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TA Instruments

Thermal Analysis, Microcalorimetry, and Rheology Accessories, Parts, & Consumables

Price List

Effective January, 2009

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Thermal Analyzers
Q Series® 2
29XX Series 15

Microcalorimeters
TAM Calorimeters 20
Nano Calorimeters 26

Rheometers
ARES Rheometers 30
AR Rheology 37
RSA III 57







Thermal Analysis

Q Series™ DSC Accessories

970800.901	Pressure DSC Cell Note: For use with the Q2000 / Q20P and Q1000 / Q10P models. It provides heat flow measurements at pressures from 1 Pa to 7 Pa.
970814.901	Q Series PDSC Cell Shipping Accessory Kit Note: For use with PDSC Cell and Q2000 / Q1000 DSC.
900674.901	DSC Quench Cooling Accessory Note: For quench cooling of PDSC to -150°C using liquid nitrogen.
901600.901	Tzero™ Sample Press 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).
935000.902	Photocalorimeter Accessory (PCA) with External Filter Adapter Note: For use with the Q2000 / Q200 DSC modules to provide photocuring studies between -50 and 250°C. Includes a 320 - 480 nm external filter.
915064.901	MDSC® Thermal Conductivity Kit

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 Note: Assists FACS in rapid cooling of Q Series DSC Cell to ambient temperature.
972259.901	CCS Cooling System Note: For programmed cooling of Q2000 Series DSC modules from 500 to -15°C.
970470.901	Recirculator (120V)
970471.901	Recirculator (240V)
970008.901	Refrigerated Cooling System (RCS90): 115V, 60Hz Note: For programmed or quench cooling of the Q Series DSC cells over the temperature range from 550 to -90°C. Sealed refrigeration system does not require liquid nitrogen.
970008.902	Refrigerated Cooling System (RCS): 230V, 50Hz. See above comments.
970508.901	Refrigerated Cooling System (RCS40): 115V, 60Hz Note: For programmed or quench cooling of the Q Series DSC cells over the temperature range from 400 to -40°C. Sealed refrigeration system does not require liquid nitrogen. Requires a DSC with QNX module software.
970508.902	Refrigerated Cooling System (RCS40): 230V, 50Hz. See above comments.

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. It 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:
970442.001	Inner Manual Lid
970283.001	Outer 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.

970020.901	User Replacement Cell for Q2000 / Q1000 DSC
970520.901	Replacement Cell for Q200 / Q20 / AQ20 / Q100 / Q10 DSC modules Note: Requires separately priced installation by a TA Field Service Engineer.
970020.982	Remanufactured Q2000 / Q1000 User Replacement Cell - As Available
970520.982	Remanufactured Q200 / Q20 / AQ20 / Q100 / Q10 Cell - As available. Note: Requires separately priced installation by a TA Field Service Engineer.

Q Series DSC Field Upgrades

970003.901	Mass Flow Controller Upgrade Kit for Q100 / Q10 DSC Note: Includes Field Service Installation.
970004.901	MDSC® Upgrade Kit for Q200 / Q100 DSC
971000.901	Autosampler Upgrade Kit for Q200 / Q100 DSC Note: Includes Field Service Installation.
970777.901	Q2000 / Q200 Upgrade Kit 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 models may also need an upgrade of the Single Board Computer (SBC). Contact your TA Field Service Engineer for information.

Q Series DSC Accessory and Upgrade Kits

970011.901	Accessory Kit, DSC Q2000 / Q200 (supplied with Q2000 / Q200 modules)
970011.902	Accessory Kit, DSC Q20 (supplied with the Q20 module)
970011.903	Accessory Kit, DSC AQ20 (supplied with the AQ20 module)
970830.901	DSC Autolid II Upgrade Kit (optional field service installation recommended)
	Replacement items for the Q Series DSC Autolid II Note: Assembly of parts may require TA Service assistance.
970442-001	Inner Manual Lid
970464.001	Outer Lid
970441.001	Lift Rod
	Miscellaneous Accessories
971126.901	DSC Autosampler Tray

DSC Sample Encapsulation

901600.901	Tzero™ Sample Press 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).
901608.901	Replacement Standard Die Set
901608.902	Replacement Hermetic Die Set
901608.903	Replacement Tzero Die Set
901608.904	Replacement Tzero Hermetic Die Set
901608.905	DSC High Volume Die Set

Standard Series (29XX) DSC Sample Press Replacement Parts

900530.901	Upper Crimping Die Set Assembly
900752.901	Lower Crimping Die Assembly
900719.001	Preforming Tool, for sealing Hermetic Pans (Blue Press)
258825.000	Spring for Lower Crimping Die
900720.000	Die, Hermetic Sealing

Tzero Series DSC Sample Pans and Lids

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

901670.901	Tzero Low-Mass Pans (pkg of 100)
901671.901	Tzero Lids (pkg of 100)
901683.901	Tzero Pans (pkg of 100)
901684.901	Tzero Hermetic Lids (pkg of 100)

901685.901	Tzero Hermetic Pinhole Lid (75 micron DIA) (pkg of 50)
901697.901	Tzero Alodined Pans (pkg of 100)
901698.901	Tzero Hermetic Alodined Lids (pkg of 100)

Standard Series DSC Sample Pans and Lids

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

900578.901	Platinum Pans (pkg of 10)
900786.901	Aluminum Pans* (pkg of 200)
900779.901	Aluminum Lids* (pkg of 200)
900793.901	Aluminum Pans*, Hermetic (pkg of 200)
900794.901	Aluminum Lids*, Hermetic (pkg of 200)
900808.901	High Pressure Pan Kit
	Note: Includes metal bell jar and lid, crimping tool, 5 reusable stainless steel capsules, and 20 seals.
900814.901	High Pressure Capsule Seals (pkg of 20)
900815.901	High Pressure Capsules (pkg of 5)
900825.901	High Volume Pan Kit
	Note: Includes metal bell jar and lid, high volume die sets for Tzero and older Standard Press plus 100 pans, lids, and seals.
900824.901	High Volume Die Set (for Standard DSC Press)
900825.902	High Volume Pans, Lids and Seals (pkg of 100)
900860.901	Hermetic Lids with Pin Hole (pkg of 50)
900796.901	Coated Aluminum Pans*, Hermetic (pkg of 200)
900790.901	Coated Aluminum Lids*, Hermetic (pkg of 200)
900870.901	Aluminum Pans for SFI Samples (pkg of 200)
900866.901	Gold Pans* (pkg of 10)
900868.901	Gold Lids* (pkg of 10)
900871.901	Gold Pans, Hermetic* (pkg of 10)
900872.901	Gold Lids, Hermetic* (pkg of 10)
900867.901	Copper Pans (pkg of 200)
900874.901	Graphite Pans (pkg of 10)
900873.901	Graphite Lids (pkg of 10)

DSC Calibration Materials

970345.901	Kit, Tzero Calibration, Sapphire
970370.901	Sapphire, MDSC Calibration
915060.901	DSC / DTA Certified Temperature Calibration Kit
915061.901	Replacement Certified Indium Reference Material (for P/N: 915060.901 kit)
900910.901	Tin Calibration Material

900902.901	Indium Calibration Material
900907.901	Zinc Calibration Material
915079.901	Sapphire Specific Heat Material (0.16 inch OD x 0.020 inch thick, for standard pans)
915079.902	Sapphire Specific Heat Material (0.13 inch OD x 0.020 inch thick, for hermetic pans)
915079.903	Sapphire Specific Heat Material (0.187 inch OD x 0.034 inch thick, for standard pans)
899096.901	Anisic Acid (1 g) (a certified temperature calibration material)
899097.901	Biphenyl (1 g) (a certified temperature calibration material)
970489.901	Adamantane (a certified temperature and enthalpy calibration material)
900319.901	Kit, DSC Oxidative Stability Calibration

Q Series DSC Photocalorimeter Accessories and Parts

935012.002	Dual Quartz Light Guide for PCA (-50 to 250°C operation) Note: Requires RCS or CCS for subambient use.
935012.001	Dual Liquid Light Guide for PCA (-50 to 80°C operation) Note: Requires RCS or CCS for subambient use.
935002.902	PCA Accessory Kit (replacement only) Note: TA supplied items required for photocalorimeter operation by customer who already has, or will separately obtain, the Novacure 2100 analyzer and appropriate dual light guide.
935002.903	PCA Accessory Kit (replacement only) Note: TA supplied items required for photocalorimeter operation by customer who already has, or will separately obtain, the Omnicure S-2000 analyzer and appropriate dual light guide.
200700.001	Radiometer (R2000) (for use with the Omnicure S-2000)
935017.001	External Filter Adapter (for the Omnicure S-2000)
935009.006	Filter, External, 250 - 450 nm (for the Omnicure S-2000 with external filter adapter)
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)
935009.004	Filter, External, 400 - 500 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)
935009.005	Blank Filter Holder (for the Omnicure S-2000 with external filter adapter)
935006.005	Filter, Internal, 250 - 450 nm (for use with the Omnicure S-2000)
935006.008	Filter, Internal, 320 - 500 nm (for use with the Omnicure S-2000)
935006.007	Filter, Internal, 320 - 390 nm (for use with the Omnicure S-2000)
935006.006	Filter, Internal, 400 - 500 nm (for use with the Omnicure S-2000)
935006.004	Filter, Internal, 365 nm (for the Omnicure S-2000)
935006.002	Filter, Internal, 250 - 450 nm (for the Novacure 2100)
935006.001	Filter, Internal, 320 - 500 nm (for the Novacure 2100)
935013.001	Air Filter Kit (pkg of 10)
935018.901	Filter, Longpass, 390 nm (pkg of 2)

935019.901	Filter, Longpass, 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)

TGA Q5000 IR Accessories

901600.901	Tzero Sample Press Kit Note: For sealing of Q5000 IR aluminum pans / lids as defined below; requires kit P/N: 957352.901 and Die Set TGA P/N: 957540.901.
957352.901	Aluminum Sealed Pan Kit Note: Consists of 100 pans; 100 lids, 30 bails, punch alignment tool; dies for use with the Tzero and older standard press.
957540.901	Die Set TGA Note: For use with the Tzero Press and the Sealed Aluminum Pan Kit P/N: 957352.901.
957349.901	TGA / MS Interface Kit
957468.901	TGA / FTIR Adapter Kit
957011.901	Replacement Accessory Kit, Q5000 IR
920307.901	Dual Trigger Cable, MS / FTIR to QTGA
957574.901	Dual MS / FTIR Interface Kit for Q5000IR

TGA Q5000 IR Sample Pans

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 Pan Quartz (pkg of 3) (requires Autosampler Tray P/N: 957216.901)

TGA Q5000 IR Replacement Parts

957050.901	Q5000 Infrared Furnace
957050.982	Q5000 Infrared Furnace, Exchange
957050.980	Q5000 Infrared Furnace, CFRO
957099.901	Tray Autosampler TGA
957216.901	Tray Autosampler (standard with Q5000 SA; option for Q5000 IR with Quartz Crucibles)

957515.901	Loop Decoupler Kit
953160.901	Heat Exchanger
952377.901	Heat Exchanger Conditioning Kit
952394.901	Sample Nickel Wire (not Certified)
900905.901	Calcium Oxalate Monohydrate
957082.901	Hook Hangdown
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)

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 , Q5000SA

TGA Q5000 SA Sample Pans

957210.902	Kit Sample Pan Quartz (pkg of 3)
957210.903	Kit Sample Pan Quartz - Metal Coated (pkg of 3)
957207.903	Platinum Sample Pans, 50 µL (pkg of 3) Note: Requires P/N: 957099.901 (see below) for use with Q5000 SA.
957207.904	Platinum Sample Pans, 100 µL (pkg of 3) Note: Requires P/N: 957099.901 (see below) for use with Q5000 SA.

