

REPLACEMENT PARTS



(BLANK)

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(BLANK)

AC Mains Components



13699800



81052400



81052000



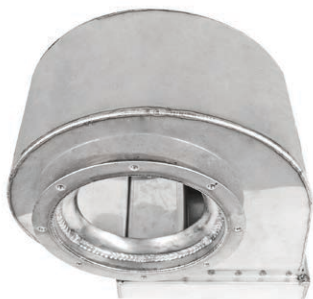
81066200



07462800

Part No.	Description	Qty. Required
13699800	SWITCH, DISCONNECT 80A 4 POLE	1
81052400	FILTER, 3 PHASE+N POWER INLET, LOW CAPACITANCE	1
81052000	FILTER, 3PH JAPAN-KOREA POWER INLET	1
81066200	HOLDER, FUSE, 3POLE, MAIN 60A	1
07462800	FUSE, MAIN, 60A	3

Blower System Components



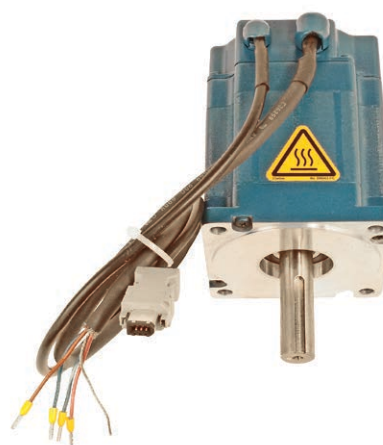
13264009



13263900



85000200



25005200



85004600



85006300



07453100



25014600

Part No.	Description	Qty. Required
13264009	HOUSING, BLOWER (6.25 X 4 IN WHL) CI4K	1
13263900	WHEEL, BLOWER 6-1/4 IN, 4 IN, 5/8 IN BORE, SS	1
85000200	BLOWER MOTOR DRIVE, CI4400 (A11)	1
25005200	MOTOR, BLOWER (WITH WIRE TERMINALS)	1
85004600	MODBUS ADAPTER, BLOWER MOTOR DRIVE	1
85006300	BOARD, ADAPTER, RJ45	1
07453100	GASKET, BLOWER HOUSING, CI4K	2
25014600	PAD, BLOWER MOTOR DAMPING	1

CS Cooling System Components



12587500



12636801



25031400



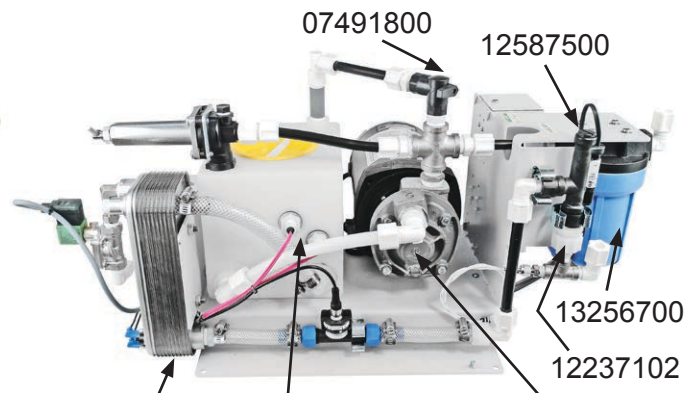
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12237102



85006000



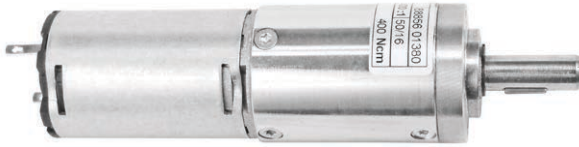
07487800

12636801

25038700

Part No.	Description	Qty. Required
12587500	FLOW SWITCH	1
12636801	LEVEL SWITCH	2
25031400	SENSOR, FLOW, LAMP WATER	1
81004400	THERMOSTAT, COOLING SYS. (65C) 149F	1
25038500	MOTOR, COOLING SYSTEM PUMP (M2)	1
25038700	PUMP, DI WATER, COOLING SYSTEM	1
07487800	HEAT EXCHANGER, COOLING SYSTEM	1
12253200	FILTER, CARTRIDGE, DI WATER	1
13256700	HOUSING, DI FILTER CARTRIDGE	1
07491800	VALVE, MANUAL, PURGE BYPASS OR CS DRAIN	2
12237102	WASHER, IN-LINE STRAINER, 60X50, SS, 0.820" DIA.	1

Damper System Components



25006800



25006600



09239100



85002200



85003300



25006900

Part No.	Description	Qty. Required
25006800	MOTOR, WITH GEAR BOX, DAMPER, BRUSH, 24VDC	1
25006600	ADAPTER, DAMPER-SHAFT UNION	1
09239100	CAPACITOR, DAMPER MOTOR, 10NF 50V	1
85002200	PC BOARD, DAMPER CONTROLLER (A13)	1
85003300	MAGNET, DAMPER SHAFT	1
25006900	CONNECTOR, DAMPER POSITION SENSOR	1

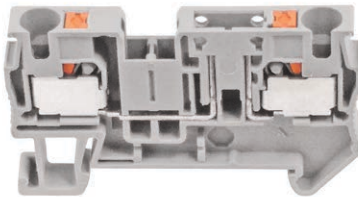
Fuse Holders



81066200



81000500



85005900



85006000

Part No.	Description	Qty. Required
81066200	HOLDER, FUSE, 3POLE, MAIN 60A	1
81000500	FUSEHOLDER, 2 POLE, 30A FOR MIDGET FUSES	1
85005900	FUSEHOLDER, DISCONNECT TERMINAL BLOCK	2
85006000	FUSEHOLDER, PLUG	2

Fuses



07462800



13607400



13509300



08000221



81027700



81027800

Wattage Transducer Board Fuses



81065300



81065200



81065100



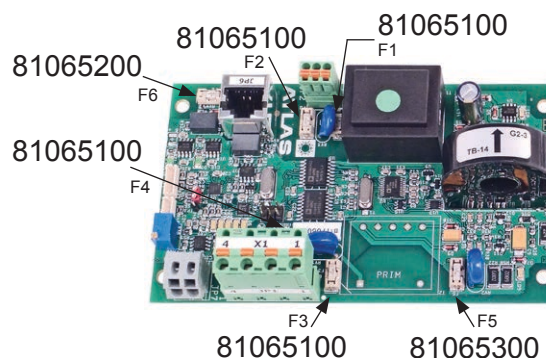
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85006600

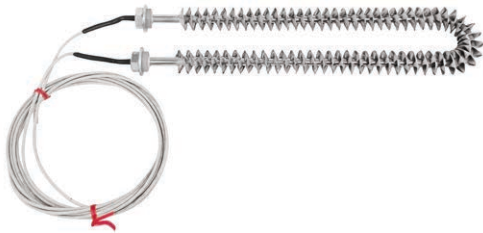


85006900



Part No.	Description	Qty. Required
07462800	FUSE, 60A, MAIN	3
81027700	FUSE, 12A, CLASS CC TIME DELAY	3
81027800	FUSE, 8A, CLASS CC TIME DELAY	2
13607400	FUSE, 6.3A, 250V, SLOW ACTING, 5X20MM	2
13509300	FUSE, 3.15A, 5X20MM CERAMIC SLOW BLOW	2
08000221	FUSE, 2 A, 5X20MM	9
85006700	FUSE, 5A, 58VDC, SLOW ACTING, MINI STYLE	1
85006600	FUSE, 3A, 58VDC, SLOW ACTING, MINI STYLE	1
85006900	FUSE, 2A, 58VDC, SLOW ACTING, MINI STYLE	1
81065300	FUSE, 375 MA, WATT. TRANSDUCER (F5), SLOW BLOW	1
81065200	FUSE, 125 MA, WATT. TRANSDUCER (F6) FAST ACTING	1
81065100	FUSE, 62 MA, WATT. TRANSDUCER (F1-F4), FAST ACTING	4

