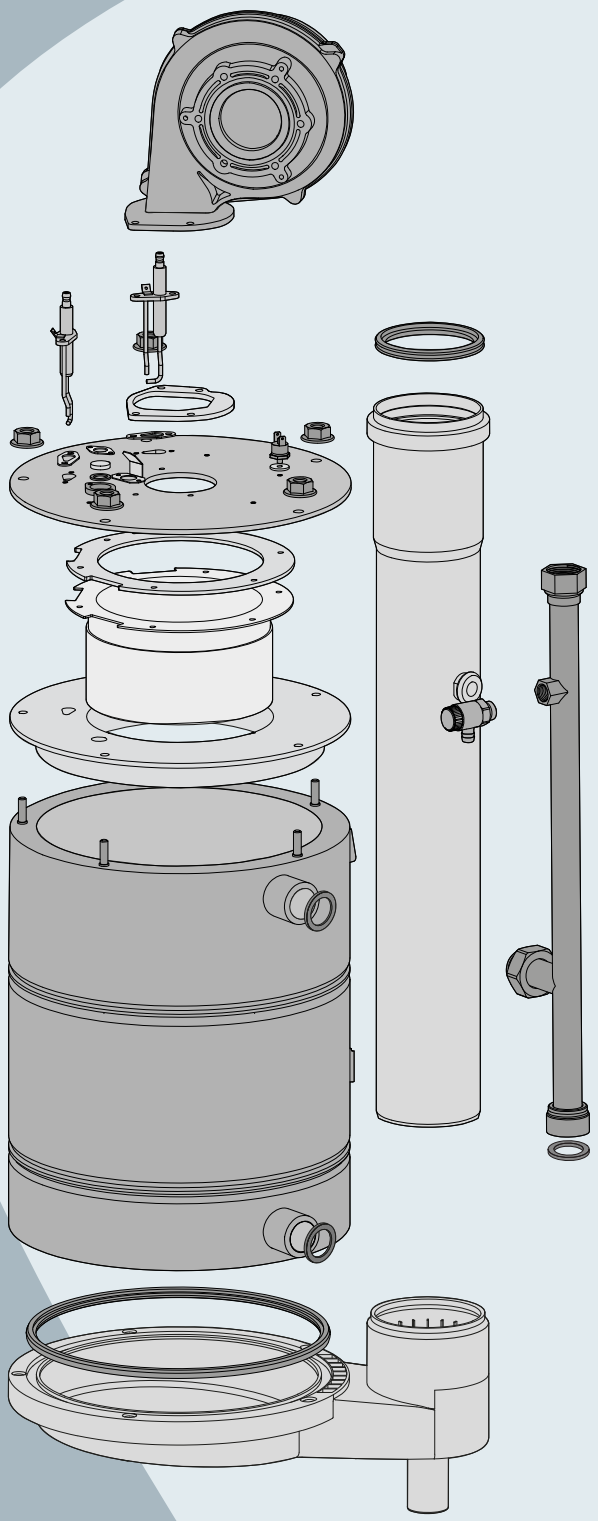
FTVN SERIES II

Residential Condensing Gas Boiler

SPARE PARTS EXPLODED VIEW



Models
FTVN085
FTVN110 / FTVN110C
FTVN150 / FTVN150C
FTVN199 / FTVN199C

NOTICE

The manufacturer reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.

The surfaces of these products contacted by potable (consumable) water contain less than 0.25% lead by weight as required by the Safe Drinking Water Act, Section 1417.

⚠ DANGER

THIS MANUAL MUST ONLY BE USED BY A QUALIFIED INSTALLER / SERVICE TECHNICIAN. READ ALL INSTRUCTIONS IN THIS MANUAL BEFORE INSTALLING. PERFORM STEPS IN THE GIVEN ORDER. FAILURE TO DO SO COULD RESULT IN SUBSTANTIAL PROPERTY DAMAGE, SEVERE PERSONAL INJURY, OR DEATH.

⚠ WARNING

Improper installation, adjustment, alteration, service, or maintenance could void product warranty and cause property damage, severe personal injury, or death.

California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SPARE PARTS EXPLODED VIEW
GAS-WALL CONDENSING BOILERS

