

Spare Parts

Spare parts are generally available from stock for immediate shipment from our manufacturing facility in Bohemia, New York. The parts listings in this section are for customers who may wish to maintain a stock of spares at their facility for several years of operation. This may be of particular interest to overseas customers. Suggested quantities are in parentheses ().

Please note: The parts listed in this section are for current equipment models at the time of printing. When ordering spare parts for new equipment from this catalog, substitutions may be made by Koehler to reflect engineering changes. Koehler will provide written notification of any changes before processing your order. When ordering spare parts for existing equipment, please specify the model number and serial number of your equipment. This will insure that the correct parts are supplied.

K10020 Powertrol Heater, 115VPage 43
225-115-001 Heater 750W (1)

K10029 Powertrol Heater, 220-240VPage 43
225-230-001 Heater, 750W (1)

K10090 U-Tube Aniline Apparatus, 115VPage 43
K10050 Belt (1)
K10060 Pyrex U-Tube (1)
279-063-002 Bulb (1)
288-115-001 Motor (1)
289-002-001 Bearings (4)

K10091 U-Tube Aniline Apparatus, 220-240VPage 43
K10050 Belt (1)
K10060 Pyrex U-Tube (1)
279-063-002 Bulb (1)
K10091-0-1 Motor, Modification (1)
289-002-001 Bearings (4)

K10190 Thin Film Aniline Apparatus, 115VPage 43
K10050 Belt (1)
K10120 Pyrex Pump Body (1)
K10130 Thin Film Tube (1)
279-063-002 Bulb (1)
288-115-001 Motor (1)
289-002-001 Bearings (2)

K10191 Thin Film Aniline Apparatus, 220-240VPage 43
K10050 Belt (1)
K10120 Pyrex Pump Body (1)
K10130 Thin Film Tube (1)
279-063-002 Bulb (1)
289-002-001 Bearings (2)
K10091-09000 Motor, Modification (1)

K10200 Automatic Aniline Apparatus, 115VPage 42
K10220 Heating & Cooling Tube (1)
K102-5S Flexible Drive Shaft (1)
280-115-001 Powerstat (1)
288-115-001 Motor (1)
279-115-001 Indicator Light Bulb (2)
278-010-001 Fuse, 10A (1)
K102-20 Heater Coil (1)
289-001-001 Bearings (2)

K10290 Automatic Aniline Apparatus, 220-240VPage 42
K10220 Heating & Cooling Tube (1)
K102-5S Flexible Drive Shaft (1)
280-115-001 Powerstat (1)
288-115-001 Motor (1)
279-115-001 Indicator Light Bulb (2)
278-010-010 Fuse, 10A (1)
K102-20 Heater Coil (1)
090-024-001 Relay (1)
289-001-001 Bearings (2)
240-230-001 Transformer (1)

K10400 Oxidation Stability Bath, 2-Unit, 115VPages 81, 82
K10400-11000 Heater, 2000W
379-001-001 Liquid Level Switch

K10401 Oxidation Stability Bath, 2 Unit, 115VPages 81, 82
220-120-007 Cartridge Heater, 250W (6)
265-122-002 RTD Temperature Probe, 3 in., 3 Wire, 1200
265-122-003 RTD Temperature Probe, 3 in., 2 Wire, 1200
278-020-002 Fuse, 20A
278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A

K10402 Oxidation Stability Bath, 2-Unit, 220-240VPages 81, 82
K10402-11000 Heater, 2000W
379-001-001 Liquid Level Switch

K10403 Oxidation Stability Bath, 4-Unit, 115VPages 81, 82
220-120-007 Cartridge Heater
265-122-002 RTD Temperature Probe, 3 in., 3 Wire
265-122-003 RTD Temperature Probe, 3 in., 2 Wire
278-030-001 Fuse, 30A
278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A

K10404 Oxidation Stability Bath, 4-6 Unit, 220-240VPages 81, 82
265-500-001 RTD Temperature Probe, 12 in.
265-600-001 RTD Temperature Probe, 4 in.
278-020-002 Fuse, 20A
278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A

K10491 Oxidation Stability Bath, 2-Unit, 220-240VPages 81, 82
220-240-006 Cartridge Heater, 250W (6)
265-122-002 RTD Temperature Probe, 3 in., 3 Wire
265-122-003 RTD Temperature Probe, 3 in., 2 Wire
278-020-002 Fuse, 20A
278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A

K10493 Oxidation Stability Bath, 4-Unit, 220-240VPages 81, 82
220-240-006 Cartridge Heater, 250W, 240V
265-122-002 RTD Temperature Probe, 3 in., 3 Wire, 1200
265-122-003 RTD Temperature Probe, 3 in., 2 Wire, 1200
278-020-002 Fuse, 20A
278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A
041-032-001 Relay, Solid State, 4-32 V DC, 20A
275-103-008 Temperature Controller, 100-240V, 1 out



Spare Parts (Continued)

