

# Residential Parts Pricing

Hydronic Boilers, Water and Space Heaters  
 Sizes 50,000 - 400,000 BTU/h

This Document Covers	Models	Sizes	Doc. No.
<b>NeoTherm</b> Boiler	NTH	80-210	1218, 1252
<b>FT Series</b> Wall Mounted Combination or Boiler	MFTCW, MFTHW	100-199	1487, 1483
<b>FT Series</b> Floor Standing Combination	LFTCE, LFTHF	199	1505, 1510
<b>Mascot FT</b> Wall Mounted Boiler	MFTHW	80-199	1342
<b>Mascot FT</b> Wall Mounted Combination	MFTCW	140-199	1318
<b>Mascot ST</b> Wall Mounted Water Heater	MSTWW	199	1316
<b>Mascot LX</b> Wall Mounted Combination or Boiler	MLXC, MLXH	50-220	1285
<b>Mascot II</b> Wall Mounted Boiler	LMC, LMH	125	1230
<b>Endurance</b> Boiler/Space/Water Heater	EDP, EDN, EBP	110-175	1117, 1187
<b>Mighty Therm2</b> Boilers, Water Heaters	MT2	200-400	1231
<b>Pennant</b> Boilers, Water Heaters	PNC	200-400	1195
<b>Mini-Therm JX</b> Hydronic Boiler	JX	50-200	1478
<b>Mini-Therm JV</b> Hydronic Boiler	JVS, JVT	50-225	1254
<b>Mini-Therm JVi</b> Hydronic Boiler	JVH	50-225	1080
<b>Mini-Combo</b> Space/Water Heater	MC	50-125	8001
<b>Laars-Stor</b> Indirect Tanks	LS-SW, LS-DW and LS-RTV	30-120	11062, 11045, 11064
<b>Mark II H Series</b> Boiler/Water Heater	H, HW, HP	60-130	1105



Using "Genuine Laars" parts will ensure accurate replacement and warranty coverage.  
Installation and Operation Manuals for current products are available on-line at [www.Laars.com](http://www.Laars.com)