TGA Q5000 SA Replacement Parts

957216.901	Tray Autosampler Humidity Chamber - 10 position
957099.901	Tray Autosampler TGA - 25 position (required for use with Platinum or Aluminum Pans)
957515.901	Loop Decoupler Kit
957082.901	Hook Hangdown
953160.901	Heat Exchanger
952377.901	Heat Exchanger Conditioning Kit
957381.003	Tube Load Q5000 SA Sample / Reference
957156.901	Replacement Sensor Kit for Humidity Chamber
957400.901	TGA Cal Set (Calibrated) (for Q5000 IR and Q5000 SA)

Common Consummables for TGA-HP and VTI-SA Sorption Analyzers

810026.001	Quartz Sample Holder (diameter = 12 mm) (for use with TGA-HP and VTI-SA)
810027.001	Quartz Sample Holder (flat bottom) (diameter = 12 mm) (for use with the TGA-HP and VTI-SA)
810028.001	Aluminum Round Sample Holder (diameter = 12 mm; height = 5 mm) (for use with TGA-HP and VTI-SA)
810028.002	Aluminum Round Sample Holder (diameter = 25 mm; height = 5 mm) (for use with VTI-SA)
810029.001	Permeation Cell (diameter = 10 mm; height = 10 mm) (for use with VTI-SA)

Common Consummables for Previous Generation VTI Instruments

810031.001	Sample Holder 2cc (for use with the HPVA-1000)

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 / MS Interface Kit
957481.901	Event Cable, FTIR

TGA Q500 / Q50 Sample Pans

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	Wire Hangdown Tare (without tare tube) - used in latest TGA Q500 / Q50
952110.001	Tube, Hangdown Wire
952256.901	Kapton® Hangdown Loop (strip of 10)
953208.901	Sample Thermocouple
952240.901	Auto TGA Q500 Multiple Sample Tray Kit
952357.901	Furnace Tube (quartz) with Seal Kit and Instructions
953032.901	Replacement TGA Q500 / Q50 Furnace
953032.980	TGA Q500 / Q50 Damaged Furnace
953160.901	Heat Exchanger, TGA Q500 / Q50
952377.901	Conditioning Kit, TGA Q500 / Q50 Heat Exchanger

TGA Q5000 / Q500 / Q50 / 2950 / 2050
SDT Q600 / 2960 Calibration and Test Materials

952541.902	TGA / SDT ICTAC Curie Point Reference Materials Kit for Q5000 IR Note: Includes 0.5 g each of the six ICTAC certified material listed below.
952541.901	TGA / SDT ICTAC Curie Point Reference Materials Kit Note: Includes 0.5 g each of the six ICTAC certified material 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 g 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)
269931.001	100 mg Class 1 Precision Weight for TGA Weight Calibration
269931.002	1 g Class E2 Precision Weight for TGA Weight Calibration
900905.901	Calcium Oxalate

SDT Q600 Accessories and Upgrades

271001.002	SDT Q600 / MS Interface Kit
957481.901	Event Cable, FTIR

SDT Q600 / 2960 Sample Pans

960070.901	Alumina Sample Cups; 90 µL (pkg of 3)
960072.901	Alumina Sample Cups; 40 µL (pkg of 3)
960148.901	Platinum Sample Cups; 40 µL (pkg of 3)
960149.901	Platinum Sample Cups; 110 µL (pkg of 3)
960239.901	Alumina Lids; (pkg of 3) (for use with P/N: 960070.901)

SDT Q600 Replacement Parts

961011.901	Accessory Kit SDT Q600 (supplied with the SDT Q600 module)
960017.901	Dual Beam Thermocouple Kit, SDT Q600
270198.015	O-ring, Furnace Tube
960014.901	Calibration Weights Set
960059.001	Contact Thermocouple Wire
961020.901	SDT Q600 Furnace
961020.980	SDT Q600 Furnace

TMA Q400 / 400EM Accessories and Upgrade Kits

945300.901	Mechanical Cooling Accessory MCA 70 (115V) Note: For programmed or quench cooling of the Q400 / Q400 EM over temperature range 400 to -70°C. Sealed refrigeration system does not require liquid nitrogen.
945300.902	Mechanical Cooling Accessory MCA 70 (230V) Note: For programmed or quench cooling of the Q400 / Q400 EM over temperature range 400 to -70°C. Sealed refrigeration system does not require liquid nitrogen.
945050.901	TMA Film / Fiber Accessory Kit Note: Consists of film / fiber sample stage, film / fiber probe assembly, vial of cleaved aluminum balls, film clamp assemblies, film clamp fixture, jeweller's screwdriver and film clamp screws.
944202.901	Dilatometer Accessory Kit Note: Consists of dilatometer probe assembly, three dilatometer sample vials, two vials of filling medium, and a vial of aluminum calibration standard.
944203.902	Flexure Accessory Kit (for Q400 use; supplied with Q400EM) Note: Includes flexure probe assembly, flexure sample platform, and phase calibration fixture.
944204.901	Parallel Plate Rheometer Accessory Kit Note: Consists of rheometer sample-forming die set, three rheometer alignment cages, and six rheometer parallel plates.

270134.001	Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min) of earlier TMA Q400 / Q400 EM without mass flow control.
944200.901	Accessory Kit Q400 (supplied with Q400 / Q400EM modules) Note: The Flexure Accessory Kit (P/N: 944203;901) is also supplied with the Q400 EM; a customer wanting to replace the entire Q400 EM Accessory Kit must purchase P/N: 945250.901 and P/N: 945203.902.
945250.901	Upgrade Kit Q400 to Q400EM (includes Flexure Accessory Kit P/N: 944203.902)

TMA Q400 / 400EM Replacement Parts

944120.901	Sample Stage
944122.901	Expansion Probe Assembly
944123.901	Macro-expansion Probe Assembly
944124.901	Dilatometer Probe Assembly
941143.000	Dilatometer Sample Vial
944125.901	Hemispherical Probe Assembly
944126.901	Penetration Probe Assembly
944127.901	Flexure Probe Assembly
945045.901	3-Point Bend Calibration Fixture
941054.000	Platform Flexure
944121.901	Film / Fiber Sample Holder
945051.901	Film / Fiber Probe Assembly
945052.901	Film / Fiber Upper Clamp
945053.901	Film / Fiber Lower Clamp
945054.001	Film Clamp Fixture
944330.901	Film Clamp Screws #0-80 (pkg of 10)
941038.901	Vial of Cleaved Aluminum Balls
941148.901	Filling Medium - Dilatometer Vial
944341.901	Protective Quartz for Sample Stage (pkg of 20)
944344.902	Thermocouple, TMA Kit

TMA Q400 / 400EM / 2940 Calibration Materials

915061.901	Replacement Certified Indium Reference Material
944206.901	TMA Certified Temperature and Dimension Calibration Kit
944217.901	Replacement Certified Aluminum Reference Material

DMA Q800 Accessories

991400.902	Gas Cooling Accessory - Auto Tank Fill (for cooling to -150°C)
984350.901	Air Compressor Accessory (for use with DMA Q800, 2980 only)
985011.901	Accessory Kit, Q800 (supplied with the Q800)

DMA Q800 Clamp Kits

984048.901	8 mm Single / Dual Cantilever Clamp Kit
984047.901	20 mm Single / Dual Cantilever Clamp Kit
984015.901	35 mm Single / Dual Cantilever Clamp Kit (supplied with DMA Q800 module)
984026.901	3-point Bending Clamp Kit (5, 10, and 15 mm lengths)
984014.901	3-point Bending Clamp Kit (20 and 50 mm lengths)
984018.901	Parallel Plate Compression Clamp Kit (includes 15 and 40 mm plates)
984022.901	Penetration Clamp Kit
985016.901	Film / Fiber Tension Clamp Kit
984023.901	Specialty Fiber Tension Clamp Kit
984017.901	Shear Sandwich Clamp Kit
985178.901	Submersion 3-point Bending Kit (5, 10, and 15 mm lengths), DMA Q800 only
985067.901	Submersion Compression Clamp Kit, DMA Q800 only
985068.901	Submersion Film / Fiber Tension Clamp Kit, DMA Q800 only
985069.901	3-point Bending Clamp Kit (50 mm, low friction)
985070.901	3-point Bending Clamp Kit (20 mm, low friction)
984486.901	Film Cutting Kit
985164.901	Powder Kit for 35 mm Cantilever Clamp

DMA Q800 / 2980 Replacement Parts

984003.901	Replacement Furnace
270962.001	Telescoping Gauge (for 10 mm single cantilever clamps)
270962.002	Telescoping Gauge (for 17 mm single cantilever clamps)
985199.901	Control Thermocouple (90 mm length)
985199.902	Sample Thermocouple (130 mm length)
984370.901	Furnace Inlet Ferrule / Spring Kit
270976.002	Filter / Regulator with Auto Drain
270975.001	Filter Replacement, Auto Drain Regulator
985078.001	Dual Cantilever Clamp Screen
985078.002	Film / Fiber Tension Clamp Screen
985052.901	Thermocouple Baffle
984331.901	Film / Fiber Submersion Clamp Calibration Kit

DMA Q800 / 2980 Calibration and Test Materials

900902.901	Indium Temperature Calibration Sample
900907.901	Zinc Temperature Calibration Sample
984310.901	Indium Wire, Film / Fiber Temperature Calibration (pkg of 10 pieces, 38 mm long)
980228.902	Glass Support Cloth (0.2 mm thick, 33 m length)

982161.902	ABS Sample (3.18 mm thick, 61 mm long, pkg of 5)
982161.903	ABS Sample (3.18 mm thick, 36 mm long, pkg of 5)
982165.903	Polycarbonate Sample (1.6 mm thick, 36 mm long, pkg of 5)
982165.904	Polycarbonate Sample (0.79 mm thick, 36 mm long, pkg of 5)
984309.901	Polyethylene Terephthalate (PET) Film (pkg of 10 pieces, 38 mm long)
984313.901	PET Fiber (910 mm long)
984308.001	DMA Calibration Standard 0.005 inch thick
984308.002	DMA Calibration Standard 0.010 inch thick
984308.003	DMA Calibration Standard 0.020 inch thick
984308.004	DMA Calibration Standard 0.030 inch thick
982166.003	Sample Compliance Dual Cantilever
982166.004	Sample Compliance Single Cantilever

Miscellaneous Q Series Upgrades and Accessories

920247.901	Display Kit Retrofit to QNX

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.

Replacement DSC 2920 Cells

Note: Accessory kits and instruction manuals not included.

915201.901	Replacement Standard DSC Cell - 2920
815201.901	Replacement Standard DSC Cell - 2920 - CE Compliant
915201.920	Replacement Standard DSC-RCS Cell - 2920
815201.920	Replacement Standard DSC-RCS Cell - 2920 - CE Compliant

Replacement DSC 2910 Cells

Note: Accessory kits and instruction manuals not included.

900610.905	Replacement Standard DSC Cell - 2910
900610.920	Replacement Standard DSC-RCS Cell - 2910

Replacement DSC 2010 Cell

911306.901	Replacement DSC Cell - 2010

Note: Requires installation by a TA Field Service Engineer.

DSC 2920 / 2910 Accessories

900674.901	DSC Quench Cooling Accessory

Note: For programmed cooling operation to -120 °C, and quench cooling to -180°C using liquid nitrogen. Includes bell jar, O-ring, and thermal resistor disc.

270134.001	Flow Meter

Note: For purge gas regulation (14.8 to 148 mL/min. air). Stainless steel float, R-2-15-AAA tube, valve location at inlet, In / Out connections at back, brass fittings for 1/4 inch (6.35 mm) I.D. hose, tripod base with level. Also includes 25 feet (7.64 m) of 1/4 inch (6.35 mm) tygon tubing.

270134.002	Dual Flow Meter

Note: For purge gas regulation (14.8 to 148 mL/min. air). Stainless steel floats, two R-2-15-AAA tubes, valve location at inlet, In / Out connections at back, brass fittings for 1/4 inch (6.35 mm) I.D. hose, tripod base with level. Also includes 25 feet (7.64 m) of 1/4 inch (6.35 mm) tygon tubing.

992300.901	Gas Switching Accessory - CE Compliant

Note: Automatically switches between two purge gases; manual override included.

DSC 29XX Replacement Parts

900155.000	Bell Jar for DSC Cells
900681.002	Bell Jar for DSC Cooling Accessory
900719.000	Preforming Tool, for Hermetic Pans (Beige Press)
910824.001	DSC Cell Fiberglass Cleaning Brush
900635.000	Silver Lid (Standard Cell)
991123.001	Silver Inner Lid # 1 (RCS Cell)
990687.001	Cell Lid, Silver with Hole #2
990686.002	Lid, Cooling Can, Stainless Steel #2
990686.001	Lid, Aluminum #3
900969.001	Silver Lid (Pressure DSC Cell)

Auto DSC 29XX Replacement Parts

900786.901	Aluminum Pans, Standard (pkg of 200)
900779.901	Aluminum Lids, Standard (pkg of 200)
900793.901	Aluminum Pans, Hermetic (pkg of 200)
900794.901	Aluminum Lids, Hermetic (pkg of 200)
900867.902	Copper Pans, Auto DSC (pkg of 200)
990685.001	Auto DSC Sample Pan Lower Die for Sample Press
990687.001	Auto Sampler, Silver Lid (Standard Cell)
991123.003	Auto Sampler, Silver Lid (RCS cell)
990688.901	Sample Tray, Lid
990717.901	Gripper Assembly
990980.901	Sample Tray, Multiposition

DPC 931 / 930 Replacement Part

930001.001	Lamp, DPC, 200 W Hg.

High Temperature DTA Replacement Parts

900410.901	Pt-Pt/13% Rh Thermocouple Assembly (matched pair) (for 2910 DTA Cell)
917010.901	Pt-Pt/13% Rh Thermocouple Assembly (matched pair) (for 2920 DTA Cell)
900936.001	Alumina Furnace Tube (for 1600°C DTA Cell)
900710.901	Platinum Micro Sample Cups (pkg of 4)
900713.901	Platinum Macro Sample Cups (pkg of 4)
900711.901	Platinum Macro Sample Cap Liners (pkg of 10)
900712.901	Alumina Macro Sample Cup Liners (pkg of 6)
900906.901	Aluminum Oxide Reference Material

TGA 2950 / 2050 Accessories and Field Upgrades

952431.901	Evolved Gas Furnace (EGA) for TGA 2950 / 2050 Note: Recommended for evolved gas analysis with MS or FTIR. Requires installation by a TA Field Service Engineer.
852352.901	Evolved Gas Furnace (EGA) for TGA 2950 / 2050 - CE Compliant Note: Recommended for evolved gas analysis with MS or FTIR. Requires installation by a TA Field Service Engineer.
992300.901	Gas Switching Accessory - CE Compliant Note: Automatically switches between two purge gases; manual override included.
270134.901	Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min. air).
270134.002	Dual Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min. air).