K10500 Oxidation Pressure VesselPage 80	K12190 Oxidation Stability Bath, 220-240VPage 123
K10510 Composition Gaskets	K121A-0-17 Heater, 750W, 230V (1)
K105-0-12 Relief Tube	288-230-002 Motor, 230V, 50/60Hz (1)
260-102-005 Rupture Disc, Alum with Liner	K70519 RTD Temperature Probe, 12 in.
260-104-014 Burst Disc Holder	265-600-001 RTD Temperature Probe, 4 in.
461-001-001 Silicone Vacuum Grease	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
K10901 Oxidation Bath, 115VPage 152	K12200 Oxidation Stability Bath, 8-Unit, 115VPage 120
K70519 RTD Temperature Probe, 12 in.	K122-2-15B Heater, 750W (1)
265-600-001 RTD Temperature Probe, 4 in.	K122-2-15C Heater, 750W (1)
278-020-002 Fuse, 20A	288-115-004 Motor (1)
278-001-002 Fuse, 1A	K70519 RTD Temperature Probe, 12 in.
278-104-002 Fuse, 0.25A	265-600-001 RTD Temperature Probe, 4 in.
275-103-008 Temperature Controller, 100-240V, 1 out	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
K10991 Oxidation Bath, 220-240VPage 152	278-104-002 Fuse, 0.25A
K70519 RTD Temperature Probe, 12 in.	275-103-008 Temperature Controller, 100-240V, 1 out
265-600-001 RTD Temperature Probe, 4 in.	
278-020-002 Fuse, 20A	K12201 Solid Block Oxidation Bath, 220-240VPage 121
278-001-002 Fuse, 1A	187A Temperature Control Unit
278-104-002 Fuse, 0.25A	091-240-003 Relay, 120/240V, 25A
275-103-008 Temperature Controller, 100-240V, 1 out	265-400-004 RTD Probe, 10 in.
	220-240-009 Heater, 750W, 220V (6)
K11201 Reid Vapor Pressure Bomb for LPGPage 92	K12212 Oxidation Stability Bath, 12-Unit, 115VPage 120
AS568-210 O-ring (1)	K122-12-2-22A Heater, 1500W, back, 115V (1)
AS568-113 O-ring (1)	K122-12-2-22B Heater, 1500W, middle, 115V (1)
	K122-12-2-22C Heater, 750W, front, 115V (1)
K11415/K11416 Reid Vapor Pressure Bath, 21-Unit, 220-240V, 50Hz and 60HzPage 83	K70519 RTD Temperature Probe, 12 in.
235-240-005 Heater, 6000W (1)	265-600-001 RTD Temperature Probe, 4 in.
265-400-002 Temperature Probe (1)	288-115-004 Motor (1)
	K23300-03004 Stirrer Shaft
K11450 Reid Vapor Pressure Bath, 4-Unit, 115VPage 83	091-032-004 Relay, Solid State, 32 V DC
K11450-0-1 Heater, 2000W, 115V	278-040-001 Fuse, 40A, Time Delay CLSG
K70519 RTD Temperature Probe, 12 in.	
278-020-002 Fuse, 20A	K12219 Oxidation Stability Bath, 12-Unit, 220-240VPage 120
278-001-002 Fuse, 1A	K122-12A-2-22A Heater, 1500W, back, 220V (1)
288-115-004 Motor (1)	K122-12A-2-22B Heater, 1500W, middle, 220V (1)
275-103-009 Temperature Controller, 100-240V, 2 out	K122-12A-2-22C Heater, 750W, front, 220V (1)
	K70519 RTD Temperature Probe, 12 in.
K11459 Vapor Pressure Bath, 4-Unit, 220-240VPage 83	265-600-001 RTD Temperature Probe, 4 in.
K11459-0-1 Heater, 2000W, 230V (1)	278-030-001 Fuse, 30A, Slo-blo, midget
K70519 RTD Temperature Probe, 12 in.	278-001-002 Fuse, 1A
278-020-002 Fuse, 20A	278-104-002 Fuse, 0.25A
278-001-002 Fuse, 1A	288-115-004 Motor (1)
288-115-004 Motor (1)	275-103-008 Temperature Controller, 100-240V, 1out
275-103-009 Temperature Controller, 100-240V, 2 out	
	K12290 Oxidation Stability Bath, 8-Unit, 220-240VPage 120
K12100 Oxidation Stability Bath, 115VPage 123	K122A-2-15B Heater, 750W, Inner, 230V (1)
K121-0-17 Heater, 750W, 115V (1)	K122A-2-15C Heater, 750W, Outer, 230V (1)
K70519 RTD Temperature Probe, 12 in.	K70519 RTD Temperature Probe, 12 in.
265-600-001 RTD Temperature Probe, 4 in.	265-600-001 RTD Temperature Probe, 4 in.
278-020-002 Fuse, 20A	278-020-002 Fuse, 20A
278-001-002 Fuse, 1A	278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A	278-104-002 Fuse, 0.25A
288-115-002 Motor, 115V, 50/60Hz (1)	288-115-004 Motor (1)
275-103-008 Temperature Controller, 100-240V, 1 out	

Spare Parts (Continued)

K12300 Series Oxidation Stability Bath, 220-240V, 50 and 60HzPage 121	K15670 Tag Electric Open Cup Flash Tester, 220-240VPage 37
Model Numbers K12330, K12339, K12300, K12395	190-240-009 Ring Heater (1)
235-240-005 Heater, 6000W, 240V (2)	K138-0-11 Valve Stem (2)
265-400-002 RTD Temperature Probe, 12 in.	K156-0-1A Flame Test Burner and Pilot Assembly (1)
265-400-004 RTD Temperature Probe, 10 in.	
K13009 Saybolt ChromometerPage 44	K16000 Pensky-Martens Flash Tester, GasPage 34
K13018 Gasket (pkg. of 12)	K160-9 Flexible Shaft (1)
K13020 Color Standard (Full) (2)	K16220-0-6 Drive Belt
K13029 Color Standard (Half) (1)	
K13032 Glass Set, Turret & Draincock Assembly	K16200 Pensky-Martens Flash Tester, 115VPage 34
K13039 Plain Tube with Turret Assembly	225-115-001 Heater, 750W (1)
K13050 Graduated Tube with Connections and Draincock Assembly	K160-9 Flexible Shaft (1)
K13090 Frosted Mirror without Base (1)	
K13100 Saybolt Wax Chromometer, 115VPage 44	K16270 Pensky-Martens Flash Tester, 220-240VPage 34
K13018 Gasket (pkg. of 12)	225-230-001 Heater, 750W (1)
K13020 Color Standard (Full) (1)	K160-9 Flexible Shaft (1)
K13029 Color Standard (Half) (1)	
K13033 Glass Set, Turret and Graduated Tube	K17100 Wax Coating Device, 115VPage 177
K13090 Frosted Mirror without Base (1)	190-120-009 Heater (1)
K131-0-26 Cartridge Heater, 115V (1)	K171-0-12 Equalizer Rod
K131-0-28 Strip Heater, 200W, 115V (1)	280-115-004 Variable Transformer
AS568-211 O-ring (2)	
K13190 Saybolt Wax Chromometer, 220-240VPage 44	K17190 Wax Coating Device, 220-240VPage 177
K13018 Gasket (pkg. of 12)	190-120-009 Heater (1)
K13020 Color Standard (Full) (1)	240-230-001 Stepdown Transformer (1)
K13029 Color Standard (Half) (1)	
K13033 Glass Set, Turret and Graduated Tube	K17200 Type A Blocking Plate, 115VPage 177
K13090 Frosted Mirror without Base (1)	236-115-001 Heater, 250W (1)
K131A-0-26 Cartridge Heater, 50W, 230V (1)	
K131A-0-28 Strip Heater, 200W, 230V (1)	K17290 Type A Blocking Plate, 220-240VPage 177
AS568-211 O-ring (2)	236-230-001 Heater, 250W (1)
K13900 Cleveland Flash Tester, 115VPage 36	K17300 Type B Blocking Plate, 115VPage 177
K138-1-17 Insulation Plate (1)	K173-0-11 A Heater (1)
225-115-002 Heater, 1000W, 115V (1)	K173-0-11 C Heater, 300W (1)
010-115-005 Wattstat, 115V (1)	288-115-001 Motor (1)
K13990 Cleveland Flash Tester, 220-240VPage 36	K17390 Type B Blocking Plate, 220-240VPage 177
K138-1-17 Insulation Plate (1)	K173-0-11B Heater (1)
225-230-002 Heater, 1000W, 230V (1)	K173-0-11D Heater, 300W (1)
AS568-008 O-ring (1)	288-230-002 Motor (1)
010-230-004 Wattstat, 230V (1)	
K14600 Tag Electric Closed Tester, 115VPage 35	K17500 Wax Melting Point ApparatusPage 178
190-120-001 Heater (1)	K175-0-5 Cork, Sample Thermometer (1)
010-115-005 Wattstat, 115V (1)	K175-0-6 Cork, Bath Thermometer (1)
K14670 Tag Electric Closed Tester, 220-240VPage 35	285-000-006 Cork without hole (1)
190-240-009 Heater (1)	K175-0-8 Pyrex Sample Tube (1)
010-230-005 Wattstat, 230V (1)	
K15600 Tag Electric Open Cup Flash Tester, 115VPage 37	K17600 Oil Solvent Extractables Content Apparatus, 115VPage 179
190-120-001 Heater (1)	K176-1-0-26 Glass Manifold (1)
K138-0-11 Valve Stem (2)	279-115-006 Lamp, 100W, 115V (1)
K156-0-1A Flame Test Burner and Pilot Assembly (1)	332-003-004 15mL Weighing Bottle (4)
	K17690 Oil Solvent of Extractables Content Apparatus, 220-240VPage 179
	K176-1-0-26 Glass Manifold (1)
	279-230-004 Lamp, 100W, 230V (1)
	332-003-004 15mL Weighing Bottle (4)

