

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
	278-104-002 Fuse, 0.25A
	275-103-008 Temperature Controller, 100-240V, 1 out
K10991 Oxidation Bath, 220-240VPage 152	K12201 Solid Block Oxidation Bath, 220-240VPage 121
K70519 RTD Temperature Probe, 12 in.	187A Temperature Control Unit
265-600-001 RTD Temperature Probe, 4 in.	091-240-003 Relay, 120/240V, 25A
278-020-002 Fuse, 20A	265-400-004 RTD Probe, 10 in.
278-001-002 Fuse, 1A	220-240-009 Heater, 750W, 220V (6)
278-104-002 Fuse, 0.25A	
275-103-008 Temperature Controller, 100-240V, 1 out	
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)
	K70519 RTD Temperature Probe, 12 in.
	265-600-001 RTD Temperature Probe, 4 in.
	288-115-004 Motor (1)
	K23300-03004 Stirrer Shaft
	091-032-004 Relay, Solid State, 32 V DC
	278-040-001 Fuse, 40A, Time Delay CLSG
K11415/K11416 Reid Vapor Pressure Bath, 21-Unit, 220-240V, 50Hz and 60HzPage 83	K12219 Oxidation Stability Bath, 12-Unit, 220-240VPage 120
235-240-005 Heater, 6000W (1)	K122-12A-2-22A Heater, 1500W, back, 220V (1)
265-400-002 Temperature Probe (1)	K122-12A-2-22B Heater, 1500W, middle, 220V (1)
	K122-12A-2-22C Heater, 750W, front, 220V (1)
	K70519 RTD Temperature Probe, 12 in.
	265-600-001 RTD Temperature Probe, 4 in.
	278-030-001 Fuse, 30A, Slo-blo, midget
	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
	288-115-004 Motor (1)
	275-103-008 Temperature Controller, 100-240V, 1out
K11450 Reid Vapor Pressure Bath, 4-Unit, 115VPage 83	K12290 Oxidation Stability Bath, 8-Unit, 220-240VPage 120
K11450-0-1 Heater, 2000W, 115V	K122A-2-15B Heater, 750W, Inner, 230V (1)
K70519 RTD Temperature Probe, 12 in.	K122A-2-15C Heater, 750W, Outer, 230V (1)
278-020-002 Fuse, 20A	K70519 RTD Temperature Probe, 12 in.
278-001-002 Fuse, 1A	265-600-001 RTD Temperature Probe, 4 in.
288-115-004 Motor (1)	278-020-002 Fuse, 20A
275-103-009 Temperature Controller, 100-240V, 2 out	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
	288-115-004 Motor (1)
K11459 Vapor Pressure Bath, 4-Unit, 220-240VPage 83	
K11459-0-1 Heater, 2000W, 230V (1)	
K70519 RTD Temperature Probe, 12 in.	
278-020-002 Fuse, 20A	
278-001-002 Fuse, 1A	
288-115-004 Motor (1)	
275-103-009 Temperature Controller, 100-240V, 2 out	
K12100 Oxidation Stability Bath, 115VPage 123	
K121-0-17 Heater, 750W, 115V (1)	
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	
288-115-002 Motor, 115V, 50/60Hz (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)

