

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
225-115-002 Heater 1000W (1)

K10029 Powertrol Heater, 220-240VPage 43
225-230-002 Heater, 1000W (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)
K10091-090000 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)
K10091-090000 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
K70519 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., 2 Wire
265-122-003 RTD Temperature Probe, 3 in., 3 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., 2 Wire, 1200
265-122-003 RTD Temperature Probe, 3 in., 3 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
275-103-024 Temperature Controller, 100-240V, 1 out

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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 152-153	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.
275-103-024 Temperature Controller, 100-240V, 1 out	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
K10991 Oxidation Bath, 220-240VPage 152-153	278-104-002 Fuse, 0.25A
K70519 RTD Temperature Probe, 12 in.	275-103-024 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	091-240-003 Relay, 120/240V, 25A
278-104-002 Fuse, 0.25A	265-400-004 RTD Probe, 10 in.
275-103-024 Temperature Controller, 100-240V, 1 out	220-240-009 Heater, 750W, 220V (6)
K11201 Reid Vapor Pressure Bomb for LPGPage 92	
AS568-210 O-ring (1)	K12212 Oxidation Stability Bath, 12-Unit, 115VPage 120
AS568-113 O-ring (1)	K122-12-2-22A Heater, 1500W, back, 115V (1)
	K122-12-2-22B Heater, 1500W, middle, 115V (1)
K11415/K11416 Reid Vapor Pressure Bath, 21-Unit, 220-240V, 50Hz and 60HzPage 93	K122-12-2-22C Heater, 750W, front, 115V (1)
235-240-005 Heater, 6000W (1)	K70519 RTD Temperature Probe, 12 in.
265-400-002 Temperature Probe (1)	265-600-001 RTD Temperature Probe, 4 in.
	288-115-004 Motor (1)
K11450 Reid Vapor Pressure Bath, 4-Unit, 115VPage 93	K23300-03004 Stirrer Shaft
K11450-0-1 Heater, 2000W, 115V	091-032-004 Relay, Solid State, 32 V DC
K70519 RTD Temperature Probe, 12 in.	278-040-001 Fuse, 40A, Time Delay CLSG
278-020-002 Fuse, 20A	
278-001-002 Fuse, 1A	K12219 Oxidation Stability Bath, 12-Unit, 220-240VPage 120
288-115-004 Motor (1)	K122-12A-2-22A Heater, 1500W, back, 220V (1)
275-103-020 Temperature Controller, 100-240V, 2 out	K122-12A-2-22B Heater, 1500W, middle, 220V (1)
	K122-12A-2-22C Heater, 750W, front, 220V (1)
K11459 Vapor Pressure Bath, 4-Unit, 220-240VPage 93	K70519 RTD Temperature Probe, 12 in.
K11459-0-1 Heater, 2000W, 230V (1)	265-600-001 RTD Temperature Probe, 4 in.
K70519 RTD Temperature Probe, 12 in.	278-030-001 Fuse, 30A, Slo-blo, midget
278-020-002 Fuse, 20A	278-001-002 Fuse, 1A
278-001-002 Fuse, 1A	278-104-002 Fuse, 0.25A
288-115-004 Motor (1)	288-115-004 Motor (1)
275-103-020 Temperature Controller, 100-240V, 2 out	275-103-024 Temperature Controller, 100-240V, 1out
K12100 Oxidation Stability Bath, 115VPage 123	K12290 Oxidation Stability Bath, 8-Unit, 220-240VPage 120
K121-0-17 Heater, 750W, 115V (1)	K122A-2-15B Heater, 750W, Inner, 230V (1)
K70519 RTD Temperature Probe, 12 in.	K122A-2-15C Heater, 750W, Outer, 230V (1)
265-600-001 RTD Temperature Probe, 4 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	278-020-002 Fuse, 20A
278-104-002 Fuse, 0.25A	278-001-002 Fuse, 1A
288-115-062 Motor, 115V, 60Hz (1)	278-104-002 Fuse, 0.25A
275-103-024 Temperature Controller, 100-240V, 1 out	288-115-004 Motor (1)