Spare Parts (Continued)

K17970/K17979 Corrosion Preventive Properties Apparatus, 115V and 220-240VPage 154	K18300/K18320 Roll Stability Tester, Single/Double Unit, 115VPages 27, 156
K17910 Test Bearings (3)	325-000-025 #25 Chain (30")
K17930 Containers/Lids (3)	237-115-002 Heater, Finned, Strip, 600W, 115V
K179-0-6 Spring	265-600-001 RTD Temperature Probe, 4 in. (1)
K179-0-8 Lockscrew	K183-0-44 Bearing (4)
288-115-036 Motor, 115/230V, 60Hz	AS568-117 O-ring
	AS568-154 O-ring
K17980/K17989 Corrosion Preventive Properties Apparatus, 115V and 220-240VPage 154	278-020-002 Fuse, 20A
AS568-224 O-ring (1)	278-001-002 Fuse, 1A
AS568-329 O-ring (1)	091-032-001 Relay, Solid State, 4-32V DC, 20A
360-115-012 Motor Speed Control	275-103-009 Temperature Controller, 100-240V, 2 out
289-004-002 Outboard Bearing Set	
288-115-053 Motor, 1/4 hp, 130 V DC and Resistor	K18305 Series Roll Stability Tester, Single/Double-Unit, 220-240V, 50HzPage 156
278-002-001 Fuse, 2A	Model Numbers K18305, K18306, K18325, K18326
K18000 Manual Grease Working MachinePage 28	325-000-025 #25 Chain (30")
22H-308-20C Wing Screws (6)	215-230-001 Heater, 1200W, 230V
	265-550-001 RTD Temperature Probe, 4 in. (1)
K18100 Series Mechanical Grease Workers, Single-Unit, 115V and 220-240VPages 26, 28	289-002-006 Flanged Bushings (6)
Model Numbers K18100, K18110, K18119	K183-1-21B Plain Bushings (4)
289-001-002 Bearing (1)	278-020-002 Fuse, 20A
320-115-001 Counter	278-001-002 Fuse, 1A
050-001-006 Start/Stop Switch	288-115-004 Motor Fan
050-001-007 Proximity Switch	AS568-117 O-ring
K180-1-0-11 Clamp Spring (2)	AS568-154 O-ring
271-015-001 Thermal Circuit Breaker, 15A	
K18190 Series Mechanical Grease Workers, Double-Unit, 115V and 220-240VPage 28	K18340 Roll Stability Tester, 4-Unit, 115V, 60HzPage 156
Model Numbers K18190, K18191, K18192	237-115-001 Heater, 1000W, 115V (2)
289-001-002 Bearing (2)	265-600-001 RTD Temperature Probe, 4 in. (1)
320-115-001 Counter	289-002-004 Ball Bearing (3)
050-001-006 Start/Stop Switch	289-002-006 Flanged Bushing (12)
050-001-007 Proximity Switch	K183-1-21B Plain Bushing (11)
K180-1-0-11 Clamp Spring (4)	288-115-035 Motor, Gear, 115V, 60Hz, 83rpm
271-015-001 Thermal Circuit Breaker, 15A	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
K18200 Water Spray Apparatus, 115V, 60HzPage 163	AS568-117 O-ring
301-002-006 Belt (1)	AS568-154 O-ring
K182-0-10 Heater, 750W (1)	275-103-009 Temperature Controller, 100-240V, 2 out
K18210 Test Panel	
255-200-001 Temperature Control with Fitting	K18345/K18346 Roll Stability Tester, 4-Unit, 220-240V, 50Hz and 60HzPage 156
356-001-002 Pump	215-230-002 Heater, 2000W, 115V (1)
039-104-00B Snubber, Brass	265-600-001 RTD Temperature Probe, 4 in. (1)
165-308-001 Leveling Foot (4)	288-115-004 Motor, Fan
288-115-015 Motor 115V, 60Hz, 1/3 hp	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
K18290/K18295 Water Spray Apparatus, 220-240V, 50Hz and 60HzPage 163	AS568-117 O-ring
301-002-006 Belt (1)	AS568-154 O-ring
K182A-0-10 Heater (1)	
K18210 Test Panel	K18500 High Temperature Wheel Bearing Tester, 115V, 60HzPage 161
255-200-001 Temperature Control	215-115-001 Heater, 1200W, 115V (1)
356-001-002 Pump	288-115-004 Fan Motor (1)
039-104-00B Snubber, Brass	K185-0-42 Cabinet Thermocouple (1)
165-308-001 Leveling Foot (4)	K185-0-42A Spindle Thermocouple (1)
288-115-012 Motor 115/230V, 60Hz, 1/3 hp	289-004-001 Inboard Bearing Set
	289-004-002 Outboard Bearing Set
	K185-0-66 Motor, modification

Spare Parts (Continued)

K18590/K18595 High Temperature Wheel Bearing Tester, 220-240V, 50Hz and 60Hz.....Page 161

215-230-001	Heater (1)
288-115-004	Fan Motor (1)
278-010-001	Fuse, 10A (5)
278-015-001	Fuse, 15A (5)
278-020-001	Fuse, 20A (5)
K185-0-42	Cabinet Thermocouple (1)
K1 85-0-42A	Spindle Thermocouple (1)
289-004-001	Inboard Bearing Set
289-004-002	Outboard Bearing Set

K18700 Leakage Tendencies of Automotive Wheel Bearing Greases, 115V, 60Hz.....Page 160

275-250-003	Electronic Temperature Control
200-115-004	Heater (2)
301-004-002	Vee Belt (60Hz) (1)
288-115-027	Motor
265-550-001	RTD Temperature Probe

K18790 Leakage Tendencies of Automotive Wheel Bearing Greases, 220-240V, 60Hz.....Page 160

200-230-004	Heater (2)
301-004-002	Vee Belt (60Hz) (1)
265-550-001	RTD Temperature Probe
288-115-027	Motor
275-250-003	Electronic Temperature Control

K18795 Leakage Tendencies of Automotive Wheel Bearing Greases, 220-240V, 50Hz.....Page 160

200-230-004	Heater (2)
301-004-005	Vee Belt (50Hz) (1)
265-550-001	RTD Temperature Probe, 4 in. (1)
288-230-005	Motor

K18850 Series Low Temperature Torque Apparatus, 220-240V, 50Hz and 60Hz.....Page 159

Model Numbers K18850, K18851, K18852, K18853, K18854, K18855, K18860, K18861, K18862, K18863, K18864, K18865

301-002-007	Timing Belt (2)
265-000-002	Spindle Thermocouple (2)
289-007-001	Boston 5F x 7/8 Flanged Bearing (4)
360-230-001	Strain Gauge (2)
K18860-0-16	Small Bearing Set (2)
K18860-0-24	Large Bearing Set (2)
288-115-038	Motor (1)

K18910 Constant Temperature Air Cabinet, 115V.....Page 165

288-115-002	Motor, 115V
K189-1-0-17	Heater, 115V
283-120-002	Solenoid Valve, 115V (2)
265-400-002	RTD Temperature Probe
275-103-010	Electronic Temperature Control, Digital
278-061-002	Fuse, 1A, Slo-blo

