 401177.902 ARES-G2 UV-Curing Option with Light Source
- 935014.901 PCA/UV External Filter Adapter Accessory Kit (allows use of external filters with the PCA P/N: 935000.901)
- 935009.001 Filter, External, 320 - 480 nm (for the Omnicure S-2000 with external filter adapter)
- 935009.002 Filter, External, 320 - 390 nm (for the Omnicure S-2000 with external filter adapter)
- 935009.003 Filter, External, 365 nm (for the Omnicure S-2000 with external filter adapter)

ARES Draft Shield

- 402735.901 ARES-G2 Draft Shield

ARES Electro-Rheological Analysis Option

- 401940.901 ARES Electro-Rheological Analysis Accessory for ARES-G2 (110VAC)
- 401940.902 ARES Electro-Rheological Analysis Accessory for ARES-G2 (220VAC)
- 402754.901 ARES-G2, Electro-Rheology, Stainless Steel, 25 mm, Upper Plate Note: These plates are for upper use only and are not compatible with the FCO.
- 402752.901 ARES-G2, Electro-Rheology, Stainless Steel, 50 mm, Upper Plate Note: These plates are for upper use only and are not compatible with the FCO.

ARES Interfacial (DWR) Rheology System

- 402820.901 ARES-G2, Double Wall Ring Interfacial (DWR) Rheology System: includes DWR Pt/Ir Ring Geometry and Delrin Trough, which mounts on the APS Flat Plate. Note: Requires APS Flat Plate (P/N: 402619.901) and APS Jacket (P/N: 402500.901).

ARES Motor Boost Accessory

- 404008.901 Motor Boost Accessory for ARES-G2

ARES Orthogonal Superposition (OSP) Accessory

- 402805.901 ARES-G2, OSP Upgrade Kit
- 402796.901 ARES-G2, APS, Titanium, OSP Slotted Double Gap Bob
- 402796.902 ARES-G2, APS, Titanium, OSP Slotted Narrow Gap Double Bob
- 402782.901 ARES-G2, APS, HA AL, 34 mm Dia., OSP Slotted Double Gap Cup
- 532069.901 ARES-G2, 3-Point Bending Geometry
- 532070.901 ARES-G2, Cantilever Bending Geometry
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>533242.901</td>
<td>Tribo-rheometry Accessory Base Kit</td>
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<tr>
<td>532078.901</td>
<td>ARES-G2, Tribo-rheometry Coupling Adapter, Long</td>
</tr>
<tr>
<td>532078.902</td>
<td>ARES-G2, Tribo-rheometry Coupling Adapter, Short</td>
</tr>
<tr>
<td>533273.901</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Medium</td>
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<tr>
<td>533273.902</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Short</td>
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<tr>
<td>533273.903</td>
<td>Tribo-rheometry, Single Ball Upper Geometry Holder, Long</td>
</tr>
<tr>
<td>533283.901</td>
<td>Tribo-rheometry, Ring on Plate Upper Geometry Holder</td>
</tr>
<tr>
<td>533290.901</td>
<td>Tribo-rheometry, 3 Balls on Plate Upper Geometry Holder</td>
</tr>
<tr>
<td>533249.901</td>
<td>Tribo-rheometry, 5/16” Truncated SST Balls (pkg. of 12)</td>
</tr>
<tr>
<td>533250.901</td>
<td>Tribo-rheometry, 1/2” SST Balls (pkg. of 25)</td>
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<tr>
<td>533284.901</td>
<td>Tribo-rheometry, Ring Upper Geometry (pkg. of 3)</td>
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<tr>
<td>533274.901</td>
<td>Tribo-rheometry, Ball on 3 Balls Lower Geometry</td>
</tr>
<tr>
<td>533281.901</td>
<td>Tribo-rheometry, SST Cup 45 mm Lower Geometry</td>
</tr>
<tr>
<td>533282.901</td>
<td>Tribo-rheometry, 3 Plates Lower Geometry</td>
</tr>
<tr>
<td>533291.901</td>
<td>Tribo-rheometry, Ball on 3 Plates SST Test Plates (pkg. of 30)</td>
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<tr>
<td>523400.907</td>
<td>Aluminum, 40 mm Disposable Plate</td>
</tr>
<tr>
<td>532079.901</td>
<td>ARES-G2, FCO, Tribo-rheometry Lower Geometry Holder</td>
</tr>
<tr>
<td>532080.901</td>
<td>ARES-G2, APS, Tribo-rheometry Lower Geometry Holder</td>
</tr>
</tbody>
</table>

**ARES - CLASSIC ONLY**  
(includes ARES, ARES-LS1, ARES-LS2, ARES-RDA, ARES-RFS, and ARES-HT)

**ARES Classic Rheometer**

708.01442  ARES Optical Parallel Plate for OAM; includes 38.1 mm upper and lower glass parallel plates

708.01439  Optical Couette Kit; includes 30 mm OD upper Stainless Steel Bob and 34 mm ID Stainless Steel / Glass Cup; for use with OAMII at ambient use only; requires V5.xx.xx or higher firmware and 2KFRTN1 transducer.  
**Note:** For ARES CLASSIC ONLY.

700.03336  OAM II Adjustable FCO Height Support

**ARES UV-Curing and Photo-Curing Accessories**

403153.001  Upper 20 mm Quartz Plate for ARES UV-Option  
**Note:** For use with ARES UV-Curing Option and Photo-Curing Option upper plate fixture.

403171.002  Lower 20 mm Stainless Steel Plate for ARES UV-Option  
**Note:** For use with ARES UV-Curing Option and Photo-Curing Option upper lower plate fixture.

403064.901  Package of 10 disposable 20 mm diameter acrylic plates for use with ARES UV-Curing Option and Photo-Curing Option upper plate fixture  
**Note:** Not for use with standard disposable plate fixture.

403065.901  Package of 10 disposable 20 mm diameter aluminum plates for ARES disposable plate fixture  
**Note:** For use with ARES UV-Curing and Photo-Curing Option upper quartz plate and fixture.