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K12300 Series Oxidation Stability Bath, 220-240V, 50 and 60HzPage 121	K16000 Pensky-Martens Flash Tester, GasPage 34
Model Numbers K12330, K12339, K12300, K12395	K160-9 Flexible Shaft (1)
235-240-005 Heater, 6000W, 240V (2)	K16220-0-6 Drive Belt
265-400-002 RTD Temperature Probe, 12 in.	
265-400-004 RTD Temperature Probe, 10 in.	
K13009 Saybolt ChromometerPage 44	K16200 Pensky-Martens Flash Tester, 115VPage 34
K13018 Gasket (pkg. of 12)	225-115-002 Heater, 1000W (1)
K13020 Color Standard (Full) (2)	K160-9 Flexible Shaft (1)
K13029 Color Standard (Half) (1)	
K13032 Glass Set, Turret & Draincock Assembly	
K13039 Plain Tube with Turret Assembly	
K13050 Graduated Tube with Connections and Draincock Assembly	
K13090 Frosted Mirror without Base (1)	
K13012 Graduated Tube Gasket	
K13100 Saybolt Wax Chromometer, 115VPage 44	K16270 Pensky-Martens Flash Tester, 220-240VPage 34
K13018 Gasket (pkg. of 12)	225-230-002 Heater, 1000W (1)
K13020 Color Standard (Full) (1)	K160-9 Flexible Shaft (1)
K13029 Color Standard (Half) (1)	
K13033 Glass Set, Turret and Graduated Tube	
K13090 Frosted Mirror without Base (1)	
K131-0-26 Cartridge Heater, 115V (1)	
K131-0-28 Strip Heater, 200W, 115V (1)	
AS568-211 O-ring (2)	
K13190 Saybolt Wax Chromometer, 220-240VPage 44	K17100 Wax Coating Device, 115VPage 177
K13018 Gasket (pkg. of 12)	190-120-009 Heater (1)
K13020 Color Standard (Full) (1)	K171-0-12 Equalizer Rod
K13029 Color Standard (Half) (1)	280-115-004 Variable Transformer
K13033 Glass Set, Turret and Graduated Tube	
K13090 Frosted Mirror without Base (1)	
K131A-0-26 Cartridge Heater, 50W, 230V (1)	
K131A-0-28 Strip Heater, 200W, 230V (1)	
AS568-211 O-ring (2)	
K13900 Cleveland Flash Tester, 115VPage 36	K17190 Wax Coating Device, 220-240VPage 177
K138-1-17 Insulation Plate (1)	190-120-009 Heater (1)
225-115-002 Heater, 1000W, 115V (1)	240-230-001 Stepdown Transformer (1)
010-115-005 Wattstat, 115V (1)	
K13990 Cleveland Flash Tester, 220-240VPage 36	K17200 Type A Blocking Plate, 115VPage 177
K138-1-17 Insulation Plate (1)	236-115-001 Heater, 250W (1)
225-230-002 Heater, 1000W, 230V (1)	
AS568-008 O-ring (1)	
010-230-004 Wattstat, 230V (1)	
K14600 Tag Electric Closed Tester, 115VPage 35	K17290 Type A Blocking Plate, 220-240VPage 177
190-120-001 Heater (1)	236-230-001 Heater, 250W (1)
010-115-005 Wattstat, 115V (1)	
K14670 Tag Electric Closed Tester, 220-240VPage 35	K17300 Type B Blocking Plate, 115VPage 177
190-240-009 Heater (1)	K173-0-11 A Heater (1)
010-230-004 Wattstat, 230V (1)	K173-0-11 C Heater, 300W (1)
	288-115-001 Motor (1)
K15600 Tag Electric Open Cup Flash Tester, 115VPage 37	K17390 Type B Blocking Plate, 220-240VPage 177
190-120-001 Heater (1)	K173-0-11B Heater (1)
K138-0-11 Valve Stem (2)	K173-0-11D Heater, 300W (1)
K156-0-1A Flame Test Burner and Pilot Assembly (1)	288-230-002 Motor (1)
K15670 Tag Electric Open Cup Flash Tester, 220-240VPage 37	K17500 Wax Melting Point ApparatusPage 178
190-240-009 Ring Heater (1)	K175-0-5 Cork, Sample Thermometer (1)
K138-0-11 Valve Stem (2)	K175-0-6 Cork, Bath Thermometer (1)
K156-0-1A Flame Test Burner and Pilot Assembly (1)	285-000-006 Cork without hole (1)
	K175-0-8 Pyrex Sample Tube (1)
	K17600 Oil Solvent Extractables Content Apparatus, 115VPage 179
	K176-1-0-26 Glass Manifold (1)
	279-115-006 Lamp, 100W, 115V (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)
	K17970/K17979 Corrosion Preventive Properties Apparatus, 115V and 220-240VPage 154
	K17910 Test Bearings (3)
	K17930 Containers/Lids (3)
	K179-0-6 Spring
	K179-0-8 Lockscrew
	288-115-036 Motor, 115/230V, 60Hz