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# NeoTherm

## Sizes 80,000 - 285,000 BTU/h

Part No.	Description	Size	Part No.	Description	Size
<b>GAS / AIR COMPONENTS</b>			<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
RA2113700	Combustion air blower.....	80-105	RE2319700	Duplex stack temperature sensor.....	80-210
RA2107500	Combustion air blower.....	150	RE2319800	Duplex stack temperature sensor.....	285
RA2114200	Combustion air blower.....	210-285	CA005400	Outdoor air sensor.....	80-285
R2069101	Main burner with gasket.....	80	RE2333500	Display module, revision 2*.....	80-285
R2069102	Main burner with gasket.....	105	RTXD7108	Control module, revision 2*.....	80-105
R2069103	Main burner with gasket.....	150	RTXD7109	Control module, revision 2*.....	150-285
R2069104	Main burner with gasket.....	210	CA50D7182	Retrofit to rev 3 cntrl & displ, revision 2*.....	80-105
R2069105	Main burner with gasket.....	285	CA50D7183	Retrofit to rev 3 cntrl & displ, revision 2*.....	150-210
RS2108500	Burner gasket.....	80-285	CA50D7181	Retrofit to rev 3 cntrl & displ, revision 2*.....	285
R2069200	Flame sensor with gasket.....	80-285	RE2347200	Display module, revision 3*.....	80-285
R2069300	Ignitor with gasket.....	80-285	RXD7199	Control module, revision 3*.....	80-105
RW2013400	Flame sensor gasket.....	80-285	RXD7198	Control module, revision 3*.....	150-210
RW2013300	Ignitor gasket.....	80-285	RXD7234	Control module, revision 3*.....	285
RS2112801	Burner door with gaskets.....	80-285	R50D7414	Wire harness.....	210
R2069400	Gaskets - burner door.....	80-210	R50D7412	Wire harness.....	80-150
RV2017900	Gas valve / venturi.....	80	R50D7408	Wire harness.....	285
RV2017901	Gas valve / venturi.....	105	R50D7001	Control panel enclosure.....	80-285
RV2017902	Gas valve / venturi.....	150	R50D7002	High voltage shield.....	80-285
RV2017903	Gas valve / venturi.....	210	RE2354000	Thermo-fuse, HX rear.....	285
RV2017904	Gas valve / venturi.....	285	RE2353601	Thermo-switch, burner door.....	285
R30D5013	Venturi to duct transition.....	285	50D7508	Harness, flame sensor.....	80-210
R30-227	Gas valve o-ring.....	80-285	50D7516	Harness, ignitor.....	80-210
R20D4020	Condensate trap assembly.....	80-210	R50D7003	Top panel bracket.....	80-285
R50D4020	Condensate trap assembly.....	285	RE2370700	Transformer.....	80-285
RS2109100	Gasket set (burner, ignitor, sensor, door).....	80-285	RE2322700	Rocker switch.....	80-285
RS2109400	Screw, air/gas channel (5-pack).....	80-210	RE2334700	Air pressure switch.....	80-150
RP2051700	Gas supply pipe.....	80	RE2334701	Air pressure switch.....	210
RP2051400	Gas supply pipe.....	105-210	RE2334700	Air pressure switch, 2 & 3*.....	285
RP2051500	Gas supply pipe.....	285	<b>JACKET / BASE COMPONENTS</b>		
RD0091101	Air inlet flex hose.....	285	8D3327	Left top panel.....	80
R8D3005	Air inlet / exhaust bracket.....	80	8D3328	Top panel, middle left.....	80
R10D3005	Air inlet / exhaust bracket.....	105	8D3329	Top panel, middle right.....	80
R20D3120	Air inlet / exhaust bracket.....	150-210	8D3330	Top panel, rear right.....	80
R30D3005	Air inlet / exhaust bracket.....	285	R15D3001	Right side panel.....	80-150
RS2108700	Air/gas channel.....	285	R15D3002	Left side panel.....	80-150
RD2010501	CPVC reducer or coupling.....	80-105	R15D3102	Jacket angle support (left only for 80-105).....	80-150
RP2053000	PVC reducer.....	150-210	R15D3303	Top middle panel.....	150
RP2052900	PVC reducer.....	285	R20D3301	Right top panel.....	210
RP2056100	Nylon NPT to hose barb adapter.....	150-285	R20D3303	Left top panel.....	210
RP2065600	CPVC reducer or coupling.....	150-210			
RP2067100	Nylon NPT to hose barb adapter.....	80-105			
R2004000	High gas pressure switch (opt).....	80-285			
R2004100	Low gas pressure switch (opt).....	80-285			
<b>CONVERSION KITS</b>					
CA006201	Propane conversion kit.....	80			
CA006202	Propane conversion kit.....	105			
CA006203	Propane conversion kit.....	150			
CA006204	Propane conversion kit.....	210			
CA006205	Propane conversion kit.....	285			
CA006206	Natural conversion kit.....	80-210			
<b>ELECTRICAL / CONTROL COMPONENTS</b>					
RE2319900	Duplex water temp sensor (outlet).....	80-285			
RE2320600	Water temperature sensor (inlet).....	80-285			
CA005600	System water sensor.....	80-285			
CA005500	DHW sensor.....	80-285			

\*Revision shown in the 10th character of the boiler's model number  
Contact Laars for revision 1 models