K18919 Constant Temperature Air Cabinet, 220-240V.....Page 165

288-230-002	Motor, 230V
K189-1A-0-17	Heater, 230V
283-240-001	Solenoid Valve, 230V (2)
265-400-002	RTD Temperature Probe
275-103-010	Electric Temperature Control
278-001-002	Fuse, 1A, Slo-blo

K19200 Water Washout Tester, 115V, 60Hz.....Page 162

K192-4-4	Heater, 380 W, 115V (1)
301-004-008	Vee Belt, 22"
301-004-007	Vee Belt, 37"
289-001-009	Ball Bearing (2)
289-001-006	Test Bearing (3)
K192-4-3	Thermoregulator
K192-2-5	Flowmeter
288-115-027	Motor
AS568-214	O-ring (2)
356-001-001	Water Pump
K192-1-8	Bearing Housing Gasket

K19290 Water Washout Tester, 220-240V, 60Hz.....Page 162

K192A-4-4	Heater, 380W, 220V (1)
301-004-008	Vee Belt, 22"
301-004-007	Vee Belt, 37"
289-001-009	Ball Bearing
289-001-006	Test Bearing
AS568-214	O-ring
K192-1-8	Bearing Housing Gasket
K1142-4-3	Thermoregulator
K192-2-5	Flowmeter
288-115-027	Motor
356-001-001	Water Pump

K19295 Water Washout Tester, 220-240V, 50Hz.....Page 162

K192A-4-4	Heater, 380W, 220V (1)
301-004-003	Vee Belt, 37", 50 Hz (1)
288-230-005	Motor, 110/220V, 50Hz

K19400 High Temperature Dropping Point Apparatus, 115V.....Page 151

220-120-001	Heater (cartridge), 750W, 120V (1)
279-115-002	Lamp (1)
330-000-001	Starter (1)
265-203-001	Temperature Probe, Type "K", 3/16 dia x 4"
194EB	Test Tube 13x100mm (10)
194EC	Cup Support (10)
275-103-010	Electronic Temperature Control
091-240-002	Solid State Relay, 25A, 90-240V

K19410 High Temperature Dropping Point Apparatus, 220-240V.....Page 151

220-240-001	Heater (cartridge) (1)
279-115-002	Lamp (1)
330-000-001	Starter (1)
265-203-001	Temperature Probe, Type "K" (1)
194EB	Test Tube 13x100mm (10)
194EC	Cup Support (10)
275-103-010	Electronic Temperature Control, 100-240V
091-240-002	Solid State Relay, 25A, 90-240V

Spare Parts (Continued)

K19490 Dropping Point Apparatus, 115VPage 150	K22680 Series Grease Mobility Tester, 115V and 220-240VPage 158
K19492 Test Tube with Indentations	Model Numbers K22680, K22685, K22686
K19493 Thermometer Cork	K226-0-20 Cylinder Gasket (2)
K194A-0-7 Bath Thermometer Cork	K226-0-21 Capillary Gasket (1)
332-002-005 Pyrex™ Beaker	
010-115-005 Wattstat, 115V	K22690 Series Low Temperature Pressure Viscometer,
225-115-001 Heater Element	115V and 220-240V, 50Hz and 60HzPage 157
288-115-001 Motor	Model Numbers K22690, K22695, K22696
	320-000-003 Counter
K19491 Dropping Point Apparatus, 220-240VPage 150	288-115-014 Motor, 115/230V, 60Hz
K19492 Test Tube with Indentation	288-230-005 Motor, 115/230V, 50Hz
K19493 Thermometer Cork	K226-0-22 Capillaries (8)
K194A-0-7 Bath Thermometer Cork	265-000-001 Thermocouple Wires
332-002-005 Pyrex™ Beaker	AS568-231 O-ring
010-230-004 Wattstat, 230V	
225-230-001 Heater Element, 230V	K22751 Digital Refrigerated Kinematic Viscosity Bath,
288-115-001 Motor	115VPage 6
	091-032-001 Solid State Relay
K19500 PenetrometerPage 24	K22751-03001 Stirrer Motor, 115V
332-005-008 5" diameter Watch Glass (1)	335-115-002 Condenser Fan Motor, 115V
K195-11 Plunger Drop Cushion	220-120-009 Heater, 115V
K195-23 Plunger Release Spacer	265-500-001 RTD Sensor
K195-24 Plunger Release Lever (1)	279-115-009 Fluorescent Lamp
K195-29 Teflon Inserts	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
K21410 Saybolt Viscometer Bath, 115VPage 16	278-104-002 Fuse, 0.25A
200-115-003 Heater, 500W (2)	
200-115-002 Heater, 150W (1)	K22752/K22754 Digital Refrigerated Kinematic Viscosity Bath,
288-115-002 Motor (1)	220-240VPage 6
265-500-001 RTD Temperature Probe, 12 in.	091-032-001 Solid State Relay
265-600-001 RTD Temperature Probe, 4 in.	K22752-03040 Motor, Modification, 230V
278-020-002 Fuse, 20A	335-230-001 Condenser Fan Motor, 230V
278-001-002 Fuse, 1A	220-240-013 Heater, 230V
278-104-002 Fuse, 0.25A	265-500-001 RTD Sensor
	279-115-009 Fluorescent Lamp
K21420 Saybolt Viscometer Bath, 220-240VPage 16	278-020-002 Fuse, 20A
200-230-003 Heater, 500W (2)	278-001-002 Fuse, 1A
200-230-002 Heater, 150W (1)	278-104-002 Fuse, 0.25A
288-230-002 Motor (1)	
265-500-001 RTD Temperature Probe, 12 in.	K22753 Digital Refrigerated Kinematic Viscosity Bath,
265-600-001 RTD Temperature Probe, 4 in.	115VPage 6
278-020-002 Fuse, 20A	091-032-003 Solid State Relay
278-001-002 Fuse, 1A	K22753-03040 Stirrer Motor, 115V
278-104-002 Fuse, 0.25A	335-115-002 Condenser Fan Motor, 115V
	220-120-009 Heater, 115V
K22600/K22610 Pressure Viscometer, 115V and 220-240VPage 157	265-500-001 RTD Sensor
K226-0-20 Cylinder Gasket (2)	279-115-009 Fluorescent Lamp
K226-0-21 Capillary Gasket (8)	278-020-002 Fuse, 20A
265-000-001 Thermocouple (1)	278-001-002 Fuse, 1A
288-115-014 Motor (1)	278-104-002 Fuse, 0.25A
349-000-009 Coupling Spider (1)	
	K23700/K23800 Series Kinematic Viscosity Baths,
K22615 Pressure Viscometer, 220-240V, 50HzPage 157	115V, 50Hz/60HzPages 3, 5
K226-0-20 Cylinder Gasket (2)	Model Numbers K23700, K23702, K23706, K23708, K23800, K23802
K226-0-21 Capillary Gasket (8)	265-500-001 RTD Temperature Probe
265-000-001 Thermocouple (1)	278-104-002 Fuse, 0.25A, Slo-blo
288-230-005 Motor (1)	279-115-009 Fluorescent Lamp, 50W, 120V
349-000-009 Coupling Spider (1)	335-115-005 Fan, 115V, 50/60Hz, 53CFM
	332-001-001 Pyrex™ Jar
	K23700-03006 Heater, 1250W, 115V
	K23700-03013 Motor, Modification, 115V