SPARE PARTS (CONTINUED)

**K17980/K17989 Corrosion Preventive Properties Apparatus,
115V and 220-240V**.....Page 154

AS568-224	O-ring (1)
AS568-329	O-ring (1)
360-115-012	Motor Speed Control
289-004-002	Outboard Bearing Set
288-115-053	Motor, 1/4 hp, 130 V DC and Resistor
278-002-001	Fuse, 2A

K18000 Manual Grease Working MachinePage 28

22H-308-20C	Wing Screws (6)
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**K18100 Series Mechanical Grease Workers, Single-Unit,
115V and 220-240V**.....Pages 26, 28

Model Numbers K18100, K18110, K18119

289-001-002	Bearing (1)
320-115-001	Counter
050-001-006	Start/Stop Switch
050-001-007	Proximity Switch
K180-1-0-11	Clamp Spring (2)
271-015-001	Thermal Circuit Breaker, 15A

**K18190 Series Mechanical Grease Workers, Double-Unit,
115V and 220-240V**.....Page 28

Model Numbers K18190, K18191, K18192

289-001-002	Bearing (2)
320-115-001	Counter
050-001-006	Start/Stop Switch
050-001-007	Proximity Switch
K180-1-0-11	Clamp Spring (4)
271-015-001	Thermal Circuit Breaker, 15A

K18200 Water Spray Apparatus, 115V, 60Hz.....Page 163

301-002-006	Belt (1)
K182-0-10	Heater, 750W (1)
K18210	Test Panel
255-200-001	Temperature Control with Fitting
356-001-002	Pump
039-104-00B	Snubber, Brass
165-308-001	Leveling Foot (4)
288-115-015	Motor 115V, 60Hz, 1/3 hp

**K18290/K18295 Water Spray Apparatus,
220-240V, 50Hz and 60Hz**.....Page 163

301-002-006	Belt (1)
K182A-0-10	Heater (1)
K18210	Test Panel
255-200-001	Temperature Control
356-001-002	Pump
039-104-00B	Snubber, Brass
165-308-001	Leveling Foot (4)
288-115-012	Motor 115/230V, 60Hz, 1/3 hp
288-115-010	Motor, 220-240V, 50Hz

**K18300/K18320 Roll Stability Tester,
Single/Double Unit, 115V**.....Pages 27, 156

325-000-025	#25 Chain (30")
237-115-002	Heater, Finned, Strip, 600W, 115V
265-600-001	RTD Temperature Probe, 4 in. (1)
K183-0-44	Bearing (4)
AS568-117	O-ring
AS568-154	O-ring
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
091-032-001	Relay, Solid State, 4-32V DC, 20A
275-103-020	Temperature Controller, 100-240V, 2 out

**K18305 Series Roll Stability Tester, Single/Double-Unit,
220-240V, 50Hz**.....Page 156

Model Numbers K18305, K18306, K18325, K18326

325-000-025	#25 Chain (30")
237-240-004	Heater, 600W, 230V
265-550-001	RTD Temperature Probe, 4 in. (1)
289-002-006	Flanged Bushings (6)
K183-1-21B	Plain Bushings (4)
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
288-115-004	Motor Fan
AS568-117	O-ring
AS568-154	O-ring

