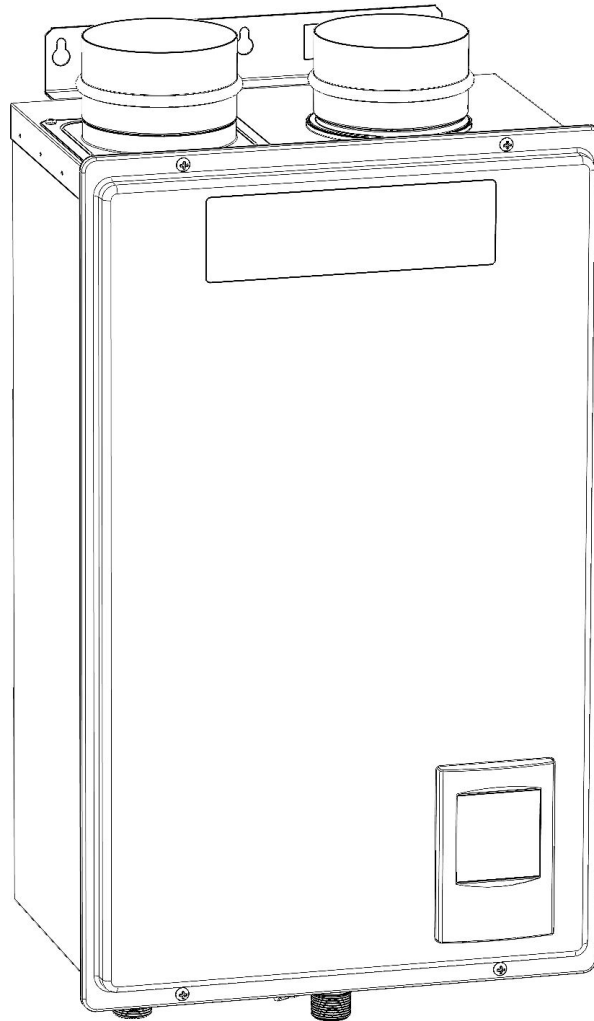


HS120Con Gas Boiler

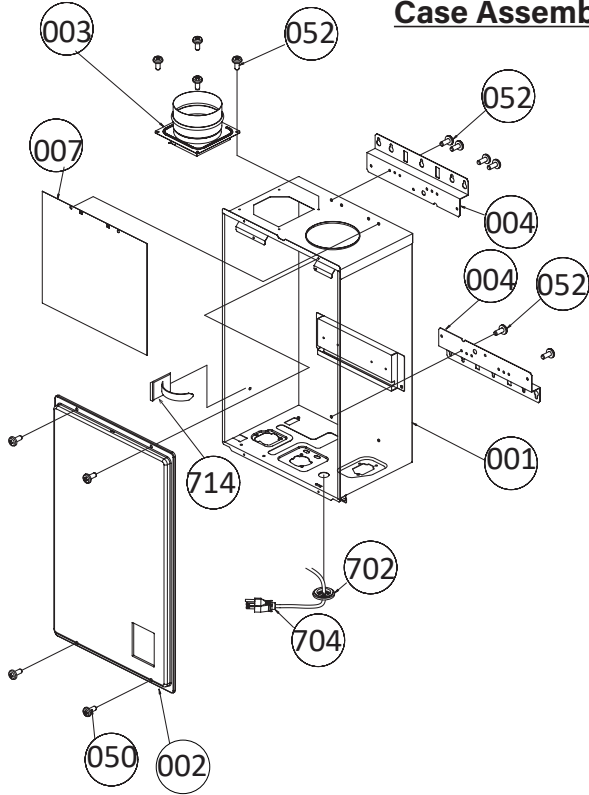
Components Diagram & Spare Parts List



www.hydro-smart.com
763-331-3066

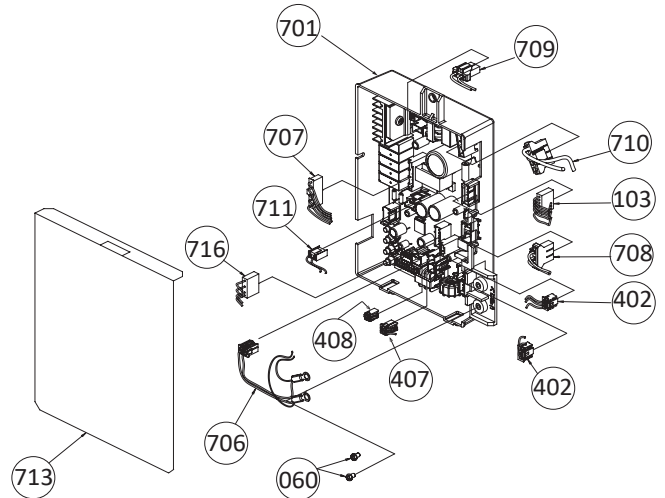
Spare Parts Diagram

Case Assembly



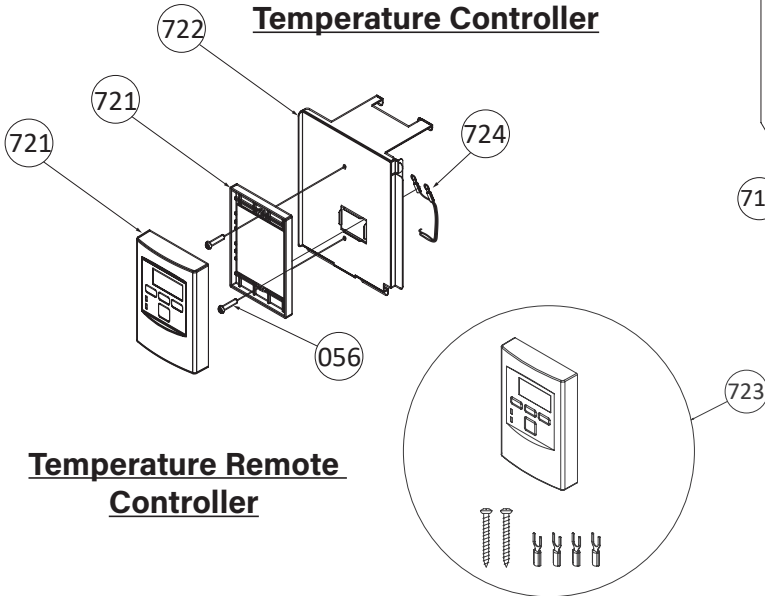
Item #	Part #	Description
001 - NA	EK450	Case Assy
002 - NA	EK452	Front cover
003 - NA	EK454	Intake air port assembly
004 - NA	EK455	Bracket
007 - NA	EK457	Back guard panel
050	EW000	Screw M4x12 (W/Washer)
052	EW002	Screw M4x10 (Coated)
702 - NA	EX148	Rubber grommet
704	EK146	120 VAC wire
714 - NA	EX13C	Cable clamp

Computer Board Assembly



Item #	Part #	Description
060 - NA	EK191	Screw M3X6
103	EK109	Fan motor
402	EK129	Flow adjustment valve/Flow sensor
407	EKK4J	Inlet thermistor
408	EK207	Outlet thermistor
701	EK480	Computer board
706	EK481	Remote Controller wire
707	EK482	Gas valve wire
708	EK483	Flame rod wire
709	EK484	Igniter assembly
710	EKJ59	Freeze protection thermostat
711	EK112	Proportional gas valve wire
713	EKK1M	Computer board cover
716	EK180	Exhaust Hi-limit switch wire