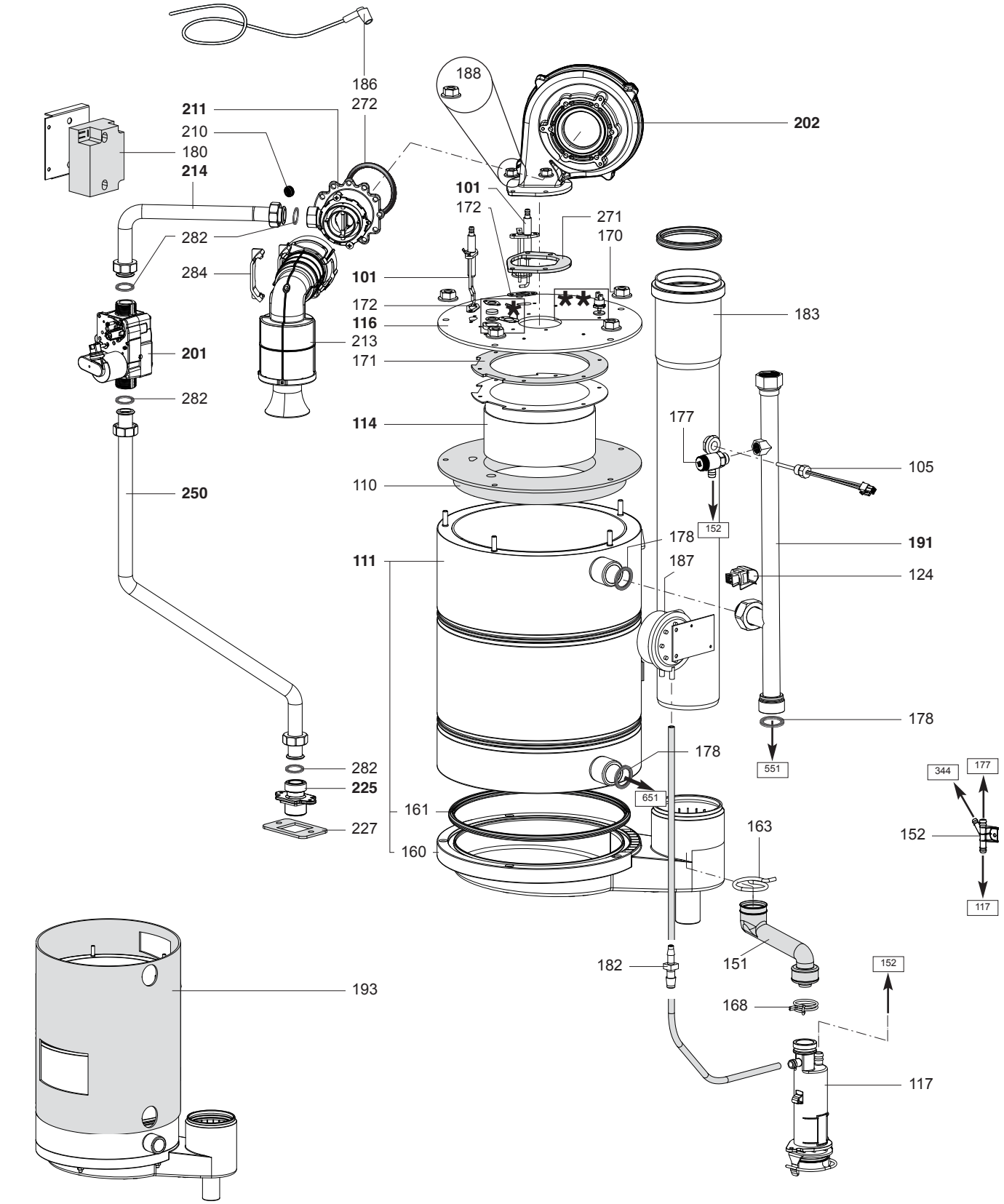
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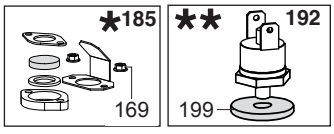
FTVN (C) SERIES II

R8219261-02 - 10/10/2024

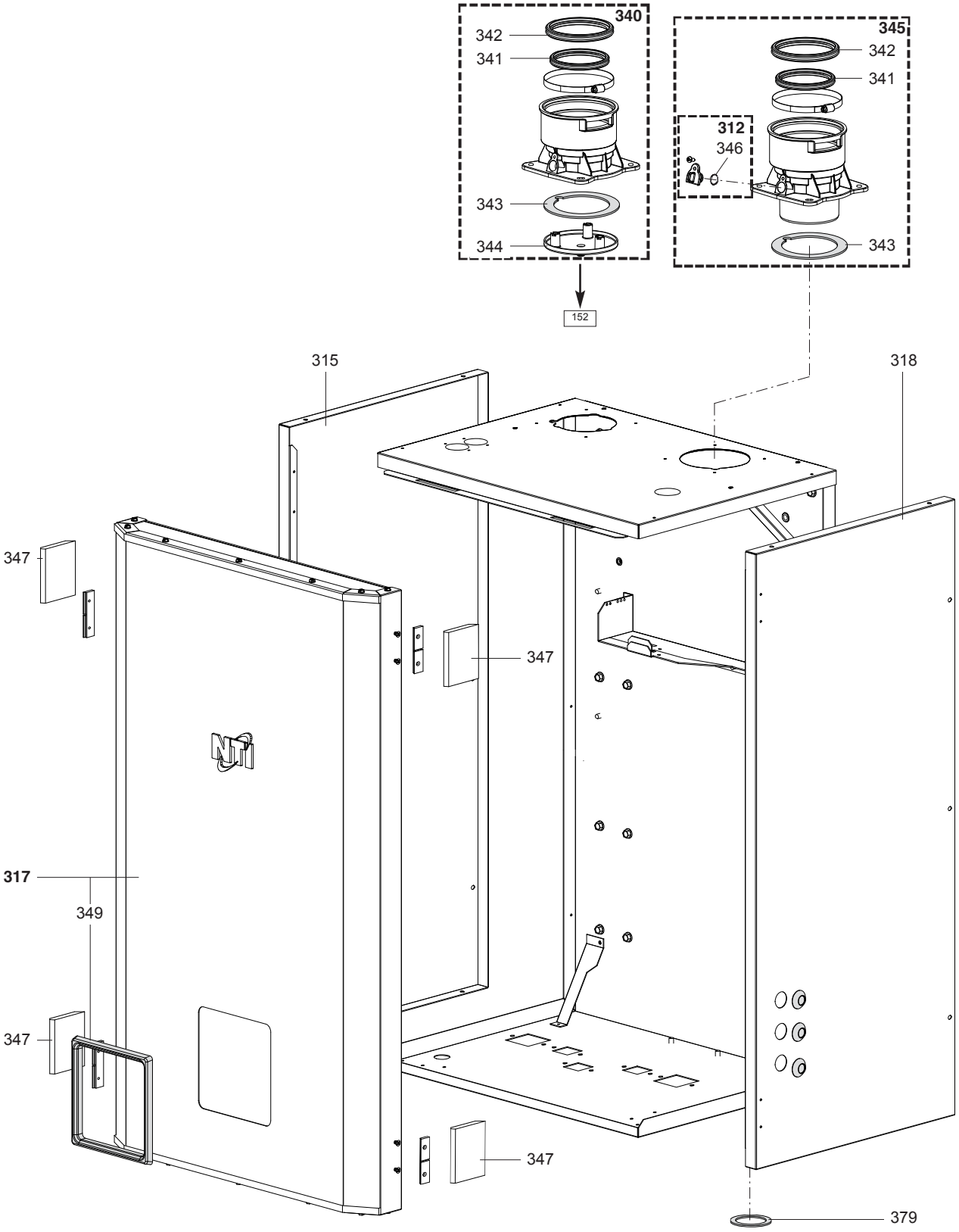
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Col	Reference	Model type	Begin	End
1	3314309	FTVN085 SERIES II	03-2024	-
2	3314310	FTVN110 SERIES II	03-2024	-
3	3314311	FTVN110C SERIES II	03-2024	-
4	3314312	FTVN150 SERIES II	03-2024	-
5	3314313	FTVN150C SERIES II	03-2024	-
6	3314314	FTVN199 SERIES II	03-2024	-
7	3314315	FTVN199C SERIES II	03-2024	-