Spare Parts (Continued)

K23700/K23800 Series Kinematic Viscosity Baths, 220-240V, 50Hz/60HzPages 3, 5	K26150 Pressure Hydrometer CylinderPage 103
Model Numbers K23790, K23792, K23796, K23798, K23890, K23892	AS568-032 O-ring, Buna 'N'
265-500-001 RTD Temperature Probe	K26015 Lucite Cylinder
278-104-002 Fuse, 0.25A, Slo-blo	260-104-001 Pressure Release Valve
279-115-009 Fluorescent Lamp, 50W, 120V	K26150-0-6 Neoprene Cushion
335-230-005 Fan, 230V, 50/60Hz, 53CFM	
332-001-001 Pyrex™ Jar	K26200 Constant Temperature Hydrometer Bath, 115VPage 50
K23700-03015 Heater, 1250W, 230V	K262-0-10 Heater (1)
K23700-03014 Motor, Modification, 230V	354-001-002 Rheostat (1)
K25310/K25320 Copper Strip Corrosion Test Bath, 4-Unit and 8-Unit, 115VPages 90, 91, 99	K26290 Constant Temperature Hydrometer Bath, 220-240VPage 50
K253-1-0-8 Heater, 750W (1)	K262A-0-10 Heater (1)
K253-2-0-8 Heater, 750W (K25320) (1)	354-001-002 Rheostat (1)
191 RTD Probe Assembly	
275-250-003 Electronic Temperature Control	K26400 Constant Temperature Hydrometer Bath, 115VPage 50
	K26400-1-5 Heater, 1500W (1)
K25319/K25329 Copper Strip Corrosion Test Bath, 4-Unit and 8-Unit, 220-240VPages 90, 91, 99	K26400-1-5A Heater, 1000W (1)
K253-1A-0-8 Heater, 750W (1)	K70519 RTD Temperature Probe, 12 in.
K253-2A-0-8 Heater, 750W (K25309) (1)	265-600-001 RTD Temperature Probe, 4 in.
191 RTD Probe Assembly	091-032-002 Relay, Solid State, 4-32 V DC, 30A
275-250-003 Electronic Temperature Control	275-103-008 Temperature Controller, 100-240V, 1 out
K25330 Test Tube Bath, 115VPages 90, 91, 131, 155	K26490 Constant Temperature Hydrometer Bath, 220-240VPage 50
K253-1-0-8 Heater, 750W, 115V (1)	K26490-1-5 Heater, 1500W (1)
288-115-001 Stirrer Motor (1)	K26490-1-5A Heater, 1000W (1)
265-500-001 RTD Temperature Probe, 12 in.	K70519 RTD Temperature Probe, 12 in.
278-020-002 Fuse, 20A	265-600-001 RTD Temperature Probe, 4 in.
278-001-002 Fuse, 1A	091-032-002 Relay, Solid State, 4-32 V DC, 30A
091-032-001 Relay, Solid State, 4-32V DC, 20A	275-103-008 Temperature Controller, 100-240V, 1 out
275-103-009 Temperature Controller, 100-240V, 2 out	
191 RTD Probe Assembly	
K25339 Test Tube Bath, 220-240VPages 90, 91, 131, 155	K26500 Thermometer Calibration Bath, 115VPage 63
K253-1A-0-8 Heater, 750W, 230V (1)	K26500-0-15 Heater, 750W (1)
K70519 RTD Temperature Probe, 12 in.	265-400-002 RTD Temperature Probe (1)
278-020-002 Fuse, 20A	288-115-001 Motor (1)
278-001-002 Fuse, 1A	091-240-003 Relay, 120/240V, 25A
K10091-09000 Stirrer Motor	187 Temperature Controller, 115V
091-032-001 Relay, Solid State, 4-32V DC, 20A	
275-103-009 Temperature Controller, 100-240V, 2 out	K26590 Thermometer Calibration Bath, 220-240VPage 63
191 RTD Probe Assembly	K26500-0-15A Heater, 750W (1)
	265-400-002 RTD Temperature Probe (1)
K25900 Constant Temperature Water Bath, 115V 60HzPage 103	288-230-002 Motor (1)
K25900-0-15 Heater, 750W (1)	187A Temperature Controller, 230V
010-500-003 Temperature Probe, 500Ω (1)	
288-115-004 Motor (1)	K27000 Smoke Point LampPage 95
010-115-002 Type "B" Controller	K27040 Replacement Window (1)
010-010-002 Potentiometer	K270-0-22 Scale (1)
356-115-001 Pump	
K25990/K25995 Constant Temperature Water Bath, 220-240V, 50Hz and 60HzPage 103	K27100 Ramsbottom Carbon Residue Apparatus, 115VPage 59
K25990-0-15 Heater, 750W (1)	230-115-001 Heater, 2400W (1)
010-500-003 Temperature Probe 500Ω (1)	265-203-001 Temperature Probe, Type "K", 3/8 dia x 4"
288-115-004 Motor (1)	278-030-001 Fuse, 30A
010-115-002 Type "B" Controller	278-001-002 Fuse, 1A
010-010-002 Potentiometer	278-104-002 Fuse, 0.25A
356-115-001 Pump	091-032-002 Relay, Solid State, 4-32V DC, 20A
	275-103-008 Temperature Controller, 100-240V, 1 out

Spare Parts (Continued)