200400.001  Replacement 5 mm diameter light guide for ARES and AR UV-Curing and Photo-Curing Options

403170.001  Replacement remote radiometer / dosimeter for ARES UV-Curing Option

**ARES FCO Temperature Control Option**

700.03382.6  ARES Classic FCO Liquid Nitrogen Controller Option

403164.901  ARES Classic and RSA III Mechanical Chiller Panel & Interface.  
**Note:** Requires customer supplied chiller.
RSA-G2 Temperature Options

401892.901 RSA-G2 Forced Convection Oven FCO
401711.901 ARES-G2 and RSA-G2 FCO Camera
402164.901 ARES-G2 and RSA-G2 Chiller Panel
   Note: Requires Customer to Purchase Polycold PGC 152 Mechanical Chiller directly from Polycold.
401041.901 ARES-G2 and RSA-G2 FCO LN2 Controller Option

RSA-G2 and RSA III Geometries

708.01456 RSA 3-Point Bending Geometry
708.01446 RSA Cantilever Bending Geometry
708.01455 RSA Film / Fiber Geometry
708.01464 RSA Parallel Plate Compression Geometry
708.01466.1 8 mm diameter Plates for RSA Parallel Plate Compression Geometry
708.01466.2 15 mm diameter Plates for RSA Parallel Plate Compression Geometry
708.01466.3 25 mm diameter Plates for RSA Parallel Plate Compression Geometry
708.01461 RSA Shear Sandwich Geometry
708.01465 RSA Contact Lens Geometry Probe and Lens Holder
402198.901 RSA Immersion Geometry and Installation Kit
   Note: Includes Tension and 15 mm diameter Compression Fixtures. Also includes 10 mm, 15 mm, and 20 mm 3-point bending fixtures. Compatible with the RSA-G2 and the RSA III. Note: Use with the RSA III also requires the RSA III Immersion Tool Installation Kit (P/N: 402724.901), available separately (requires installation by a TA Instruments Service Engineer, priced separately).

RSA III Software

402010.901 Orchestrotor Polymer Library

RSA-G2 DETA: Dielectric Thermal Analysis Options

402551.901 ARES-G2 and RSA-G2 DETA Accessory Kit
   (LCR Meter not included): Requires two RSA-G2 25 mm DETA Geometries (P/N: 402614.901) and customer supplied Agilent E4980A LCR Meter (P/N: 613.04946) or Agilent 4285A LCR Meter (P/N: 201259.001).

402614.901 RSA-G2 25 mm DETA Geometry:
   for use with the RSA-G2 DETA option (P/N: 402551.901)

613.04946 Agilent E4980A LCR Meter for ARES-G2 and RSA-G2 DETA:
   frequency range: 20 Hz. to 2 MHz.; AC test signal (potential) 0.005 to 20 Volts (115 / 230V; 50 / 60 Hz.)

201259.001 Agilent 4285A LCR Meter for ARES-G2 and RSA-G2 DETA:
   frequency range: 75 kHz. to 30 MHz.; AC test signal (potential) 0.005 to 10 Volts (115 / 230V; 50 / 60 Hz.)

Miscellaneous Accessories

251471.002 DSL Router with 4-Port Switch
   (for communication between an external controller and Thermal and Rheology instruments)

700.02657.2 ARES and RSA Air Dryer

708.01457 Adaptors for RSA2 Tools

402724.901 RSA III Immersion Tool Installation Kit:
   installation kit necessary for updating the RSA III FCO when using the RSA Immersion Geometry (P/N: 402198.901).
   This kit requires installation by a TA Instruments Service Engineer, priced separately.
### DMA Q800 Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>985700.901</td>
<td>DMA-RH (Relative Humidity) Accessory for DMA Q800</td>
</tr>
<tr>
<td>991400.902</td>
<td>Gas CoolingAccessory - Auto Tank Fill (for cooling to -150°C)</td>
</tr>
<tr>
<td>984350.901</td>
<td>Air Compressor Accessory (for use with DMA Q800, DMA 2980 only)</td>
</tr>
<tr>
<td>985011.901</td>
<td>Accessory Kit, DMA Q800 (supplied with the DMA Q800 module)</td>
</tr>
<tr>
<td>920247.901</td>
<td>Display Kit Retrofit to QNX</td>
</tr>
<tr>
<td></td>
<td>Note: Upgrades a DMA Q800, TMA Q400, and SDT Q600 from VRTX to QNX operation.</td>
</tr>
<tr>
<td></td>
<td>The kit includes the latest Advantage software, Platinum features and full VGA display. Installation and training is also included. Contact your TA Instruments Service Engineer for further information.</td>
</tr>
<tr>
<td>920069.240</td>
<td>240V Conversion Kit - order at no charge with purchase of each Q Series DMA module for use with 220 / 240V power.</td>
</tr>
<tr>
<td>924500.602</td>
<td>Ethernet Switch</td>
</tr>
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</table>

### DMA Q800 Clamp Kits

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>984048.901</td>
<td>8 mm Single / Dual Cantilever Clamp Kit</td>
</tr>
<tr>
<td>984047.901</td>
<td>20 mm Single / Dual Cantilever Clamp Kit</td>
</tr>
<tr>
<td>984015.901</td>
<td>35 mm Single / Dual Cantilever Clamp Kit (supplied with DMA Q800 module)</td>
</tr>
<tr>
<td>984026.901</td>
<td>3-point Bending Clamp Kit (5, 10, and 15 mm lengths)</td>
</tr>
<tr>
<td>984014.901</td>
<td>3-point Bending Clamp Kit (20 and 50 mm lengths)</td>
</tr>
<tr>
<td>985178.901</td>
<td>Submersion 3-point Bending Kit (5, 10, and 15 mm lengths)</td>
</tr>
<tr>
<td>984018.901</td>
<td>Parallel Plate Compression Clamp Kit (includes 15 and 40 mm plates)</td>
</tr>
<tr>
<td>984022.901</td>
<td>Penetration Clamp Kit</td>
</tr>
<tr>
<td>985016.901</td>
<td>Film / Fiber Tension Clamp Kit</td>
</tr>
<tr>
<td>984023.901</td>
<td>Specialty Fiber Tension Clamp Kit</td>
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<tr>
<td>984017.901</td>
<td>Shear Sandwich Clamp Kit</td>
</tr>
<tr>
<td>985067.901</td>
<td>Submersion Compression Clamp Kit</td>
</tr>
<tr>
<td>985068.901</td>
<td>Submersion Film / Fiber Tension Clamp Kit</td>
</tr>
<tr>
<td>985069.901</td>
<td>3-point Bending Clamp Kit (50 mm, low friction)</td>
</tr>
<tr>
<td>985070.901</td>
<td>3-point Bending Clamp Kit (20 mm, low friction)</td>
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<tr>
<td>984486.901</td>
<td>Film Cutting Kit</td>
</tr>
<tr>
<td>985164.901</td>
<td>Powder Kit (for use with 35 mm Cantilever Clamp Kit P/N: 984015.901)</td>
</tr>
<tr>
<td>985018.901</td>
<td>DMA-RH Accessory Clamp Kit for DMA Q800: specifically for use with the DMA-RH accessory - kit includes clamp components for 10 mm 3-pt bending, penetration, and 15 mm compression clamps.</td>
</tr>
</tbody>
</table>