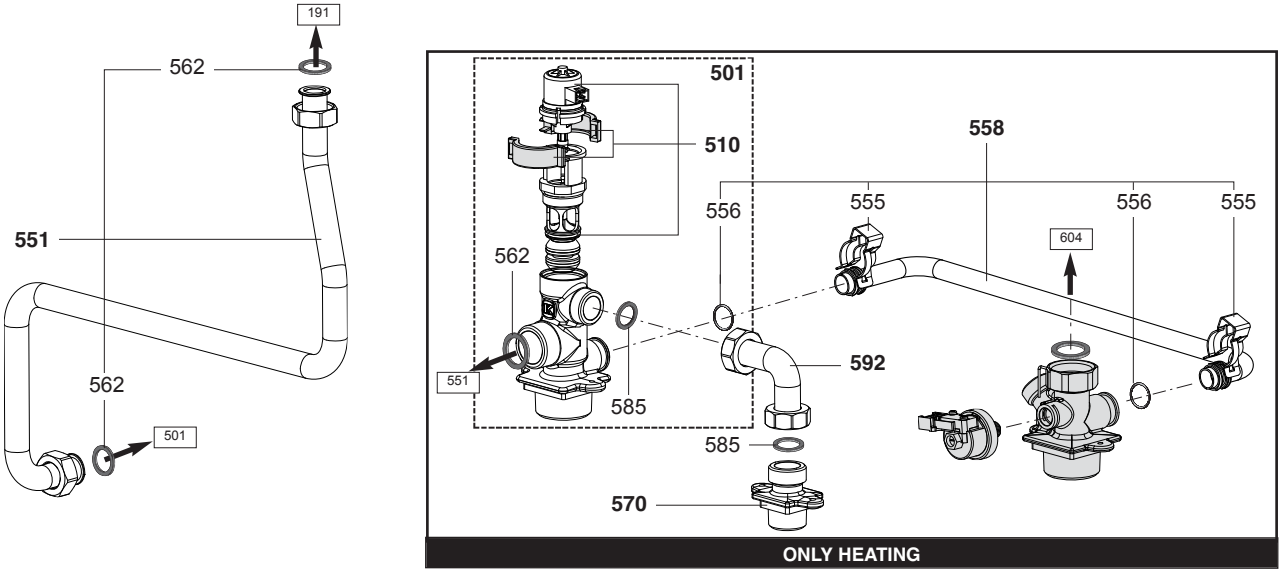

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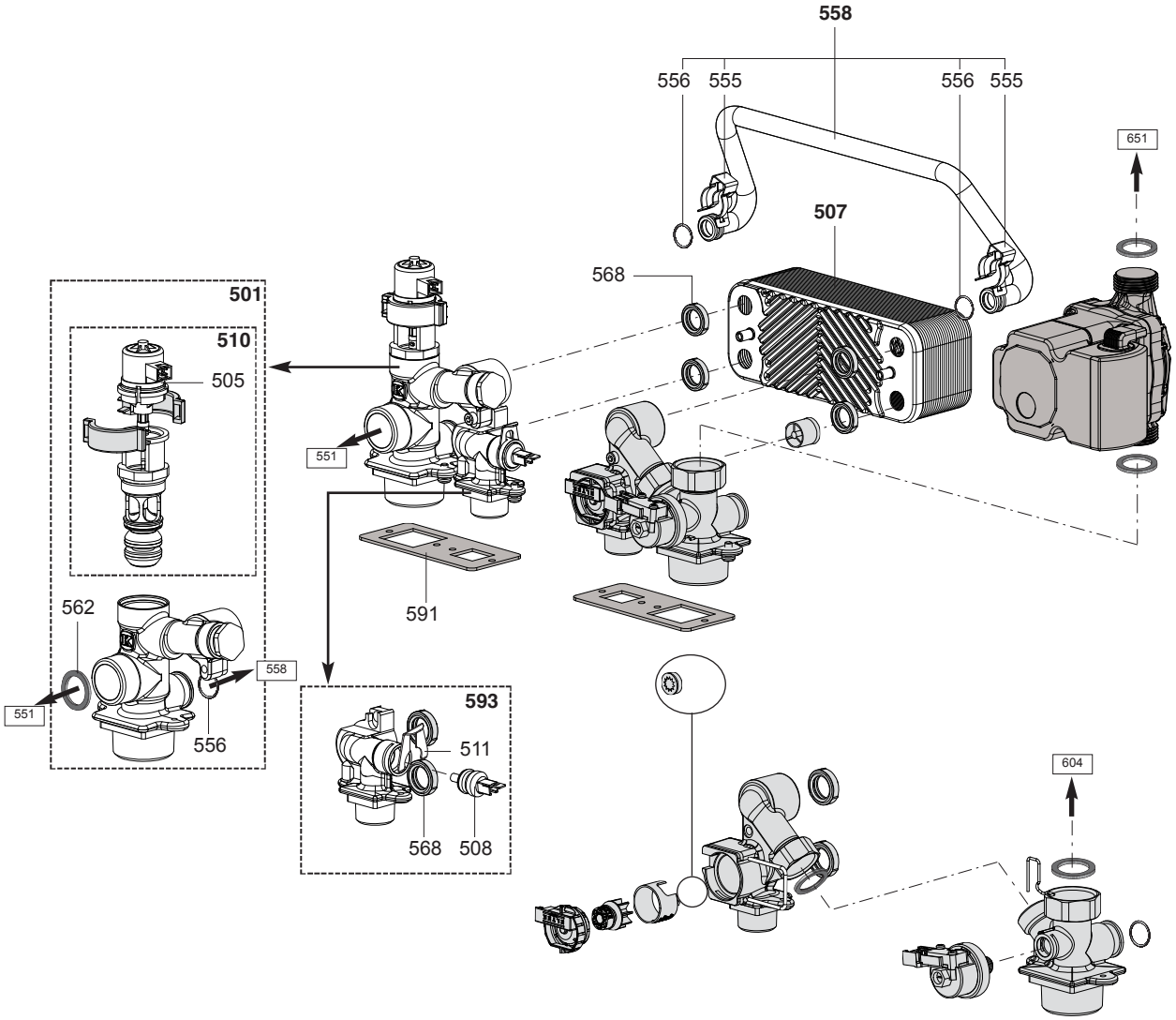