K27190 Ramsbottom Carbon Residue Apparatus, 220-240VPage 59	K29750/K29759 Freezing Point Apparatus (ASTM D1177), 115V and 220-240VPage 68
230-230-002 Heater, 2400W (1)	K29750-1-1 200mL Tube (1)
265-203-001 Temperature Probe, Type "K", 3/16 dia x 4"	332-003-012 2 quart Dewar Flask (1)
278-020-002 Fuse, 20A	
278-001-002 Fuse, 1A	
278-104-002 Fuse, 0.25A	
091-032-001 Relay, Solid State, 4-32V DC, 20A	K29760/K29769 Wax Appearance Point Apparatus, 115V and 220-240VPage 94
275-103-008 Temperature Controller, 100-240V, 1 out	K297-0-1 Vacuum Flask (1)
	K29760-0-2 Sample Tube (1)
K28300 Bending ApparatusPage 172	
K283-0-14 Test Panel	
K28310 Cooling ApparatusPage 172	
K28310-0-1 Large Stopper	
K28310-0-2 Small Stopper	
K28310-0-3 Inner Flask	
K297-0-1 Vacuum Flask	
332-014-001 Funnel	
K29300 High Temperature Evaporation Loss ApparatusPage 149	K29900/K29990 Lead Corrosion Apparatus, 220-240V, 50Hz and 60HzPage 130
190-240-003 Heater, 500W, 240V (1)	288-115-004 Bath Motor (1)
220-240-002 Heater, 650W (2)	K299-0-45A Heater, 500W (1)
265-122-002 RTD Temperature Probe, 3 in., 3 Wire	K299-0-45B Heater, 500W (1)
265-122-003 RTD Temperature Probe, 3 in., 2 Wire	K299-0-45C Heater, 2000W (1)
278-020-002 Fuse, 20A	265-500-001 RTD Temperature Probe, 12 in.
278-001-002 Fuse, 1A	K70519 RTD Temperature Probe, 4 in.
278-104-002 Fuse, 0.25A	278-020-002 Fuse, 20A
010-230-004 Wattstat (2)	278-001-002 Fuse, 1A
K293-0-12 Thermocouples (2)	278-104-002 Fuse, 0.25A
K293-0-20 Flowmeter (2)	091-032-001 Relay, Solid State, 4-32 V DC, 20A
010-230-004 Wattstat, 230V	275-103-008 Temperature Controller, 100-240V, 1 out
K29400 Evaporation Loss Bath, 115VPage 148	K30160/K30161 Rust Preventing Characteristics Oil Bath, 115V, 60HzPages 98, 128
K294-0-1 Heater, 1000W (1)	K301A-0-5 Heater, 1500W (1)
288-115-004 Motor (1)	301-005-001 Belt (1)
K70519 RTD Temperature Probe, 12 in.	288-115-056 Motor (1)
265-600-001 RTD Temperature Probe, 4 in.	265-600-001 RTD Temperature Probe, 4 in.
278-020-002 Fuse, 20A	278-020-002 Fuse, 20A
278-001-002 Fuse, 1A	278-001-002 Fuse, 1A
278-104-002 Fuse, 0.25A	278-104-002 Fuse, 0.25A
091-032-002 Relay, Solid State, 4-32V DC, 20A	275-103-008 Temperature Controller, 100-240V, 1 out
275-103-008 Temperature Controller, 100-240V, 1 out	K30165/K30167 Rust Preventing Characteristics Oil Bath, 220-240V, 50HzPage 98, 128
K29490 Evaporation Loss Test Bath, 220-240VPage 148	301-005-001 Belt (1)
K294A-0-1 Heater, 1000W (1)	K301A-1-0-5 Heater, 1500W (1)
288-115-004 Motor (1)	288-230-001 Motor (1)
K70519 RTD Temperature Probe, 12 in.	265-600-001 RTD Temperature Probe, 4 in., 600F
265-600-001 RTD Temperature Probe, 4 in.	278-020-002 Fuse, 20A
278-020-002 Fuse, 20A	278-001-002 Fuse, 1A
278-001-002 Fuse, 1A	278-104-002 Fuse, 0.25A
278-104-002 Fuse, 0.25A	091-032-001 Relay, Solid State, 4-32 V DC, 20A
275-103-008 Temperature Controller, 100-240V, 1 out	275-103-008 Temperature Controller, 100-240V, 1 out
K29700 Freezing Point ApparatusPage 96	K30166/K30168 Rust Preventing Characteristics Oil Bath, 220-240V, 60HzPage 98, 128
K297-0-1 Vacuum Flask (1)	301-005-001 Belt (1)
K297-0-2 Sample Tube (Jacketed) (1)	K301A-1-0-5 Heater, 1500W (1)
K297-0-8 Cork Strip (1)	288-230-003 Motor (1)
K297-0-5 #2 Neoprene Stopper	265-600-001 RTD Temperature Probe, 4 in., 600F
	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A

Spare Parts (Continued)

K31956 Connection ApparatusPage 176	K35000 Corrosion and Oxidation Stability Apparatus, 220-240V ...Page 124
K319-0-6 Condenser	220-240-006 Heater, 250W (14)
363-102-003 ½ ID Latex Tubing (2")	265-203-001 Temperature Probe, Type "K", ⅜ dia x 4"
K319-0-9 #14 Cork	K350-0-23 Test Tube (6)
K319-0-10 #4 Cork (2)	K350-0-24 Air Tube (6)
K319-0-7 End Tube	K350-0-25 Condenser (6)
K319-0-8 Pyrex™ Tube	278-020-002 Fuse, 20A
332-002-003 100mL Graduated Cylinder	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
	091-032-001 Relay, Solid State, 4-32 V DC, 20A
	275-103-008 Temperature Controller, 100-240V, 1 out
K33700 Existent Gum Evaporation Bath, 6-Unit, 220-240VPage 86	K34700 Brookfield Viscosity Air Bath, 115V 60HzPage 14
220-240-008 Heater, 500W (6)	278-001-002 Fuse, 1A
265-203-001 Temperature Probe, Type "K", ⅜ dia x 4"	278-020-002 Fuse, 20A
278-020-002 Fuse, 20A	278-104-002 Fuse, 0.25A
278-001-002 Fuse, 1A, 5 x 20 mm	K22751-03001 Motor, Modification, 115V 50/60Hz
K337-2-14 Flowmeter	
091-032-001 Relay, Solid State, 4-32V DC, 20A	
275-103-009 Temperature Controller, 100-240V, 2 out	
	K34701/K34702 Brookfield Viscosity Air Bath, 230V 50/60HzPage 14
	278-001-002 Fuse, 1A
K33780 Existent Gum Evaporation Bath, 3-Unit, 115VPage 86	278-020-002 Fuse, 20A
190-120-005 Heater, Ring, 500W, 120V (3)	278-104-002 Fuse, 0.25A
265-122-002 Temperature Probe 1200	K22752-03040 Motor, Modification, 230V 50/60Hz
090-120-014 Relay, SPDT, 120V, 20A	
K337-2-14 Flowmeter	K35200 Humidity Cabinet for Rust Protection, 115V, 60HzPage 65
275-103-009 Temperature Controller, 100-240V, 2 out	K352-0-22 Heater, 750W (2)
278-020-002 Fuse, 20A	191 RTD Probe Assembly
091-032-001 Relay, Solid State, 4-32V DC, 20A	
	K35295/K35296 Humidity Cabinet for Rust Protection, 220-240V, 50Hz and 60HzPage 65
K33781 Existent Gum Evaporation Bath, 3-Unit, 220-240VPage 86	K352A-0-22 Heater, 750W (2)
190-240-003 Heater, 500W (3)	191 RTD Probe Assembly
265-122-002 RTD Temperature Probe 1200	
091-032-001 Relay, Solid State, 4-32V DC, 20A	K36010 Water Bath, 115VPage 64
K337-2-14 Flowmeter	K360-1-4 Heater, 300W, 115V (1)
275-103-009 Temperature Controller, 100-240V, 2 out	191 RTD Probe Assembly
278-020-002 Fuse, 20A	
278-001-002 Fuse, 1A, 5 x 20 mm	K36019 Water Bath, 220-240VPage 64
	K360-1 A-4 Heater, 300W, 230V (1)
K33800 Existent Gum Evaporation Bath w/Superheater, 220-240VPages 86, 87	K36050 Unsulfonated Residue Tester, 115VPage 64
278-002-001 2A Fuse (2)	K36050-0-4 Heater, 1200W (1)
220-240-008 Heater, 500W (6)	
220-240-003 Superheater Heater, 1500W (1)	K36059 Unsulfonated Residue Tester, 220-240VPage 64
265-203-001 Temperature Probe, Type "K", ⅜ dia x 4"	K36059-0-4 Heater, 1200W
275-203-001 Controller	
K337-2-14 Flowmeter	K39100 Stirrer, 115VPage 112
275-550-001 Superheater Control	289-002-005 Motor Support Bearing (1)
265-550-002 RTD Probe	289-002-014 Center Bearing (1)
091-240-002 Relay, Solid State, 90-240V, 25A	289-002-015 Bottom Bearing (1)
	288-115-021 Motor 115V AC/DC, ⅓ hp
K33810 Steam Superheater, 220-240VPage 87	
220-240-003 Heater, 1500W (1)	K39110 Demulsibility Characteristics Bath, 115VPage 112
265-550-002 RTD Temperature Probe (1)	K114-0-16 Heater, 750W (1)
	288-115-004 Motor (1)
K34000/K34010 Viscometer Cleaning & Drying ApparatusPage 9	360-115-004 Stirrer Motor Control (2)
261-104-001 Filter (1)	265-500-001 RTD Temperature Probe, 12 in.
AS568-015 O-ring (1)	265-600-001 RTD Temperature Probe, 4 in.
	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A