### DMA Q800 Replacement Parts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>984003.901</td>
<td>Replacement Furnace</td>
</tr>
<tr>
<td>259508.000</td>
<td>Brass Tweezers</td>
</tr>
<tr>
<td>270962.002</td>
<td>Telescoping Gauge (for 17 mm single cantilever clamps)</td>
</tr>
<tr>
<td>985199.901</td>
<td>Control Thermocouple (90 mm length)</td>
</tr>
<tr>
<td>985199.902</td>
<td>Sample Thermocouple (130 mm length)</td>
</tr>
<tr>
<td>984370.901</td>
<td>Furnace Inlet Ferrule / Spring Kit (pkg. of 5)</td>
</tr>
<tr>
<td>270976.002</td>
<td>Filter / Regulator with Auto Drain</td>
</tr>
<tr>
<td>270975.001</td>
<td>Filter Replacement, Auto Drain Regulator</td>
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<tr>
<td>985078.001</td>
<td>Dual Cantilever Clamp Screen</td>
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<tr>
<td>985078.002</td>
<td>Film / Fiber Tension Clamp Screen</td>
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<tr>
<td>985052.901</td>
<td>Thermocouple Baffle</td>
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### DMA Q800 Calibration and Test Materials

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>900902.901</td>
<td>Indium Temperature Calibration Sample</td>
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<tr>
<td>900907.901</td>
<td>Zinc Temperature Calibration Sample</td>
</tr>
<tr>
<td>984310.901</td>
<td>Indium Wire, Film / Fiber Temperature Calibration (pkg. of 10 pieces, 38 mm length)</td>
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<tr>
<td>980228.902</td>
<td>Glass Support Cloth (0.2 mm thick, 33 m length)</td>
</tr>
<tr>
<td>982161.902</td>
<td>ABS Sample (3.18 mm thick, 61 mm length) (pkg. of 5)</td>
</tr>
<tr>
<td>982161.903</td>
<td>ABS Sample (3.18 mm thick, 36 mm length) (pkg. of 5)</td>
</tr>
<tr>
<td>982165.903</td>
<td>Polycarbonate Sample (1.6 mm thick, 36 mm length) (pkg. of 5)</td>
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<tr>
<td>982165.904</td>
<td>Polycarbonate Sample (0.79 mm thick, 36 mm length) (pkg. of 5)</td>
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<tr>
<td>984309.901</td>
<td>Polyethylene Terephthalate (PET) Film (38 mm length) (pkg. of 10)</td>
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<tr>
<td>984313.901</td>
<td>PET Fiber (910 mm length)</td>
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<tr>
<td>984308.001</td>
<td>DMA Calibration Standard 0.005 inch thick</td>
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<tr>
<td>984308.002</td>
<td>DMA Calibration Standard 0.010 inch thick</td>
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<tr>
<td>984308.003</td>
<td>DMA Calibration Standard 0.020 inch thick</td>
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<tr>
<td>984308.004</td>
<td>DMA Calibration Standard 0.030 inch thick</td>
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<tr>
<td>982166.003</td>
<td>Compliance Sample - Dual Cantilever</td>
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<tr>
<td>982166.004</td>
<td>Compliance Sample - Single Cantilever</td>
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<tr>
<td>984331.901</td>
<td>Film / Fiber Tension Clamp Calibration Kit</td>
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### RPA flex Options

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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>471200.901</td>
<td>Stress Relaxation Option for RPA flex</td>
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<tr>
<td>471200.902</td>
<td>Frequency Sweep Option for RPA flex</td>
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<tr>
<td>471200.903</td>
<td>Strain Sweep and LAOS Option for RPA flex</td>
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<tr>
<td>471200.904</td>
<td>Non-Linearity Measurement Option for RPA flex</td>
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<tr>
<td>471200.905</td>
<td>Advanced Oscillation Option for RPA flex</td>
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### MV one Options

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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>473100.901</td>
<td>Variable Rate Option for MV one Mooney Viscometer (0.1 to 10 RPM)</td>
</tr>
<tr>
<td>473200.901</td>
<td>Large Mooney MV one Viscometer Rotor (D = 38.1 mm)</td>
</tr>
<tr>
<td>473210.901</td>
<td>Small Mooney MV one Viscometer Rotor (D = 30.48 mm)</td>
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### Sample Cutter

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>474000.901</td>
<td>Volumetric Sample Cutter</td>
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### Sample Cutter Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>474050.901</td>
<td>RPA and MDR Sample Cutter Die Set</td>
</tr>
<tr>
<td>474060.901</td>
<td>Mooney Viscometer Sample Cutter Die Set</td>
</tr>
<tr>
<td>474050.001</td>
<td>RPA and MDR Sample Cutter Replacement Die Blade</td>
</tr>
<tr>
<td>474060.001</td>
<td>Mooney Viscometer Sample Cutter Replacement Die Blade</td>
</tr>
<tr>
<td>474070.901</td>
<td>Volumetric Sample Cutter Power Boost Option</td>
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### Automated Hardness / Density Tester Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>474080.901</td>
<td>Automated Hardness / Density Tester 30 Position Tray</td>
</tr>
<tr>
<td>474080.902</td>
<td>Automated Hardness / Density Tester 20 Position Tray</td>
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### System Options / Accessories

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>474300.901</td>
<td>Air Cooling System</td>
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<tr>
<td>474310.901</td>
<td>Enhanced Cooling Option</td>
</tr>
<tr>
<td>474320.901</td>
<td>Torque Standard and Centering Ring</td>
</tr>
<tr>
<td>474330.901</td>
<td>Upper Die Seal</td>
</tr>
<tr>
<td>474340.901</td>
<td>Lower Die Seal</td>
</tr>
<tr>
<td>202889.001</td>
<td>Die / Rotor Cleaning Brush</td>
</tr>
<tr>
<td>202890.001</td>
<td>Die / Rotor Metal Cleaning Pick</td>
</tr>
<tr>
<td>202891.001</td>
<td>Film Roll - Polyester</td>
</tr>
<tr>
<td>202891.002</td>
<td>Film Sheets - Polyester (Qty. 1000 sheets)</td>
</tr>
<tr>
<td>202891.003</td>
<td>Film Roll - Polyamid</td>
</tr>
</tbody>
</table>
### Laser Flash Parts and Accessories

**Moderate Vacuum Module**:
- Large capacity two-stage mechanical vacuum pump and thermocouple gauge with gauge tube (10-3 torr).