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	Description	Manf. Pt. N	Type	FTVN085	FTVN110	FTVN110C	FTVN150	FTVN150C	FTVN199	FTVN199C	From	to
				1	2	3	4	5	6	7		
0100	**EXCHANGER BLOCK**											
0101	IGNITION ELECTRODE	6500645000		●	●	●	●	●	●	●		
0105	NTC FLUE SENSOR 4X45 1/4 10K3 SS	64980174		●	●	●	●	●	●	●		
0110	INSULATION (BURNER DOOR DISC-VC30)	64980168		●	●	●						
	INSULATION (BURNER DOOR DISC-VC45)	64980169					●	●				
	INSULATION (BURNER DOOR DISC-VC60)	64980170							●	●		
0111	HEAT EXCHANGER VC30 AIC	64980160		●	●	●						
	HEAT EXCHANGER VC45 AIC	64980161					●	●				
	HEAT EXCHANGER VC60 AIC	64980162							●	●		
0114	BURNER VC30	64980158		●	●	●						
	BURNER VC45/VC60	64980159					●	●	●	●		
0116	BURNER TOP PLATE	64980461		●	●	●						
	BURNER TOP PLATE	64980462					●	●				
	BURNER TOP PLATE	64980463							●	●		
0117	CONDENSATE TRAP	6500772400		●	●	●	●	●	●	●		
0124	TEMPERATURE PROBE + CLIP	990686-01		●	●	●	●	●	●	●		
0151	CONDENSATE DRAIN PIPE	64980178		●	●	●	●	●	●	●		
0152	COUPLING Y HOSE CONNECTOR	64980263		●	●	●	●	●	●	●		
0160	CONDENSATE DISH ONLY VC30	64980675		●	●	●						
	CONDENSATE DISH ONLY VC45	6000086929					●	●				
	CONDENSATE DISH ONLY VC60	6000086930							●	●		
0161	GASKET (CONDENSATE DISH)	6000086932					●	●				
	GASKET (CONDENSATE DISH)	6000086933							●	●		
	GASKET (VC30 CONDENSATE DISH)	64980677		●	●	●						
0163	CLAMP	64980243		●	●	●	●	●	●	●		
0168	HOSE CLAMP	60000533		●	●	●	●	●	●	●		
0169	NUT, SERRATED FLANGE M3	64980242		●	●	●	●	●	●	●		
0170	NUT, SERRATED FLANGE M6	64980246		●	●	●	●	●	●	●		
0171	GASKET (BURNER-VC30)	64980166		●	●	●						
	GASKET (BURNER-VC45/VC60)	64980167					●	●	●	●		
0172	GASKET (ELECTRODE)	64980223		●	●	●	●	●	●	●		
0177	AIR VENT	64980150		●	●	●	●	●	●	●		
0178	GASKET 1 in (AFM34/2 REINZ)	64980701		●	●	●	●	●	●	●		
0180	SPARK GENERATOR	65119323		●	●	●	●	●	●	●		
0182	CONNECTOR TUBING 3/8 in x 1/4 in, barbed	64980244		●	●	●	●	●	●	●		
0183	FLUE PIPE (POLYPROPYLENE)	64980173		●	●	●	●	●	●	●		
0185	SIGHT GLASS (COMPLETE)	64980222		●	●	●	●	●	●	●		
0186	CABLE (IGNITION ELECTRODE)	64980171		●	●	●	●	●	●	●		
0187	AIR PRESSURE SWITCH	65118678		●	●	●	●	●	●	●		
0188	NUT, SERRATED FLANGE M5-08	64980241		●	●	●	●	●	●	●		
0191	PIPE (MANIFOLD)	64980154		●	●	●	●	●	●	●		
0192	PLUG (THERMAL SWITCH HOLE)	64980687		●	●	●	●	●	●	●		
0193	INSULATION (HEAT EXCHANGER)	6500846600		●	●	●						
	INSULATION (HEAT EXCHANGER)	6500846700					●	●				
	INSULATION (HEAT EXCHANGER)	6500846800							●	●		
0199	GASKET, THERMAL SWITCH TO TOP PLATE	64980507		●	●	●	●	●	●	●		
0200	**GAS SECTION**											
0201	GAS VALVE, HONEYWELL KV4205	65118645		●	●	●	●	●	●	●		
0202	VENTILATOR	64980119							●	●		
	VENTILATOR	64980120		●	●	●	●	●				
0210	GAS DIAPHRAGM D: 6.40 (LP)	60001923		●	●	●	●	●				
	GAS DIAPHRAGM D: 6.90	60001924							●	●		
	GAS DIAPHRAGM D: 8.5 (NG)	65118713					●	●				
0211	MIXER 085-110 LP FT	64980100		●	●	●						
	MIXER 150-150C LP FT	64980102					●	●				
	MIXER 199-199C LP FT	64980104							●	●		
	MIXER, 085-110-110C NG FT	64980124		●	●	●						
	MIXER, 150-150C NG FT	64980125					●	●				
	MIXER, 199-199C NG FT	64980126							●	●		
0213	SILENCER	64980127		●	●	●	●	●	●	●		
0214	PIPE (GAS VALVE-MIXER) stainless	64980439		●	●	●						
	PIPE (GAS VALVE-MIXER) stainless	64980664					●	●				
	PIPE (GAS VALVE-MIXER) stainless	64980680							●	●		
0225	CONNECTION M 3/4 NPT-M 3/4 Gas	64980176		●	●	●	●	●	●	●		
0227	GASKET (GAS ADAPTER)	64980217		●	●	●	●	●	●	●		
0250	PIPE (GAS INLET) stainless	64980442		●	●	●	●	●	●	●		
0271	GASKET (BLOWER)	64980678							●	●		
	GASKET (VENTILATOR)	64980699		●	●	●	●	●				
0272	O-RING 165 NBR 70 Sh 61.91x3,53	60001878		●	●	●	●	●	●	●		
0282	GASKET 3/4 in th. 3 NBR TEFLON-YELLOW	64980284		●	●	●	●	●	●	●		
0284	SILENCER SPACER	6000086861		●	●	●	●	●	●	●		