Heater System



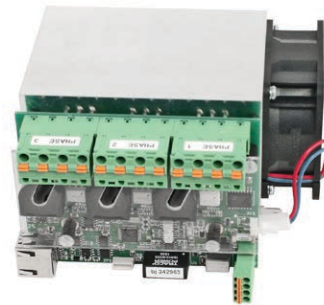
85000500



13315600



25036700



85000700

Part No.	Description	Qty. Required
85000500	HEATER, SPIRAL, FINNED (EB1 - EB3)	3
13315600	THERMOSTAT, HEATER, (98C) 200F TRIP	1
25036700	GASKET, SPIRAL HEATER	1
85000700	PC BOARD, WITH HEAT SINK, HEATER CONTROL (A1)	1

Humidification System Components



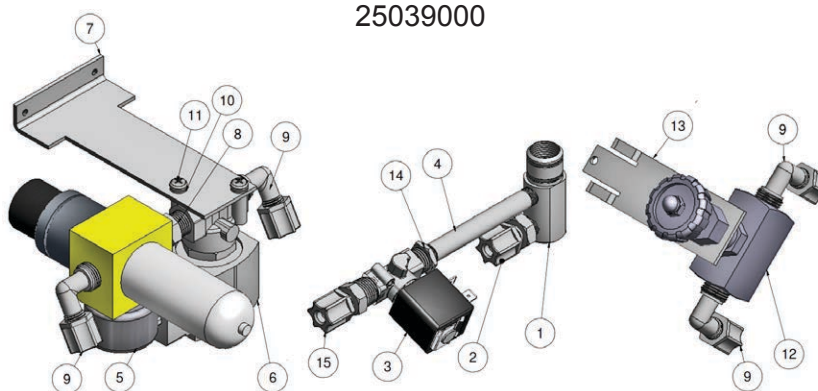
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25039000



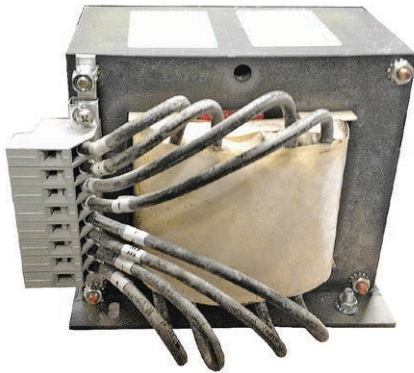
56080124



ITEM	QT	PART NO	DESCRIPTION
1	1	12341800	
4	1	25039200	
5	1	12220900	
8	1	13580700	
9	4	25039100	
10	2		Spring Washer JIS B 1251 - No. 2 5
11	2		Pan head screw H cross recess grade A, ISO 7045 - M5 x 10 - 4.8 - H
12	1	12364600	
14	1	25027300	

Part No.	Item No.	Description	Qty. Required
12341700		NOZZLE, HUMIDIFICATION	1
56080124		SENSOR FOR RH AND TEMPERATURE MONITORING	1
25039000		HUMIDIFIER CONTROLS ASSEMBLY	1
25002100	2	COMP. FITG, ADAPT. 1/4" TUBE OD X 1/8 MALE PIPE	1
81001300	3	SOL. VALVE, WATER, 1/4", 2-WAY, NC, SS, NSF-24V	1
81006700	6	SOLENOID VALVE, AIR	1
25039400	7	BRACKET, HUMIDIFICATION AIR	1
25039300	13	BRACKET, HUMIDIFICATION WATER	1
25031900	15	ADAPTER, FOR 1/4" TUBE OD X 1/4 NPT	1

Inductors & Reactors



81070000



81001100



81001200

Part No.	Description	Qty. Required
81070000	BOOST INDUCTOR (T1)	1
81001100	MAIN REACTOR (L1)	1
81001200	REACTOR, AUXILIARY (L2)	1

Light Rod - Light Sensor



07480000



20414700



20415800



20503400



09227001



07151901



80000030



80000031



80000032



80000033

Part No.	Description	Qty. Required
09227001	ASSEMBLY, LIGHT ROD 35	1
07151901	FLANGE, LIGHT ROD MOUNTNG	1
07480000	FLANGE, LIGHT ROD MTG. NON-SOLDER	2
20414700	SPLITTER, LIGHT SENSOR ASSEMBLY, CI COMMON	1
20415800	LUG, LS8 CAPSULE HOUSING	1
20503400	WASHER, LIGHT ROD CI5000	1
80000030	CAPSULE ASSY. 340NM LIGHT FILTER LS-8	1
80000031	CAPSULE ASSY. 420NM LIGHT FILTER LS-8	1
80000032	CAPSULE ASSY. 300-400NM LIGHT FILTER LS-8	1
80000033	CAPSULE ASSY. LUX LIGHT FILTER LS-8	1

Miscellaneous Components



20003600



25007600



25033700



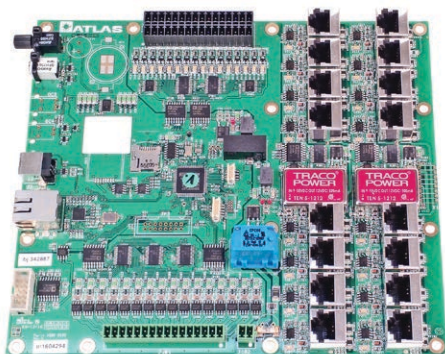
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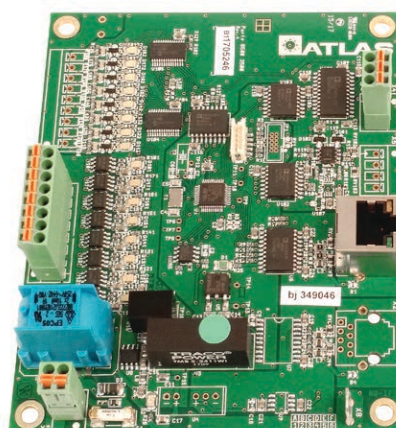
85000900

Part No.	Description	Qty. Required
20003600	LEVEL, BULL'S EYE	2
25007600	AIR FILTER ELEMENT	1
25033700	PLUG, BLOCK STAND, RACK SPRAY	1
56075400	SPACER BOLTS WITH THREADING M4	4
85000900	LED (MACHINE STATUS) INDICATOR	1

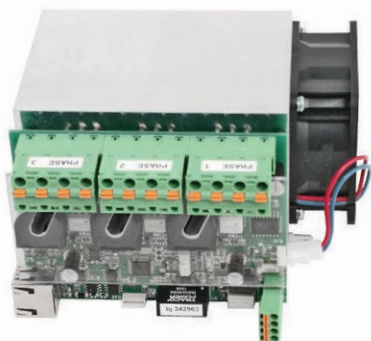
PC Boards



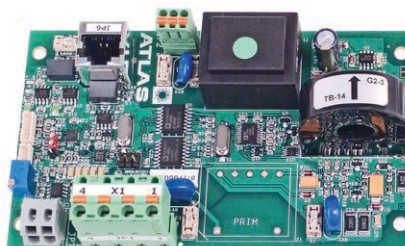
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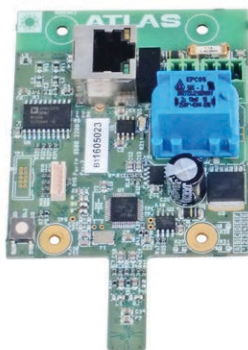
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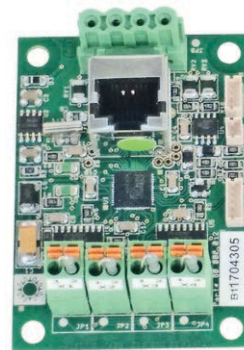
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81000125



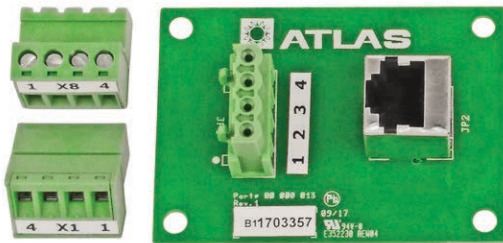
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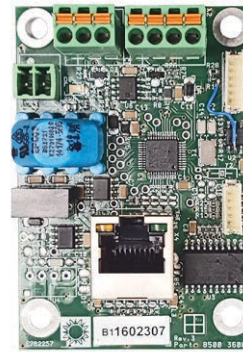
80000012