K18340 Roll Stability Tester, 4-Unit, 115V, 60Hz.....Page 156

237-115-001	Heater, 1000W, 115V (2)
265-600-001	RTD Temperature Probe, 4 in. (1)
289-002-004	Ball Bearing (3)
289-002-006	Flanged Bushing (12)
K183-1-21B	Plain Bushing (11)
288-115-035	Motor, Gear, 115V, 60Hz, 83rpm
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
AS568-117	O-ring
AS568-154	O-ring
275-103-020	Temperature Controller, 100-240V, 2 out

**K18345/K18346 Roll Stability Tester, 4-Unit,
220-240V, 50Hz and 60Hz**.....Page 156

215-230-002	Heater, 2000W, 115V (1)
265-600-001	RTD Temperature Probe, 4 in. (1)
288-115-004	Motor, Fan
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
AS568-117	O-ring
AS568-154	O-ring
288-230-009	Motor, 230V, 50Hz, 70rpm

K18500 High Temperature Wheel Bearing Tester, 115V, 60Hz.....Page 161

215-115-001	Heater, 1200W, 115V (1)
288-115-004	Fan Motor (1)
K185-0-42	Cabinet Thermocouple (1)
K185-0-42A	Spindle Thermocouple (1)
289-004-001	Inboard Bearing Set
289-004-002	Outboard Bearing Set
K185-0-66	Motor, modification

**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

SPARE PARTS (CONTINUED)

K18700 Leakage Tendencies of Automotive Wheel Bearing Greases, 115V, 60HzPage 160

275-103-020	Temperature Controller, 100-240V, 2 out
200-115-004	Heater (2)
301-004-002	Vee Belt (60Hz) (1)
288-115-027	Motor
265-122-002	RTD Temperature Probe

K18790 Leakage Tendencies of Automotive Wheel Bearing Greases, 220-240V, 60HzPage 160

200-230-004	Heater (2)
301-004-002	Vee Belt (60Hz) (1)
265-122-002	RTD Temperature Probe
288-115-027	Motor
275-103-020	Temperature Controller, 100-240V, 2 out

K18795 Leakage Tendencies of Automotive Wheel Bearing Greases, 220-240V, 50HzPage 160

200-230-004	Heater, 660W, 230V (2)
301-004-005	Vee Belt (50Hz) (1)
265-122-002	RTD Temperature Probe, 3 in. (1)
288-230-005	Motor

K18850 Series Low Temperature Torque Apparatus, 220-240V, 50Hz and 60HzPage 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 3/8 Flanged Bearing (4)
360-230-001	Strain Gauge (2)
K18860-0-16	Small Bearing Set (2)
K18860-0-24	Large Bearing Set (2)
288-230-007	Motor, 230V, 50/60Hz, 1/15 hp, 1.4A (1)

K18910 Constant Temperature Air Cabinet, 115VPage 165

288-115-062	Motor, 115V, 60Hz
K189-1-0-17	Heater, 115V, 50W
283-120-002	Solenoid Valve, 115V (2)
265-400-002	RTD Temperature Probe
275-103-023	Electronic Temperature Control, Digital
278-061-002	Fuse, 1A, Slo-blo

K18919 Constant Temperature Air Cabinet, 220-240VPage 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
275-103-023	Electric Temperature Control
278-001-002	Fuse, 1A, Slo-blo

K19200 Water Washout Tester, 115V, 60HzPage 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
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, 60HzPage 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, 50HzPage 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, 115VPage 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", 3/8 dia x 4"
K194EB	Test Tube 13x100mm (10)
K194EC	Cup Support (10)
275-103-023	Electronic Temperature Control
091-240-002	Solid State Relay, 25A, 90-240V

K19410 High Temperature Dropping Point Apparatus, 220-240VPage 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)
K194EB	Test Tube 13x100mm (10)
K194EC	Cup Support (10)
275-103-023	Electronic Temperature Control, 100-240V
091-240-002	Solid State Relay, 25A, 90-240V

K19490 Dropping Point Apparatus, 115VPage 150

K19492	Test Tube with Indentations
K19493	Thermometer Cork
K194A-0-7	Bath Thermometer Cork
332-002-005	Pyrex™ Beaker
010-115-005	Wattstat, 115V
225-115-002	Heater Element
288-115-001	Motor