TGA 2950 / 2050 Sample Pans

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 2950 / 2050 Replacement Parts

952013.982	Rebuilt TGA 2950 Furnace
952013.980	Damaged Furnace
952040.901	Sample Hangdown Wire
952040.902	Tare Hangdown Wire
952068.901	Sample Thermocouple
952121.001	Work Surface Tray
952011.901	Accessory Kit, TGA 2950
952110.001	Tube, Hangdown Wire
952160.901	Heat Exchanger, TGA 2950
952240.901	Auto TGA 2950 Multiple Sample Tray Kit
952256.901	Kapton® Hangdown Loop (strip of 10)
952357.901	Furnace Tube (quartz) / Seals Kit / Instructions for EGA Furnace
952377.901	Conditioning Kit, TGA 2950 / 2050 Heat Exchanger

SDT 2960 Accessories

270134.001	Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min. air). Stainless steel float, R-2-15-AAA tube, valve location at inlet, In / Out connections at back, brass fittings for 1/4 inch (6.35 mm) I.D. hose, tripod base with level. Also includes 25 feet (7.64 m) of 1/4 inch (6.35 mm) tygon tubing.
270134.002	Dual Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min. air). Stainless steel floats, two R-2-15-AAA tubes, valve location at inlet, In / Out connections at back, brass fittings for 1/4 inch (6.35 mm) I.D. hose, tripod base with level. Also includes 25 feet (7.64 m) of 1/4 inch (6.35 mm) tygon tubing.
992300.901	Gas Switching Accessory - CE Compliant Note: Automatically switches between two purge gases; manual override included.

SDT 2960 Replacement Parts

270198.015	O-ring, Furnace Tube
960017.901	Dual Beam Thermocouple Kit, SDT 2960
960059.001	Contact Thermocouple Wire

TMA 2940 Accessories

945050.901	Film / Fiber Accessory Kit Note: Consists of film / fiber sample stage, film / fiber probe assembly, vial of cleaved aluminum balls, film clamp fixture, jeweller's screwdriver (2 mm), and ten film clamp screws (#0-80).
944202.901	Dilatometer Accessory Kit Note: Consists of dilatometer probe assembly, three dilatometer sample viles, two vials of filling medium, and a vial of aluminum calibration standard.
944203.902	Flexure Accessory Kit Note: Includes flexure probe assembly and flexure sample platform.
944204.901	Parallel Plate Rheometer Accessory Kit Note: Consists of rheometer sample-forming die set, three rheometer alignment cages, and six rheometer parallel plates.
270134.001	Flow Meter Note: For purge gas regulation (14.8 to 148 mL/min. air). Stainless Steel float, R-2-15-AAA tube, valve location at inlet, In / Out connections at back, brass fittings for 1/4 inch (6.35 mm) I.D. hose, tripod base with level. Also includes 25 feet (7.64 m) of 1/4 inch (6.35 mm) tygon tubing.

TMA 2940 Replacement Parts

944120.901	Sample Stage
944122.901	Expansion Probe Assembly
944123.901	Macro-expansion Probe Assembly
944124.901	Dilatometer Probe Assembly
941143.000	Dilatometer Sample Vial
944125.901	Hemispherical Probe Assembly
944126.901	Penetration Probe Assembly
944127.901	Flexure Probe Assembly
944121.901	Film / Fiber Sample Holder
945050.902	Film / Fiber Upgrade Kit - Includes Q400 probe, clamps, and clamping fixture
945052.901	Film / Fiber Upper Clamp
945053.901	Film / Fiber Lower Clamp
944330.901	Film Clamp Screws #0-80 (pkg of 10)
945054.901	Film Clamp Fixture
941038.901	Vial of Cleaved Aluminum Balls
941148.901	Filling Medium - Dilatometer Vial
944341.901	Protective Quartz for Sample Stage
944344.902	Thermocouple, TMA Kit

DEA 2970 Accessories and Replacement Parts

270134.003	Flow Meter Note: For purge gas regulation (0.16 to 1.7 L/min. air).
901315.901	Parallel Plate Ram Kit (range -150 to 500°C) Note: Accessory kit contains a parallel plate ram assembly, 10 bottom parallel plate sensors, 10 top paprallel plate sensors, 20 sets of drip pans, 30 spring probes, reference samples, and tweezers.
901316.901	Single Surface Ram Kit (range -150 to 500°C) Note: Accessory kit contains a single surface ram assembly, 10 single surface sensors, 20 sets of drip pans, 60 pointed spring probes, reference samples, and tweezers.
901402.901	Sputter Coated (thin film) Accessory Kit (range -150 to 500°C) Note: Accessory kit contains 10 bottom parallel plates, 10 top parallel thin film sensors, sputter coated mask, 20 sets of drip pans, PET reference samples, and tweezers.
901101.901	Dryer Assembly (for drying purge gas)
901382.901	Parallel Plate Sensors (pkg of 10)
901383.901	Single Surface Sensors (pkg of 10)
901385.901	Spring Probe Kit (pkg of 30)
901388.901	Foil Rounds for DEA Drip Pans (pkg of 20)
901392.901	Foil Rounds with holes for DEA Drip Pans (pkg of 20)
901403.901	Sputter Coated (thin film) Sensors (pkg of 10 sets)
901507.901	Single Surface Drip Cover (pkg of 30)

General Computer Accessories and Software

924500.602	Ethernet Switch
926100.901	Thermal Advantage Library Software
926205.802	Upgrade Kit Advantage Software Note: Upgrades 29XX modules, using OS/2 and Thermal Solutions software to latest version of Advantage software. Some 29XX modules may also need a GPIB board upgrade - contact your TA Representative for information and pricing.
925003.901	HP Color Inkjet Printer: 115/230V; 50/60 Hz

Common Thermal Analysis Tools and Accessories

259508.000	Tweezers, Brass
259509.000	Spatula, Stainless Steel
271580.001	Tweezers, Curved
910824.001	DSC Cell Cleaning Brush

Microcalorimeters

TAM Systems

TAM III Calorimeters

320101	Lifting Tool, Nanocalorimeter
320140	Lifting Tool, Nanocalorimeter, for Heat Seal Ampoule
320601	Lifting Tool, Minicalorimeter
320640	Lifting Tool, Minicalorimeter, for Heat Seal Ampoule
3207	Minicalorimeter Dummy

TAM AIR

323906	Lifting Tool, TAM AIR
334601	Lifting Eyelet, HDPE Plastic Ampoules, 20 mL
3346-5	HDPE Plastic Ampoules, 20 mL, with Screw Cap (pkg of 1000)
3350-2	TAM AIR Start Up Kit, 20 mL
3455	TAM AIR Admix Ampoule, 20 mL, without motor
3456-1	TAM AIR Admix Ampoule, 20 mL, with motor (115V, 50/60 Hz)
3456-2	TAM AIR Admix Ampoule, 20 mL, with motor (230V, 50/60 Hz)
345630	Stirrer, Disposable (pkg of 50), for Admix Ampoule, 20 mL
323802	Heat Sink Plugs, Aluminum (pkg of 1)

Static Ampoules and Consumables: 4 mL Calorimeters

2277-301	Ampoule, Stainless Steel, 4 mL, with Threaded Cap (pkg of 2)
2277-301.3	Ampoule, Hastelloy, 4 mL, with Threaded Cap (pkg of 2)
2277-302	Ampoule, Glass, Disposable, Start Up Kit, 3 mL
24.20.0401	Ampoule, Glass, Disposable, 4 mL (pkg of 485)
2502-10	Ampoule, Stainless Steel, 1 mL, with Circlip Cap (pkg of 1)
2502-11	Ampoule, Glass, 1 mL, with Circlip Cap (pkg of 1)
2502-12	Ampoule, Hastelloy, 1 mL, with Circlip Cap (pkg of 1)
2502-40	Ampoule, Stainless Steel, 4 mL, with Circlip Cap (pkg of 1)
2502-41	Ampoule, Glass, 4 mL, with Circlip Cap (pkg of 1)
2502-42	Ampoule, Hastelloy, 4 mL, with Circlip Cap (pkg of 1)
2506-41	Ampoule, Glass, Disposable, Start Up Kit, 4 mL
3320	Ampoule, Hastelloy, 4 mL, with Thread / O-Ring Cap (pkg of 1)
3320-1	Ampoule, Stainless Steel, 4 mL, with Thread / O-Ring Cap (pkg of 1)
3323	Ampoule, Glass / Hastelloy, 4 mL, with Hastelloy Circlip Cap (pkg of 1)

3323-1	Ampoule, Glass / Hastelloy, 4 mL, with Stainless Steel Circlip Cap (pkg of 1)
3325	Ampoule, Heat Seal, 5 mL (pkg of 324)
3330-3	Start Up Kit 4 mL, with 50 Eyelets
3330-4	Start Up Kit 4 mL, with 12 Eyelets
86.33.0400	Aluminum Caps, Sealing Discs, Glass Ampoules 3 and 4 mL (pkg of 100)
95.53.1015	Ampoules, Glass, Disposable, 3 mL (pkg of 100)

Other Consumables and Accessories: 4 mL Calorimeters

2250-420	Ampoule Seal, PTFE, 1 and 4 mL (pkg of 5)
2252-460	Lifting Eyelet, Ampoule, 1 mL
2277-304	Lifting Tool, Ampoules, 3 and 4 mL
2277-305	Seal Discs, PTFE, 4 mL, Threaded Cap (pkg of 100)
3339	Cap, Crimping Tool, Ampoules, 3 and 4 mL
2277-315	Clamping Tool
2421-010	Lifting Eyelet, Ampoules, Glass, 4 and 20 mL
2421-020	Centering Tool, 4 mL Disposable Glass Ampoule
2421-060	Lifting Eyelet, Ampoules, Glass, 3 mL
2580	Ampoule Safety Lock
2585	Lifting Tool, Ampoules, Heat Seal
2611	Calibration Test Kit, 4 mL
84.25.1201	Circlip SGH 12 mm (pkg of 1)
84.39.1001.1	O-Ring 10.4 x 1.0 mm Nitrile (pkg of 1)
84.39.1001.2	O-Ring 10.4 x 1.0 mm EPDM (pkg of 1)
84.39.1001.3	O-Ring 10.4 x 1.0 mm Viton® (pkg of 1)
84.39.1001.4	O-Ring 10.4 x 1.0 mm Kalrez® (pkg of 1)

Static Ampoules and Consumables: 20 mL Calorimeters

2277-309	Ampoule, Stainless Steel, 20 mL, with Threaded Cap (pkg of 1)
24.60.2001	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)
3343-1	Ampoule, Glass / Hastelloy, 20 mL, with Stainless Steel 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

Other Consumables and Accessories: 20 mL Calorimeters

22.30.0100	Lifting Tool, Ampoules, 20 mL
2254-420	Ampoule Seal, PTFE, 20 mL (pkg of 5)
2277-312	PTFE Seal Discs, 20 mL, with Threaded Cap (pkg of 50)
2277-315	Clamping Tool
2421-010	Lifting Eyelet, Glass Ampoules, 4 and 20 mL
2462-000	Cap Crimping Tool, Glass Ampoules, 20 mL
2580	Ampoule Safety Lock
2612	Calibration Test Kit, 20 mL
84.25.2501	Circlip SGH, 25 mm (pkg of 1)
84.39.2201.1	O-Ring 22.1 x 1.6 mm Nitrile (pkg of 1)
84.39.2201.2	O-Ring 22.1 x 1.6 mm EPDM (pkg of 1)
84.39.2201.3	O-Ring 22.1 x 1.6 mm Viton® (pkg of 1)
84.39.2201.4	O-Ring 22.1 x 1.6 mm Kalrez® (pkg of 1)