Part No.	Description	Qty. Required
85000600	PC BOARD, I/O, INPUT-OUTPUT CONTROL (A10)	1
85003500	PC BOARD, LAMP CONTROLLER (A6)	1
85000700	PC BOARD, HEATER CONTROL (A1)	1
81000125	PC BOARD, WATTAGE TRANSDUCER (A2)	1
85002200	PC BOARD, DAMPER CONTROLLER (A13)	1
80000012	PC BOARD, 4CH, RTD (A17) (LEGACY SENSORS) (A18)	1

PC Boards



80000013



85003600

Part No.	Description	Qty. Required
85003600	COOLING SYS. & RESISTIVITY SENSORS BOARD (A15)	1
80000013	PCB, TRANSMITTER, XENOSENSIV AIOS OPTION (A21)	1

Plumbing Connectors - Tubing



09232003



20181000



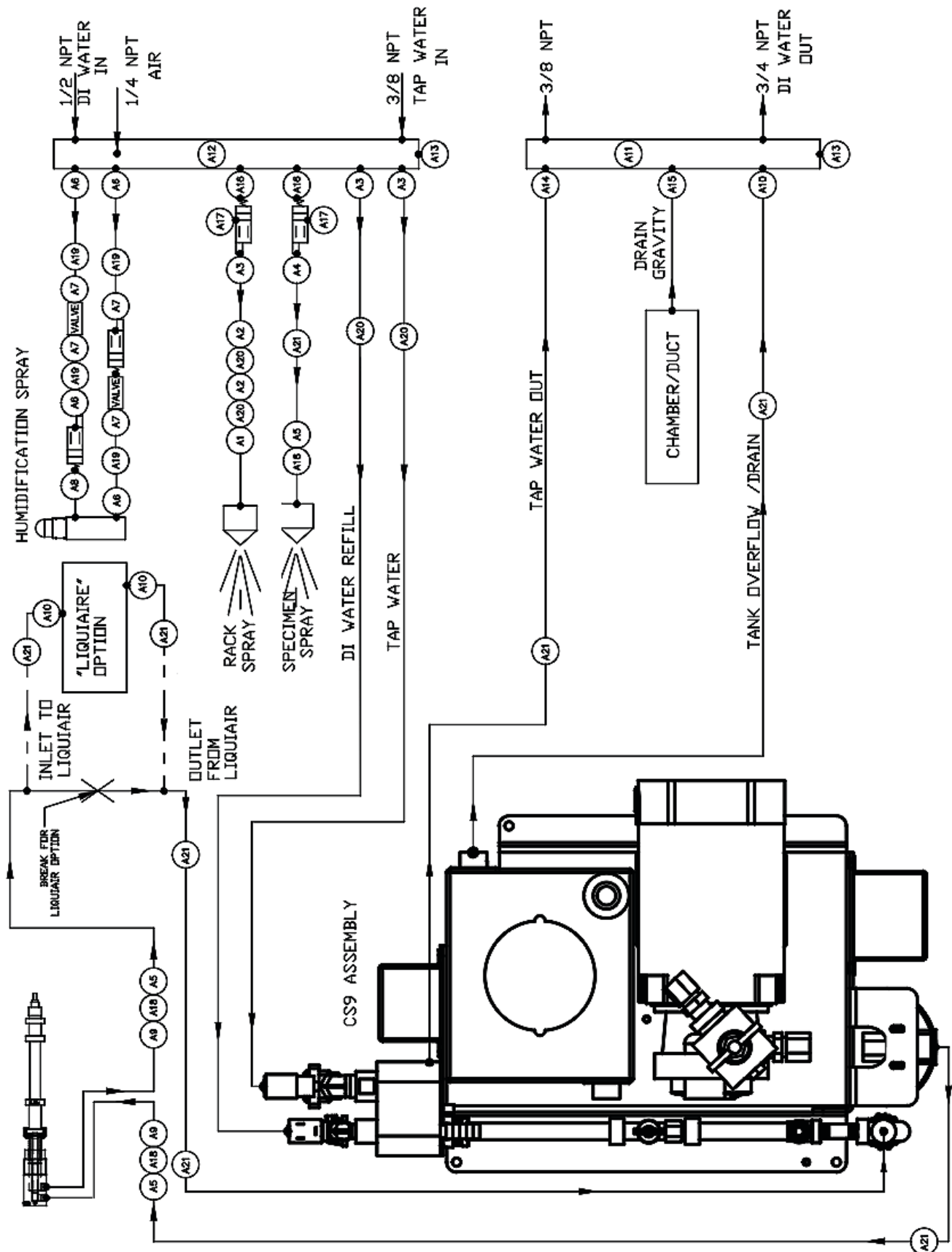
25028400



12520901

Part No.	Description	Qty. Required
09232003	CONNECTOR B AND N 9/16T X 1/2 MPT SST	3
20181000	CONNECTOR, LAMP FITTING, NYLON	1
25028400	90° ELBOW, COMPRESSION FITTING, 1/2 IN TUBE	2
12520901	HOSE CLAMP, SST - 0.35W X 1	4

Plumbing Connectors - Tubing



Plumbing Connectors - Tubing

CONNECTORS AND TUBING LISTING

Refer to Cooling System drawing at left.

Dwg. Item	Part No.	Description
A1	25002400	90° ELBOW, 3/8" COMP. FITTING
A2	25002600	"T", 3/8" COMP. FITTING
A3	25029200	1/4" NPT STRAIGHT, 3/8" COMP. FITTING
A4	25030000	1/4" NPT STRAIGHT, 1/2" COMP. FITTING
A5	25028400	90° ELBOW, 1/2" COMP. FITTING
A6	25001200	1/4" NPT STRAIGHT, 1/4" COMP. FITTING
A7	25039100	90° ELBOW, 1/4" NPT, 1/4" COMP. FITTING
A8	25039200	1/4" NPT x 3.5" LONG THREADED PIPE NIPPLE
A9	25037200	BARB FITTING, KYNAR (See Xenon Lamp section)
A10	25028900	3/8" NPT STRAIGHT, 1/2" COMP. FITTING
A11	25022600	WATER DRAIN GRAVITY MANIFOLD
A12	25022500	WATER INLET MANIFOLD
A13	25002800	1/2" NPT PLUG
A14	25033900	90° ELBOW, 3/8" NPT, 1/2" COMP. FITTING
A15	25034200	3/4" BARB FITTING, 1/2" NPT
A16	25003000	1/4" NPT x .88" LONG THREADED PIPE NIPPLE
A17	81001300	SOLENOID, NORMAL CLOSED
A18	25037100	SST BRAIDED TUBING
A19	25027600	1/4" OD POLYPROPYLENE TUBING
A20	25027700	3/8" OD POLYPROPYLENE TUBING
A21	25027800	1/2" OD POLYPROPYLENE TUBING

Power Supplies



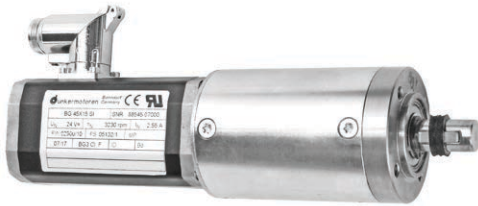
85004100



85004300

Part No.	Description	Qty. Required
85004100	POWER SUPPLY, 24VDC (G3)	1
85004300	POWER SUPPLY, 12VDC (G4)	1

Specimen Rack Components



25006700



13273900



25010900



07349600



07349500



13274800



13274000



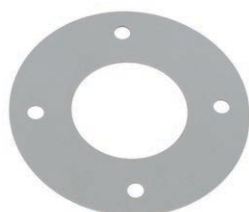
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Part No.	Description	Qty. Required
25006700	MOTOR, RACK, BRUSHLESS, 24VDC	1
25010900	CLUTCH, 30 TOOTH, GEAR ASSY.	1
07349500	GEAR, MITER, 1-1/4" BORE, 30 TOOTH	1
13274000	BEARING, FLANGE, 1-1/4" DIA.	1
13273900	BEARING, FLANGE, 1-1/8" DIA.	1
07349600	COLLAR CLAMP, W-HOLE, CI4000	1
13274800	COLLAR, HINGED, SHAFT, 1-1/8" BORE	1
13274500	O-RING, SEAL, RACK SHAFT, CI4000	1