K19491 Dropping Point Apparatus, 220-240VPage 150

K19492	Test Tube with Indentation
K19493	Thermometer Cork
K194A-0-7	Bath Thermometer Cork
332-002-005	Pyrex™ Beaker
010-230-004	Wattstat, 230V
225-230-001	Heater Element, 230V
K19491-0-12	Motor, 230V, 50/60Hz, 1/40 hp

K19500 PenetrometerPage 24

332-005-008	5" diameter Watch Glass (1)
K195-11	Plunger Drop Cushion
K195-23	Plunger Release Spacer
K195-24	Plunger Release Lever (1)
K195-29	Teflon Inserts

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K253-2A-0-8 Heater, 750W (K25309) (1)	K70519 RTD Temperature Probe, 12 in.
191 RTD Probe Assembly	265-600-001 RTD Temperature Probe, 4 in.
275-250-003 Electronic Temperature Control	091-032-002 Relay, Solid State, 4-32 V DC, 30A
	275-103-024 Temperature Controller, 100-240V, 1 out
K25330 Test Tube Bath, 115VPages 90, 91, 131, 155	K26500 Thermometer Calibration Bath, 115VPage 63
K346-0-3 Heater, 750W, 115V (1)	K26500-0-15 Heater, 750W (1)
288-115-001 Stirrer Motor (1)	265-500-001 RTD Temperature Probe (1)
K70519 RTD Temperature Probe, 12 in.	288-115-001 Motor (1)
278-020-002 Fuse, 20A	091-240-003 Relay, 120/240V, 25A
278-001-002 Fuse, 1A	275-103-025 Temperature Controller, 100-240V
091-032-001 Relay, Solid State, 4-32V DC, 20A	
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K253-1A-0-8 Heater, 750W, 230V (1)	265-500-001 RTD Temperature Probe (1)
K70519 RTD Temperature Probe, 12 in.	288-230-002 Motor (1)
278-020-002 Fuse, 20A	275-103-025 Temperature Controller, 100-240V
278-001-002 Fuse, 1A	
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K25900-0-15 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
	275-103-024 Temperature Controller, 100-240V, 1 out
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K25990-0-15 Heater, 750W (1)	230-230-002 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)	278-020-002 Fuse, 20A
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	091-032-001 Relay, Solid State, 4-32V DC, 20A
	275-103-024 Temperature Controller, 100-240V, 1 out
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AS568-032 O-ring, Buna 'N'	K283-0-14 Test Panel
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354-001-002 Rheostat (1)	332-014-001 Funnel
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354-001-002 Rheostat (1)	220-240-002 Heater, 650W (2)
	265-203-001 K Type Temperature Probe, 3 in., 3 Wire
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K26400-1-5 Heater, 1500W (1)	278-001-002 Fuse, 1A
K26400-1-5A Heater, 1000W (1)	278-104-002 Fuse, 0.25A
K70519 RTD Temperature Probe, 12 in.	010-230-004 Wattstat (2)
265-600-001 RTD Temperature Probe, 4 in.	K293-0-12 Thermocouples (2)
091-032-002 Relay, Solid State, 4-32 V DC, 30A	K293-0-20 Flowmeter (2)
275-103-024 Temperature Controller, 100-240V, 1 out	010-230-004 Wattstat, 230V