# NeoTherm (Cont.)

Part No.	Description	Size
R30D3001	Right side panel.....	285
R30D3002	Left side panel.....	210-285
30D3312	Left top panel.....	285
30D3311	Middle left top panel.....	285
30D3313	Middle right top panel.....	285
R30D3303	Left top panel.....	285
R30D3302	Top middle panel.....	285
R30D3301	Right top panel rev 1.....	285
30D3314	Right top panel rev 2 & 3.....	285
R30D3102	Jacket angle support (left only for 80-105).....	210-285
R50D3003	Jacket support left stanchion.....	80-285
R50D3004	Jacket support right stanchion.....	80-285
R50D3101	Rear panel.....	80-285
R60D3200	Front panel assembly, revision 2*.....	80-285
R60D3203	Front panel assembly, revision 3*.....	80-285
R50D3200	Front panel assembly, revision 1*.....	285
R50D3204	Front panel handle.....	80-285
R50D7120	Front bezel (EMEA display).....	80-210
R8D3102	Jacket angle support, right.....	80-105
R15D1002	Cantilevered base stanchion.....	80-150
R40D1001	Cantilevered base stanchion.....	210-285
R15D1100	Base assembly.....	80-150
R30D1100	Base assembly.....	210-285
R15D1004	Mounting rail.....	80-150
R30D1004	Mounting rail.....	210-285
R50D1001	Left rear support stanchion.....	80-285
R50D1002	Left frt / right rear support stanchion.....	80-285
R50D1005	Rear stanchion brace.....	285
85D1005	Front/rear stanchion brace.....	285
R50D1006	Heat exchanger rail clip.....	80-285

## NEUTRALIZER MEDIA

A2123605	Neutralizer media, 2.5 lb.....	all
A2123606	Neutralizer media, 40 lb.....	all
Q2016900	Neutralizer media, sold by lb.....	all

Part No.	Description	Size
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\*Revision shown in the 10th character of the boiler's model number  
Contact Laars for revision 1 models