Specimen Rack Components



07312401



07314100



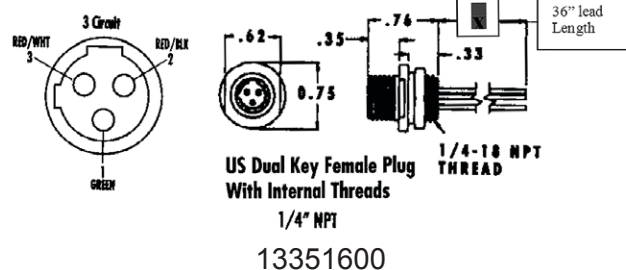
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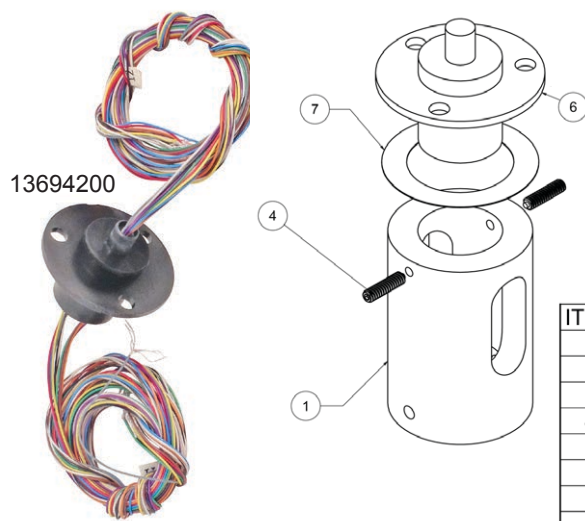


25004900

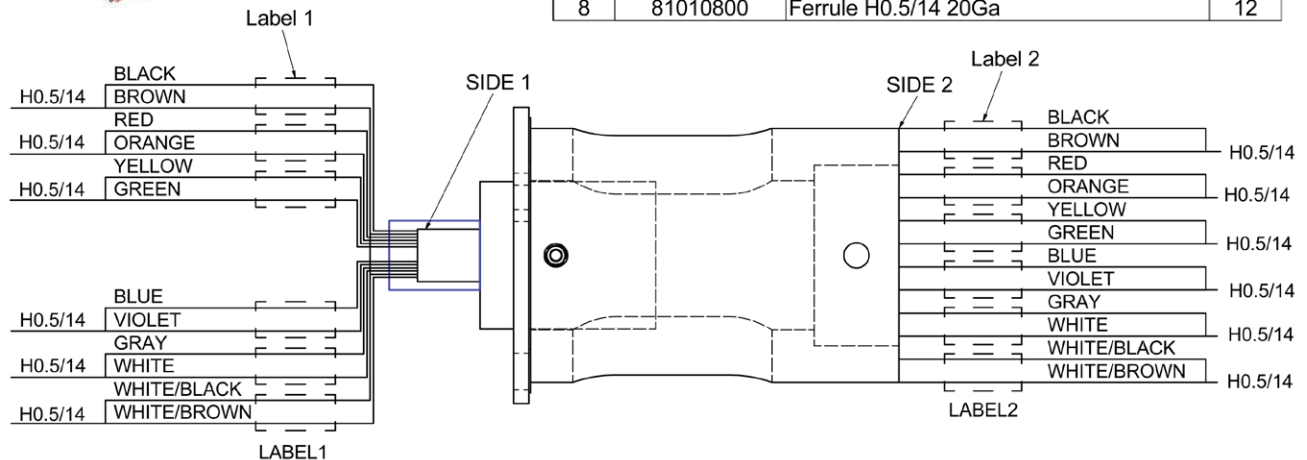


Part No.	Description	Qty. Required
07312401	SEAL, RACK-SHAFT HUB, CI4K - CI5K	1
07314100	GASKET, RACK-SHAFT SEAL, CI4K	1
81007500	CAP, BLACK PANEL RACK-HUB SOCKET	2
25010200	SWITCH, SAFETY, CHAMBER DOOR (S2)	1
25004900	RACK SECTION	3
13351600	RECEPTACLE, 3-PIN, SS BODY/NUT, 22AWG / 36" LEADS	3

Specimen Rack Components



ITEM	PART NUMBER	DESCRIPTION	QTY
1	07355700	BUSHING ISOLATOR	1
2	09235900	TUBING Yellow Heat Shrink 708-9075	6"
3	09441800	TUBING SHRINKABLE 3/16	6"
4	13238900	SCREW 6-32 X 1/2"L, NYLON TIP ALLOY	2
5	13517900	TUBING heat shrink 1/4" od black	10"
6	13694200	12 POLE COLLECTOR	1
7	19166400	1.625" TEFLON WASHER COVER	1
8	81010800	Ferrule H0.5/14 20Ga	12



WIRE LABELS				
Ring No.	Wire Color	Label1	Label2	Loose Labels
1	Black	A17JP1-1	RTD1-1	A16JP2-1
2	Brown			A16JP2-2
3	Red	A17JP1-2	RTD1-2	A16JP2-3
4	Orange			A16JP2-4
5	Yellow	A17JP2-1	RTD2-1	X609-1
6	Green			X609-2
7	Blue	A17JP2-2	RTD2-2	X609-3
8	Violet			X609-4
9	Gray	A17JP3-1	RTD3-1	
10	White			
11	White w/ Black	A17JP3-2	RTD3-2	
12	White w/ Brown			

25027100

Part No.	Description	Qty. Required
25027100	COLLECTOR RING ASSY. (RING, MTG., LABELED WIRES)	1

Relays - Surge Modules - Switches



81000700



81000900



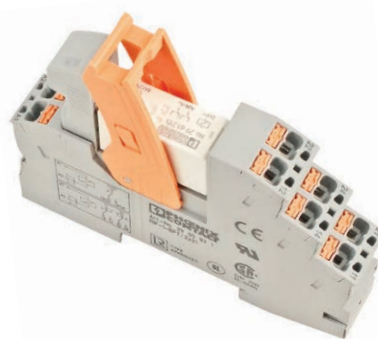
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81051700



81000800



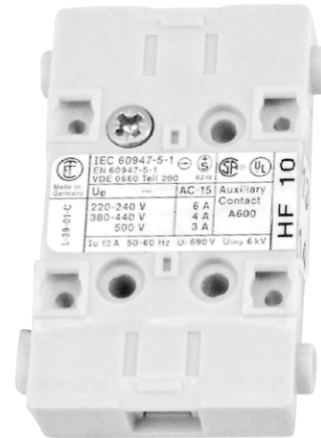
85004700

Part No.	Description	Qty. Required
81000700	RELAY, 60A, 3-POLE, W-O AUX. 24VDC COIL (AMPLIFIER)	2
85003100	RELAY, 37A, 4-POLE, N.O. (HEATER)	1
81000800	RELAY, 30A, 3-POLE, W-O AUX 24V COIL (XENON LAMP)	1
81000900	RELAY, 9A, 3-POLE, W-O AUX. 24V COIL (WATTAGE)	1
85004800	RELAY, CONTACT, 1 PDT, INPUT 24VDC	4
85004700	RELAY, MODULE, 2 RPT, INPUT 24VDC	1

Relays - Surge Modules - Switches



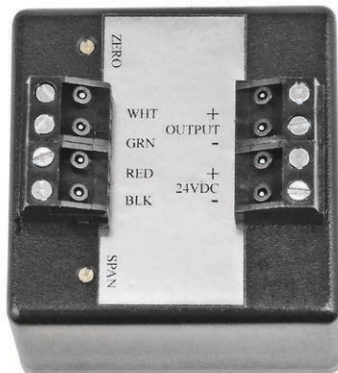
81061100



85004900

Part No.	Description	Qty. Required
81061100	DIODE, SURGE PROTECTOR, 24VDC, CA7 COIL RELAY	5
85004900	SWITCH, 12 AMP, AUXILIARY	1