---

**Vacuum Gauge Station**

**In-Plane Test Kit for use with EM-200 only**:
- Fixture used to mask the energy pulse for thermal diffusivity determination in the X-Y plane. The kit includes customized software.

**In-Plane Specimen Testing Kit, 25.4 mm OD fixture**
- (for use with EM-500, EM-900, and EM-1300)

**Graphite Spray**
- 10 oz. Aerosol spray can used for specimen preparation.

**Graphite Paint**

**Laser Coolant, 1 Liter Bottle**

**Adapter Ring, Alumina**
- 16 mm reducing to 12.7 mm OD specimens

**Adapter Ring, 25.4 mm reducing to 12.7 mm OD**

**Adapter Ring, 31.75 mm reducing to 25.4 mm OD**

**Carousel Assembly, Graphite**

**Carousel Assembly, Graphite, 6 Position, for EM2800**

**Carousel Assembly, Alumina**

**Carousel Assembly, Alumina, 4 position**
- (dual 12.7 mm diameter and dual 16 mm diameter): for use with the EM-1600 module

**Disposable Paste/Adhesive Cell Plate Set, (set of 20)**

**Liquid Cell Aluminum (EM-200/500): OD = 1.0”**
- (for use with the EM-200/500)

**Melt Capsule, Molybdeum, 16 mm OD**

**Inconel Specimen Support, 2LD**

**Inconel Specimen Support, 3 @ 12.7 mm**

**Graphite Specimen Cartridge, 12.7 mm specimens**

---

### Laser Flash - Reference Materials

#### Alumina Reference Materials
- 853155.001 Alumina Reference, 8 mm Square x 3.175 mm Thick
- 853156.001 Alumina Reference, 10 mm Square x 3.175 mm Thick
- 853154.001 Alumina Reference (with data), 12.7 mm OD x 3.175 mm Thick

#### Vespel Reference Materials
- 853809.901 Vespel Reference (with data) 8 mm Square x 1.27 mm Thick
- 853810.901 Vespel Reference (with data) 10 mm Square x 1.27 mm Thick
- 853811.901 Vespel Reference (with data) 12.7 mm Square x 1.27 mm Thick
- 853813.901 Vespel Reference (with data) 8 mm OD x 1.27 mm Thick
- 853814.901 Vespel Reference (with data) 10 mm OD x 1.27 mm Thick
- 853812.901 Vespel Reference, 12.7 mm OD x 1.27 mm Thick
- 853812.901 Vespel Reference (with data) 25.4 mm OD x 1.27 mm Thick

#### Electrolytic Iron Reference Materials
- 853815.901 Electrolytic Iron Reference (with data)
  - 8 mm Square x 2.54 mm Thick
- 853816.901 Electrolytic Iron Reference (with data)
  - 10 mm Square x 2.54 mm Thick
- 853817.901 Electrolytic Iron Reference (with data)
  - 12.7 mm Square x 2.54 mm Thick
- 853818.901 Electrolytic Iron Reference (with data)
  - 8 mm OD x 2.54 mm Thick
- 853819.901 Electrolytic Iron Reference (with data)
  - 10 mm OD x 2.54 mm Thick
- 853814.901 Electrolytic Iron Reference, 12.7 mm OD x 2.54 mm Thick
- 853816.901 Electrolytic Iron Reference (with data),
  - 25.4 mm OD x 2.54 mm Thick

#### OFHC Copper Reference Materials
- 853820.901 OFHC Copper Reference (with data)
  - 8 mm Square x 5.08 mm Thick
- 853821.901 OFHC Copper Reference (with data)
  - 10 mm Square x 5.08 mm Thick
- 853822.901 OFHC Copper Reference (with data)
  - 12.7 mm Square x 5.08 mm Thick
- 853824.901 OFHC Copper Reference (with data)
  - 8 mm OD x 5.08 mm Thick
Molybdenum Reference Materials

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Material Description</th>
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<tbody>
<tr>
<td>853826.901</td>
<td>Molybdenum Reference (with data) 8 mm Square x 3.175 mm Thick</td>
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<tr>
<td>853827.901</td>
<td>Molybdenum Reference (with data) 10 mm Square x 3.175 mm Thick</td>
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<tr>
<td>853828.901</td>
<td>Molybdenum Reference (with data) 12.7 mm Square x 3.175 mm Thick</td>
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<tr>
<td>853830.901</td>
<td>Molybdenum Reference (with data) 8 mm OD x 3.175 mm Thick</td>
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<tr>
<td>853831.901</td>
<td>Molybdenum Reference (with data) 10 mm OD x 3.175 mm Thick</td>
</tr>
<tr>
<td>853157.901</td>
<td>Molybdenum Reference (with data) 12.7 mm OD x 3.175 mm Thick</td>
</tr>
<tr>
<td>853829.901</td>
<td>Molybdenum Reference (with data) 25.4 mm OD x 3.175 mm Thick</td>
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Stainless Steel Reference Materials

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<th>Material Description</th>
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<td>853832.901</td>
<td>Stainless Steel Reference (with data) 8 mm Square x 1.58 mm Thick</td>
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<td>853833.901</td>
<td>Stainless Steel Reference (with data) 10 mm Square x 1.58 mm Thick</td>
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<tr>
<td>853834.901</td>
<td>Stainless Steel Reference (with data) 12.7 mm Square x 1.58 mm Thick</td>
</tr>
<tr>
<td>853835.901</td>
<td>Stainless Steel Reference (with data) 8 mm OD x 1.58 mm Thick</td>
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<tr>
<td>853836.901</td>
<td>Stainless Steel Reference (with data) 10 mm OD x 1.58 mm Thick</td>
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<tr>
<td>853143.901</td>
<td>Stainless Steel Reference, 12.7 mm OD x 1.58 mm Thick</td>
</tr>
<tr>
<td>853144.901</td>
<td>Stainless Steel Reference, 25.4 mm OD x 1.58 mm Thick</td>
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Thermographite Reference Materials