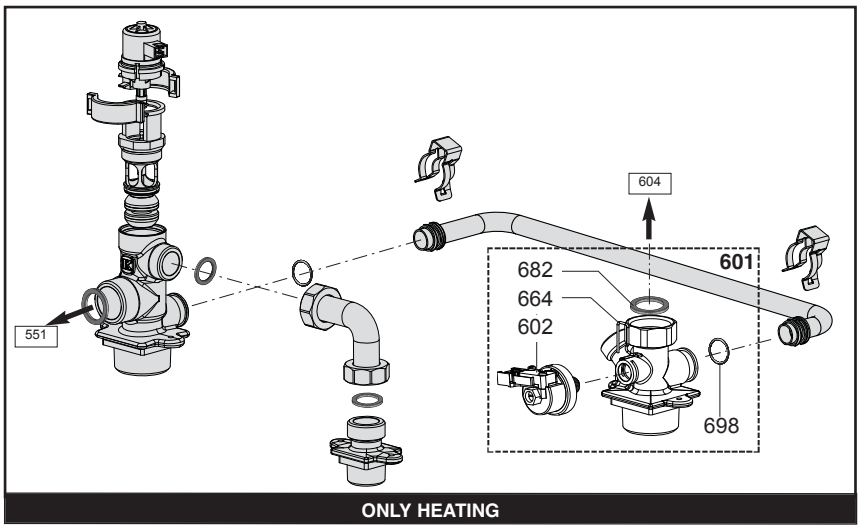

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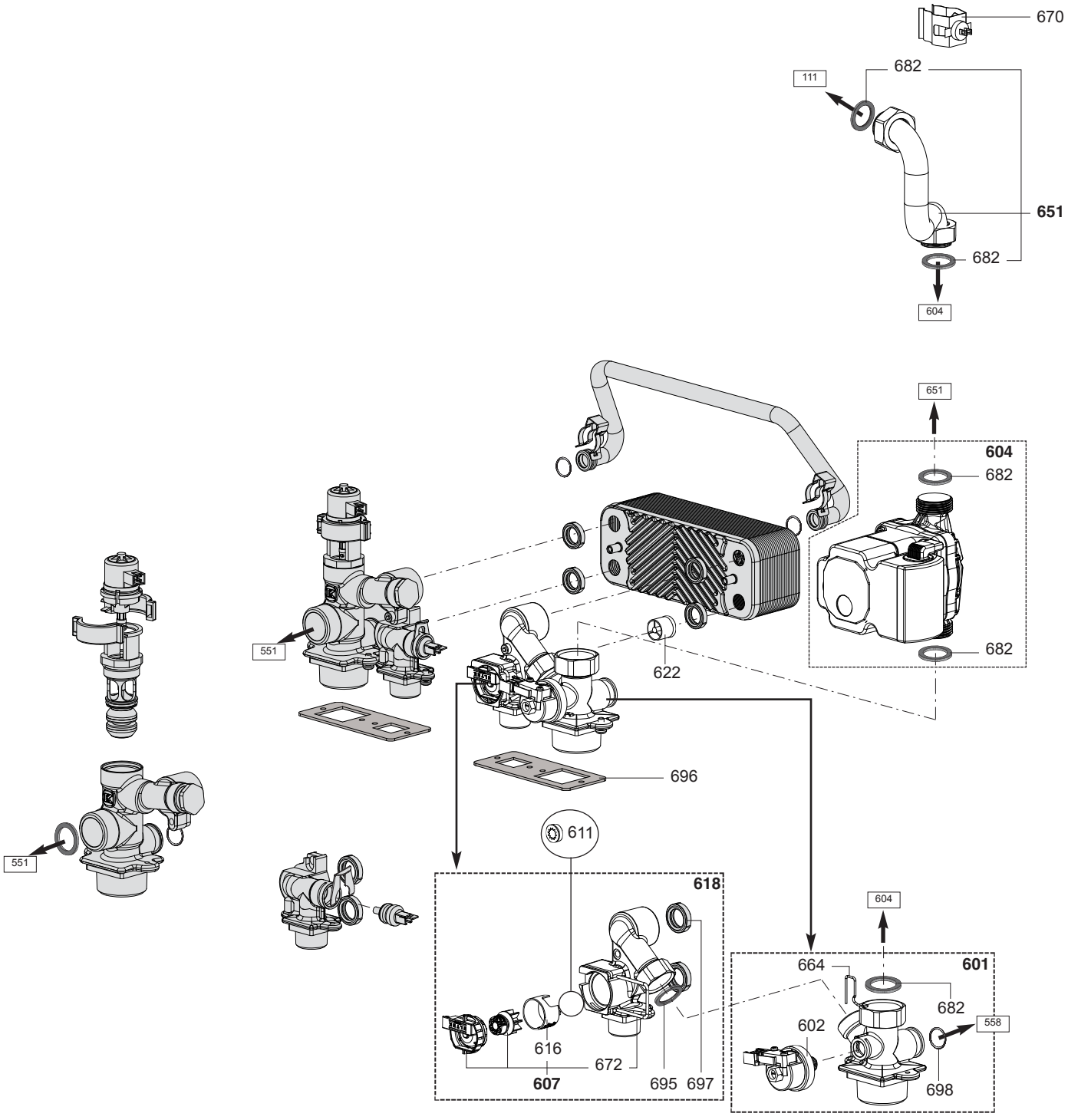
	Description	Manf. Pt. N	Type	FTVN085	FTVN110	FTVN110C	FTVN150	FTVN150C	FTVN199	FTVN199C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	From	to
0300	CHASSIS-FRONT CASE																													
0312	FLUE TEST PORT PLUG	64980209									●	●	●	●	●	●	●													
0315	PANEL (L.H. SIDE)	6500670400									●	●	●	●	●	●	●													
0317	PANEL (FRONT)	6500670500									●	●	●	●	●	●	●													
0318	PANEL (R.H. SIDE)	6500670300									●	●	●	●	●	●	●													
0340	ADAPTOR (AIR INLET)	64980206									●	●	●	●	●	●	●													
0341	SEAL GASKET OUTLET 80	64980237									●	●	●	●	●	●	●													
0342	SEAL GASKET GAS IN-OUT ADAPTORS	6500745700									●	●	●	●	●	●	●													
0343	FOAM FLUE GAS ADAPTOR	64980208									●	●	●	●	●	●	●													
0344	TRAY CONDENS	64980233									●	●	●	●	●	●	●													
0345	ADAPTOR (FLUE OUTLET)	64980210									●	●	●	●	●	●	●													
0346	O-RING SEAL 2,7X8,9 EPDM PEROX 70 Sh.	64980236									●	●	●	●	●	●	●													
0347	DOOR LATCH	64980238									●	●	●	●	●	●	●													
0349	BEZEL, DISPLAY SERIES II	6500605300									●	●	●	●	●	●	●													
0379	GASKET (CONDENSATE TRAP)	64980674									●	●	●	●	●	●	●													