Resistivity Monitoring System



81001600



13332400

Part No.	Description	Qty. Required
81001600	TRANSMITTER BOX, CONDUCTIVITY-RESISTIVITY	1
13332400	SENSOR CELL, RESISTIVITY METER	1

Seals - Gaskets - O-Rings



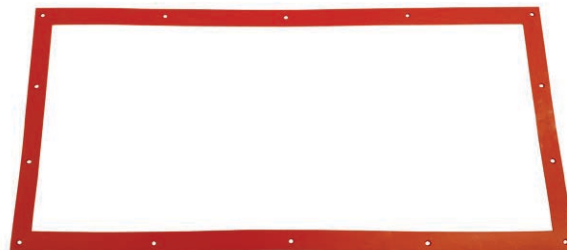
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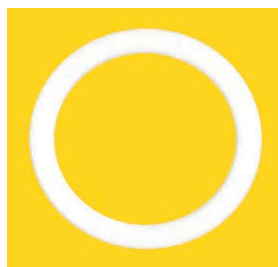
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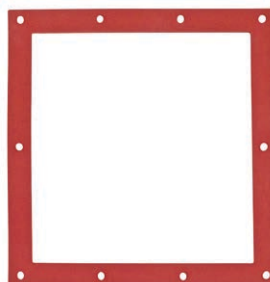
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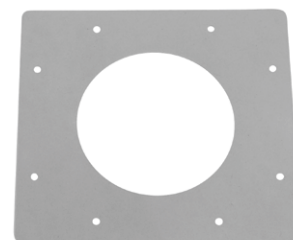
25024600



12374000



25036700



25012900



13290100

Part No.	Description	Qty. Required
12497600	WASHER, NEOPRENE, 7/8 IN OD X 1/2 IN	3
25023700	HOLDER, SHAFT	2
12374000	O-RING, 0.56" X 0.75" W, TEFLON	9
13290100	O-RING, SEAL, NUM. AS-568A.236 BN	1
13228400	O-RING, OIL-RESIST. BUNA-N, 3/32 WIDTH, DASH 119	2
25024600	GASKET, TRAPEZOIDAL BOX	1
25036700	GASKET, SPIRAL HEATER 1RQ	1
25012900	GASKET, S3T (OPTIONAL) PORTAL, TEST CHAMBER	1

Temperature Sensors - Safety Switches



81017200



81017100



81017400



81017300

Part No.	Description	Qty. Required
81017200	BPT, TEMP. SENSOR, UNINSULATED, W-HOLDER, PT-1000	1
81017100	BST, TEMP. SENSOR, INSULATED, W-HOLDER, PT-1000	1
81017400	WPT, TEMP. SENSOR, UNINSULATED, W-HOLDER, PT-1000	1
81017300	WST, TEMP. SENSOR, INSULATED, W-HOLDER, PT-1000	1

Temperature Sensors - Safety Switches



81000008



85005000



13315600



81004400



13228400

(Used with thermostats above.)

Part No.	Description	Qty. Required
81000008	PROBE, 3" PT1000, 2-WIRE, SEALED	1
85005000	THERMOSTAT, CHAMBER TEMP., (82C) 180F TRIP	1
13315600	THERMOSTAT, HEATER TEMP., (98C) 200F TRIP	1
13228400	O-RING, OIL-RESIST. BUNA-N, 3/32 WIDTH, DASH 119	2
81004400	THERMOSTAT, LAMP COOLING SYS. (65C) 149F TRIP	1

Terminal Blocks



85007800

Part No.	Description	Qty. Required
85007800	CONNECTOR, TERM. BLOCK, RACK, LEGACY SENSORS	1

Touch Panel - Communications Cables



25021300



56079223



85003900



56079762

Part No.	Description	Qty. Required
25021300	MODULE, TOUCH PANEL	1
85003900	COMMUNICATION CABLE, FIBER-OPTIC	1
56079223	CABLE, PATCH, RJ45, 500MM (2 FT), GRAY	1
56079762	CABLE, PATCH, RJ45, 2500MM (10 FT), YELLOW	3

Touch Panel - Communications Cables



81059600



85008100



85007200



85007100

Part No.	Description	Qty. Required
81059600	CABLE ASSEMBLY, USB, TYPE A-B, 0.5M	2
85007200	CABLE, RJ45, NETWORK EXTENSION, 7 FT.	1
85008100	CABLE, RJ45, PATCH, 2000MM (7 FT), BLACK	3
85007100	CABLE, 12VDC INLET, DISPLAY	1