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<th>Material Description</th>
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<tr>
<td>853805.901</td>
<td>Thermographite Reference (with data) 8 mm Square x 3.175 mm Thick</td>
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<tr>
<td>853137.901</td>
<td>Thermographite Reference, 10 mm square x 3.175 mm Thick</td>
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<tr>
<td>853139.901</td>
<td>Thermographite Reference, 12.7 mm square x 3.175 mm Thick</td>
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<tr>
<td>853837.901</td>
<td>Thermographite Reference (with data) 8 mm OD x 3.175 mm Thick</td>
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<tr>
<td>853136.901</td>
<td>Thermographite Reference, 10 mm OD x 3.175 mm Thick</td>
</tr>
<tr>
<td>853135.901</td>
<td>Thermographite Reference, 12.7 mm OD, 3.175 mm Thick</td>
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<tr>
<td>853142.901</td>
<td>Thermographite Reference, 25.4 mm OD x 3.175 mm Thick</td>
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Laser Flash - Environmental Module Sample Holders

EM-200 Sample Holders

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>117835.001</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 8 mm Diameter, EM-200</td>
</tr>
<tr>
<td>119919.001</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 8 mm Square, EM-200</td>
</tr>
<tr>
<td>119916.001</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 10 mm Diameter, EM-200</td>
</tr>
<tr>
<td>119918.001</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 10 mm Square, EM-200, DXF Only</td>
</tr>
<tr>
<td>110133</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 12.7 mm Diameter, EM-200</td>
</tr>
<tr>
<td>117808.001</td>
<td>Adapter Ring, Aluminum, 25.4 mm Diameter to 12.7 mm Square, EM-200, DXF Only</td>
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</table>

EM-900/1200 Sample Holders

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>853843.001</td>
<td>Sample Holder - Small, Alumina, 8 mm Diameter, EM-900/EM-1200</td>
</tr>
<tr>
<td>853844.001</td>
<td>Sample Holder - Small, Alumina, 8 mm Square, EM-900/EM-1200</td>
</tr>
<tr>
<td>853841.001</td>
<td>Sample Holder - Small, Alumina, 10 mm Diameter, EM-900/EM-1200</td>
</tr>
<tr>
<td>853842.001</td>
<td>Sample Holder - Small, Alumina, 10 mm Square, EM-900/EM-1200</td>
</tr>
<tr>
<td>853441.001</td>
<td>Sample Holder - Small, Alumina, 12.7 mm Diameter, EM-900/EM-1200</td>
</tr>
<tr>
<td>853845.001</td>
<td>Sample Holder - Small, Alumina, 12.7 mm Square, EM-900/EM-1200</td>
</tr>
<tr>
<td>853442.001</td>
<td>Sample Holder - Large, Alumina, 25.4 mm Diameter, EM-900/EM-1200</td>
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EM-1600 Sample Holders

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>116794.001</td>
<td>Adapter Ring, Molybdenum, 8 mm Diameter, EM-1600</td>
</tr>
<tr>
<td>853132.901</td>
<td>Adapter Ring, Molybdenum, 8 mm Square, EM-1600</td>
</tr>
<tr>
<td>116791.001</td>
<td>Adapter Ring, Molybdenum, 10 mm Diameter, EM-1600</td>
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<tr>
<td>116795.001</td>
<td>Adapter Ring, Molybdenum, 10 mm Square, EM-1600 (4 Position Only)</td>
</tr>
<tr>
<td>116790.001</td>
<td>Adapter Ring, Molybdenum, 12.7 mm Diameter, EM-1600</td>
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EM-2800 Sample Holders

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<tr>
<th>Material Code</th>
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<tbody>
<tr>
<td>116797.001</td>
<td>Adapter Ring, Graphite, 8 mm Diameter, EM-2800</td>
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<tr>
<td>116798.001</td>
<td>Adapter Ring, Graphite, 8 mm Square, EM-2800</td>
</tr>
<tr>
<td>116796.001</td>
<td>Adapter Ring, Graphite, 10 mm Diameter, EM-2800</td>
</tr>
</tbody>
</table>
Dilatometer Parts and Accessories (DHD Instruments)

- 855100.901 Protection Tube, Alumina, 0.38” ID x 1.8” L
- 855116.901 Dilatometer Tube, Alumina, DVD-1650
- 855133.901 Dilatometer Tube, Alumina, WorkHorse-II
- 855106.901 Dilatometer Tube, Quartz, DHD-1000
- 855107.901 Dilatometer Tube, Quartz, Unitherm 1101 Standard Tube
- 855108.901 Dilatometer Tube, Quartz, Unitherm 1101 Extra Large Tube
- 855125.901 Dilatometer Tube, Quartz, Quickline-05
- 855132.901 Dilatometer Tube, Graphite, with shield, DVD-2800
- 855101.901 Protection Capsule, 0.38” ID x 2.0” L
- 855102.001 Spacer Rod, Alumina
- 855105.901 Specimen Holder, Quartz, DHD-300
- 855112.901 Reference Holder, Graphite
- 855117.001 Dilatometer Platform, Alumina, DVD-1650
- 855118.901 Dilatometer Push Rod, Alumina, Standard, DVD-1650
- 855134.901 Dilatometer Push Rod, Alumina, WorkHorse-II
- 855122.901 Dilatometer Push Rod, Graphite, DVD-2800
- 855104.901 Dilatometer Push Rod, Quartz, DHD-1000
- 855109.901 Dilatometer Push Rod, Quartz, 1101XL
- 855131.901 Dilatometer Push Rod, Quartz, WorkHorse-I
- 117834 Push Rod Assembly, Quartz, DHD-300
- 106966 Push Rod Assembly, Quartz, DHD-1100
- 855114.001 Protection Plate, Alumina, 4.6 mm OD
- 855113.001 Protection Plate, Alumina, 6.35 mm OD
- 855115.001 Protection Plate, Alumina, 12.7 mm OD
- 855103.001 Protection Plate, Alumina, 12.7 mm Square
- 855128.901 Crystallox Reference, 25.4 mm long
- 855129.901 Crystallox Reference, 50.8 mm long
- 855170.001 Aluminum Reference, 25 mm x 75 mm x 3 mm: for use in the DHD-300
- 855169.001 Thermographite Reference, 50.8 mm Length
- 855119.901 Anti-Siphon Exit Exhaust Bubbler

Thermal Conductivity Parts and Accessories (DTC Instruments)

- 854135.001 Heat Transfer Compound, Jar, DTC-25 / DTC-300
- 854100.901 Paste Cell, 50.8 mm OD, DTC-25 / DTC-300
- 854101.901 Liquid Cell, 50.8 mm OD, DTC-25 / DTC-300
- 854154.901 Liquid Cell Seal Kit (pkg. of 4): for use in the DTC-300 Thermal Conductivity Meter