Spare Parts (Continued)

K39119 Demulsibility Characteristics Bath, 220-240VPage 112	K42000/K42090 Powerrol Heater, 115V/230VPages 61, 72, 172
K114B-0-16 Heater, 750W (1)	225-115-001 Heater, 750W (1)
288-115-004 Motor (1)	010-115-005 Wattstat, 115V
360-115-004 Motor Control (2)	010-230-004 Wattstat, 230V
265-500-001 RTD Temperature Probe, 12 in.	
265-600-001 RTD Temperature Probe, 4 in.	
278-020-002 Fuse, 20A	
278-001-002 Fuse, 1A	
278-104-002 Fuse, 0.25A	
K39179 Conditioning BathPage 112	K43002 Dual Twin Foaming Characteristics Apparatus, 115VPage 109
K26490-1-5 Heater, 1500W	K43012 Cylinder & Sleeve Assembly (1)
K26490-1-5A Heater, 1000W	265-400-002 RTD Probe (2)
265-500-001 RTD Temperature Probe, 12 in.	K43002-0-9 Heater, Outer, 750W (1)
288-230-002 Motor	K43002-0-11 Heater, Inner, 750W (1)
278-020-002 Fuse, 20A	288-115-004 Motor (2)
278-001-002 Fuse, 1A	275-103-010 Temperature Control Unit (2)
	091-120-001 Relay, 120V
	K430-0-13 Air Outlet Elbow (4)
	K430-0-8 Rubber Stopper (4)
	278-001-002 Fuse, 1A, 5 x 20mm
K39180/K39189 Digital Demulsibility Characteristics Bath, 115V and 220-240VPage 112	K43003 Automatic Time Sequence Foaming Characteristics, 115VPage 109
275-103-002 Temperature Control	K430-0-8 Rubber Stopper (4)
265-400-002 Probe 12"	275-103-002 Temperature Control Unit (2)
279-115-002 Lamp	265-400-002 RTD Probe (2)
240-115-003 Ballast	288-115-004 Motor
330-000-001 Starter	090-120-010 Relay (2)
K39110-0-10S Heater	050-002-001 Line Switch (2)
091-240-002 Solid State	K430-0-13 Air Outlet Elbow (4)
332-001-003 Pyrex™ Jar, 12"x18"	K43002-0-9 Outer Heater
288-115-004 Motor	K43002-0-11 Inner Heater
	K43012 Cylinder and Holder Assembly (2)
	092-240-001 Timer
	278-001-002 Fuse, 1A, 5 x 20mm
	091-120-001 Relay, Solid State, 120 V
K39200/K39296 Water SeparabilityPage 111	K43025 Diffuser Stone TesterPage 110
341-000-002 Indexing Plunger	332-003-011 Flask 500mL
279-115-008 Incandescent Lamp, 115V	K43025-0-5 Stopper
279-230-005 Incandescent Lamp, 230V	338-000-001 Clamp Holder
080-075-002 Lamp Holder 230V E14 Base	337-000-008 Clamp Extension
080-075-001 Lamp Holder 115V E17 Base	332-002-016 Graduate
332-002-018 Cylinder, 100mL	
332-005-016 Pyrex™ Glass, Circle	
332-001-001 12x12 Pyrex™ Jar	
K39200-03009 Gasket, Glass Disk	
K39900 LPG Copper Corrosion Water Bath, 115VPage 89	K43041 Sequence IV Foaming Characteristics Apparatus, 115VPage 109
K253-1-0-8 Heater, 750W (1)	K43012 Cylinder & Sleeve Assembly (1)
275-250-003 Electronic Temperature Controller	K43002-0-9 Heater, Outer, 750W (1)
191 RTD Probe Assembly	K43002-0-11 Heater, Inner, 750W (1)
K39990 LPG Copper Corrosion Water Bath, 220-240VPage 89	265-400-002 RTD Probe (1)
K253-1A-0-8 Heater, 750W (1)	K430-0-8 Rubber Stopper
275-250-003 Electronic Temperature Controller	275-103-010 Temperature Control Unit
K40000 LPG Corrosion Test CylinderPage 89	288-115-004 Motor
AS568-218 O-ring (1)	091-240-002 Relay, Solid State, 90-240V, 25A
K40300 Cobalt Bromide Test ApparatusPage 105	090-120-010 Relay, 120V
K403-0-6 Plug	278-001-002 Fuse, 1A, 5 x 20mm
K403-0-11 Glass Tube	

Spare Parts (Continued)

K43049 Sequence IV Foaming Characteristics Apparatus, 220-240VPage 109

K43012	Cylinder & Sleeve Assembly (1)
K43092-0-9	Heater, Outer, 750W (1)
K43092-0-11	Heater, Inner, 750W (1)
K430-0-8	Rubber Stopper
275-103-010	Temperature Control Unit
265-400-002	RTD Probe
288-115-004	Motor
090-240-012	Relay
091-240-004	Relay
278-001-002	Fuse, 1A

K43092 Dual Twin Foaming Characteristics Apparatus, 220-240VPage 109

K43012	Cylinder & Sleeve Assembly (1)
265-400-002	RTD Probe (1)
K43092-0-9	Heater, Outer, 750W (1)
K43092-0-11	Heater, Inner, 750W (1)
288-115-004	Motor (2)
275-103-010	Temperature Control Unit
090-240-012	Relay
K430-0-13	Air Outlet Elbow
090-240-004	Solid State Relay
K430-0-8	Rubber Stopper

K43093 Automatic Time Sequence Foaming Characteristics, 220-240VPage 109

K430-0-8	Rubber Stopper (4)
265-400-002	RTD Probe (2)
288-115-004	Motor
091-240-004	Relay
050-002-001	Line Switch
K430-0-13	Air Outlet Elbow (4)
K43002-0-11	Inner Heater
K43002-0-9	Outer Heater
K43012	Cylinder and Holder Assembly

K45000 Front View Distillation Apparatus, Right-Hand, 115VPage 56

225-115-002	Heater, 1000W (1)
280-001-002	Brush Assembly (1)

K45090 Front View Distillation Apparatus, Right-Hand, 220-240VPage 56

225-230-002	Heater, 1000W (1)
280-001-003	Brush Assembly (1)

K45100 Front View Distillation Apparatus, Left-Hand, 115VPage 56

225-115-002	Heater, 1000W (1)
280-001-002	Brush Assembly (1)

K45190 Front View Distillation Apparatus, Left-Hand, 220-240VPage 56

225-230-002	Heater, 1000W (1)
280-001-003	Brush Assembly (1)

K45200 Group 4 Distillation Apparatus, Right-Hand, 115VPage 56

K452-0-3	Heater (condenser), 300W (1)
225-115-002	Heater, 1000W (1)
265-550-004	RTD Probe 0.25 OD x 90 deg. bend