# FT Series Wall Hung

## Models MFTCW and MFTHW - Revision 2

Part No.	Description	Model	Size	Part No.	Description	Model	Size
<b>GAS / AIR COMPONENTS</b>				<b>ELECTRICAL / CONTROL COMPONENTS</b>			
FT2015	Burner.....	CW & HW	100-140	FT2123	Gas pipe, upper assembly.....	CW	140
FT1838	Burner.....	CW & HW	199	FT1893	Gas inlet adaptor.....	CW	ALL
FT2014	Burner ass'y.....	CW & HW	100-140	FT1538	Gas valve inlet adaptor.....	CW	140
FT2038	Burner ass'y.....	CW & HW	199	FT1538	Gas valve inlet adaptor.....	HW	ALL
FT1824	Burner gasket.....	CW & HW	199	FT1919	Gas valve outlet adaptor.....	CW & HW	ALL
FT1927	Burner gasket.....	CW & HW	100-140	FT1539	Gas valve bracket.....	CW	140
FT1928	Burner downside case.....	CW	140	FT1779	Gas valve bracket.....	CW	199
FT2041	Burner downside case.....	CW & HW	199	FT1921	Safety valve rubber pad.....	CW	ALL
FT1760	Burner upper case.....	CW & HW	199	FT1665	Refractory.....	CW	140
FT1406	Fan.....	CW & HW	ALL	FT1665	Refractory.....	HW	ALL
FT2053	Fan assembly.....	HW	100	FT1730	Bird screen 3".....	CW & HW	ALL
FT2021	Fan assembly.....	CW & HW	140	ST1070	Condensate hose.....	CW & HW	ALL
FT1916	Fan assembly.....	CW & HW	199	FT1783	Condensate trap assembly.....	CW & HW	ALL
FT2018	Fan guide.....	CW & HW	100-140	FT1918	Nylon barb Y fitting.....	HW	ALL
FT2043	Fan guide.....	CW & HW	199	FT1603	Stainless band (100).....	HW	ALL
FT2101	Fan guide assembly.....	HW	100-140	FT1777	Stainless band (089).....	CW	199
FT2121	Fan guide assembly.....	CW	140	<b>ELECTRICAL / CONTROL COMPONENTS</b>			
ST1038	Fan sealing o-ring.....	CW & HW	ALL	R2080611	Control.....	HW	ALL
FT2020	Fan rubber gasket.....	CW & HW	ALL	R2080610	Control.....	CW	ALL
FT1082	Fan outlet gasket.....	CW & HW	100-140	FT1049	Control bracket.....	HW	100-140
FT1772	Fan guide o-ring.....	CW & HW	199	FT1922	Control bracket.....	CW	140
FT1775	Air/gas mixer body.....	CW & HW	100&199	FT2004	Control sub-bracket.....	CW	140
FT2022	Air/gas mixer venturi.....	CW & HW	140	FT2033	Control sub-bracket.....	CW & HW	199
FT1917	Air/gas mixer venturi.....	CW & HW	199	FT2005	Display control.....	CW	ALL
FT1774	Air/gas mixer O-ring.....	CW & HW	100&199	FT2050	Display control.....	HW	ALL
FT1929	Air Intake hose.....	CW & HW	140	FT2004	Display panel bracket.....	HW	100-140
FT1846	Air Intake hose.....	HW	199	ST1006	Ignition transformer.....	CW	140
FT1812	Air Intake hose.....	CW	199	ST1006	Ignition transformer.....	HW	100-140
FT2102	Air intake hose assembly.....	HW	140	FT2031	Ignition transformer.....	CW & HW	199
FT2122	Air intake hose assembly.....	CW	140	FT2032	Ignition transformer bracket.....	CW & HW	199