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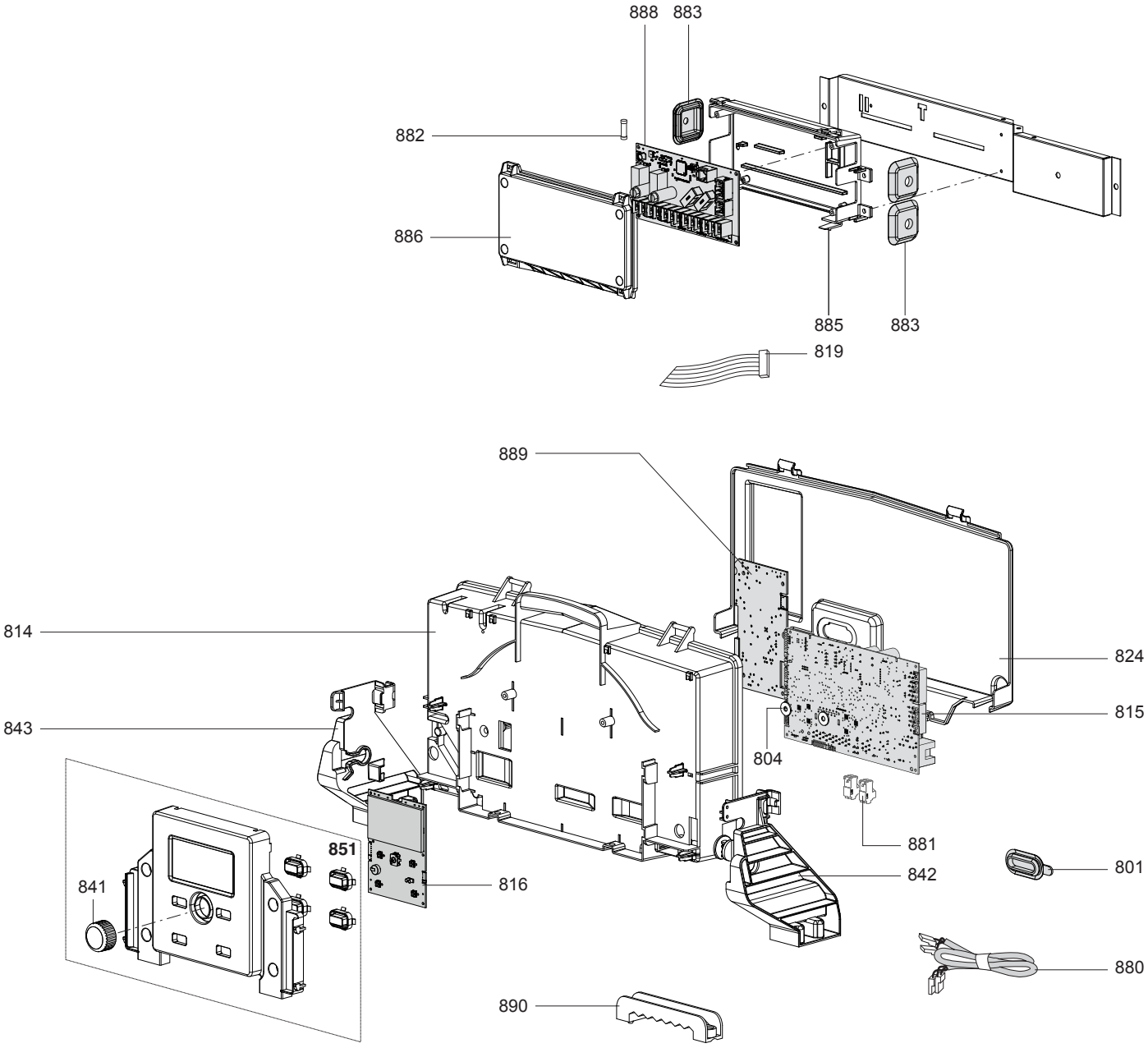