Ampoules and Consumables: Solution Calorimeter

22.25.0190	Stirrer, 18K Gold, 100 mL
22.25.0190K	Stirrer, 18K Gold, 25 mL
22.25.16XX	Bridge Plug Temperature XX°C (XX = desired isothermal temperature, specify when ordering)
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)
2225-151	Crushing Ampoules, Heat Seal, 1 mL, with Filling Tube 1 mm
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
22.51.1200	Shaft, Complete,Titration, 1 and 4 mL
22.51.1200.1	Shaft, Complete, Titration, 1 and 4 mL, Gold 18K
22.51.1200.3	Shaft, Complete, Titration, Hastelloy, 1 and 4 mL
22.51.1230.1	Shaft, Lower, Titration, 18K Gold, 4 mL
2250-420	Ampoule Seal, PTFE, 1 and 4 mL (pkg of 5)
2250-450	Reaction Vessel, Stainless Steel, 4 mL
2250-452	Reaction Vessel, Glass, 4 mL
2250-453	Reaction Vessel, Hastelloy, 4 mL
2250-500	Stirrer, Turbine, Kelf, 4 mL
2250-501	Stirrer, Turbine, Stainless Steel, 4 mL
2250-502	Stirrer, Turbine, Kelf with 18K Gold Shaft, 4 mL
2250-503	Stirrer, Turbine, Hastelloy, 4 mL
2250-510	Stirrer, Paddle, 18K Gold, 4 mL
2250-520	Propeller, 18K Gold, 4 mL,
2250-990	Kalrez® Kit, Ampoule, Perfusion, 1 and 4 mL
2250-991	Kalrez® Kit, Ampoule, Titration, 1 and 4 mL
2250-999	Service Kit, 1 and 4 mL
2252-450	Reaction Vessel, Stainless Steel, 1 mL
2252-452	Reaction Vessel, Glass, 1 mL
2252-453	Reaction Vessel, Hastelloy, 1 mL
2252-511	Propeller, 18K Gold, 1 mL
2252-530	Stirrer, Turbine, Kelf, 1 mL
2255-990	Kalrez® Kit, Ampoule, RH Perfusion, 1 and 4 mL
2255-991	Kalrez® Kit, Ampoule, RH Perfusion / Titration, 1 and 4 mL
2256-510	Cell Culture Glasses (pkg of 10)
2256-520	Matrix Cartridge
2421-032	Hygrostat, Micro, 0.2 mL (pkg of 100)
2421-033	Hygrostat, Micro, 0.3 mL (pkg of 100)
2613	Calibration Heater, External, 4 mL
332305	Reaction Vessel, Glass / Hastelloy, 4 mL
2251-990	Titration Preparation Kit
3520	Stirrer Holder for Plates with Glass Slides (pkg of 10)
84.25.1201	Circlip SGH, 12 mm (pkg of 1)
84.39.1001.1	O-Ring, 10.4 x 1.0 mm Nitrile (pkg of 1)
84.39.1001.2	O-Ring, 10.4 x 1.0 mm EDPM (pkg of 1)
84.39.1001.3	O-Ring, 10.4 x 1.0 mm Viton® (pkg of 1)
84.39.1001.4	O-Ring, 10.4 x 1.0 mm Kalrez® (pkg of 1)

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 L MRS Ampoules
6311-002	Stirrer Power Supply (5 to 12VDC, EURO), for TAM III 20 L 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
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
2254-999	Service Kit, 20 mL
2264-990	Kalrez® Kit, Perfusion Ampoule, 20 mL
2264-991	Kalrez® Kit, Titration Ampoule, 20 mL
2265-621	Sample Cartridge, 20 µL, Channel 1
2265-622	Sample Cartridge, 20 µL, Channel 2
2265-623	Sample Cartridge, 20 µL, Channel 3
22.65.9011	Loading Tube, Cartridge, 20 µL
2265-641	Sample Cartridge, 40 µL, Channel 1
2265-642	Sample Cartridge, 40 µL, Channel 2
2265-643	Sample Cartridge, 40 µL, Channel 3
22.65.9010	Loading Tube, Cartridge, 40 µL
22.65.9000	Loading Tool
2269-990	Kalrez® Kit, Ampoule, RH Perfusion, 20 mL
2269-991	Kalrez® Kit, Ampoule, RH Perfusion / Titration, 20 mL
334305	Reaction Vessel, Glass / Hastelloy, 20 mL
84.25.2501	Circlip SGH 25 mm (pkg of 1)

84.33.0503	Blind Plug (Bio-Chem Fluidics) (pkg of 1)
84.39.2201.1	O-Ring 22.1 x 1.6 mm Nitrile (pkg of 1)
84.39.2201.2	O-Ring 22.1 x 1.6 mm EPDM (pkg of 1)
84.39.2201.3	O-Ring 22.1 x 1.6 mm Viton® (pkg of 1)
84.39.2201.4	O-Ring 22.1 x 1.6 mm Kalrez® (pkg of 1)
841222.1601-1	O-Ring 22.1 x 1.6 mm Viton® (pkg of 1)
84.39.0101.4	O-Ring 0.74 x 1.02 mm Kalrez® (pkg of 1)
84.39.0111.4	O-Ring 1.15 x 1.0 mm Kalrez® (pkg of 1)

General Consumables

2281-999	Flow Switch Tubing
6140-008	Syringe, 100 µL with Cannula, Stainless Steel
6140-009	Syringe, 100 µL with Cannula, 18K Gold
6140-010	Syringe, 250 µL with Cannula, Stainless Steel
6140-011	Syringe, 250 µL with Cannula, 18K Gold
6140-012	Syringe, 500 µL with Cannula, Stainless Steel
6140-013	Syringe, 500 µL with Cannula, 18K Gold
6140-014	Syringe, 1 mL with Cannula, Stainless Steel
6140-015	Syringe, 1 mL with Cannula, 18K Gold
6140-016	Syringe, 2.5 mL with Cannula, Stainless Steel
6140-017	Syringe, 2.5 mL with Cannula, 18K Gold
6141-044	Tubing, Aliprene, White / White (pkg of 6)

2277 Thermostats and Calorimetric Accessories

2277-501	Inhibitor Liquid (consumable for Thermostats)
5520-001	Pre Thermostat (115V)
5520-002	Pre Thermostat (230V)
2210	Nanowatt Amplifier Module
2277-121	Digital Calibration Module
2277-131	DIGITAM v4.1 for Windows®
2277-132	DIGITAM v4.1 for Windows®, Update from v3.0
2277-133	DIGITAM v4.1 for Windows®, Update from v2.0
2277-134	DIGITAM v4.1 for Windows®, Update from v4.0
3701	TAM Assistant Software Upgrade
3702	TAM Air Assistant Software Upgrade

CSC Systems

NANO DSC System Consumables

6111	Vinyl Caps for Capillary Cell (pkg of 20)
6312	Pressure Cap O-ring (pkg of 2)
6313	Pressure Cap
6114	Tubing Monosil, 2 feet (pkg of 2)
6115	Micropipeter, for Capillary Cell
6116	Pipetter Tips, used with Capillary Cell
6317	Cylindrical Cell Cleaning Tool
6118	O-ring for Cylindrical Cell Cleaning Tool (pkg of 4)
6119	Syringe, 1 mL, for Cylindrical Cell
6120	Syringe Needle (5 inch), No Stop, for Cylindrical Cell

NANO ITC System Accessories and Consumables

6326	Complete Degasssing Station (110/230V)
99552090	Teflon Coated Stir Rod for 1 mL Conical Vials
99552100	Teflon Coated Round Stir Rod (3 mm x 6.35 mm)
99552102	Teflon Coated Round Stir Rod (8 mm x 25 mm)
99552110	Clear Plastic Vacuum Dome for Degassing Station (P/N: 6326)
73714210	Vacuum Flask, Side Arm, 1000 mL
603028	Vacuum Connection Hose Assembly (for P/N: 6326 Degassing Station)
5326-1	Complete Degassing Accessory (115V)
4801	1L Side-Arm Vacuum Flask (Glass)
5312	O-ring, for Titration Handle (pkg of 2)
5317	Cleaning Tool for Titration Cell
5319	Vacuum Cup Replacement for Cleaning Tool for Titration Cell (P/N: 5317)
5342	Cell Filling Syringe (2.5 mL), with Needle
5343	Filling Syringe Needle (pkg of 3)
5344	Titration Syringe (100 µL), with Needle
5345	Titration Syringe (250 µL), with Needle
5365	BindWorks Data Modeling Software (specially designed for ITC Analysis)

Multi-Cell DSC System Accessories and Consumables

4129	Gas Regulator (0 to 4,000psi / 0 to 40 psi), for use in North America only
4130	Second User Ampoule Kit
4128-1	High Capacity Cooling Bath (115V)
4128-2	High Capacity Cooling Bath (230V)
4171	High Pressure Ampoule Kit for MC-DSC
4175	Batch Mixing Ampoule Kit
4176	Probe Accessible Cells
4160	Peakfit® Data Modeling Software

General Accessories, Parts, and Consumables

5351	Deskjet® Color Printer with Cable

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)
4338K	Kalrez® Dewar O-rings (pkg of 2)
4338V	Viton® Dewar O-rings (pkg of 2)
4339	Spring Clamp for Dewar
4340	Micro-Combination pH Electrode
4341	Replacement Thermister
4342	Replacement Calibration Heater

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

4432	Batch Addition Adapter
4437-1	Buret Syringe, 1 mL
4437-2	Buret Syringe, 2.5 mL
4437-5	Buret Syringe, 5 mL
4444	Adsorption Bed Cartridge
4446	Flexible Adsorption Cell Stirrer (pkg of 3)
4450	Glass Ampoule Accessory Kit
4451	Glass Ampoules Lowering Rod
4452	Glass Ampoules (pkg of 36)
4453	Glass Ampoule Seals with Teflon® Liners (pkg of 72)
4454	Glass Ampoule Metal Crimp Lids (pkg of 144)
4455	Glass Ampoule Tool Kit
4456	Ampoule Set, Hastelloy-C
4458	Battery Shunts
4460	Glove Box Accessory Kit

Model 4501 Isothermal NANO-Calorimeter

4550	Glass Ampoule Accessory Kit
4552	Glass Ampoules (pkg of 100)
4553	Glass Ampoule Seals with Teflon® Liners (pkg of 100)
4554	Glass Ampoule Metal Crimp Lids (pkg of 100)
4555	Glass Ampoule Tool Kit

Model 4601-ST, 2-Drop Calorimeter

4642-2	Syringe (100 µL), with Needle (2 Drop)
4642-3	Syringe (250 µL), with Needle (2 Drop)
4644	Stirrer Bar (pkg of 2)
4645	Pressure Sensor Needles
4652	Glass Ampoules (pkg of 100)
4653	Metal Crimp Seal with Silicone / TFE Liner (pkg of 100)

Generic Accessories and Parts

4796	Surge Supressor (Power Strip)
4799	UPS (2.2kVA / 1600 watt)
4241	Needle for 100 µL Buret Syringe
4240	Filling Syringe Needle (12-16 Gauge)
4239	Needle for 250 µL Buret Syringe

Rheometers

ARES Rheology

ARES-G2 Software

402010.901	Orchestrator Polymer Library
251471.002	Four Port Ethernet Switch for ARES-G2
402041.801	TRIOS Update CD

ARES FCO Temperature Control Option
FCO Temperature Control System and Options

401892.901	ARES-G2 Force Convection Oven FCO
401041.901	ARES-G2 FCO LN2 Controller
401798.901	ARES to ARES-G2 LN2 Upgrade Kit
401711.901	ARES-G2 FCO Camera
401070.901	Heat Shield for ARES-G2 Forced Convection Oven

FCO Geometry Bundles and Sample Prep 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: Additional disposable plates sold separately. Compatible with ARES Classic Instruments.
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 dia Upper Cones and Plates Note: Compatible with ARES Classic Instruments.

FCO Torsion Rectangular and Cylindrical Geometries

403220.901	ARES-G2 Torsion Rectangular Clamp Set
403220.902	ARES Classic Torsion Rectangular Clamp Set (Ver 1 through 8)
708.013830	ARES Torsion Cylindrical Clamp Set

FCO Special 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 Cup and PRT. For ARES-G2 and ARES Classic Rheometers.

ARES-G2 Peltier Plate Temperature Control Option
Peltier Plate Temperature Control System

401014.901	ARES-G2 Smart Swap Peltier Plate Note: Requires Environmental Control Box P/N: 401949.901 and appropriate Peltier Circulator.
401949.901	ARES-G2 Environmental Control Box Note: Required for Peltier Plate Temperature Control.

ARES Peltier Circulators for Peltier Plate

700.03038.1	ARES Peltier Circulator (110 VAC, 60 Hz)
700.03038.2	ARES Peltier Circulator (230 VAC, 50 Hz)
403234.901	Chilling Peltier Circulator Model 612, 120V, 60Hz Note: For use with AR Peltier, ARES Peltier, and Peltier Concentric Cylinder System.
403234.902	Chilling Peltier Circulator Model 612, 220V, 50Hz Note: For use with AR Peltier, ARES Peltier, and Peltier Concentric Cylinder System.
403235.901	Air Cooled Circulator Model 340, 110 / 220V Note: For use with AR Peltier Plate (temperature range: 0 to 200°C); AR Peltier Concentric Cylinder (temperature range: 0 to 150°C); ARES-G2 and ARES CLASSIC (temperature range: -20 to 140°C).

Peltier Plate PPS Geometry Bundle

402316.901	ARES Peltier Plate PPS Geometry Bundle: includes Polyphenylene Sulfide (PPS) Upper Cones and Plates on Stainless Steel Shaft. Maximum Temperature = 150°C. Set Includes: 25 mm and 50 mm diameter Plates, 25 mm 0.1 rad Cone, and 50 mm 0.04 rad Cone.

ARES-G2 Sealed Bath Temperature Control Option
Sealed Bath Temperature Control System

401015.901	ARES-G2 Smart Swap Sealed Bath
401060.901	ARES to ARES-G2 Sealed Bath Upgrade Kit: Note: Includes Smart Swap cable and new plastic cover required for upgrading ARES Classic Sealed Bath, P/N: 700.03382.8; for use on ARES-G2 Rheometer.