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K294-0-1 Heater, 1000W (1)	301-005-001 Belt (1)
288-115-004 Motor (1)	K301A-1-0-5 Heater, 1500W (1)
K70519 RTD Temperature Probe, 12 in.	288-230-001 Motor (1)
265-600-001 RTD Temperature Probe, 4 in.	265-600-001 RTD Temperature Probe, 4 in., 600F
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	091-032-001 Relay, Solid State, 4-32 V DC, 20A
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288-115-004 Motor (1)	K301A-1-0-5 Heater, 1500W (1)
K70519 RTD Temperature Probe, 12 in.	288-230-003 Motor (1)
265-600-001 RTD Temperature Probe, 4 in.	265-600-001 RTD Temperature Probe, 4 in., 600F
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
275-103-024 Temperature Controller, 100-240V, 1 out	
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K297-0-1 Vacuum Flask (1)	K319-0-6 Condenser
K297-0-2 Sample Tube (Jacketed) (1)	363-102-003 ½ ID Latex Tubing (2")
K297-0-8 Cork Strip (1)	K319-0-9 #14 Cork
K297-0-5 #2 Neoprene Stopper	K319-0-10 #4 Cork (2)
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K29750-1-1 200mL Tube (1)	K319-0-8 Pyrex™ Tube
332-003-012 2 quart Dewar Flask (1)	332-002-003 100mL Graduated Cylinder
K29760/K29769 Wax Appearance Point Apparatus, 115V and 220-240VPage 94	K33700 Existent Gum Evaporation Bath, 6-Unit, 220-240VPage 86
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K29760-0-2 Sample Tube (1)	265-203-001 Temperature Probe, Type "K", ⅜ dia x 4"
K29900/K29990 Lead Corrosion Apparatus, 220-240V, 50Hz and 60HzPage 130	278-020-002 Fuse, 20A
288-115-004 Bath Motor (1)	278-001-002 Fuse, 1A, 5 x 20 mm
K299-0-45A Heater, 500W (1)	K337-2-14 Flowmeter
K299-0-45B Heater, 500W (1)	091-032-001 Relay, Solid State, 4-32V DC, 20A
K299-0-45C Heater, 2000W (1)	275-103-020 Temperature Controller, 100-240V, 2 out
265-600-001 RTD Temperature Probe, 4 in.	K33780 Existent Gum Evaporation Bath, 3-Unit, 115VPage 86
K70519 RTD Temperature Probe, 12 in.	190-120-005 Heater, Ring, 500W, 120V (3)
278-020-002 Fuse, 20A	265-122-002 Temperature Probe 1200
278-001-002 Fuse, 1A	090-120-014 Relay, SPDT, 120V, 20A
278-104-002 Fuse, 0.25A	K337-2-14 Flowmeter
091-032-001 Relay, Solid State, 4-32 V DC, 20A	275-103-020 Temperature Controller, 100-240V, 2 out
275-103-024 Temperature Controller, 100-240V, 1 out	278-020-002 Fuse, 20A
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288-115-056 Motor (1)	265-122-002 RTD Temperature Probe 1200
265-600-001 RTD Temperature Probe, 4 in.	091-032-001 Relay, Solid State, 4-32V DC, 20A
278-020-002 Fuse, 20A	K337-2-14 Flowmeter
278-001-002 Fuse, 1A	275-103-020 Temperature Controller, 100-240V, 2 out
278-104-002 Fuse, 0.25A	278-020-002 Fuse, 20A
275-103-024 Temperature Controller, 100-240V, 1 out	278-001-002 Fuse, 1A, 5 x 20 mm

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<p>K45000 Front View Distillation Apparatus, Right-Hand, 115VPage 55</p> <p>225-115-002 Heater, 1000W (1)</p> <p>280-001-002 Brush Assembly (1)</p>	<p>K45300 Group 4 Distillation Apparatus, Left-Hand, 115VPage 55</p> <p>K452-0-3 Heater (condenser), 300W (1)</p> <p>225-115-002 Heater, 1000W (1)</p> <p>265-550-004 RTD Probe 0.25 OD x 90 deg. bend</p>
	<p>K45390 Group 4 Distillation Apparatus, Left-Hand, 220-240V.....Page 55</p> <p>K452A-0-3 Heater (condenser), 300W (1)</p> <p>225-230-002 Heater, 1000W (1)</p> <p>265-550-004 RTD Probe 0.25 OD x 90 deg. bend</p>
	<p>Main Part: K45603 , K45604 , K45703, K45704 Automatic Distillation AnalyzerPage 57</p> <p>090-240-022 Relay, 230 Vac 10A plug in power</p> <p>354-040-003 Triac, 40 amp, Good</p> <p>220-240-016 Cartridge Heater 300W, 240V</p> <p>K45658 Heater Element</p> <p>K4568-A Ceramic Coil Support, set 4pc.</p> <p>K44662-A Fuse, 6.3A Time Lag F220-Pk 10</p>
	<p>K45900 Cold Filter Plugging Point ApparatusPage 100</p> <p>K459-0-7 Pipette (1)</p> <p>K459-0-13B Filter (1)</p> <p>AS568-008 O-ring (2)</p>
	<p>K46000 Cloud and Pour Point Chamber.....Page 132</p> <p>K460-1-6 Cover (1)</p> <p>K460-1-7B Copper Cup (4)</p> <p>K460-0-8 Thermometer Holder (4)</p> <p>K46120 Disc (Cork) Bottom (4)</p> <p>AS568-219 O-ring (4)</p> <p>AS568-131 O-ring (4)</p>