FT1548	Air vent adaptor.....	HW	ALL	FT2016	Ignition rod.....	CW & HW	100-140
FT2002	Intake duct assembly.....	CW & HW	ALL	FT2128	Ignition rod assembly.....	HW	199
FT2019	Damper body assembly.....	CW & HW	100-140	FT2017	Ignitor ceramic paper.....	CW & HW	ALL
FT2044	Damper body assembly.....	CW & HW	199	FT1316	Ignitor gasket.....	CW & HW	ALL
FT1771	Intake / exhaust sealing pad.....	CW & HW	ALL	FT1327	Flame detector sensor.....	CW & HW	ALL
FT2094	Exhaust pipe.....	CW & HW	100-140	FT2096	Flame detector sensor assy.....	HW	100-140
FT2000	Exhaust vent duct assembly.....	CW & HW	ALL	FT2129	Flame detector sensor assy.....	HW	199
FT1784	Exhaust pipe adaptor.....	CW & HW	ALL	FT2120	Flame detector sensor assy.....	CW	140
FT2012	Exhaust pipe packing (lower).....	CW & HW	100-140	FT2085	Flame detector sensor assy.....	CW	199
FT2036	Exhaust pipe packing (lower).....	CW & HW	199	FT1669	Flame detector sensor bracket.....	CW & HW	ALL
FT1416	Gas valve.....	CW & HW	ALL	FT1069	Flame detector sensor cover.....	CW & HW	ALL
FT1413	Gas valve assembly.....	CW & HW	100-140	FT1020	Power switch.....	CW & HW	ALL
FT1950	Gas valve assembly.....	CW & HW	199	FT1324	Temperature sensor.....	CW & HW	ALL
FT1415	Gas valve o-ring.....	CW & HW	ALL	FT1635	CH return sensor.....	HW	ALL
FT1539	Gas valve bracket.....	HW	100-140	FT1219	CH return sensor.....	CW	ALL
FT1779	Gas valve bracket.....	HW	199	FT1112	Outlet sensor.....	CW	ALL
FT1893	Gas inlet adaptor.....	HW	100-140	FT1501	Outdoor sensor.....	CW & HW	ALL
FT1780	Gas orifice, natural.....	CW & HW	199	FT1804	Air pressure sensor.....	CW & HW	ALL
FT1802	Gas orifice, propane.....	CW & HW	199	FT1022	Condensate pressure sw.....	CW & HW	ALL
FT2064	Gas conversion kit.....	HW	100-140	FT1307	Exhaust overheat sensor.....	CW & HW	ALL
FT2068	Gas conversion kit.....	HW	199	FT1606	Exhaust testing cap.....	CW & HW	ALL
FT2091	Gas conversion kit.....	CW & HW	ALL	FT1325	Low level sensor.....	CW & HW	ALL
FT1086	Gas pipe, down.....	HW	100-140	FT1310	Overheat sensor.....	CW & HW	ALL
FT1419	Gas pipe, down.....	CW	140	FT1115	Flow sensor.....	CW	ALL
FT1811	Gas pipe, down.....	CW	199	FT2115	Flow sensor assembly.....	CW	140
FT2104	Gas pipe, down assembly.....	HW	100-140	FT1208	Flow sensor clip.....	CW	ALL
FT2124	Gas pipe, down assembly.....	CW	140	FT1827	Terminal block (6P).....	CW & HW	ALL
FT2029	Gas pipe, upper.....	CW	140	FT1618	Terminal block (12P).....	HW	ALL
FT1810	Gas pipe, upper.....	CW	199	FT1905	Wire Harness.....	HW	100-140
FT2103	Gas pipe, upper assembly.....	HW	140	FT1906	Wire Harness.....	HW	199