ARES Computer Controlled Circulators Sealed Bath

403197.901	ARES Computer Controlled Circulator, 110 VAC, 60 Hz Note: Use for temperature control of Sealed Recirculating Bath, P/N: 401015.901.
403197.902	ARES Computer Controlled Circulator, 230 VAC, 50 Hz Note: Use for temperature control of Sealed Recirculating Bath, P/N: 401015.901.

ARES-G2 Sealed Bath Geometry Bundles and Couettes

402328.901	ARES Sealed Bath Fluid Rheology Geometry Bundle: for ARES-G2 and ARES Classic Rheometers. 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 and 32 mm diameter bob.
402330.901	ARES Sealed Bath Advanced Fluids Rheology Geometry Bundle: for ARES-G2 and ARES Classic Rheometers; 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.
401995.901	ARES Sealed Bath Recessed End Couette: Includes: 32 mm dia. Titanium Bob with Recessed End and 34 mm diameter Stainless Steel Cup.
401996.901	ARES Sealed Bath Small Volume Recessed End Couette: for ARES-G2 and ARES Classic Rheometers. Includes: 16.5 mm diameter Titanium Bob w/ Recessed End and 17 mm diameter Stainless Steel Cup.
401997.901	ARES Sealed Bath Double Wall Couette: for ARES-G2 and ARES Classic Rheometers. Includes: 34 mm OD / 27.95 mm ID stainless cup; 32 mm OD / 29.5 mm ID titanium bob
708.01228	ARES Stainless Steel 18 mm Vaned Bob: for use with Sealed Bath configured with lower 34 mm Stainless Steel Cup.
700.03464	ARES, Stainless Steel Double Wall Cup for Sealed Bath

ARES 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, Serrated 25 mm Parallel Plate
708.01471	ARES, Stainless Steel, 25 mm Lower Plate for Sealed Bath
708.01472	ARES, Stainless Steel, 50 mm Lower Plate for Sealed Bath
708.01483	ARES, Stainless Steel, 63 mm Lower Plate with Glass Cup and Cover for Sealed Bath
401647.901	ARES, Stainless Steel, Cross Hatched, 8 mm Plate
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 and Cone Geometries

Note: For use with Bath and Peltier Temperature Systems.

402311.901	ARES, PPS, 25 mm Upper Plate; Max Temp = 150°C
402312.901	ARES, PPS, 40 mm Upper Plate; Max Temp = 150°C
402313.901	ARES, PPS, 50 mm Upper Plate; Max Temp = 150°C
402314.901	ARES, PPS, 25 mm 0.1rad Cone; Max Temp = 150°C
402315.901	ARES, PPS, 50 mm 0.04rad Cone; Max Temp = 150°C

ARES Cone Geometries

Stainless Steel Upper Cones for Force Convection Oven

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 (1.146 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 (1.146 deg)
401963.901	ARES, Stainless Steel, 50 mm 0.04 rad Cone (2.29 deg)

Titanium Upper Cones for Force Convection Oven

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 (1.146 deg)
401973.901	ARES, Titanium, 25 mm 0.1 rad Cone (5.73 deg)
401964.901	ARES, Titanium, 50 mm 0.02 rad Cone (1.146 deg)
401962.901	ARES, Titanium, 50 mm 0.04 rad Cone (2.29 deg)

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.

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)
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	25mm Disposable Plate Sample Mold

Aluminum Disposable Cones

700.02451.2	Aluminum, 25 mm 0.02 rad Disposable Cone; 10 pieces
700.02451.1	Aluminum, 25 mm 0.1 rad Disposable Cone; 10 pieces
700.02451.3	Aluminum, 50 mm 0.04 rad Disposable Cone; 10 pieces

ARES Miscellaneous Fixtures and Accessories

ARES Asphalt Accessories

700.02371.1	Five-Cavity Silicone Rubber Mold
700.02371.7	Silicone Asphalt Mold. For molding asphalt samples 8 mm in diameter x 2.2 mm deep and 25 mm in diameter x 1.2 mm deep

ARES Air and Calibration Accessories

700.02657.2	ARES Air Dryer
613.06404	Replacement F73C Green Coalescing Filter Element for Air Dryer
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 Blade Cutter (pkg of 50)

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

ARES Classic Rheometer

402000.901	TA Orchestrator Software
402020.951	Waveform and Fast Sampling Option Upgrade (For ARES V5, V6, or V8)
700.02945.1	Optical Analysis Module, OAM II Note: Must Quote Optical Parallel Plate or Couette Separately. Adjustable height support required for FCO systems used with OAM II (P/N: 700.03336).
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 bob and 34 mm ID stainless/glass cup; for use with OAMII at ambient use only; requires V5.xx.xx or higher firmware and 2KFRTN1 transducer
700.03336	OAM II Adjustable FCO Height Support

700.03188.1	Electro-Rheological Analysis Option for 2KFRT Transducers
700.03188.4	Electro-Rheological Analysis Option for 1KFRT Transducers
403017.901	ARES UV-Curing Option: Accessory for rheological characterization of UV curable materials, UV Light Source not included. Notes: Accessory does not include UV light source. Customer must supply Exfo Novacure, or Exfo Omnicure S-2000 UV light source separately to interface with option. Necessary data acquisition rates, and light source shutter and exposure time control trigger, are only available when option used with ARES Waveform and Fast Sampling Option (P/N: 402020.951). Minimum instrument requirements: Orchestrator version 7.0, ARES firmware version 8 or 15.
403017.902	ARES UV-Curing Option: Accessory for rheological characterization of UV curable materials. Includes Exfo Omnicure UV light source. Notes: Necessary data acquisition rates, and light source shutter and exposure time control trigger, are only available when option is used with ARES Waveform and Fast Sampling Option (P/N: 402020.951). Minimum instrument requirements: Orchestrator version 7.0, ARES firmware version 8 or 15.

ARES UV 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 and Photo-curing Option upper quartz plate and 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 UV-Curing and Photo-Curing Options

ARES DETA: Dielectric Thermal Analysis Options

NOTE: Agilent E4980A-001 LCR Meter is the model provided with DETA options including a bridge. Customers must supply this bridge if purchasing option without bridge included.

700.02903	ARES Dielectric Thermal Analysis Option, Includes Bridge, 120 VAC, 60 Hz NOTE: Includes Agilent E4980A-001 LCR Meter and 25 mm Parallel Plates.
700.02903.1	ARES Dielectric Thermal Analysis Tooling, Bridge Not Included, 120 VAC, 60 Hz NOTE: Includes 25 mm Parallel Plates & Interface for customer supplied Agilent E4980A-001 Bridge.
700.02903.3	ARES Dielectric Thermal Analysis Tooling, Bridge Not Included, 220 VAC, 50 Hz NOTE: Includes 25 mm Parallel Plates & Interface for customer supplied Agilent E4980A-001 Bridge.

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 and Interface. Note: Requires Customer Supplied Chiller.

AR Rheology

AR Series Software

595120.909	Software Advantage Navigator
595120.910	Enhanced Polymer Library for Advantage
595196.901	Software QCR/CSA II Script
595100.901	Software Rheology Solutions Archive
595120.601	Rheology Advantage Upgrade from Rheology Solutions

Installation and Peltier Kits

595001.901	AR Rheometer Installation Kit for US Note: Include on all systems quotations.
595002.901	AR Rheometer Peltier Cooling Kit for US
505010.901	AR Rheometer Installation Kit for UK Note: Include on all systems quotations.
575015.901	Air Cooled Circulator Model AWC100, 230V, 50Hz UK Note: Include on all systems quotations with Peltier or Peltier CC.
403234.901	Chilling Peltier Circulator Model 612, 120V, 60Hz Note: For use with AR Peltier, ARES Peltier, and Peltier Concentric Cylinder Systems.
403234.902	Chilling Peltier Circulator Model 612, 220V, 50Hz Note: For use with AR Peltier, ARES Peltier, and Peltier Concentric Cylinder Systems.
403235.901	Air Cooled Circulator Model 340, 110/220V Note: For use with AR Peltier (temperature range 0 to 200°C) and ARES Peltier.

AR Rheometer Peltier Plates, Geometries, and Accessories

NOTE: HA AL = Hard Annodized Aluminum; SST = Stainless Steel

Peltier Plate Temperature Options

531051.901	AR Series Smart Swap Peltier Plate Note: Maximum Temperature = 200°C.
531052.901	AR Series Stepped Peltier Plate with Screwed Assembly Note: Maximum Temperature = 200°C.
531053.901	AR Series Smart Swap Disposable Stepped Peltier Plate Note: Maximum Temperature = 200°C.
547910.901	AR-Series Peltier Plate Immersion Cell Note: Attaches to AR-Series Smart Swap Pletier Plate. Allows testing of samples in parallel plate and cone and plate geometries while fully immersed in liquid.

547902.901	AR Series Peltier Plate Camera Viewer Option
	Note: Camera viewer is NOT compatible with AR2000 model.
547901.901	AR Series Peltier Plate Camera Viewer Mounting Kit
	Note: Camera viewer is NOT compatible with AR2000 model. Customer must supply USB Web camera.

AR-G2 Custom and Standard Geometry Adapters

532066.901	ARXXX to AR-G2 Geometry Adapter Kit
	Note: For use only with standard Peltier Plate geometries.
545904.901	AR-G2 Custom Geometry Adapter
545905.901	AR Rheometer Custom Geometry Adapter

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

Note: Upper Cones for Use with Lower Peltier Plate.

511204.902	Stainless Steel, 20 mm, 1 deg Cone, NST
511206.902	Stainless Steel, 20 mm, 2 deg Cone, NST
511207.902	Stainless Steel, 20 mm, 4 deg Cone, NST
	Note: Following Smart Swap geometries for use with AR-G2 only.
511204.906	AR-G2, Stainless Steel, 20 mm, 1 deg Cone, NST
511206.906	AR-G2, Stainless Steel, 20 mm, 2 deg Cone, NST
511207.906	AR-G2, Stainless Steel, 20 mm, 4 deg Cone, NST

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

Note: Upper Plates for Use with Lower Peltier Plate.

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
	Note: Following Smart Swap geometries for use with AR-G2 only.
511080.906	AR-G2, Stainless Steel, 8 mm Plate, NST
511120.906	AR-G2, Stainless Steel, 12 mm Plate, NST
511200.906	AR-G2, Stainless Steel, 20 mm Plate, NST
511250.906	AR-G2, Stainless Steel, 25 mm Plate, NST
517080.906	AR-G2, Stainless Steel, Cross Hatched, 8 mm Plate, NST
517200.906	AR-G2, Stainless Steel, Cross Hatched, 20 mm Plate, NST

Stainless Steel Peltier Cone Geometries with Solvent Trap

Note: Upper Cones for Use with Lower Peltier Plate.

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
511403.901	Stainless Steel, 40 mm, 0.5 deg Cone
511404.901	Stainless Steel, 40 mm, 1 deg Cone
511406.901	Stainless Steel, 40 mm, 2 deg Cone
511407.901	Stainless Steel, 40 mm, 4 deg Cone
511603.901	Stainless Steel, 60 mm, 0.5 deg Cone
511604.901	Stainless Steel, 60 mm, 1 deg Cone
511606.901	Stainless Steel, 60 mm, 2 deg Cone
511607.901	Stainless Steel, 60 mm, 4 deg Cone
	Note: Following Smart Swap geometries for use with AR-G2 only.
511203.905	AR-G2, Stainless Steel, 20 mm, 0.5 deg Cone
511204.905	AR-G2, Stainless Steel, 20 mm, 1 deg Cone
511206.905	AR-G2, Stainless Steel, 20 mm, 2 deg Cone
511207.905	AR-G2, Stainless Steel, 20 mm, 4 deg Cone
511403.905	AR-G2, Stainless Steel, 40 mm, 0.5 deg Cone
511404.905	AR-G2, Stainless Steel, 40 mm, 1 deg Cone
511406.905	AR-G2, Stainless Steel, 40 mm, 2 deg Cone
511407.905	AR-G2, Stainless Steel, 40 mm, 4 deg Cone
511603.905	AR-G2, Stainless Steel, 60 mm, 0.5 deg Cone
511604.905	AR-G2, Stainless Steel, 60 mm, 1 deg Cone
511606.905	AR-G2, Stainless Steel, 60 mm, 2 deg Cone
511607.905	AR-G2, Stainless Steel, 60 mm, 4 deg Cone

Stainless Steel Peltier Plate Geometries with Solvent Trap

Note: Upper Plates for Use with Lower Peltier Plate.

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
517400.901	Stainless Steel, Cross Hatched, 40 mm Plate
519400.901	Stainless Steel, Sandblasted, 40 mm Plate
519600.901	Stainless Steel, Sandblasted, 60 mm Plate

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

511200.905	AR-G2, Stainless Steel, 20 mm Plate
511400.905	AR-G2, Stainless Steel, 40 mm Plate
511600.905	AR-G2, Stainless Steel, 60 mm Plate
517200.905	AR-G2, Stainless Steel, Cross Hatched, 20 mm Plate
517400.905	AR-G2, Stainless Steel, Cross Hatched, 40 mm Plate
517600.905	AR-G2, Stainless Steel, Cross Hatched, 60 mm Plate
519250.906	AR-G2, Stainless Steel, Sandblasted, 25 mm Plate
519400.905	AR-G2, Stainless Steel, Sandblasted, 40 mm Plate
519600.905	AR-G2, Stainless Steel, Sandblasted, 60 mm Plate

Stainless Steel Peltier Cone Geometries with Composite Heat Break

Note: Upper Cones for Use with Lower Peltier Plate.