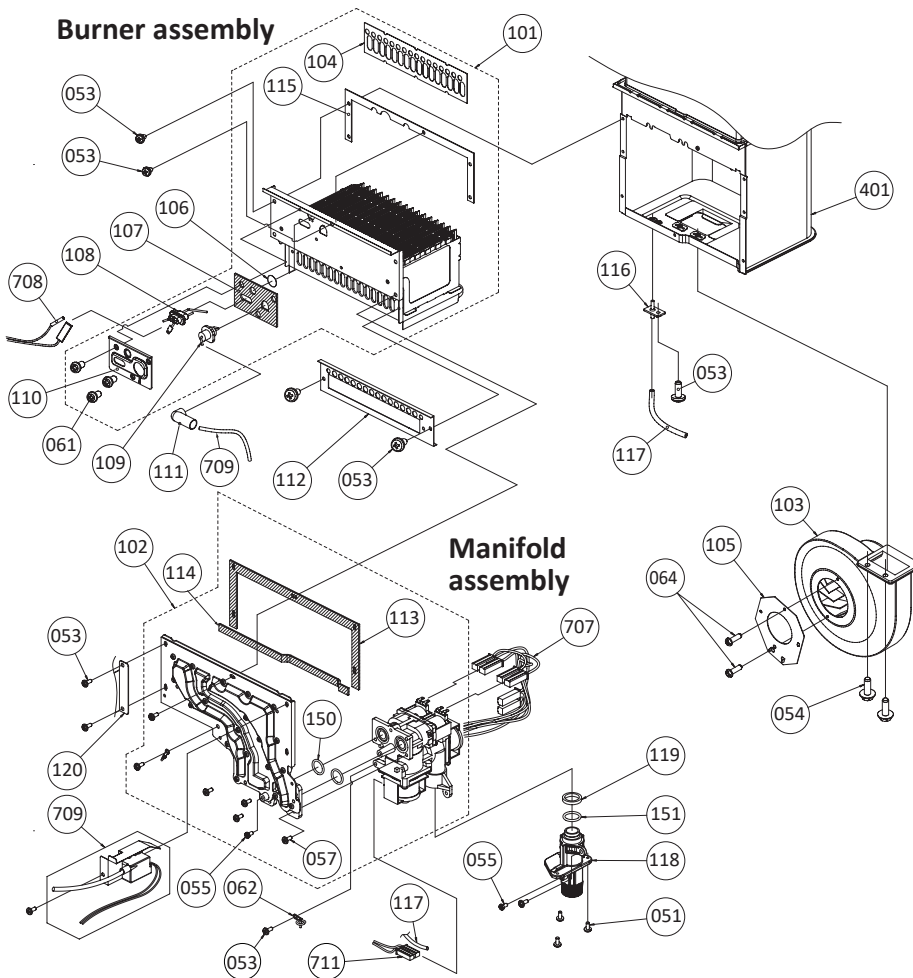
Temperature Controller



Temperature Remote Controller

Item #	Part #	Description
721	EK487	Temperature controller
722 - NA	EK490	Fixing plate
723	TM-RE40	Temperature remote controller
724 - NA	EK489	Remote controller connection wire

Spare Parts Diagram

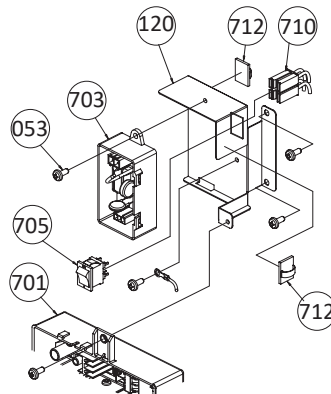


Item #	Part #	Description
053	EW003	Screw M4x10
709	EK484	Igniter assembly
061 - NA	EW00D	Pan screw M4X8
117 - NA	EX019	Combustion chamber tube
103	EK109	Fan motor
708	EK483	Flame rod wire
054 - NA	EW004	Hex head screw M4x12 (W/ Washer)
064 - NA	EW00B	Screw M3X6 SUS3
101	EK458	Burner Assy
104	EKK2X	Burner gasket
105	EK491	Fan damper
106	EKK2V	Burner window
107	EKK2W	Rod holder gasket
108	EK193	Flame rod
109	EK461	Igniter rod
110	EKK32	Rod holder
111	EK462	Rod cap
112 - NA	EK463	Burner damper
115	EKK0G	Burner holder gasket
116	EKK2D	Pressure Port
401	EK467	Heat exchanger assembly