# FT Series Wall Hung (Cont.)

Part No.	Description	Model	Size	Part No.	Description	Model	Size
FT1903	Wire Harness.....	CW	140	FT1200	DHW hydro block assembly.....	CW	140
FT1904	Wire Harness.....	CW	199	FT1938	DHW hydro block assembly.....	CW	199
FT1861	Cable, communication, cascade.....	CW & HW	ALL	FT1522	DHW inlet block.....	CW	140
FT1868	Sensor, system, cascade.....	CW & HW	ALL	FT2116	DHW inlet block assembly.....	CW	140
<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>				FT1114	DHW inlet pipe.....	CW	140
FT2067	Heat exchanger assembly.....	HW	199	FT1806	DHW inlet pipe.....	CW	199
FT2013	Heat exchanger assembly.....	CW	140	FT2113	DHW inlet pipe assembly.....	CW	140
FT2037	Heat exchanger assembly.....	CW	199	FT1518	DHW outer block.....	CW	ALL
FT2099	Pump assembly.....	HW	100-140	FT2112	DHW outer block assembly.....	CW	140
FT2132	Pump assembly.....	HW	199	FT1109	DHW outlet pipe.....	CW	140
FT2110	Pump assembly.....	CW	140	FT1805	DHW outlet pipe.....	CW	199
FT2073	Pump assembly.....	CW	199	FT2111	DHW outlet pipe assembly.....	CW	140
FT1672	Pump.....	HW	100-140	FT1220	3-way valve.....	CW	ALL
FT1767	Pump.....	HW	199	FT2108	3-way valve assembly.....	CW	140
FT1222	Pump.....	CW	140	FT2071	3-way valve assembly.....	CW	199
FT1798	Pump.....	CW	199	FT1116	Mixing valve.....	CW	ALL
FT1108	Pump clip.....	CW	ALL	FT2114	Mixing valve assembly.....	CW	140
FT1058	Pressure gauge.....	HW	ALL	FT1111	DHW nipple.....	CW	ALL
FT1025	Pressure gauge.....	CW	ALL	FT1122	DHW connector.....	CW	ALL
FT2010	Pressure gauge bracket.....	CW & HW	100-140	FT1549	DHW filter body.....	CW	ALL
FT2065	Pressure gauge bracket.....	CW & HW	199	FT1121	DHW filter cap.....	CW	ALL
FT1500	Pressure relief valve.....	CW & HW	ALL	FT1120	DHW filter mesh.....	CW	ALL
FT1100	CH Hydro block Ass'y.....	CW	140	FT1321	Air vent.....	CW & HW	ALL
FT1937	CH hydro block assembly.....	CW	199	FT1528	Stainless band (150).....	CW	140
FT1218	CH return pipe.....	CW	140	FT1813	Stainless band (165).....	CW	199
FT1807	CH Return pipe.....	CW	199	FT1107	Piping clip.....	CW	ALL
FT1523	Return block.....	CW	ALL	FT1524	R-clip.....	CW	ALL
FT2106	Return block assembly.....	CW	140	<b>JACKET &amp; MISC. COMPONENTS</b>			
FT2069	Return block assembly.....	CW	199	FT2066	Jacket assembly.....	HW	199
FT2107	Return pipe assembly.....	CW	140	FT2008	Front cover.....	CW & HW	100-140
FT2070	Return pipe assembly.....	CW	199	FT2034	Front cover.....	CW & HW	199
FT1071	CH return pipe-1.....	HW	100	FT2009	Display panel cover.....	CW & HW	ALL
FT1071	CH return pipe-1.....	HW	140-199	FT1936	Wall bracket (bottom).....	CW & HW	199
FT2100	CH return pipe-1 assembly.....	HW	100	FT1924	Wall bracket (top).....	CW & HW	199
FT2100	CH return pipe-1 assembly.....	HW	140	FT1894	Wall hung bracket.....	CW & HW	ALL
FT2133	CH return pipe-1 assembly.....	HW	199	FT1530	DHW tank bracket.....	CW	140
FT1072	CH return pipe-2.....	HW	100-140	FT1793	DHW tank bracket.....	CW	199
FT1768	CH return pipe-2.....	HW	199	FT1939	Air vent rubber pad.....	HW	ALL
FT2098	CH return pipe-2 assembly.....	HW	100	FT1013	Air vent rubber packing.....	CW	ALL
FT2098	CH return pipe-2 assembly.....	HW	140	FT1795	Bracket.....	CW	199
FT2131	CH return pipe-2 assembly.....	HW	199	FT1797	Gasket bracket.....	CW	ALL
FT1853	CH supply pipe.....	HW	100	FT2006	Bracket.....	HW	100-140
FT1070	CH supply pipe.....	HW	140	FT1217	U-Clip.....	CW	ALL
FT1765	CH supply pipe.....	HW	199	FT1604	Packing.....	CW & HW	ALL
FT1527	CH supply pipe.....	CW	140	FT1691	1" Packing.....	CW & HW	ALL
FT1808	CH supply pipe.....	CW	199	FT1645	1/2" Packing.....	CW & HW	ALL
FT2097	CH supply pipe assembly.....	HW	140	FT1710	1/2" Spiral packing.....	CW & HW	ALL
FT2130	CH supply pipe assembly.....	HW	199	FT1646	3/4" packing.....	CW & HW	ALL
FT2109	CH supply pipe assembly.....	CW	140	FT1060	3/8" Packing.....	HW	ALL
FT2072	CH supply pipe assembly.....	CW	199	FT1604	Packing.....	CW & HW	ALL
FT1322	CH supply upper pipe.....	CW	140	FT1601	O-Ring P7.....	CW & HW	ALL
FT1809	CH supply upper pipe.....	CW	199	FT1685	O-Ring P15.....	CW	ALL
FT2119	CH supply upper pipe assembly.....	CW	140	FT1643	O-Ring P16.....	CW	ALL
FT2084	CH supply upper pipe assembly.....	CW	199	FT1687	O-Ring P18.....	CW	ALL
FT1215	CH return, supply connector.....	CW	ALL	FT1513	O-Ring P20.....	CW	ALL
FT1216	CH filter.....	CW	ALL	FT1644	O-Ring P22.....	CW & HW	ALL
FT2117	DHW filter body assembly.....	CW	140	FT1515	O-Ring P22A.....	CW	ALL
FT1119	Flow restrictor.....	CW	140	FT1516	O-Ring P25.....	CW	ALL
FT1506	Flow restrictor (5L).....	CW	140	FT1609	O-Ring P75.....	CW & HW	ALL
FT1822	Flow restrictor.....	CW	199	A2123605	Neutralizer media, 2.5 lb.....	CW & HW	ALL
FT1323	DHW tank.....	CW	140	A2123606	Neutralizer media, 40 lb.....	CW & HW	ALL
FT1794	DHW tank.....	CW	199	Q2016900	Neutralizer media, sold by the lb....	CW & HW	ALL