512206.902	Stainless Steel, Composite HB: 20 mm, 2 deg Cone, NST
512206.901	Stainless Steel, Composite HB: 20 mm, 2 deg Cone
512207.902	Stainless Steel, Composite HB: 20 mm, 4 deg Cone, NST
512207.901	Stainless Steel, Composite HB: 20 mm, 4 deg Cone
512406.901	Stainless Steel, Composite HB: 40 mm, 2 deg Cone
512407.901	Stainless Steel, Composite HB: 40 mm, 4 deg Cone
512606.901	Stainless Steel, Composite HB: 60 mm, 2 deg Cone
512607.901	Stainless Steel, Composite HB: 60 mm, 4 deg Cone
	Note: Following Smart Swap geometries for use with AR-G2 only.
512206.906	AR-G2, Stainless Steel, Composite HB: 20 mm, 2 deg Cone, NST
512206.905	AR-G2, Stainless Steel, Composite HB: 20 mm, 2 deg Cone
512406.905	AR-G2, Stainless Steel, Composite HB: 40 mm, 2 deg Cone
512407.905	AR-G2, Stainless Steel, Composite HB: 40 mm, 4 deg Cone
512606.905	AR-G2, Stainless Steel, Composite HB: 60 mm, 2 deg Cone
512607.905	AR-G2, Stainless Steel, Composite HB: 60 mm, 4 deg Cone

Stainless Steel Peltier Plate Geometries with Composite Heat Break

Note: Upper Plates for Use with Lower Peltier Plate.

512080.902	Stainless Steel, Composite HB: 8 mm, NST
512200.902	Stainless Steel, Composite HB: 20 mm, NST
512200.901	Stainless Steel, Composite HB: 20 mm
512250.902	Stainless Steel, Composite HB: 25 mm, NST
512400.901	Stainless Steel, Composite HB: 40 mm
512600.901	Stainless Steel, Composite HB: 60 mm

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

512080.906	AR-G2, Stainless Steel, Composite HB: 8 mm, NST
512200.906	AR-G2, Stainless Steel, Composite HB: 20 mm, NST
512200.905	AR-G2, Stainless Steel, Composite HB: 20 mm
512250.906	AR-G2, Stainless Steel, Composite HB: 25 mm, NST
512400.905	AR-G2, Stainless Steel, Composite HB: 40 mm
512600.905	AR-G2, Stainless Steel, Composite HB: 60 mm

Titanium Peltier Plate Geometries with Solvent Trap

Note: Upper Plates for Use with Lower Peltier Plate.

520400.901	Titanium, 40 mm Plate
520600.901	Titanium, 60 mm Plate
520404.901	Titanium, 40 mm, 1 deg Cone
520406.901	Titanium, 40 mm, 2 deg Cone
520407.901	Titanium, 40 mm, 4 deg Cone
520604.901	Titanium, 60 mm, 1 deg Cone
520606.901	Titanium, 60 mm, 2 deg Cone
520607.901	Titanium, 60 mm, 4 deg Cone
	Note: Following Smart Swap geometries for use with AR-G2 only.
520400.905	AR-G2 Smart Swap, Titanium, 40 mm Plate
	Note: Titanium geometries have stainless steel shaft.
520600.905	AR-G2 Smart Swap, Titanium, 60 mm Plate
	Note: Titanium geometries have stainless steel shaft.
520604.905	AR-G2 Smart Swap, Titanium, 60 mm, 1 deg Cone
	Note: Titanium geometries have stainless steel shaft.
520606.905	AR-G2 Smart Swap, Titanium, 60 mm, 2 deg Cone
	Note: Titanium geometries have stainless steel shaft.

Acrylic Peltier Cone Geometries with NO Solvent Trap (NST)

Note: Upper Cones for Use with Lower Peltier Plate, Max Use Temp = 40°C.

516204.902	Acrylic, 20 mm, 1 deg Cone, NST
516206.902	Acrylic, 20 mm, 2 deg Cone, NST
516207.902	Acrylic, 20 mm, 4 deg Cone, NST

Acrylic Peltier Plate Geometries with NO Solvent Trap (NST)

Note: Upper Plates for Use with Lower Peltier Plate, Max Use Temp = 40°C.

516200.902	Acrylic, 20 mm Plate, NST

Acrylic Peltier Cone Geometries with Solvent Trap

Note: Upper Cones for Use with Lower Peltier Plate, Max Use Temp = 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, Max Use Temp = 40°C.

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

Hard Annodized Aluminum (HA AL) Peltier Cone Geometries with Solvent Trap

Note: Upper Cones for Use with Lower Peltier Plate.

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

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

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

Hard Annodized Aluminum (HA AL) Peltier Plate Geometries with Solvent Trap

Note: Upper Plate for Use with Lower Peltier Plate.

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

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

513200.905	AR-G2, HA Aluminum, 20 mm Plate
513400.905	AR-G2, HA Aluminum, 40 mm Plate
513600.905	AR-G2, HA Aluminum, 60 mm Plate

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

529613.901	Hard Annodized Split Solvent Trap Cover and Location Ring
529612.901	Peltier Plate Purge Gas Cover and Location Ring
529750.901	25 mm Plate Insulating Thermal Cover for Peltier Plate
545941.901	Peltier Plate Draft Shield
570011.001	HA-AL Cover Plate Cross Hatched 60 mm
517060.901	Stainless Steel Cover Plate Cross Hatched 60 mm
545430.901	Stainless Steel Peltier Plate Cover
545431.901	Stainless Steel Peltier Plate Cover, 20 mm Raised Center
545433.901	Stainless Steel Peltier Plate Cover, 60 mm Raised Center
545435.901	Titanium Peltier Plate Cover, 40 mm Raised Center

AR Rheometer Concentric Cylinders, Geometries, and Accessories

NOTE: HA AL = hard annodized Aluminum; SST = Stainless Steel.

Peltier Concentric Cylinder Jacket for AR-G2 and AR2000

545611.901	AR Series Smart Swap Concentric Cylinder Peltier Jacket Note: Does not include cup and rotor.

AR-G2 Peltier Concentric Cylinder Temperature Systems

NOTE: AR-G2 Concentric Cylinder Systems include Peltier Jacket and cup and rotor for measurements.

546001.901	AR-G2 Peltier Concentric Cylinder Conical DIN System Note: Max Temperature = 150°C. Includes HA AL Cup and Rotor. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 19.6 ml.
546002.901	AR-G2 Peltier Concentric Cylinder Recessed End Bob System Note: Includes HA AL Cup and Rotor. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 6.65 ml.
546004.901	AR-G2 Peltier Concentric Cylinder Vaned Rotor System Note: Includes SST Vaned Rotor and HA AL Cup. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 28.72 ml.
546005.901	AR-G2 Peltier Concentric Cylinder Double Gap System Note: Includes HA AL Cup and Rotor Rotor Inner rad = 16 mm, Rotor Outer rad = 17.5 mm, Rotor Height = 53 mm, Cup Inner rad = 15.1 mm, Outer rad = 18.5 mm.

AR2000 and AR1500 Peltier Concentric Cylinder Temperature Systems

NOTE: AR2000 Concentric Cylinder Systems include Peltier Jacket and cup and rotor for measurements.

545601.901	AR2000ex and AR1500ex Peltier Concentric Cylinder Conical DIN System Note: Includes HA AL Cup and Rotor. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 19.6 ml.
545602.901	AR2000ex and AR1500ex Peltier Concentric Cylinder Recessed End Bob System Note: Includes HA AL Cup and Rotor. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 6.65 ml.
545604.901	AR2000ex and AR1500ex Peltier Concentric Cylinder Vaned Rotor System Note: Includes SST Vaned Rotor and HA AL Cup. Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Sample Volume = 28.72 ml
545650.901	AR2000ex and AR1500ex Peltier Concentric Cylinder Double Gap System Note: Includes HA AL Cup and Rotor. Rotor Inner rad = 16 mm, Rotor Outer rad = 17.5 mm, Rotor Height = 53 mm, Cup Inner rad = 15.1 mm, Outer rad = 18.5 mm.

AR1000 / AR550 Concentric Cylinder Temperature Systems, Circulator Temperature Control

545002.901	AR1000 / AR550 Concentric Cylinder Fluid Jacket Note: AR1000/AR550 Concentric Cylinder Systems include Fluid Jacket and cup and rotor for measurements. Requires computer controlled circulator for temperature control, P/N: 500027.901 or P/N: 575008.901.
545006.901	AR1000 / AR550 Concentric Cylinder Conical DIN System Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Volume = 19.6 ml.
545007.901	AR1000 / AR550 Concentric Cylinder Recessed End Bob System Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Volume = 6.65 ml.
545008.901	AR1000 / AR550 Concentric Cylinder Vaned Rotor System Rotor rad = 14 mm, Rotor Height = 42 mm, Cup rad =15 mm, Volume = 28.72 ml.
545009.901	AR1000 / AR550 Concentric Cylinder Double Gap System Rotor Inner rad = 20.38 mm, Rotor Outer rad = 21.96 mm, Rotor Height = 59.5 mm, Cup Inner rad =20 mm, Volume = 6.48 ml.

AR-G2 Smart Swap Rotors for Concentric Cylinders

546011.901	AR-G2 HA Aluminum Conical DIN Rotor, rad = 14 mm, height = 42 mm
546016.901	AR-G2 HA Aluminum Recessed End Rotor, rad = 14 mm, height = 42 mm
546012.901	AR-G2 Stainless Steel Conical DIN Rotor, rad = 14 mm, height = 42 mm
546017.901	AR-G2 Stainless Steel Recessed End Rotor, rad = 14 mm, height = 42 mm
546026.901	AR-G2 Stainless Steel Vaned Rotor, rad = 14 mm, height= 42 mm
546027.901	AR-G2 Wide Gap Vaned Rotor with Heat Break, rad = 7.5 mm, height = 38 mm
546049.901	AR-G2 HA Aluminum Double Gap Rotor, Inner rad = 16 mm, Outer rad = 17.5 mm, H = 53 mm
546021.901	AR-G2 Ver 1 HA Aluminum Double Gap Rotor, Inner rad = 20 mm, Outer rad = 22.38, H = 59.5 mm
546022.901	AR-G2 Ver 1 Stainless Steel Double Gap Rotor, Inner rad = 20 mm, Outer rad = 22.38, H = 59.5 mm
546048.901	AR-G2 Stainless Steel Double Gap Rotor, Inner rad = 20 mm, Outer rad = 22.38 mm, height = 59.5 mm

AR2000, AR1XXX, and AR5XX Rotors for Concentric Cylinders

545012.001	HA Aluminum Conical DIN Rotor, rad = 14 mm, height = 42 mm
545023.001	HA Aluminum Recessed End Rotor, rad = 14 mm, height = 42 mm
545026.001	Stainless Steel, Conical DIN Rotor, rad = 14 mm, height = 42 mm
545027.001	Stainless Steel, Recessed End Rotor, rad = 14 mm, height = 42 mm
545025.001	Stainless Steel, Vaned Rotor, rad = 14 mm, height = 42 mm
545028.001	Wide Gap Vaned Rotor with Heat Break, rad = 7.5 mm, height = 38 mm
545662.001	HA Aluminum Double Gap Rotor, Inner rad = 16 mm, Outer rad = 17.5 mm, height = 53 mm
545031.001	Ver 1 HA Aluminum Double Gap Rotor , Inner rad = 20.38 mm, Outer rad = 21.96, height = 59.5 mm
545035.001	Ver 1 Stainless Steel, Double Gap Rotor, Inner rad = 20.38 mm, Outer rad = 21.96, height = 59.5 mm
545660.001	Stainless Steel, Double Gap Rotor, Inner rad = 20.38 mm, Outer rad = 21.96 mm, height = 59.5 mm

AR-G2/AR2000/AR1500 Peltier Concentric Cylinder Cups

545622.001	HA Aluminum, Standard Concentric Cylinder Cup (rad = 15 mm) for AR-Series Peltier Jacket
545630.001	Stainless Steel, Standard Concentric Cylinder Cup (rad = 15 mm) for AR-Series Peltier Jacket
546050.901	HA AL Double Gap Concentric Cylinder Cup (Inner rad = 15.1 mm) for AR-Series Peltier Jacket
545612.901	Ver 1 HA AL Double Gap Concentric Cylinder Cup (Inner rad = 20 mm, Outer rad = 22.38 mm) for AR-Series Peltier Jacket
545613.901	Ver 1 Stainless Steel Double Gap Concentric Cylinder Cup (Inner rad = 20 mm, Outer rad = 22.38 mm) for AR-Series Peltier Jacket
546045.901	Stainless Steel Double Gap Concentric Cylinder Cup (Inner rad = 20 mm, Outer rad = 22.38 mm) for AR-Series Peltier Jacket
545626.001	Split cover for AR-Series Smart Swap Peltier Concentric Cylinders
545615.901	HA AL Large diameter Concentric Cylinder Cup (rad = 22 mm) for AR-Series Peltier Jacket
545642.001	Stainless Steel Blank Plug for AR-Series Peltier Jacket Double Gap Cup
545610.901	HA AL Grooved Concentric Cylinder Cup for AR-Series Peltier Jacket
545666.001	HA AL Starch Rotor Concentric Cylinder Cup (rad = 18.5 mm) for AR-Series Peltier Jacket
545609.901	Peltier Concentric Cylinder Solvent Trap. Note: Not for use with Double Wall Concentric Cylinder system.