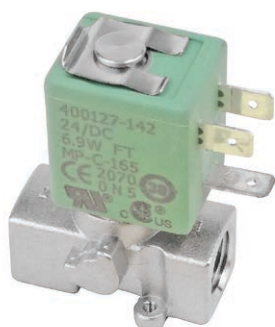
Valves - Solenoid / Manual



81006700



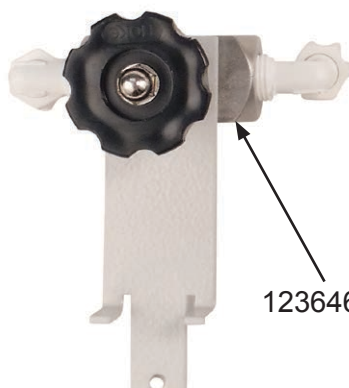
85005500



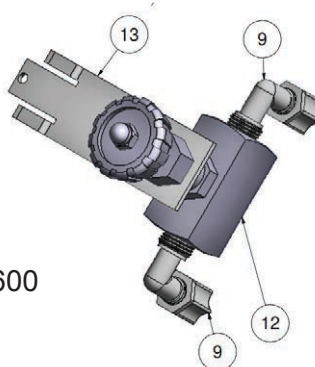
81001300



85006100



12364600

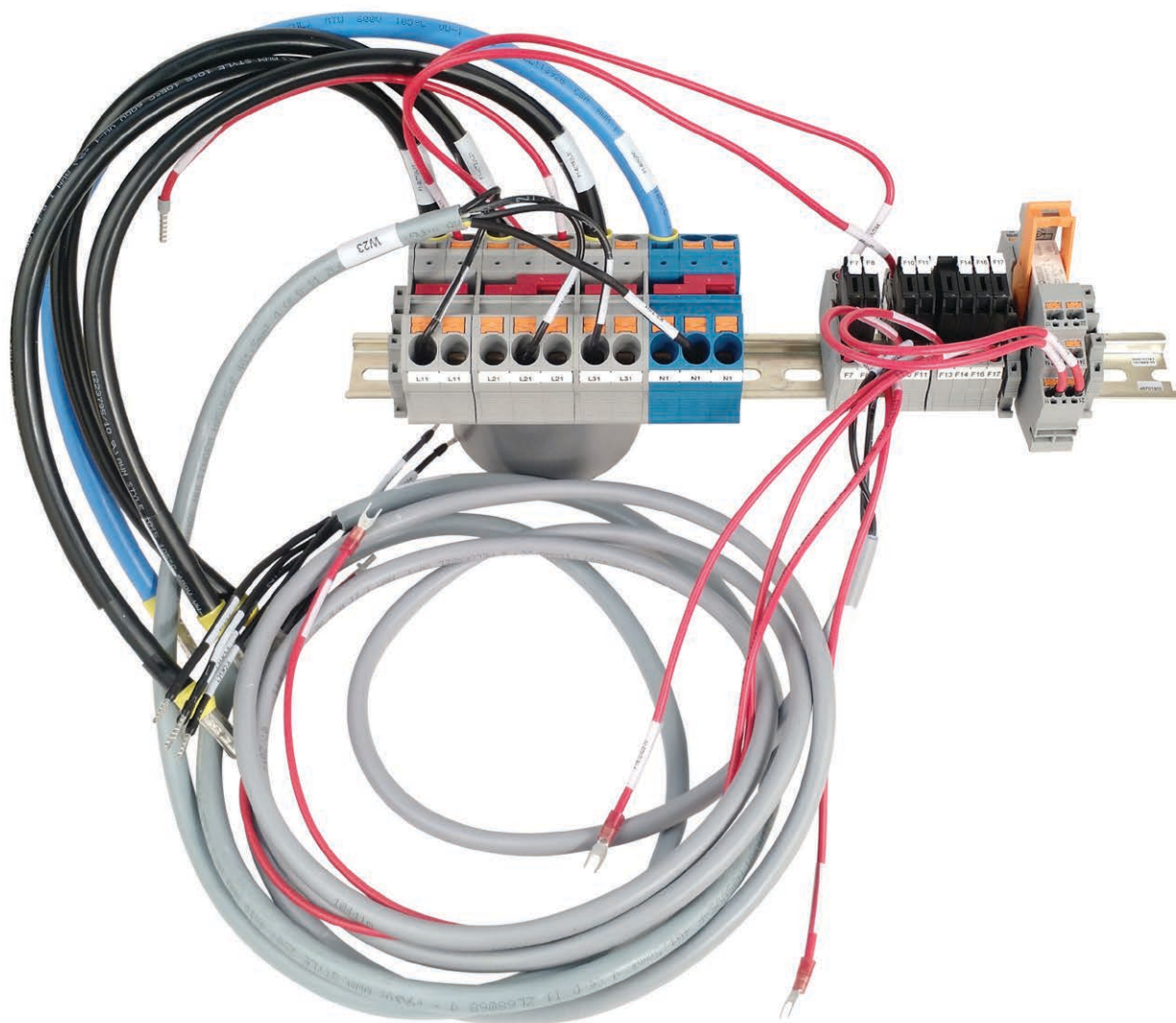
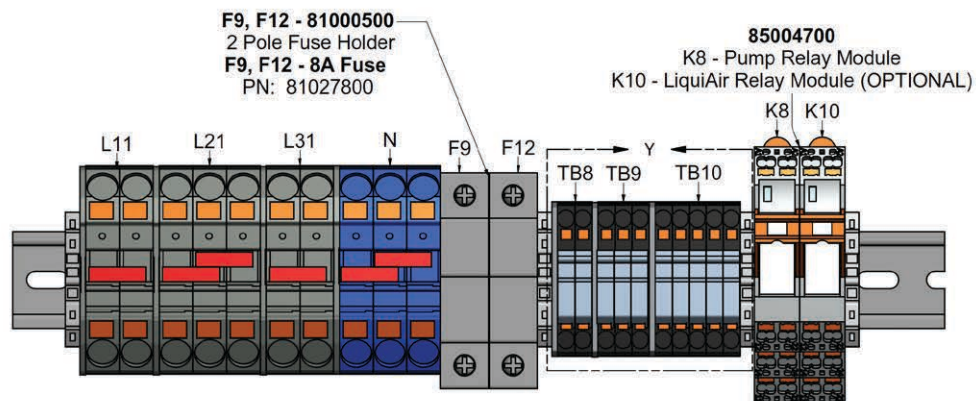


ITEM	QT	PART NUMBER	DESCRIPTION
9	4	25039100	
12	1	12364600	
13	1	25039300	humidification water bracket

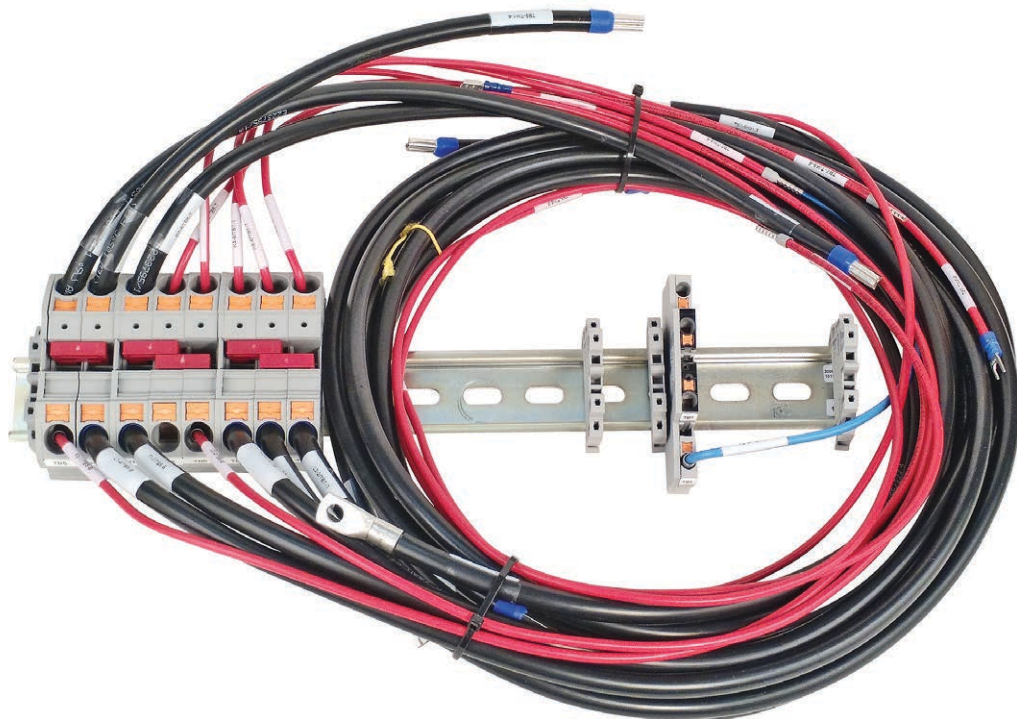
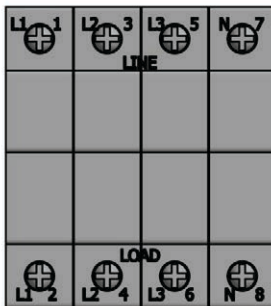
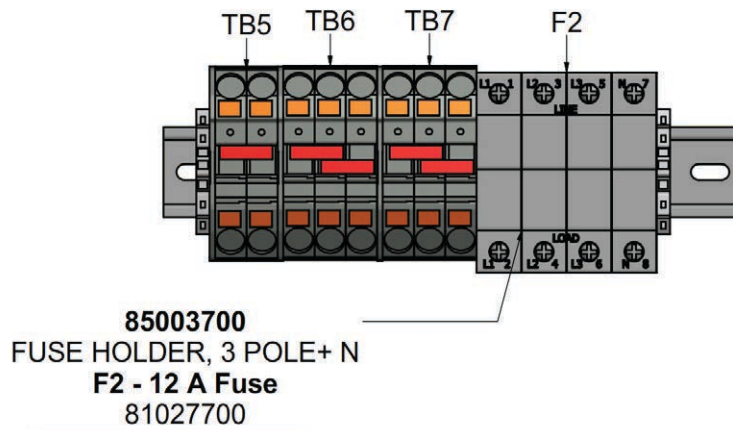
VALVE ASSEMBLY IS PART OF HUMIDIFIER CONTROLS ASSEMBLY 25039000
(See Humidifier section.)

Part No.	Description	Qty. Required
81006700	SOLENOID, ASCO, 1/4", 2-WAY, NC, BRASS, 24VDC	1
81001300	SOLENOID, ASCO, 1/4", 2-WAY, NC, SS, NSF-24VDC	2
85005500	CONNECTOR, SOLENOID, TYPE I WITH LED AND DIODE	3
85006100	CONNECTOR, SOLENOID, TYPE A W/ LED AND DIODE	1
12364600	ITEM (12) VALVE, MANUAL, HUMIDIFIER WATER	1