K45290 Group 4 Distillation Apparatus, Right-Hand, 220-240VPage 56

K452A-0-3	Heater (condenser), 300W (1)
225-230-002	Heater, 1000W (1)
265-550-004	RTD Probe 0.25 OD x 90 deg. bend

K45300 Group 4 Distillation Apparatus, Left-Hand, 115VPage 56

K452-0-3	Heater (condenser), 300W (1)
225-115-002	Heater, 1000W (1)
265-550-004	RTD Probe 0.25 OD x 90 deg. bend

K45390 Group 4 Distillation Apparatus, Left-Hand, 220-240VPage 56

K452A-0-3	Heater (condenser), 300W (1)
225-230-002	Heater, 1000W (1)
265-550-004	RTD Probe 0.25 OD x 90 deg. bend

K45900 Cold Filter Plugging Point ApparatusPage 100

K459-0-7	Pipette (1)
K459-0-13B	Filter (1)
AS568-008	O-ring (2)

K46000 Cloud and Pour Point ChamberPage 132

K460-1-6	Cover (1)
K460-1-7B	Copper Cup (4)
K460-0-8	Thermometer Holder (4)
K46120	Disc (Cork) Bottom (4)
AS568-219	O-ring (4)
AS568-131	O-ring (4)

K46100 Series Refrigerated Cloud and Pour Point, 115V and 220-240V, 50Hz and 60HzPage 132

Model Numbers K46100, K46195, K46196

K46100-03002	Foam Covers
K46100-03030	Copper Test Jacket
091-032-003	Relay
265-400-005	RTD Probe
275-103-008	Temperature Controller, 1 out
283-120-005	Solenoid Coil, 115V
283-308-001	Solenoid Valve
278-001-002	Fuse, 1A
283-240-002	Solenoid Valve, 220V

K46300 Series Refrigerated Cloud and Pour Point, 115V and 220-240V, 50Hz and 60HzPage 132

Model Numbers K46300, K46395, K46396

K46300-03002	Foam Covers
K46100-03030	Copper Test Jacket
091-032-003	Relay
265-400-005	RTD Probe
275-103-008	Temperature Controller, 1 out
283-120-005	Solenoid Coil, 115V
283-308-001	Solenoid Valve
278-001-002	Fuse, 1A
283-240-002	Solenoid Valve, 220V

K46600/K46690 Dual Extraction Apparatus, 115V and 220-240VPage 60

354-001-003	Rheostat (1)
-------------	--------------

Spare Parts (Continued)

K47000 Autoignition Apparatus, 220-240VPage 39	K70000 Oxidation BombPage 114
K470-0-1-10 Thermocouple (1)	K70050-00000 Silicone O-ring (qty. depends on usage)
K470-0-1-15 Thermocouple (3)	K70060-00000 Valve (1)
332-003-007 500mL Flask (1)	
K47500 Wickbold Apparatus, 115VPage 58	K70200/K70290 2-Unit RBOT Bath, 220-240V, 50Hz and 60HzPage 116
311-015-003 Gauge (1)	K702-0-8 Heater, 1000W (1)
290-010-001 Pressure Regulator (1)	K702-0-8A Heater, 1000W (1)
037-108-00B Toggle Valve (1)	K702-0-8B Heater, 750W (1)
261-104-001 Filter (1)	301-004-001 Vee Belt (1)
	AS568-345-V14 O-ring (2)
	K700B-0-41 Drive Shaft Seal (8)
K47590 Wickbold Apparatus, 220-240VPage 58	K702-CHAIN Chain Kit (1)
311-015-003 Gauge (1)	050-001-028 Switch
290-010-001 Pressure Regulator (1)	289-001-005 Ball Bearing (2)
037-108-00B Toggle Valve (1)	265-500-001 RTD Temperature Probe, 12 in.
261-104-001 Filter (1)	265-600-001 RTD Temperature Probe, 4 in.
240-230-001 Stepdown Transformer (1)	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
K50100/K50190 Panel Coking Test ApparatusPage 135	K70300/K70390 3-Unit RBOT Bath, 220-240V, 50Hz and 60HzPage 116
275-103-010 Temperature Control	K703-0-8 Heater, 1000W (2)
360-115-008 Motor Control	K703-0-8A Heater, 750W (1)
360-115-009 Tachometer	301-004-001 Vee Belt (1)
360-000-002 Digital Pick Up	AS568-345-V14 O-ring (3)
K299-4-52 Flowmeter	K700B-0-41 Drive Shaft Seal (12)
K185-0-66 Motor Modification	K703-CHAIN Chain Kit (1)
381-115-002 Timer	289-001-005 Ball Bearing (2)
265-203-002 Thermocouple	288-115-004 Motor
236-115-003 Heater, 400W, 115V	050-001-028 Switch
332-017-001 Separatory Funnel	265-500-001 RTD Temperature Probe, 12 in.
220-240-010 Cartridge Heater, 300W, 240V	265-600-001 RTD Temperature Probe, 4 in.
220-120-008 Cartridge Heater, 300W, 115V	278-020-002 Fuse, 20A
091-240-002 Solid State Relay	278-001-002 Fuse, 1A
278-005-001 Fuse, 5A (4)	278-104-002 Fuse, 0.25A
278-002-001 Fuse, 2A (1)	
278-001-002 Fuse, 1A	
K56100 Cigre Bath, 115VPage 126	K70400/K70490 4-Unit RBOT Bath, 220-240V, 50Hz and 60HzPage 116
190-120-009 Heater, 200W (4)	K704-0-8 Heater, 1000W (3)
230-115-002 Heater, 600W (1)	K704-0-8A Heater, 750W (1)
AS568-213 O-ring (24)	301-004-001 Vee Belt (1)
K56110 Oxidation Tubes and Absorption Tubes 12 Sets (2 per set)	AS568-345-V14 O-ring (4)
265-122-002 RTD Temperature Probe, 3 in., 3 Wire	289-001-005 Ball Bearing (4)
265-122-003 RTD Temperature Probe, 3 in., 2 Wire	K700B-0-41 Drive Shaft Seal (16)
278-020-002 Fuse, 20A	K704-CHAIN Chain Kit (1)
278-001-002 Fuse, 1A	288-115-004 Motor, Aux. Stirrer
278-104-002 Fuse, 0.25A	050-001-028 Switch
	265-500-001 RTD Temperature Probe, 12 in.
K56190 Cigre Bath, 220-240VPage 126	265-600-001 RTD Temperature Probe, 4 in.
190-240-008 Heater, 200W (4)	278-020-002 Fuse, 20A
230-230-003 Heater, 600W (1)	278-001-002 Fuse, 1A
AS568-213 O-ring (24)	278-104-002 Fuse, 0.25A
K56110 Oxidation Tubes and Absorption Tubes 12 Sets (2 per set)	
265-122-002 RTD Temperature Probe, 3 in., 3 Wire	K95500/K95595/K99596 Digital PenetrometerPages 24, 25, 27
265-122-003 RTD Temperature Probe, 3 in., 2 Wire	277-001-001 Fuse Cap
278-020-002 Fuse, 20A	279-014-001 Bulb (3)
278-001-002 Fuse, 1A	278-004-001 Fuse (3)
278-104-002 Fuse, 0.25A	459-012-001 Battery, 12V (1)
	K95500-02001 Light Assembly