Thermal Conductivity Chiller / Circulator

- 202610.001 Chiller / Circulator, 6L Reservoir, 120VAC: for use with the DTC-25 Thermal Conductivity Meter
- 202611.001 Chiller / Circulator, 6L Reservoir, 240VAC: for use with the DTC-25 Thermal Conductivity Meter
- 202612.001 Chiller / Circulator, 13L Reservoir, 120VAC: for use with the DTC-300 Thermal Conductivity Meter
- 202442.001 Chiller / Circulator, 13L Reservoir, 240VAC: for use with the DTC-300 Thermal Conductivity Meter

Thermal Conductivity Stack Modules

- 854108.901 Stack Module, Low Range, 0.0005 - 0.01 m2*K/W
- 854266.901 Stack Module, Mid-Range, 0.002 - 0.02 m2*K/W
- 854111.901 Stack Module, High Range, 0.01 - 0.05 m2*K/W

Thermal Conductivity Reference Materials

- 854122.901 Stainless Steel Reference, 25.4 mm OD x 3.175 mm Thick
- 854121.901 Stainless Steel Reference, 25.4 mm OD x 6.35 mm Thick
- 854120.901 Stainless Steel Reference, 25.4 mm OD x 12.7 mm Thick
- 854119.901 Stainless Steel Reference, 50.8 mm OD x 6.35 mm Thick
- 854118.901 Stainless Steel Reference, 50.8 mm OD x 12.7 mm Thick
- 854117.901 Stainless Steel Reference, 50.8 mm OD x 19.05 mm Thick
- 854114.901 Stainless Steel Reference, 50.8 mm OD x 15.88 mm Thick
- 854115.901 Stainless Steel Reference, 50.8 mm OD x 25.4 mm Thick
### Thermal Conductivity Vespel Reference Materials

<table>
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<tr>
<th>Reference</th>
<th>Description</th>
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<tbody>
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<td>854130.901</td>
<td>Vespel Reference (with data), 25.4 mm square x 6.35 mm Thick</td>
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<tr>
<td>854150.001</td>
<td>Vespel Reference (with data), 50.8 mm OD x 2.54 mm Thick</td>
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<tr>
<td>854131.901</td>
<td>Vespel Reference (with data), 50.8 mm OD x 3.175 mm Thick</td>
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<tr>
<td>854151.001</td>
<td>Vespel Reference (with data), 50.8 mm OD x 4.76 mm Thick</td>
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<tr>
<td>854129.901</td>
<td>Vespel Reference (with data), 50.8 mm OD x 6.35 mm Thick</td>
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<td>854132.901</td>
<td>Vespel Reference (with data), 50.8 mm OD x 9.525 mm Thick</td>
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<td>854152.001</td>
<td>Vespel Reference, 50.8 mm OD x 12.7 mm Thick</td>
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### Dilatometers - DIL Instruments - System Components

<table>
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<tr>
<th>Reference</th>
<th>Description</th>
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<tbody>
<tr>
<td>863306.901</td>
<td>Induction Coil for DIL805 (16 mm)</td>
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<tr>
<td>862302.901</td>
<td>Induction Coil for DIL805 (40 mm)</td>
</tr>
<tr>
<td>863302.901</td>
<td>Induction Coil for DIL805 Tension (20 mm)</td>
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<tr>
<td>863303.901</td>
<td>Induction Coil for 805DSC (22 mm)</td>
</tr>
<tr>
<td>863299.901</td>
<td>Induction Coil for Flat Samples for DIL805T (27 mm)</td>
</tr>
<tr>
<td>863498.901</td>
<td>Induction Coil for DIL805A (diameter = 7 mm; height = 67 mm; teflon coated frame)</td>
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<tr>
<td>863311.901</td>
<td>Induction Coil for STD810</td>
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<tr>
<td>863305.901</td>
<td>DIL805A Alpha Measuring Head</td>
</tr>
<tr>
<td>863307.901</td>
<td>Feed Through Adapter for Low Temperature DIL805</td>
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<tr>
<td>863314.901</td>
<td>Dilatometer Measuring System DIL803L (Fused Silica, Type K)</td>
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<td>863315.901</td>
<td>Dilatometer Measuring System DIL803L (Fused Silica, Type S)</td>
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<td>863316.901</td>
<td>Dilatometer Measuring System DIL803L (Al2O3, Type S)</td>
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<td>Dilatometer Measuring System DIL801L (Al2O3, Type B)</td>
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<td>Dilatometer Measuring System DIL802L (Al2O3, Type B)</td>
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<td>Dilatometer Measuring System DIL802L (Fused Silica, Type K)</td>
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<td>Dilatometer Measuring System DIL801 (Fused Silica, Type K)</td>
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<td>863327.901</td>
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<td>Dilatometer Measuring System DIL803 (Fused Silica, Type K)</td>
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<td>863336.901</td>
<td>Dilatometer Measuring System DIL803 (Fused Silica, Type S)</td>
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<td>Dilatometer Measuring System DIL803 (Al2O3, Pt/Rh 10 % - Pt (S))</td>
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<td>863338.901</td>
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<td>863411.901</td>
<td>Dilatometer Measuring System DIL811 Dynamic (Al2O3, Type S)</td>
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<td>Sample Platform made of Fused Silica for DIL806 (Type S)</td>
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<td>Sample Platform made of Aluminum Oxide for DIL806 (Type S)</td>
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<td>Furnace 1500 °C for DIL</td>
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<td>Furnace -150 °C up to 600 °C (Inert Gas, Vacuum) for DIL806</td>
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<td>Furnace -190 °C up to 700°C for DIL</td>
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863279.901 Furnace 2300 °C for DIL811 for Integrated Protection Tube
863377.901 Dewar for LN2 0.5 bar
863378.001 Dewar for LN2 (Tank Only)
863380.901 Circulation Thermostat
863381.901 Circulating Cooler
863396.001 Heating Ring Mo for DIL 805A
863397.001 Heating Ring PtRh for DIL805
863398.001 Thermocouple Type C for Graphite Furnace for DIL
863399.901 Dilatometer Measuring System for DIL801 (Graphite, 2300 °C)
863401.901 805A Alpha Measuring System (Type K)
863404.001 Graphite Furnace Thermocouple Type C
863446.001 Opposite Support for DIL805A
863449.001 Transmission Rod Short Fused Silica for DIL802
863485.001 Transmission Rod made of Al2O3 Short for DIL802 (Length = 367 mm, Diameter = 3 mm)
863486.001 Transmission Rod made of Al2O3 Long for DIL802 (Length = 384 mm, Diameter = 3 mm)
863487.001 Transmission Rod made of Sapphire Short for DIL802 (Length = 367 mm, Diameter = 3 mm)
863488.001 Transmission Rod made of Sapphire Long for DIL802 (Length = 384 mm, Diameter = 3 mm)
863495.901 Measuring System for DIL811 Dynamic Al2O3 Type B Diameter 10 mm
863497.901 Measuring System for DIL811 Graphite
863499.001 Standard Reference Material (with Certificate of Measurement) - Sapphire for DIL - 10 mm (Not for use with DIL805A/D or DIL805L)
863500.001 Standard Reference Material (with Certificate of Measurement) - Sapphire for DIL - 25 mm (Not for use with DIL805A/D or DIL805L)
863292.901 Spot Welding Fixture for Molybdenum Disks for DIL805
863275.003 Standard Reference Material (with Certificate of Measurement) - Sapphire for DIL - 30 mm (Not for use with DIL805A/D or DIL805L)
863382.901 Standard Reference Material - Borosilicate Glass for DIL
863405.901 DIL Reference Material - Fused Silica
863406.901 DIL805 Reference Material - Platinum
863407.901 DIL806 Reference Material - Sapphire 10 mm
863409.901 DIL Reference Material - Sapphire 50 mm
202584.001 Deformation Punch Right Al2O3
202585.001 Deformation Punch Left Al2O3
202702.001 Deformation Punch Right Fused Silica
202703.001 Deformation Punch Left Si3Ni4
863274.001 Sample Holder Fused Silica for DIL801/802/803 and DIL801L/802L/803L (ID = 16 mm; Length = 350 mm)
863276.001 Transmission Rod Short Fused Silica for DIL801L
863277.001 Transmission Rod Long Fused Silica for DIL801/802/803
863273.001 Sample Support for Fused Silica Sample Holder ID = 16 mm
863508.001 Sample Support for Fused Silica Sample Holder for DIL801/802/803 (for use with square samples 4 mm on edge)
863265.001 Transmission Rod Fused Silica for DIL805T
863266.001 Transmission Rod Al2O3 for DIL805T
863267.001 Spacer Ring for DIL805T (for 9 mm tension tests)
863413.001 Opposite Support Holder Fused Silica for DIL805
863414.001 Transmission Rod w/Hole Fused Silica for DIL805
863415.001 Opposite Support Length 64 mm for DIL805
863420.001 Transmission Rod w/Hole Gas Fused Silica for DIL805
863421.001 Transmission Rod Long Fused Silica for DIL805
863422.001 Opposite Support Fused Silica for DIL805
863426.001 Transmission Rod w/Hole Gas Al2O3 for DIL805
863427.001 Transmission Rod Long Al2O3 for DIL805
863428.001 Opposite Support Al2O3 for DIL805
863261.001 Molybdenum Disk for DIL805 (Dia. = 8mm; Thickness = 0.1 mm)
863262.001 Molybdenum Disk for DIL805 (Dia. = 8mm; Thickness = 0.1 mm)
863262.001 Transmission Rod Al2O3 DIL805
(Length = 145 mm; OD = 4 mm; ID = 2 mm)