SPARE PARTS (CONTINUED)

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

Model Numbers K46100, K46195, K46196

K46100-03002	Foam Covers
K46100-03030	Copper Test Jacket
091-032-003	Relay
265-400-005	RTD Probe
275-103-030	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 60Hz.....Page 132**

Model Numbers K46300, K46395, K46396

K46300-03002	Foam Covers
K46100-03030	Copper Test Jacket
091-032-003	Relay
265-400-005	RTD Probe
275-103-031	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 220-240V.....Page 60**

354-001-003	Rheostat (1)
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K47000 Autoignition Apparatus, 220-240V.....Page 39

K470-0-1-10	Thermocouple (1)
K470-0-1-15	Thermocouple (3)
332-003-007	500mL Flask (1)

K47500 Wickbold Apparatus, 115V.....Page 58

311-015-003	Gauge (1)
290-010-001	Pressure Regulator (1)
037-108-00B	Toggle Valve (1)
261-104-001	Filter (1)

K47590 Wickbold Apparatus, 220-240V.....Page 58

311-015-003	Gauge (1)
290-010-001	Pressure Regulator (1)
037-108-00B	Toggle Valve (1)
261-104-001	Filter (1)
240-230-001	Stepdown Transformer (1)

K50100/K50190 Panel Coking Test Apparatus.....Page 135

275-103-023	Temperature Control
360-115-014	Motor Control
360-115-009	Tachometer
360-000-002	Digital Pick Up
K299-4-52	Flowmeter
K185-0-66	Motor Modification
381-115-002	Timer
265-203-002	Thermocouple
236-115-003	Heater, 400W, 115V
332-017-001	Separatory Funnell
220-240-010	Cartridge Heater, 300W, 240V
220-120-008	Cartridge Heater, 300W, 115V
091-240-002	Solid State Relay
278-005-001	Fuse, 5A (4)
278-002-001	Fuse, 2A (1)
278-001-002	Fuse, 1A

K56100 Cigre Bath, 115V.....Page 126

190-120-009	Heater, 200W (4)
230-115-002	Heater, 600W (1)
AS568-213	O-ring (24)
K56110	Oxidation Tubes and Absorption Tubes 12 Sets (2 per set)
265-122-002	RTD Temperature Probe, 3 in., 2 Wire
265-122-003	RTD Temperature Probe, 3 in., 3 Wire
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
278-104-002	Fuse, 0.25A

K56190 Cigre Bath, 220-240V.....Page 126

190-240-008	Heater, 200W (4)
230-230-003	Heater, 600W (1)
AS568-213	O-ring (24)
K56110	Oxidation Tubes and Absorption Tubes 12 Sets (2 per set)
265-122-002	RTD Temperature Probe, 3 in., 2 Wire
265-122-003	RTD Temperature Probe, 3 in., 3 Wire
278-020-002	Fuse, 20A
278-001-002	Fuse, 1A
278-104-002	Fuse, 0.25A

K70000 Oxidation Bomb.....Page 114

K70050-00000	Silicone O-ring (qty. depends on usage)
K70060	Valve (1)

K70200/K70290 2-Unit RBOT Bath, 220-240V, 50Hz and 60Hz.....Page 116

K702-0-8	Heater, 1000W (1)
K702-0-8A	Heater, 1000W (1)
K702-0-8B	Heater, 750W (1)
301-004-001	Vee Belt (1)
AS568-345-V14	O-ring (2)
K700B-0-41	Drive Shaft Seal (8)
K702-CHAIN	Chain Kit (1)
050-001-028	Switch
289-001-005	Ball Bearing (2)
K70519	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