Item #	Part #	Description
053	EW003	Screw M4x10
120 - NA	EK466	Surge box plate
707	EK482	Gas valve wire
709	EK484	Igniter assembly
711	EK112	Proportional gas valve wire
051 - NA	EW001	Screw M4x10 (W/Washer)
055 - NA	EW005	Hex head screw M4x8
057 - NA	EKK31	Tap tight screw M4X12 FEZN

061 - NA	EW00D	Pan screw M4X8
102	EK459	Manifold with gas valve assembly LP
113	EKK2Y	Manifold gasket A
114	EKK2K	Manifold gasket B
117 - NA	EX019	Combustion chamber tube
118	EK465	Gas inlet
119	EKK2Z	Gas inlet ring
151	EK042	O-Ring P20 NBR (Black)

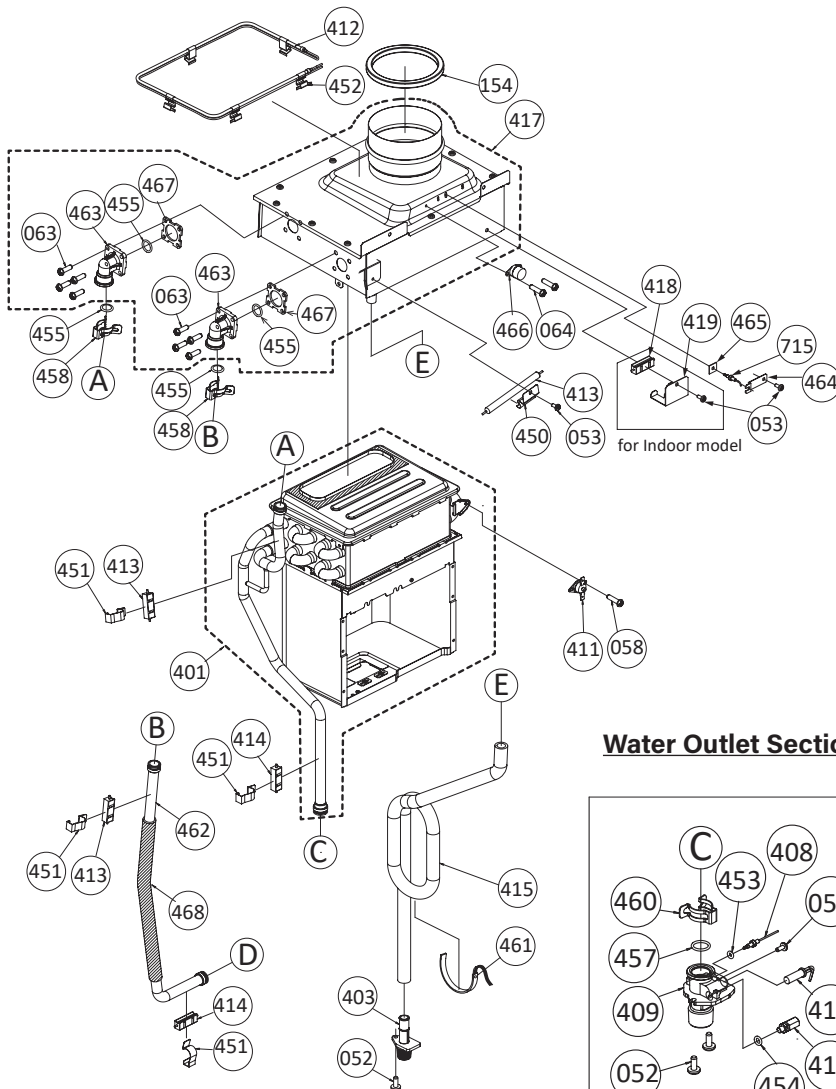
Item #	Part #	Description
701	EK480	Computer board
710	EKJ59	Freeze protection thermostat
053	EW003	Screw M4x10
120 - NA	EK466	Surge box plate
703	EK280	Surge box
705	EKK4V	120 VAC Power ON-OFF switch
712 - NA	EX004	Nylon clamp FC6