AR1000 / AR550 Concentric Cylinder Cups and Jacket Adapters

545032.001	AR1000 / AR550 Double Gap Fluid Jacket Cup Adapter
545004.901	AR1000 / AR550 Double Gap Concentric Cylinder Cup, Inner rad = 20 mm
545014.001	AR1000 / AR550 Fluid Jacket Cup Adapter
545003.901	AR1000 / AR550 Standard Concentric Cylinder Cup, rad = 15 mm
545061.901	AR1000 / AR550 Concentric Cylinder PT100

Circulators (Computer Controlled)

500020.901	Computer Controlled Circulator, Model FP35HE [US] For use with CSA II and AR1000 / AR550 Concentric Cylinders.
575004.901	Computer Controlled Circulator, Model FP35HE [UK] For use with CSA II and AR1000 / AR550 Concentric Cylinders.

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

UHP and Dry Asphalt Systems

545803.901	AR-G2 Upper Heated Plate System (for use with Peltier Plate)
545804.901	Dry Asphalt system for AR-G2
545815.901	AR-G2 Upper Heated Plate Smart Swap Geometry Shaft and Heat Spreader

545801.901	AR2000 / AR1500 Upper heated Plate System (for use with Peltier Plate) Note: AR2000 Instruments with serial numbers prior to 4F.... will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost of $2,300.00 (price includes installation by TA Service Engineer). Option requires Rheology Advantage v5.1 (P/N: 595120.801). AR2000 Rheometers with serial numbers 6D3066 and below, require calibration cable P/N: 552025.001, sold separately.
545802.901	AR2000 / AR1500 Dry Asphalt system Note: AR2000 Instruments with serial numbers prior to 4F.... will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost of $2,300.00 (price includes installation by TA Service Engineer). Option requires Rheology Advantage v5.1 (P/N: 595120.801). AR2000 Rheometers with serial numbers 6D3066 and below, require calibration cable P/N: 552025.001, sold separately.
545808.901	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.
545807.901	AR-Series UHP and Dry Asphalt Standard Cooling Option Note: This cooling option is required when cooling with fluid circulator above temperatures of 5°C. Customer must supply fluid circulator.
545809.901	AR-Series UHP and Dry Asphalt Vortex Cooler Note: Requires Low Temperature Cooling Option P/N: 545808.901.
545805.901	AR2000 (ONLY) UHP / EHP / Dry Asphalt Mounting Kit and Installation
545810.901	AR2000 / AR1500 UHP Upper Disposable Plate Holder Note: Plates sold separately, see ETC Disposable Plates section.
545817.901	AR-G2 Smart Swap UHP Upper Disposable Plate Holder Note: Not compatible with UTS.
545811.901	Replacement EHP, UHP, and Dry Asphalt System Geometry Shaft with heat Spreader. For use with upper screw-in plates.
552025.001	AR2000 ONLY Temperature Calibration Cable
554104.901	AR-Series Combined UHP and Peltier Manifold Note: For use over temperature range of 5 to 90°C. Requires chilling circulator with water circulation fluid controlled at 2°C. TA provided chilling circulator P/N: 403234.901 (120V) or P/N: 403234.902 (220V).

EHP Electrically Heated Plate Kits

546101.901	AR-G2 Electrically Heated Plate System Note: Max Temperature = 400°C. Includes 25 mm stainless steel plates.
546102.901	AR-G2 Electrically Heated Disposable Plate System Note: Max Temperature = 400°C. Includes five sets of 25 mm drip channel disposable plates.
546106.901	AR-G2 Add-On Disposable Plate Accessory for EHP Note: Includes parts necessary to convert Electrically Heated Plate System, P/N: 546101.901, for disposable plate use. Includes five sets of 25 mm drip channel disposable plates.
546104.901	AR2000/ex and AR1500ex Electrically Heated Plate System Note: Max Temperature = 400°C. Includes 25 mm stainless steel plates. AR2000 Instruments with serial numbers prior to 4F.... will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost of $2,300.00 (price includes installation by TA Service Engineer). Option requires Rheology Advantage v5.1 (P/N: 595120.801).

546105.901	AR2000/ex and AR1500ex Electrically Heated Disposable Plate System
	Note: Max Temperature = 400°C. Includs five sets of 25 mm drip channel disposable plates. AR2000 Instruments with serial numbers prior to 4F.... will require UHP Mounting Kit and Installation, P/N: 545805.901, at an additional cost of $2,300.00 (price includes installation by TA Service Engineer). Option requires Rheology Advantage v5.1 (P/N: 595120.801).
546107.901	AR2000/ex and AR1500ex Add-On Disposable Plate Accessory for EHP
	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.
546109.901	EHP Glass Purge Cover Max Use Temp = 300°C
546127.901	EHP GCA KIT (cooling down to -70°C)
991400.902	Gas Cooling Accessory for Q800 and AR-Series EHP
546153.901	AR EHP-GCA Transformer 220/240V to 110/120V (ROW)
546152.901	AR EHP-GCA Transformer 220/240V to 110/120V (UK ONLY)

AR-G2 EHP and UHP Stainless Steel Smart Swap Upper (Upper Temp 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 AR-G2 EHP and UHP Temperature Systems.

546202.901	AR-G2, Stainless Steel, 8 mm Upper UTS Plate (use with P/N: 546240.001)
546220.901	AR-G2, Stainless Steel, 20 mm Upper UTS Plate (use with P/N: 546261.001)
546203.901	AR-G2, Stainless Steel, 25 mm Upper UTS Plate (use with P/N: 546241.001)
546204.901	AR-G2, Stainless Steel, 40 mm Upper UTS Plate (use w/lower P/N: 546242.001)
546210.901	AR-G2, Stainless Steel, 25 mm 0.1 Rad Upper UTS Cone (use with P/N: 546241.001)
546208.901	AR-G2, Stainless Steel, 25 mm 0.04 Rad Upper UTS Cone (use with P/N: 546241.001)
546206.901	AR-G2, Stainless Steel, 25 mm 0.02 Rad Upper UTS Cone (use with P/N: 546241.001)
546205.901	AR-G2, Stainless Steel, 25 mm 1 deg Upper UTS Cone (use with P/N: 546241.001)
546207.901	AR-G2, Stainless Steel, 25 mm 2 deg Upper UTS Cone (use with P/N: 546241.001)
546209.901	AR-G2, Stainless Steel, 25 mm 4 deg Upper UTS Cone (use with P/N: 546241.001)
546216.901	AR-G2, Stainless Steel, 40 mm 0.1 Rad Upper UTS Cone (use with P/N: 546242.001)
546214.901	AR-G2, Stainless Steel, 40 mm 0.04 Rad Upper UTS Cone (use with P/N: 546242.001)
546212.901	AR-G2, Stainless Steel, 40 mm 0.02 Rad Upper UTS Cone (use with P/N: 546242.001)
546211.901	AR-G2, Stainless Steel, 40 mm 1 deg Upper UTS Cone (use with P/N: 546242.001)
546213.901	AR-G2, Stainless Steel, 40 mm 2 deg Upper UTS Cone (use with P/N: 546242.001)
546215.901	AR-G2, Stainless Steel, 40 mm 4 deg Upper UTS Cone (use with P/N: 546242.001)
546041.901	AR-G2, Upper Temperature Sensor Draw Rod
	Note: For use with EHP and UHP temperature systems. Requires UTS geometries. UTS drawrod comes standard with EHP temperature system ONLY.

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

NOTES: Screw-in Parallel Plates for use with following Systems: 1) AR-G2 EHP: Lower Plate only, 2) AR2000/1500ex EHP upper and lower, 3) AR-G2,AR2000 and AR1500ex UHP with Std. Peltier Plate: Upper plate Only, and 4) AR-G2, AR2000/ex and AR1500ex Dry Asphalt System: For upper and lower use (two of these parts are required to replace both upper and lower). These plates are constructed with flats and are used with flat plate removal wrench.

546241.001	Stainless Steel, 25 mm Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546261.001	Stainless Steel, 20 mm Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546242.001	Stainless Steel, 40 mm Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546240.001	Stainless Steel, 8 mm Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546259.001	Stainless Steel, 8 mm Cross Hatched Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546255.001	Stainless Steel, 25 mm Cross Hatched Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546256.001	Stainless Steel, 40 mm Cross Hatched Screw-in Parallel Plates for EHP, UHP, and Dry Asphalt
546248.001	Stainless Steel, 25 mm, 0.1 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546246.001	Stainless Steel, 25 mm, 0.04 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546244.001	Stainless Steel, 25 mm, 0.02 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546243.001	Stainless Steel, 25 mm, 1 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546245.001	Stainless Steel, 25 mm, 2 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546247.001	Stainless Steel, 25 mm, 4 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546254.001	Stainless Steel, 40 mm, 0.1 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546252.001	Stainless Steel, 40 mm, 0.04 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546250.001	Stainless Steel, 40 mm, 0.02 rad, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546249.001	Stainless Steel, 40 mm, 1 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546251.001	Stainless Steel, 40 mm, 2 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP
546253.001	Stainless Steel, 40 mm, 4 deg, Screw-in Cone for AR2000/ex, AR1500ex EHP, and UHP

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

543401.901	AR-G2 and AR2000ex Environmental Test Chamber
	Note: Maximum Temperature = 600°C.
543501.901	AR-G2 and AR2000ex ETC Oven Camera Viewer Option

AR-G2 ETC Kits

543407.901	AR-G2 ETC Torsion Clamp Accessory Kit Note: Includes clamps for rectangular solid samples. Maximum Sample Size: l = 50 mm, w = 13 mm, t = 5 mm.
543408.901	AR-G2 ETC Disposable Parallel Plate Accessory Kit
543406.901	AR-G2 ETC Parallel Plate Accessory Kit Note: Includes 25 mm stainless steel parallel plates. All other geometries purchased separately.
543409.901	AR-G2 ETC Pressure Sensitive Adhesives Accessory Kit Note: Includes 8 and 25 mm stainless steel parallel plates. All other geometries purchased separately.
543410.901	AR-G2 ETC Asphalt Parallel Plate Accessory Kit Note: Includes 8 and 25 mm stainless steel parallel plates and silicone asphlat molds.

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

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

AR2000 ETC Kits

543307.901	AR2000 ETC Torsion Clamp Accessory Kit Note: Includes clamps for rectangular solid samples. Maximum Sample Size: l = 50 mm, w = 13 mm, t = 5 mm.
543708.901	AR2000 ETC Disposable Parallel Plate Accessory Kit
543706.901	AR2000 ETC Parallel Plate Accessory Kit Note: Includes 25 mm stainless steel parallel plates. All other geometries purchased separately.
543709.901	AR2000 ETC Pressure Sensitive Adhesives Accessory Kit Note: Includes 8 and 25 mm stainless steel parallel plates. All other geometries purchased separately.
543710.901	AR2000 ETC Asphalt Parallel Plate Accessory Kit Note: Includes 8 and 25 mm stainless steel parallel plates and silicone asphalt molds.

AR2000 ETC Stainless Steel Upper Single Piece Geometries

543336.001	AR2000, Stainless Steel, 8 mm Upper ETC Plate (use with P/N: 527080.904)
543330.001	AR2000, Stainless Steel, 25 mm Upper ETC Plate (use with P/N: 527250.904)
543331.001	AR2000, Stainless Steel, 40 mm Upper ETC Plate (use with P/N: 527400.903)
543337.001	AR2000, Stainless Steel, 25 mm Cross Hatched ETC Plate (use with P/N: 527250.906)
543338.001	AR2000, Stainless Steel, 40 mm Cross Hatched ETC Plate (use with P/N: 527400.905)
543351.001	AR2000, Stainless Steel, 25 mm, 0.1 rad, ETC Cone (use with P/N: 527250.904)
543352.001	AR2000, Stainless Steel, 25 mm, 0.04 rad, ETC Cone (use with P/N: 527250.904)
543361.001	AR2000, Stainless Steel, 25 mm, 2 deg, ETC Cone (use with P/N: 527250.904)
543362.001	AR2000, Stainless Steel, 25 mm, 4 deg, ETC Cone (use with P/N: 527250.904)
543371.001	AR2000, Stainless Steel, 40 mm, 2 deg, ETC Cone (use with P/N: 527400.903)
543372.001	AR2000, Stainless Steel, 40 mm, 4 deg, ETC Cone (use with P/N: 527400.903)
543339.901	AR2000, Upper Torsion Shaft

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

Note: For Use with Upper ETC Shaft (AR2000 P/N: 543319.901, AR1000/550 P/N: 543112.901).
Parts compatible with ETM upper shaft.