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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
	278-020-002 Fuse, 20A
	278-001-002 Fuse, 1A
	091-032-001 Relay, Solid State, 4-32V DC, 20A
	275-103-009 Temperature Controller, 100-240V, 2 out
K17980/K17989 Corrosion Preventive Properties Apparatus, 115V and 220-240VPage 154	K18305 Series Roll Stability Tester, Single/Double-Unit, 220-240V, 50HzPage 156
AS568-224 O-ring (1)	Model Numbers K18305, K18306, K18325, K18326
AS568-329 O-ring (1)	325-000-025 #25 Chain (30")
360-115-012 Motor Speed Control	215-230-001 Heater, 1200W, 230V
289-004-002 Outboard Bearing Set	265-550-001 RTD Temperature Probe, 4 in. (1)
288-115-053 Motor, 1/4 hp, 130 V DC and Resistor	289-002-006 Flanged Bushings (6)
278-002-001 Fuse, 2A	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
K18000 Manual Grease Working MachinePage 28	K18340 Roll Stability Tester, 4-Unit, 115V, 60HzPage 156
22H-308-20C Wing Screws (6)	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
	275-103-009 Temperature Controller, 100-240V, 2 out
K18100 Series Mechanical Grease Workers, Single-Unit, 115V and 220-240VPages 26, 28	K18345/K18346 Roll Stability Tester, 4-Unit, 220-240V, 50Hz and 60HzPage 156
Model Numbers K18100, K18110, K18119	215-230-002 Heater, 2000W, 115V (1)
289-001-002 Bearing (1)	265-600-001 RTD Temperature Probe, 4 in. (1)
320-115-001 Counter	288-115-004 Motor, Fan
050-001-006 Start/Stop Switch	278-020-002 Fuse, 20A
050-001-007 Proximity Switch	278-001-002 Fuse, 1A
K180-1-0-11 Clamp Spring (2)	AS568-117 O-ring
271-015-001 Thermal Circuit Breaker, 15A	AS568-154 O-ring
	275-103-009 Temperature Controller, 100-240V, 2 out
K18190 Series Mechanical Grease Workers, Double-Unit, 115V and 220-240VPage 28	K18500 High Temperature Wheel Bearing Tester, 115V, 60HzPage 161
Model Numbers K18190, K18191, K18192	215-115-001 Heater, 1200W, 115V (1)
289-001-002 Bearing (2)	288-115-004 Fan Motor (1)
320-115-001 Counter	K185-0-42 Cabinet Thermocouple (1)
050-001-006 Start/Stop Switch	K185-0-42A Spindle Thermocouple (1)
050-001-007 Proximity Switch	289-004-001 Inboard Bearing Set
K180-1-0-11 Clamp Spring (4)	289-004-002 Outboard Bearing Set
271-015-001 Thermal Circuit Breaker, 15A	K185-0-66 Motor, modification
K18200 Water Spray Apparatus, 115V, 60HzPage 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 60HzPage 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	

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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

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K23700-03014 Motor, Modification, 230V	354-001-002 Rheostat (1)
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278-001-002 Fuse, 1A	275-103-008 Temperature Controller, 100-240V, 1 out
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091-032-001 Relay, Solid State, 4-32V DC, 20A	265-400-002 RTD Temperature Probe (1)
275-103-009 Temperature Controller, 100-240V, 2 out	288-230-002 Motor (1)
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356-115-001 Pump	265-203-001 Temperature Probe, Type "K", 3/8 dia x 4"
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275-103-010	Temperature Control Unit
265-400-002	RTD Probe
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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)
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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)
K47590 Wickbold Apparatus, 220-240VPage 58	K700B-0-41 Drive Shaft Seal (8)
311-015-003 Gauge (1)	K702-CHAIN Chain Kit (1)
290-010-001 Pressure Regulator (1)	050-001-028 Switch
037-108-00B Toggle Valve (1)	289-001-005 Ball Bearing (2)
261-104-001 Filter (1)	265-500-001 RTD Temperature Probe, 12 in.
240-230-001 Stepdown Transformer (1)	265-600-001 RTD Temperature Probe, 4 in.
	278-020-002 Fuse, 20A
K50100/K50190 Panel Coking Test ApparatusPage 135	278-001-002 Fuse, 1A
275-103-010 Temperature Control	278-104-002 Fuse, 0.25A
360-115-008 Motor Control	
360-115-009 Tachometer	K70300/K70390 3-Unit RBOT Bath, 220-240V, 50Hz and 60HzPage 116
360-000-002 Digital Pick Up	K703-0-8 Heater, 1000W (2)
K299-4-52 Flowmeter	K703-0-8A Heater, 750W (1)
K185-0-66 Motor Modification	301-004-001 Vee Belt (1)
381-115-002 Timer	AS568-345-V14 O-ring (3)
265-203-002 Thermocouple	K700B-0-41 Drive Shaft Seal (12)
236-115-003 Heater, 400W, 115V	K703-CHAIN Chain Kit (1)
332-017-001 Separatory Funnel	289-001-005 Ball Bearing (2)
220-240-010 Cartridge Heater, 300W, 240V	288-115-004 Motor
220-120-008 Cartridge Heater, 300W, 115V	050-001-028 Switch
091-240-002 Solid State Relay	265-500-001 RTD Temperature Probe, 12 in.
278-005-001 Fuse, 5A (4)	265-600-001 RTD Temperature Probe, 4 in.
278-002-001 Fuse, 2A (1)	278-020-002 Fuse, 20A
278-001-002 Fuse, 1A	278-001-002 Fuse, 1A
	278-104-002 Fuse, 0.25A
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

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