863263.001 Opposite Support Al2O3 DIL805
(Length = 64 mm; OD = 4 mm; ID = 2 mm)

863454.001 Sample Holder Al2O3 (ID = 14 mm) for use in DIL801 and 801L; DIL802 and 802L; DIL803 and 803L

863455.001 Transmission Rod Al2O3 (Length = 384 mm) for use in DIL801/802/803; Dia. = 4 mm

863456.001 End Plate for Sample Holder Al2O3 for use in DIL 801 and 801L; DIL802 and 802L; DIL803 and 803L

863457.001 Sample Support for Al2O3 Sample Holder (Sample Holder ID = 12 mm) for use in DIL801, DIL802, DIL803

863458.001 Transmission Rod Al2O3; Length = 367 mm; Dia. = 4 mm: for use in DIL802

863459.001 Sample Holder, Graphite, Maximum Temperature = 2300°C: for use in DIL801 and DIL802

863460.001 Transmission Rod, Glassy Carbon, for DIL801 and DIL802 (Length = 384 mm; Dia. = 4 mm)

863461.001 Transmission Rod, Glassy Carbon, for DIL802 only (Length = 367 mm; Dia. = 4 mm)

863462.001 End Plate for Sample Holder, Graphite: for DIL801 and DIL802

863463.001 Convection-Protection Tube, Fused Silica: for DIL801L, DIL802L, and DIL803L

863464.001 Transmission Rod, Al2O3; Length = 345 mm; Dia. = 4mm: for use in DIL801L, DIL802L, and DIL803L

863465.001 Transmission Rod, Fused Silica; Length = 328 mm; Dia. = 4mm: for use in the DIL802L only

863466.001 Transmission Rod, Al2O3; Length = 328 mm; Dia. = 4mm: for use in the DIL802L only

863467.001 Sample Support Plate, Fused Silica for DIL806 (19.5 x 11 x 2 mm)

863468.001 Fused Silica Rod for Sample Support for DIL806 (Dia. = 2 mm)

863471.001 Sample Support Plate Al2O3 for DIL806 (19.5 x 11 x 2 mm)

863472.001 Al2O3 Rod for Sample Support for DIL806 (Dia. = 2 mm)

863492.001 Protection Disc for Dil. Al2O3 (Dia. = 4 mm)

863493.001 Protection Disc for Dil. Al2O3 (Dia. = 6 mm)

863494.001 Fiber Glass Sleevings (ID = 1 mm; Length = 5 m) for DIL805

863495.001 Fiber Glass Sleevings (ID = 0.25 mm; Length = 2.5 m) for DIL805

863496.001 Opposite Support with Clamping Tube for DIL805 (Fused Silica; Dia. = 2 mm)

863497.001 Transmission Rod (Right) for DIL805

863499.001 Sample Holder Al2O3 for DIL801L

863500.001 Transmission Rod Al2O3 for DIL801L

863502.001 Sample Support for DIL801L

863503.001 Sample Support (M7) Right for DIL805T

863504.001 Sample Support (M7) Left for DIL805T

863505.001 Transmission Rod Fused Silica Short for DIL805A (OD = 2 mm): Length = 126.5 mm; OD = 2 mm

863506.001 Opposite Support Fused Silica with Clamping Tube for DIL805A

863507.001 Dilatometer Protection Tube for DIL801/802/803: (ID = 28mm; Length = 354 mm)

863509.001 Protection Tube Al2O3 (ID = 21 mm; OD = 24 mm; Length = 336 mm) for TMA801

863510.001 Sample Holder Al2O3 with Slot for Thermocouple (ID = 12 mm) for TMA801

863525.001 Transmission Rod Fused Silica for DIL805A (Dia. = 2 mm; Length = 138 mm)

863526.001 Dilatometer Measuring System DIL803L (Al2O3) (Diameter = 20 mm)

863527.001 Sample Holder Al2O3 for DIL80X (Diameter = 20 mm; Length = 350 mm)

863528.001 Endplate for Al2O3 Sample Holder (Diameter = 20 mm)

863529.001 Sample Support for Al2O3 Sample Holder (Diameter = 20 mm)

863530.001 Induction Coil for DIL805DSC (Dia. = 22 mm; Height = 82 mm; Length = 50 mm) (for DIL805 instruments S/N: 6926 and above)