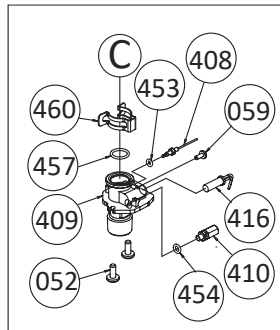
Surge Box

Spare Parts Diagram

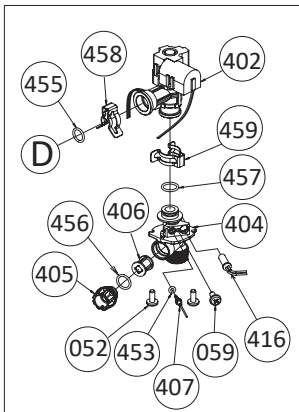
Water Way Assembly



Water Outlet Section



Water Inlet Section



Item #	Part #	Description
052	EW002	Screw M4x10 (Coated)
059	EW009	Screw M4X6
416	EK105	Inlet heater
453	EZM04	O-ring P4 FKM
457	EZM16	O-ring P16 FKM
455	EZM14	O-ring P14 FKM
458	EKK24	Fastener "14-22"
402	EK129	Flow adjustment valve/Flow sensor
407	EKK4J	Inlet thermistor
404	EKK1U	Water inlet
405	EKK2B	Inlet drain plug
406	EKK2C	Inlet water filter
456	EZM15	O-ring P15 FKM
459	EM192	Fastener "16A"

Item #	Part #	Description
053	EW003	Screw M4x10
064 - NA	EW00B	Screw M3X6 SUS3
401	EK467	Heat exchanger assembly
052	EW002	Screw M4x10 (Coated)
058 - NA	EW00A	Screw M3X6 SUS
063 - NA	EW00P	Screw M4X10
154	EKN50	Silicon ring
403	EKH23	Condensate drain port
411	EM212	Hi-Limit switch
412	EX02A	Overheat-cut-off fuse
413 - NA	EK468	Pipe heater
414 - NA	EK469	Inlet heater
415	EK470	Drain tube
417	EK471	Secondary heat exchanger
418 - NA	EK473	Secondary heat exchanger heater
419 - NA	EK474	Heater fixing plate
450 - NA	EK475	Pipe heating fixing plate
451	EK031	Heater fixing plate 16
452 - NA	EK476	Fuse fixing plate
455	EZM14	O-ring P14 FKM
458	EKK24	Fastener "14-22"
461	EK217	Flat heater
462 - NA	EK477	Cold pipe
463 - NA	EK478	Header connection
464	EX13H	Thermistor fixing plate
465	EX13L	Exhaust thermistor gasket
466	EKH6G	Hi-limit switch for exhaust
467	EK229	Gasket
715	EKH6E	Exhaust thermistor

Item #	Part #	Description
052	EW002	Screw M4x10 (Coated)
408	EK207	Outlet thermistor
059	EW009	Screw M4X6
409 - NA	EK104	Water outlet
410	EKK2E	Outlet drain plug
416	EK105	Inlet heater
453	EZM04	O-ring P4 FKM
454	EZM06	O-ring P6 FKM
457	EZM16	O-ring P16 FKM
460	EKK39	Fastener "16-25A"