K70300/K70390 3-Unit RBOT Bath, 220-240V, 50Hz and 60Hz.....Page 116

K703-0-8	Heater, 1000W (2)
K703-0-8A	Heater, 750W (1)
301-004-001	Vee Belt (1)
AS568-345-V14	O-ring (3)
K700B-0-41	Drive Shaft Seal (12)
K703-CHAIN	Chain Kit (1)
289-001-005	Ball Bearing (2)
288-115-004	Motor
050-001-028	Switch
K70519	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

SPARE PARTS (CONTINUED)

K70400/K70490 4-Unit RBOT Bath, 220-240V, 50Hz and 60HzPage 116	KLA-4 Automatic Cold Filter Plugging Point SystemPages 101
K704-0-8 Heater, 1000W (3)	KLA-4S-008-04 CFPP calibrated glass cell
K704-0-8A Heater, 750W (1)	KLA-4S-008-041 "O" ring for CFPP test jar
301-004-001 Vee Belt (1)	KLA-4S-008-12 PT100 product w/ connector
AS568-345-V14 O-ring (4)	KLA-4S-008-13 Calibrated aspiration pipette
289-001-005 Ball Bearing (4)	KLA-4S-013-01 Filter assembly
K700B-0-41 Drive Shaft Seal (16)	KLA-4S-013-02 Filter
K704-CHAIN Chain Kit (1)	KLA-4S-1232 "O" ring (small) for CFPP filter
288-115-004 Motor, Aux. Stirrer	KLA-4S-1288 "O" ring for CFPP filter
050-001-028 Switch	
K70519 RTD Temperature Probe, 12 in.	Main Part: KLA-5 Automatic Freezing Point SystemPages 97
265-600-001 RTD Temperature Probe, 4 in.	KLA-5S-008-07 Fiber optic for Freezing point
278-020-002 Fuse, 20A	KLA-5S-008-12A Removable freezing glass cell
278-001-002 Fuse, 1A	
278-104-002 Fuse, 0.25A	
K87100/K87190 Automatic Pensky-Martens Closed Cup Flash Point TesterPages 33	
K87100-5 Stirring Connection Cable	
K87100-6 Detection Cable	
K87100-7 PT 100 Probe	
K87100-8 Electric Ignitor (consumable)	
K87100-9 Roll of Printer Paper (consumable)	
K87400/K97490 Automatic Cleveland Open Cup Flash Point TesterPages 33	
K87400-3 Heating Element 1000W	
K87400-4 Electric Ignitor (consumable)	
K87400-5 Roll of Printer Paper (consumable)	
K87400-8 Insulated Plate-Mobile	
K87400-9 PT 100 Probe	
K88600 Portable Octane AnalyzerPages 102	
K88603 Sample Holder	
K88615 Serial to USB adapter	
K88608 Sample holder covers, 12	
K95500/K95595/K99596 Digital PenetrometerPages 24, 25, 27	
277-001-001 Fuse Cap	
279-014-001 Bulb (3)	
278-004-001 Fuse (3)	
459-012-001 Battery, 12V (1)	
K95500-02001 Light Assembly	
KLA-1 Automatic Cloud Point SystemPage 133	
KLA-1S-008-04 Calibrated glass cell for cloud (silver bottom)	
KLA-1S-008-041 "O" ring for CP test jar	
KLA-1S-008-06 Fiber optic for cloud point	
KLA-1S-008-12 PT100 product w/ connector (white)	
KLA-2 Automatic Pour Point SystemPages 133	
KLA-2S-008-04 Pour Point glass cell	
KLA-2S-008-041 "O" ring for PP test jar	
KLA-2S-008-12 PT100 product w/connector	
KLA-2S-008-13 PT100 detection	
KLA-3 Automatic Cloud/Pour Point SystemPages 133	
KLA-3S-008-12 PT100 product w/ connector (white)	
KLA-3S-008-06 Fiber optic for Cloud Point	
KLA-3S-008-12A PT100 product w/ connector	
KLA-3S-008-13 PT100 detection	
KLA-3S-008-04A Calibrated Pour Point glass cell	