863531.001 Induction Coil for DIL805A Optic (Dia. = 16 mm; Height = 82 mm; Length = 30 mm) (for DIL805 instruments S/N: 6926 and above)

863532.001 Induction Coil for DIL805D Optic (Dia. = 16 mm; Height = 82 mm; Length = 30 mm) (for DIL805 instruments S/N: 6926 and above)

863533.001 Induction Coil for DIL805T Optic (Dia. = 20 mm; Height = 82 mm; Length = 30 mm) (for DIL805 instruments S/N: 6926 and above)

863534.001 Induction Coil for DIL805 Alpha Optic (Dia. = 16 mm; Height = 75 mm; Length = 30 mm) (for DIL805 instruments S/N: 6926 and above)

863535.001 Induction Coil for DIL805 (Dia. = 16 mm; Height = 67 mm; Length = 30 mm) (for DIL805 instruments up to S/N: 6925)
863536.001 Induction Coil for DIL805T
(Dia. = 20 mm; Height = 67 mm; Length = 30 mm)
(for DIL805 instruments up to S/N: 6925)

863537.001 Induction Coil for DIL805A Teflon
(Dia. = 7 mm; Height = 67 mm; Length = 30 mm)
(for DIL805 instruments up to S/N: 6925)

863538.001 Induction Coil for DIL805HP
(Dia. = 20 mm; Height = 67 mm; Length = 35 mm)
(for DIL805 instruments up to S/N: 6925)

863539.001 Induction Coil for DIL805DSC
(Dia. = 22 mm; Height = 90 mm; Length = 50 mm)
(for DIL805 instruments up to S/N: 6925)

863540.901 Measuring System DIL805A Fused Silica Sub-Zero Type K
(for DIL instruments up to S/N: 6925)

863541.001 Transmission Rod DIL805A Fused Silica
(Dia. = 4 mm; Length = 133.5 mm)
(for DIL805 instruments up to S/N: 6925)

863542.001 Transmission Rod DIL805A Fused Silica
(Dia. = 4 mm; Length = 163.5 mm)
(for DIL805 instruments up to S/N: 6925)

863543.001 Opposite Support Fused Silica DIL805A
(Dia. = 4 mm; Length = 63.5 mm; Hose Connector)
(for DIL805 instruments up to S/N: 6925)

Simultaneous Thermal Analyzer - STA Instruments - System Components

864220.901 STA 504 Measuring System (6 mm, Type S)
864221.901 STA 504 Measuring System (6 mm, Type B)
864222.901 STA 504 Measuring System (Aluminum Oxide, Type K)
864224.901 STA 504 Measuring System (9 mm, Type S)
864225.901 TGA 504 Measuring System (17 mm, Type S)
864124.901 STA 504 TG Measuring System (9 mm, Type S)
864303.001 Crucible for STA/TGA 504 (OD = 17 mm; Height = 10 mm)
864304.001 Crucible for STA/TGA 504 (OD = 9 mm; Height = 10 mm)
864305.001 Crucible for STA/DTA AI2O3 (Height = 2.5 mm; OD = 6 mm)
864305.002 Crucible for STA/DTA AI2O3 (Height = 5 mm)
864305.003 Crucible for STA/DTA AI2O3 (Height = 7.5 mm)
864306.001 Crucible for STA/DTA Platinum (Height = 2 mm)
864306.002 Crucible for STA/DTA Platinum (Height = 3.5 mm)
864306.003 Crucible for STA/DTA Platinum (Height = 5 mm; OD = 9 mm)
864306.004 Crucible for STA/DTA Platinum (Height = 10 mm; OD = 9 mm)
864307.001 Crucible Lid AI2O3 (for Crucible OD = 6 mm)
864307.002 Crucible Lid with Hole AI2O3 (for Crucible OD = 6mm)
864307.003 Crucible Lid AI2O3 (for Crucible OD = 9 mm)
864308.001 Crucible Lid Platinum (for Crucible OD = 6 mm)
864308.002 Crucible Lid Platinum (for Crucible OD = 9 mm)
864219.901 DTA/DSC Measuring System (block sensor) for STA504
864106.901 Aluminum Crucible with Lid (100 pcs.) for STA503
864107.901 STA503 Measuring System Sapphire (6 mm, Type B)
864108.901 STA503 Measuring System AI2O3 (6 mm, Type S)
864301.901 STA and DTA Reference Material (128 - 430 °C)
864302.901 STA and DTA Reference Material (156 - 1064 °C)

Viscometer - VIS Instruments- System Components

862305.901 Rotation Viscometer Measuring System VIS403 (Rotor 9 mm)
863400.001 Holder for Measuring Crucible for VIS403
862332.901 Rotation Viscometer Measuring System VIS403HF (Rotor 9 mm)
862900.901 Beam Bending VIS401 Measuring System
862901.901 Upper Bending Beam Complete VIS401
862902.901 Lower Bending Beam Complete VIS401
862904.001 Sample Support without Center Notch VIS401
862905.001 Upper Bending Beam VIS401 (Fused Silica)
862906.001 Lower Bending Beam VIS401 (Fused Silica)
862911.001 Measuring Crucible PtRh 80/20 for VIS403HF
862912.001 Rotor PtRh 70/30 for VIS403 and VIS403HF
862915.001 Holder (AI2O3) for Measuring Crucible for VIS403
862916.001 Measuring Crucible PtAu5-DPH for VIS403
(dia. = 23 mm; height = 55 mm)
862334.901 VIS403 Reference Material - Lime Soda Glass
862335.901 VIS403 Reference Material - Borosilicate Glass

Thermophysical Computer / Printer

202568.001 Thermophysical Computer for DIL, STA, and VIS Instruments
202567.001 HP DeskJet 1000 Printer
113996.901 Thermophysical Computer for DLF, DXF, DHD, DTC, DVD Instruments