527080.904	SST, 8 mm Stepped Lower ETC Plate (use with single piece upper shaft / geometries, or use two of this part number if using upper screwed shaft)
527250.903	SST, 25 mm Non-Stepped Upper ETC Plate (use with lower screw-in plate P/N: 527250.904)
527250.904	SST, 25 mm Stepped Lower ETC Plate (use with single piece upper shaft / geometries, or use with upper screw-in plate P/N: 527250.903 and upper screwed shaft)
527400.903	SST, 40 mm ETC Plate, Use for upper and lower (use one with single piece upper shaft P/N: 543331.001, or two required if used with upper screwed shaft)
527250.905	SST, Cross Hatched, 25 mm Non-Stepped Upper ETC Plate (use with lower screw-in plate P/N: 527250.906)
527250.906	SST, Cross Hatched, 25 mm Stepped Lower ETC Plate (use with single piece upper shaft / geometries, or use with upper screw-in plate P/N: 527250.905 if using upper screwed shaft)
527400.905	SST, Cross Hatched 40 mm ETC Plate, Use for upper and lower (use with single piece upper shaft / geometries, or use two of this part number if using upper screwed shaft)

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

Note: For use with upper ETC shaft (AR2000 P/N: 543319.901, AR1000/550 P/N: 543112.901 and/or lower ETC fixture.

526080.904	HA Aluminum, 8 mm Stepped Lower ETC Plate (2 required)
526250.903	HA Aluminum, 25 mm Non-Stepped Upper ETC Plate (use with P/N: 526250.904)
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)

AR1000 / 550 ETC Kits

543014.901	AR1000 / 550 ETC Torsion Clamp Accessory Kit
543016.901	AR1000 / 550 ETC Disposable Parallel Plate Accessory Kit
543015.901	AR1000 / 550 ETC Parallel Plate Accessory Kit

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

Note: For use with upper ETC shaft (AR2000 P/N: 543334.901, AR1000/550 P/N: 543) or ETM upper shaft.

543334.901	AR2000/ex and AR1500, Upper Disposable Plate Shaft
523250.927	Aluminum 25 mm ETC Disposable Plates, (pkg of 100)
523400.927	Aluminum 40 mm ETC Disposable Plates, (pkg of 100)
523250.928	Aluminum 25 mm ETC Disposable Plates with Drip Chanel, (pkg of 100)
523200.917	Aluminum, 20 mm Disposable Plates, Ten Sets (20 pcs)
523250.937	Aluminum, 25 mm Disposable Plates, Ten Sets (20 pcs)
523400.937	Aluminum, 40 mm Disposable Plates, Ten Sets (20 pcs)
523250.938	Aluminum, 25 mm Disposable Drip Channel Plates, Ten Sets (20 pcs)

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 AR-G2 / AR2000 / AR1000 / AR550

543311.901	AR-Series ETC Flow Meter Kit
543313.901	AR-Series Low Temperature Fittings with LN2 Dewar
543312.901	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 (AR2000 P/N: 543112.901, AR1000/550 P/N: 543319.901.
For correct operation cones require a matched plate (eg. 523406.903 4cm 2 deg cone requires 523400.903 4cm 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 annodized 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)

AR-Series Specialty Geometries and Accessories

AR-Series Torsion Immersion

545606.901	AR-Series Smart Swap Torsion Immersion System
545618.901	AR-Series smart Swap Torsion Immersion Kit Note: Requires Peltier Fluid Jacket P/N: 545611.901.

AR-Series Smart Swap Base

531056.901	Blank Smart Swap Base

AR-G2/AR2000 Pressure Cell

547001.901	AR-G2 / AR2000 Pressure Cell Note: Requires Smart Swap Peltier Concentric Cylinder Jacket P/N: 545611.901.

AR-Series Smart Swap Starch Pasting Cell and Replacement Parts

545702.901	AR-G2 Starch Pasting Cell
545712.901	AR-G2, Replacement Rotor for Starch Pasting Cell
545713.901	AR-G2, HA AL Conical Rotor For Starch Pasting Cell
545701.901	AR2000/ex and AR1500 Starch Pasting Cell
545723.001	Replacement Cup for Starch Pasting Cell
545751.001	Replacement Rotor for Starch Pasting Cell, AR2000/ex and AR1500
545761.001	HA AL Conical Rotor For Starch Pasting Cell, AR2000/ex and AR1500

AR UV-Curing Option

546301.901	AR Series UV Light Guide Accy without UV Light Source
546302.901	AR Series 365 nm LED UV Curing Accessory
546304.901	AR Series 455 nm LED Blue Light Curing Accessory
546303.901	AR Series UV Light Guide Accy with UV Light Source
546384.901	UV Curing Accessory Plate Rubber Ring Plate Guards
546319.901	AR2000ex, SST Disposable Plate Shaft for UV Accessories
546320.901	AR-G2, SST Smart Swap Disposable Plate Shaft for UV Accessories
403153.001	20 mm Quartz Plate for ARES and AR-UV Option Note: For use with the upper plate fixture of ARES-UV option, and the lower plate fixture of AR-UV option.
403064.901	Package of 10 disposable 20 mm diameter acrylic plates Note: For use with the upper plate fixture of ARES-UV option, and the lower plate fixture of AR-UV option.
200400.001	Replacement 5 mm diameter light guide for ARES and AR-UV Options
403170.001	Replacement remote radiometer/dosimeter for ARES and AR-UV Options

AR-Series Smart Swap Interfacial Rheology Systems and Accessories

545903.901	AR-G2 Smart Swap Interfacial Bicone Accessory
545902.901	Dynamic Du Nouy Ring Interfacial Rheology System for AR-G2
530021.001	PT-IR du Nouy Ring Geometry for Dynamic Interfacial System
545901.901	Interfacial Viscosity Bicone System for AR2000 Note: Includes 80 mm diameter Teflon® cup, 68 mm diameter and 10° angle stainless steel bicone geometry, and cover.
545922.001	Bicone Cup, 80 mm Diameter Teflon® Interfacial Cup for AR2000 and AR-G2
545931.001	Bicone Geometery, Stainless Steel, 68 mm Diameter 10 deg
578155.001	Sample-Vessel 70 mm diameter (glass-cup)

AR Series Smart Swap Asphalt Submersion Cell

554103.901	AR-Series Smart Swap Asphalt Submersion Cell

Quartz Geometries

524400.902	Quartz, 40 mm Parallel Plate, AR2000, AR1000, and AR550 Only

Ambient Disposable Plate System

Note: Clip-on system for AR1000 and AR550 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

Lower Cross Hatch Peltier Plate Covers, For Ambient Use Only

517040.901	40 mm Cross Hatched Clip-on Peltier Plate Cover, Ambient Use Only
517060.901	60 mm Cross Hatched Clip-on Peltier Plate Cover, Ambient Use Only

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)

545415.901	Filter / Regulator
545420.901	Replacement Oil Filter Element, Red (for use with P/N: 545415.901)
545421.901	Replacement 25 Micron White Filter Element (for use with P/N: 545415.901)
500030.901	Membrane Compressed Air Dryer
575005.901	Air Compressor with Dryer, Oil-Free

AR-G2 and AR2000ex SALS Accessory

546401.901	AR Series SALS Accessory
546418.901	Quartz 50 mm Plate
546417.901	AR-G2 Quartz 50 mm Plate
546484.001	SALS Polystyrene Alignment Material
546483.001	SALS Neutral Density Filter Kit

AR-G2 and AR2000ex SER2 Universal Testing Platform

547906.901	SER2 Universal Testing Platform for AR-G2 and AR2000ex (temperature range: 0 to 290°C)
200974.002	SER2 Standard Drum Pair for AR Rheometers
200975.002	SER2 Knurled Surface Drum Pair Set for AR Rheometers
200976.002	SER2 Rough Surface Drum Pair Set for AR Rheometers
200977.002	SER2 Securing Clamps for AR Rheometers (pkg of 6)
200978.001	SER2 Dual Blade Cutter Assembly
200979.001	Razor Blades for SER2 Blade Cutter (pkg of 50)

AR-Series, CSA, and CSA II Asphalt Accessories

Cylinderical Torsion

543033.001	Asphalt Cylinderical Torsion End Pieces

Automated Temperature Calibration

554024.901	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, AR Wet Asphalt

554003.901	CSA Replacement Filter Material, 1 Package
554004.901	Replacement CSA, UHP, Dry Asphalt Plate Removal Tool
585062.901	CSA and CSA II Maintenance Kit
585037.901	CSA and CSA II Replacement Solenoid Valve
554007.901	Asphalt Sample Molds, 1 Pair

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

NOTES: Screw-in Parallel Plates for use with following Systems: 1) CSA / CSA II: Lower Plate only, 2) AR-G2 and AR2000/ex and AR1500 UHP with Std. Peltier Plate: Upper plate Only and 3) AR-G2 and AR2000/ex and AR1500 Dry Asphalt System: For upper and lower use (two of these parts are required to replace both upper and lower). These plates are constructed with four holes with plate removal.

554001.901	Stainless Steel, 8 mm Screw-in Parallel Plates for CSA, UHP, and Dry Asphalt
554008.901	Stainless Steel, 12 mm Screw-in Parallel Plates for CSA, UHP, and Dry Asphalt
554002.901	Stainless Steel, 25 mm Screw-in Parallel Plates for CSA, UHP, and Dry Asphalt
554019.902	HA Aluminum, 8 mm Screw-in Parallel Plates for CSA, UHP, and Dry Asphalt
554020.902	HA Aluminum, 25 mm Screw-in Parallel Plates for CSA, UHP, and Dry Asphalt

Peltier, UHP, Dry Asphalt System Replacement Parts

575015.901	Air Cooled Peltier Circulator 230V / 50Hz. (Julabo AWC 100)
200808.001	Submersible Pump for Peltier Temp Systems [US] (Temporary Use Only)
575002.901	Submersible Pump for Peltier Temp Systems [UK] (Temporary Use Only)
250002.001	Peltier Cooling Reservoir (Fish tank) [US]
575003.901	Peltier Cooling Reservoir (Fish tank) [UK]
952377.901	Fungicide for Peltier Resrvoir
532067.901	AR-Rheometer Vibration Isolation Pads

Stainless Steel Sample Trimming Tools

545852.001	3 mm UHP Plate Trimming Tool (for use with Standard Peltier Plate)
545851.001	6 mm UHP Dry Asphalt System Trimming Tool (for use with stepped Peltier)

Standard Oils

250024.001	Low Viscosity Standard Oil ~ 100 mPa.s (cP) @ 25°C [US]
250024.002	High Viscosity Standard Oil ~ 1400 mPa.s (cP) @ 25°C [US]
575100.901	Low Viscosity Standard Oil, Nominal Viscosity 1.0 Pa.s (N4000) [UK]
575101.901	High Viscosity Standard Oil, Nominal Viscosity 17 Pa.s (N4000) [UK]

Rheology Text Books

575105.901	A Handbook of Elementary Rheology, Howard A. Barnes
575103.901	Introduction to Rheology, H.A. Barnes, J.F. Hutton and K. Walters

RSA III

RSA III Temperature Options

403164.901	FCO Mechanical Chiller Panel Note: Requires Customer to Purchase Polycold PGC 152 mechanical Chiller directly from Polycold.
700.03382.6	FCO Liquid Nitrogen Controller Option

RSA III Software

402000.901	TA Orchestrator Software for ARES / RSA III
402010.901	Orchestrator Polymer Library
402000.802	TA Orchestrator Software Update CD for ARES / RSA III

Waveform and Fast Sampling Option

402020.951	Waveform and Fast Sampling Option Upgrade (for ARES V5, V6, or V8)

RSA III DETA: Dielectric Thermal Analysis Option

Note: Agilent E4980A-001 LCR Meter is model provided with DETA options including a bridge. Customers must supply this bridge if purchasing option without bridge included.

700.02903.4	RSA III Dielectric Thermal Analysis Option, Includes Bridge; 120 VAC, 60 Hz Note: Includes Agilent E4980A-001 LCR Meter and 25 mm Parallel Plates.
700.02903.5	RSA III Dielectric Thermal Analysis Tooling, Bridge Not Included; 120 VAC, 60 Hz Note: Includes 25 mm Parallel Plates and Interface for customer supplied Agilent E4980A-001 Bridge.

RSA III Fixtures

708.01456	3-Point Bending Fixture
708.01446	Cantilever Bending Fixture
708.01455	Film / Fiber Fixture
708.01464	Parallel Plate Fixture
708.01466.1	8 mm Plates for Parallel Plate Fixture
708.01466.2	15 mm Plates for Parallel Plate Fixture
708.01466.3	25 mm Plates for Parallel Plate Fixture
708.01461	Shear Sandwich Fixture
708.01465	Contact Lens Fixture
700.03649	RSA III Immersion Fixture

Note: Includes Tension and 15 mm diameter Compression Fixtures. Also includes 5 mm, 10 mm, and 20 mm 3-point bending fixtures.

Miscellaneous Accessories

700.02657.2	Air Dryer
708.01457	Adaptors for RSA2 Tools

NOTES

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