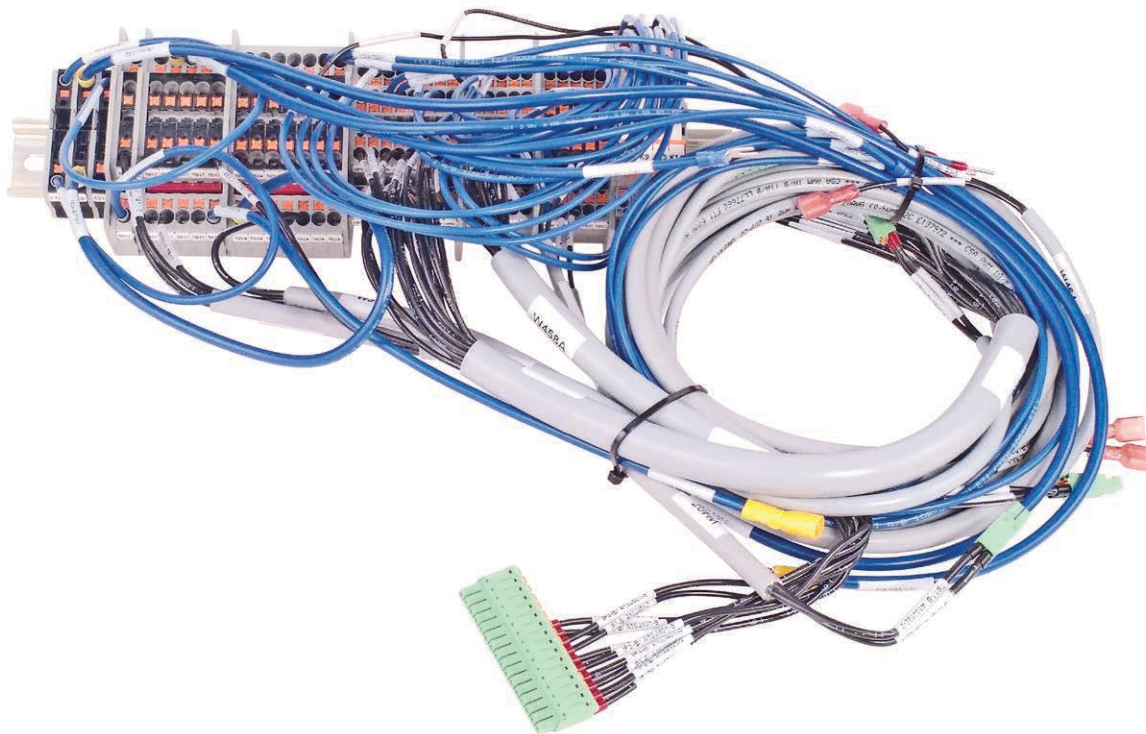
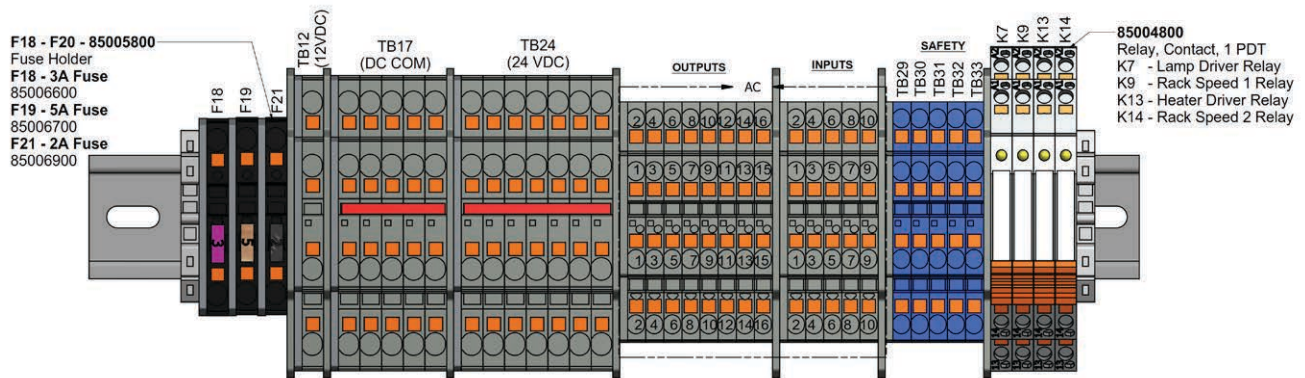
Wiring / Terminal Block Assemblies



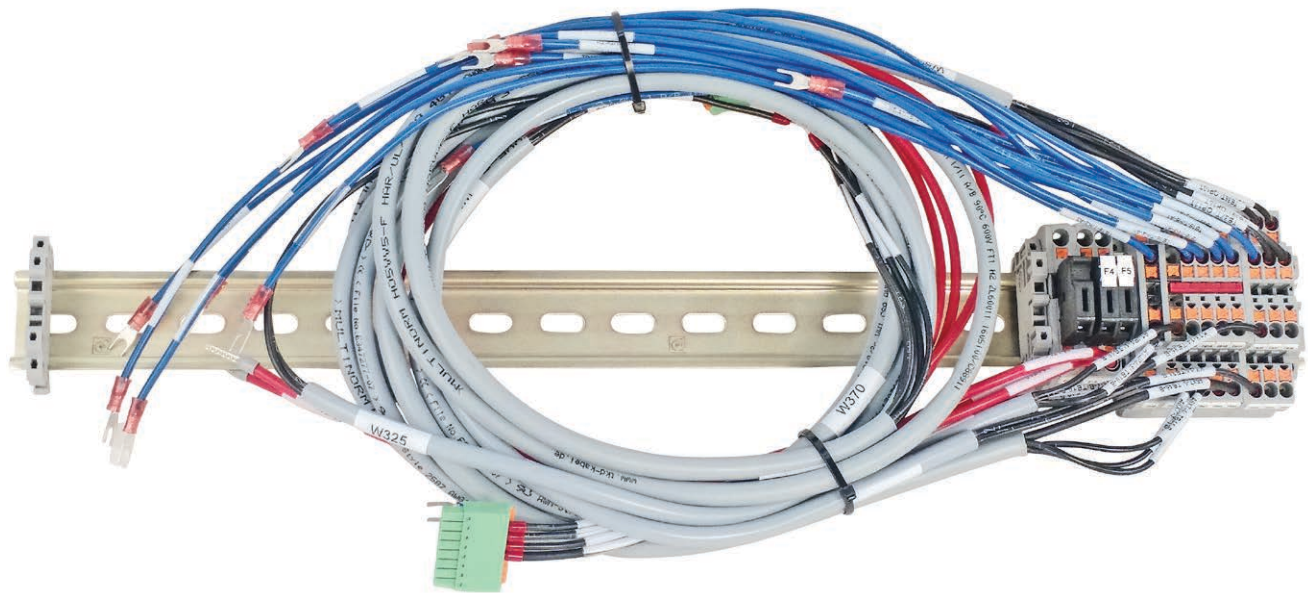
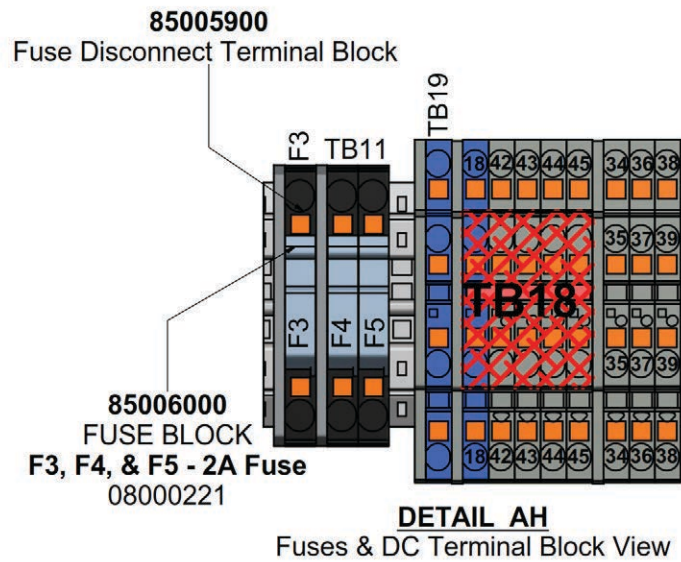
Wiring / Terminal Block Assemblies