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	Description	Manf. Pt. N	Type	FTVN085	FTVN110	FTVN110C	FTVN150	FTVN150C	FTVN199	FTVN199C	From	to
				1	2	3	4	5	6	7		
0500	**FLOW GROUP**											
0501	GROUP (3 WAY VALVE)	64980860				●		●		●		
	GROUP (3 WAY VALVE-SYSTEM)	64980859		●	●		●		●			
0505	MOTOR (3-WAY VALVE) steel shaft Moons	64980862		●	●	●	●	●	●	●		
0507	SANITARY HEAT EXCHANGER (27 P.)	64980203				●		●		●		
0508	SENSOR (NTC)	65121175				●		●		●		
0510	3-WAY VALVE (MOTOR MOONS+CARTDR.)	64980861		●	●	●	●	●	●	●		
0511	CLIP D:12	65104339				●		●		●		
0551	PIPE (C.H. OUTLET)	64980156		●	●	●	●	●	●	●		
0555	CLIP (BY-PASS PIPE-SYSTEM)	64980186		●	●	●	●	●	●	●		
0556	O-RING 13.95 X 2.62	64980202		●	●	●	●	●	●	●		
0558	BY-PASS PIPE	64980187		●	●		●		●			
	BY-PASS PIPE	64980197				●		●		●		
0562	GASKET 1 in (AFM34/2 REINZ)	64980701		●	●	●	●	●	●	●		
0568	EXCHANGER GASKET	65114928				●		●		●		
0570	CONNECTION M 3/4 NPT - M 3/4 G	64980188		●	●	●	●	●	●	●		
0585	GASKET 3/4 INCH (AFM34/2 REINZ)	573520		●	●		●		●			
0591	GASKET (HYDROBLOCK)	64980250		●	●	●	●	●	●	●		
0592	PIPE (CH OUTLET)	64980189		●	●		●		●			
0593	GROUP (DHW OUTLET)	64980194				●		●		●		


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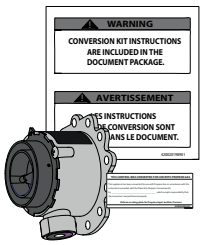
	Description	Manf. Pt. N	Type	FTVN085	FTVN110	FTVN110C	FTVN150	FTVN150C	FTVN199	FTVN199C												From	to
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
0600	RETURN GROUP																						
0601	GROUP (PUMP)	6500682300		●	●		●		●														
	GROUP (PUMP-COMBI)	64980221				●		●		●													
0602	PRESSURE SWITCH (PROPORTIONAL)	65115793		●	●	●	●	●	●	●													
0604	PUMP ES2 3VK 63-7C-C US VER STEP2	6500706000		●	●	●	●	●	●	●													
0607	FLOW METER	64980195				●		●		●													
0611	DHW FLOW RESTRICTORS (KIT)	64980196				●		●		●													
0616	DHW FILTER	64980266				●		●		●													
0618	GROUP (COLD WATER INLET)	64980220				●		●		●													
0622	BY-PASS	64980204		●	●	●	●	●	●	●													
0651	PIPE (C.H. RETURN)	64980155		●	●	●	●	●	●	●													
0664	CLIP	65104322		●	●	●	●	●	●	●													
0670	TEMPERATURE PROBE + CLIP	990686-01		●	●	●	●	●	●	●													
0672	CLIP (FLOW METER)	64980200				●		●		●													
0682	GASKET 1 in (AFM34/2 REINZ)	64980701		●	●	●	●	●	●	●													
0695	GASKET 3/4 INCH (AFM34/2 REINZ)	573520		●	●	●	●	●	●	●													
0696	GASKET (HYDROBLOCK)	64980250		●	●	●	●	●	●	●													
0697	EXCHANGER GASKET	65114928				●		●		●													
0698	O-RING 13.95 X 2.62	64980202				●		●		●													


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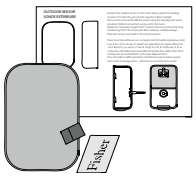
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0800	**ELECTRICAL BOX**																													
0801	GROMMET(PCD TOOL ACCESS)	998382									●	●	●	●	●	●	●													
0804	CARD FIXING WASHER	65112054									●	●	●	●	●	●	●													
0814	CONTROL PANEL BASE	64980075									●	●	●	●	●	●	●													
0815	P.C.B. (MAIN)	6500604600									●	●	●	●	●	●	●													
0816	P.C.B. (DISPLAY) SERIES II	6500604400									●	●	●	●	●	●	●													
0819	WIRING (WIFI)	6500670000									●	●	●	●	●	●	●													
0824	CONTROL PANEL COVER	64980402									●	●	●	●	●	●	●													
0841	DIAL, SERIES II DISPLAY	6500604500									●	●	●	●	●	●	●													
0842	CONTROL PANEL HINGE (R.H.Side)	64980234									●	●	●	●	●	●	●													
0843	CONTROL PANEL HINGE (L.H.Side)	64980235									●	●	●	●	●	●	●													
0851	CONTROL PANEL	6500679900									●	●	●	●	●	●	●													
0880	3-WAY VALVE CABLE	6500666100									●	●		●		●													
	3-WAY VALVE CABLE	6500670100											●		●		●													
	BLOWER POWER PIGTAIL (NRG118 TO NRG 128)	64980249														●	●													
	CABLE (BOILER POWER SUPPLY)	64980248									●	●	●	●	●	●	●													
	CABLE (DETECTION ELECTRODE)	64980097									●	●	●	●	●	●	●													
	CABLE (FAN-POWER SUPPLY)	6500670200									●	●	●	●	●	●	●													
	CABLE (JUNCTION BOX POWER SUPPLY)	6500669900									●	●	●	●	●	●	●													
	CABLE (PUMP 5M PWM TACO)	65118695									●	●	●	●	●	●	●													
	CABLE (PWM)	6500680100									●	●	●	●	●	●	●													
	CABLE (SPARK GENERATOR)	64980080									●	●	●	●	●	●	●													
	DISPLAY WIRING - 5 WIRES BLACK	6500605100									●	●	●	●	●	●	●													
	GAS VALVE CABLE	64980109									●	●	●	●	●	●	●													
	WIRING (FLUE SENS.-APS-DEL./RETURN NTC)	6500689400									●	●	●	●	●	●	●													
	WIRING (PUMP)	6500669800									●	●	●	●	●	●	●													
0881	CONNECTOR 2P	65111933									●	●	●	●	●	●	●													
0882	FUSE 5X20 RIT. 5 A 250V	65119782									●	●	●	●	●	●	●													
0883	GROMMET	6500604900									●	●	●	●	●	●	●													
0885	JUNCTION BOX BASE	6500605900									●	●	●	●	●	●	●													
0886	JUNCTION BOX COVER	6500605800									●	●	●	●	●	●	●													
0888	P.C.B. (JUNCTION BOX)	6500605700									●	●	●	●	●	●	●													
0889	P.C.B. (WIFI-REM4)	6500771200									●	●	●	●	●	●	●													
0890	CABLE CLAMP	65103377									●	●	●	●	●	●	●													