Spare Parts Items List

Item #	Part #	Description	
001	EK450	Case Assy	N/A
002	EK452	Front cover	N/A
003	EK454	Intake air port assembly	N/A
004	EK455	Bracket	N/A
005	EK190	Junction box	
006	EK456	Power supply cord assembly	N/A
007	EK457	Back guard panel	N/A
050	EW000	Screw M4x12 (W/Washer)	
051	EW001	Screw M4x10 (W/Washer)	N/A
052	EW002	Screw M4x10 (Coated)	
053	EW003	Screw M4x10	
054	EW004	Hex head screw M4x12 (W/Washer)	N/A
055	EW005	Hex head screw M4x8	N/A
056	EW018	Pan screw M4x20	N/A
057	EKK31	Tap tight screw M4X12 FEZN	N/A
058	EW00A	Screw M3X6 SUS	N/A
059	EW009	Screw M4X6	
060	EK191	Screw M3X6	N/A
061	EW00D	Pan screw M4X8	N/A
062	EM167	Wire clamp 60	
063	EW00P	Screw M4X10	N/A
064	EW00B	Screw M3X6 SUS3	N/A
101	EK458	Burner Assy	
102	EK459	Manifold with gas valve assembly LP	
102	EK460	Manifold with gas valve assembly NG	
103	EK109	Fan motor	
104	EKK2X	Burner gasket	
105	EK491	Fan damper	
106	EKK2V	Burner window	
107	EKK2W	Rod holder gasket	
108	EK193	Flame rod	
109	EK461	Igniter rod	
110	EKK32	Rod holder	
111	EK462	Rod cap	
112	EK463	Burner damper	N/A
113	EKK2Y	Manifold gasket A	
114	EKK2K	Manifold gasket B	
115	EKK0G	Burner holder gasket	
116	EKK2D	Pressure Port	
117	EX019	Combustion chamber tube	N/A

Spare Parts Items List

Item #	Part #	Description	
118	EK465	Gas inlet	
119	EKK2Z	Gas inlet ring	
120	EK466	Surge box plate	N/A
150	EZP18	O-Ring P18 NBR (Black)	
151	EK042	O-Ring P20 NBR (Black)	
154	EKN50	Silicon ring	
401	EK467	Heat exchanger assembly	
402	EK129	Flow adjustment valve/Flow sensor	
403	EKH23	Condensate drain port	
404	EKK1U	Water inlet	
405	EKK2B	Inlet drain plug	
406	EKK2C	Inlet water filter	
407	EKK4J	Inlet thermistor	
408	EK207	Outlet thermistor	
409	EK104	Water outlet	N/A
410	EKK2E	Outlet drain plug	
411	EM212	Hi-Limit switch	
412	EX02A	Overheat-cut-off fuse	
413	EK468	Pipe heater	N/A
414	EK469	Inlet heater	N/A
415	EK470	Drain tube	
416	EK105	Inlet heater	
417	EK471	Secondary heat exchanger	
418	EK473	Secondary heat exchanger heater	N/A
419	EK474	Heater fixing plate	N/A
450	EK475	Pipe heating fixing plate	N/A
451	EK031	Heater fixing plate 16	
452	EK476	Fuse fixing plate	N/A
453	EZM04	O-ring P4 FKM	
454	EZM06	O-ring P6 FKM	
455	EZM14	O-ring P14 FKM	
456	EZM15	O-ring P15 FKM	
457	EZM16	O-ring P16 FKM	
458	EKK24	Fastener "14-22"	
459	EM192	Fastener "16A"	
460	EKK39	Fastener "16-25A"	
461	EK217	Flat heater	
462	EK477	Cold pipe	N/A
463	EK478	Header connection	N/A
464	EX13H	Thermistor fixing plate	

Spare Parts Items List

Item #	Part #	Description	
723	EX13L	Exhaust thermistor gasket	
466	EKH6G	Hi-limit switch for exhaust	
467	EK229	Gasket	
701	EK480	Computer board	
702	EX148	Rubber grommet	N/A
703	EK280	Surge box	
704	EK146	120 VAC wire	
705	EKK4V	120 VAC Power ON-OFF switch	
706	EK481	Remote Controller wire	
707	EK482	Gas valve wire	
708	EK483	Flame rod wire	
709	EK484	Igniter assembly	
710	EKJ59	Freeze protection thermostat	
711	EK112	Proportional gas valve wire	
712	EX004	Nylon clamp FC6	N/A
713	EKK1M	Computer board cover	
714	EX13C	Cable clamp	N/A
715	EKH6E	Exhaust thermistor	
716	EK180	Exhaust Hi-limit switch wire	
721	EK487	Temperature controller	
722	EK490	Fixing plate	N/A
723	TM-RE40	Temperature remote controller	
724	EK489	Remote controller connection wire	N/A