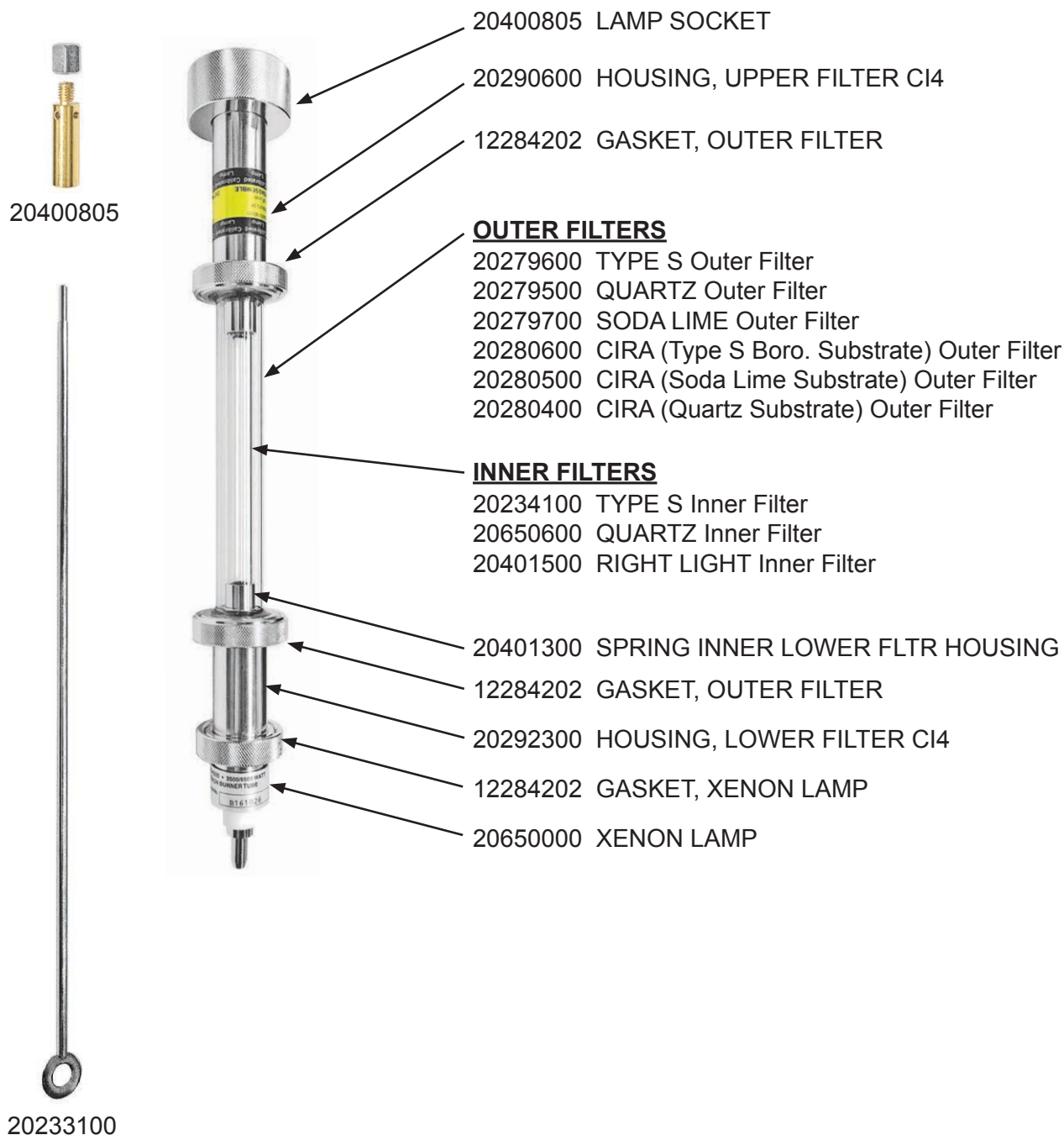
Wiring / Terminal Block Assemblies



Wiring / Terminal Block Assemblies



Xenon Lamp System and Mounting



Part No.	Description	Qty. Required
25040500	CALIBRATED REF. LAMP, PRE-ASSEMBLED, CERTIFIED	1
20400805	SOCKET, LAMP	1
20233100	TOOL, LAMP SOCKET INSTALLATION	1

Xenon Lamp System and Mounting

Auxiliary Filter Lantern



Part No.	Description	Qty. Required
20909900	AUXILIARY FILTER LANTERN WITH INSULATORS	1
20909800	INSULATOR KIT	1
20200700	FILTER, FLOAT GLASS (ISO 105 B02 OR GMW 3414TM)	6
07255300	FILTER, SF-5 GLASS (FORD BO 116-01)	6

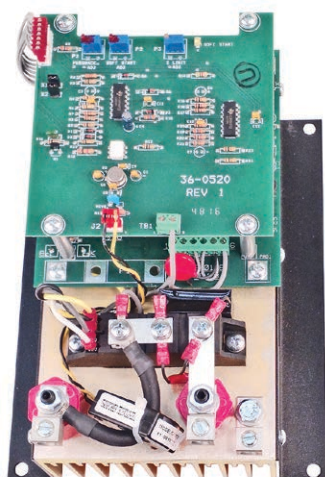
Lamp Operating Supply Packages - 4000 Hour

Part No.	Description	Qty. Required
21000046	TYPE S BORO/TYPE S BORO	1
21100040	BORO/SODA LIME	1
21000043	QUARTZ/TYPE S BORO	1
21100049	QUARTZ/CIRA ON SODA LIME	1
21000113	RIGHT LIGHT/QUARTZ	1
21000114	RIGHT LIGHT/CIRA	1
21100300	FORD DVM (LANTERN FILTERS)	1
21000400	GMW3414 (LANTERN FILTERS)	1

Xenon Lamp System and Mounting



13223202



13244601



12528401



25039600



25037200

Part No.	Description	Qty. Required
13223202	IGNITER, SHORT CONE, Ci3000	1
13244601	REGULATOR, WATTAGE, 50A, 275V, W-CURRENT FEEDBK	1
12528401	CAPACITOR, 40MFD, 440VAC (C1 - C3)	3
25039600	FITTING, LAMP WATER SUPPLY, BOTTOM	1
25037200	BARB FITTING, KYNAR	2

Xenon Lamp System and Mounting



20159500



07313800



20400101



07313900



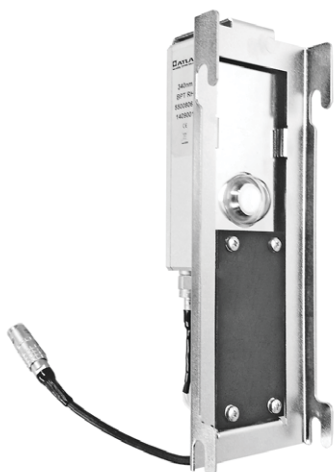
07314000



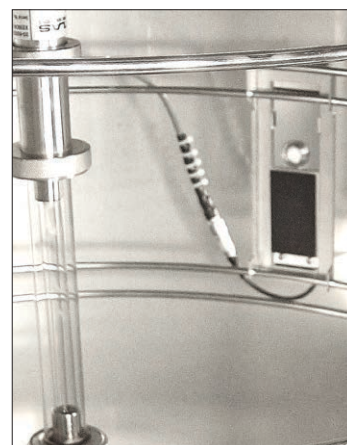
85005600

Part No.	Description	Qty. Required
20159500	RESISTOR ASSEMBLY	3
20400101	CLAMP, XE LAMP TERMINAL, 6000W	1
07314000	TOP LAMP HOLDER CI4000	1
07313900	BASE LAMP HOLDER, CI4000	1
07313800	NUT, LAMP HOLDER, CI4000	1
85005600	TEST-POINT ASSY., VOLTAGE, WATT. TRANS., CI4400	1

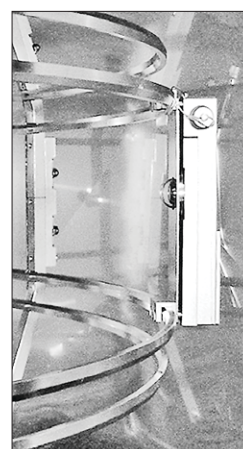
Xenosensiv (AIOS) and Xenocal



XENOSENSIV



XENOCAL



Part No.	Description	Qty. Required
55008061	XENOSENSIV 340 BPT RH	1
55008062	XENOSENSIV 420 BPT RH	1
55008060	XENOSENSIV 300-400 BST RH	1
25014100	HOLDER, XENOSENSIV	1
55007868	XENOCAL, 340NM, CI4400	1
55007869	XENOCAL, 420NM, CI4400	1
55007863	XENOCAL, 300-400NM, CI4400	1
56055009	BATTERY, XENOCAL	1