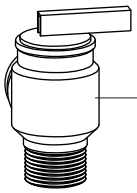
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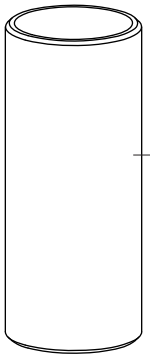
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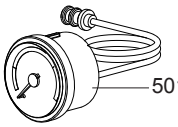


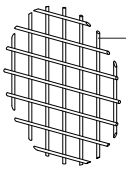
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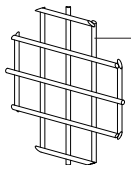


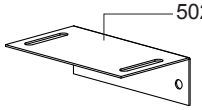

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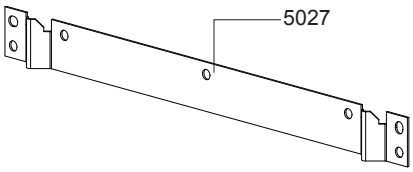

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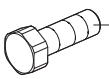

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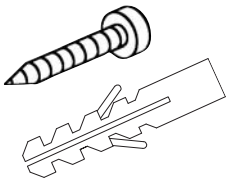

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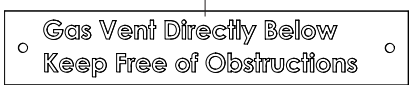

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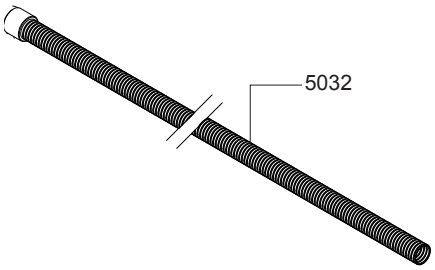
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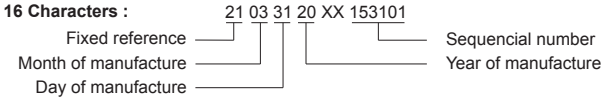
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5032

	Description	Manf. Pt. N	Type	FTVN085	FTVN110	FTVN110C	FTVN150	FTVN150C	FTVN199	FTVN199C	From	to
				1	2	3	4	5	6	7	8 9 10 11 12 13 14 15 16 17 18	
5000	JIG PLATE & PIPE FITTING											
5001	CONVERSION KIT (150 KW - LP)	6500690300					●	●				
	CONVERSION KIT (199 KW - LP)	6500690600							●	●		
	CONVERSION KIT (85-->110 KW - LP)	6500690100		●	●	●						
5002	OUTDOOR SENSOR	64980218		●	●	●	●	●	●	●		
5003	PRESSURE RELIEF VALVE	65118683		●	●	●	●	●	●	●		
5005	3 CPVC SYS 636, 5 LONG	6000083991		●	●	●	●	●	●	●		
5010	PRESSURE/TEMPERATURE GAUGE	65118685		●	●	●	●	●	●	●		
5022	KIT (INSTALLATION - 150 KW)	6500690200					●	●				
	KIT (INSTALLATION - 199 KW)	6500690500							●	●		
	KIT (INSTALLATION - 85-->110 KW)	6500690000		●	●	●						
5023	ROUND MESH,VENT SCREEN (2.25 in)	64980211		●	●	●	●	●				
5025	ROUND MESH, VENT SCREEN (3.375 in)	64980212		●	●	●	●	●	●	●		
5026	BRACKET (WALL MOUNT-BOTTOM)	64980093		●	●	●	●	●	●	●		
5027	WALL HOOK	64980096		●	●	●	●	●	●	●		
5028	WALL MOUNT HARDWARE LEG BOLT	64980213		●	●	●	●	●	●	●		
5029	WALL MOUNT HARDWARE PLASTIC PLUG	64980214		●	●	●	●	●	●	●		
5030	WALL MOUNT HARDWARE WASHER	64980215		●	●	●	●	●	●	●		
5031	GAS VENT DIRECTLY BELOW DECAL	64980098		●	●	●	●	●	●	●		
5032	PLASTIC PIPE CONDENSATE DRAIN	65117092		●	●	●	●	●	●	●		

IDENTIFICATION PLATE

SERIAL NUMBER



The indications mentionned on the prices, commercial or technical literature and the scheme are written for your guidance and are available at a given time. The CONSTRUCTOR retains the power to modify the presentation, the form, the size, the conception or the material of the products.

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