# FT Series Floor-Standing

## Models LFTCF and LFTHF

Part No.	Description	Model	Part No.	Description	Model
FT3121	Spare Parts Kit.....	CF	FT3089	M5*10 Flange bolt + M/S.....	both
FT3165	Spare Parts Kit.....	HF	FT3062	3/8" Packing.....	CF
<b>GAS / AIR COMPONENTS</b>			FT3092	M4*9 PH+P/W+TAP (Type2).....	both
FT1838	Burner.....	both	FT3096	M3 X 6 Wrench bolt M/S.....	both
FT3094	Burner Assembly.....	both	FT3097	4*14 Flange bolt + m/s.....	both
FT1824	Burner Gasket.....	both	FT3102	M5*16 TH+ M/S.....	CF
FT2041	Burner Downside Case .....	both	FT3107	Stainless Band 1 (Ø90).....	both
FT1760	Burner Upper Case.....	both	FT3115	M5*12 Flange bolt + m/s.....	CF
FT3104	Fan.....	both	FT3116	M5*14 Flange bolt + m/s.....	CF
FT3128	Fan Assembly.....	both	<b>ELECTRICAL / CONTROL COMPONENTS</b>		
ST1038	Fan Sealing O-ring.....	both	R2080606	Control.....	CF
FT2043	Fan Guide.....	both	R2080607	Control.....	HF
FT2087	Fan Guide Assembly.....	both	R2080609	Control with Holiday Switch.....	CF
FT1772	Fan Guide Packing.....	both	FT3033	PCB Control Bracket.....	both
FT2020	Fan Rubber Packing #2.....	both	FT3022	Display Control.....	CF
FT1416	Gas Valve.....	both	FT3129	Display Control.....	HF
FT3108	Gas Valve Assembly.....	both	FT3021	Control Sub Bracket.....	CF
FT3109	Gas Valve Bracket.....	both	FT3137	Control Sub Bracket.....	HF
FT1415	Gas Valve O-ring.....	both	FT3024	Transformer (24V).....	both
FT1919	Gas Valve Outlet Adaptor.....	both	FT3023	Transformer Bracket.....	both
FT2044	Damper Body Assembly.....	both	FT2031	Ignition Transformer.....	both
FT1917	Air/gas Mixer Venturi.....	both	FT3019	Ignition Transformer Bracket.....	both
FT1775	Air/gas Mixer Body.....	both	FT3127	Ignition Rod Ass'y.....	both
FT1774	Air/gas Mixer O-ring.....	both	FT2085	Flame Detector Sensor Ass'y.....	both
FT3106	Air Intake Hose.....	both	FT1327	Flame Detector Sensor.....	both
FT3105	Air Intake Hose Assembly.....	both	FT1669	Flame Detector Sensor Bracket.....	both
FT3167	Gas Valve Inlet Adaptor.....	CF	FT1069	Flame Detector Sensor Cover.....	both
FT1538	Gas Valve Inlet Adaptor.....	HF	FT1020	Power Switch.....	both
FT3110	Gas Inlet Adaptor.....	both	FT1804	Air Pressure Sensor.....	both
FT3111	Gas Inlet Pipe 1 Ass'y.....	both	FT3020	Air Pressure Sensor Bracket.....	CF
FT3112	Gas Inlet Pipe 1.....	both	FT3136	Air Pressure Sensor Bracket.....	HF
FT3113	Gas Inlet Pipe 2 Ass'y.....	both	FT1324	Overheat Sensor.....	both
FT3114	Gas Inlet Pipe 2.....	both	FT1310	Overheat Sensor.....	both
FT1780	Gas orifice, natural.....	both	FT1635	CH Return Sensor.....	both
FT1802	Gas orifice, propane.....	both	FT1638	DHW Outlet Sensor.....	CF
FT3123	Conversion Kit.....	both	FT1868	DHW Sensor.....	both
FT3095	Refractory.....	both	FT1501	Outdoor Temperature Sensor.....	both
FT3090	Exhaust Duct Ass'y.....	both	FT1208	Sensor Clip.....	CF
FT3091	Exhaust Duct.....	both	FT1022	Condensate Pressure Switch.....	both
FT2036	Exhaust Duct Packing (Lower).....	both	FT3076	Flow Sensor Ass'y.....	CF
FT3099	Condensate trap assembly.....	both	FT1115	Flow Sensor.....	CF
FT3098	Condensate Trap Sub Ass'y.....	both	FT1307	Exhaust Overheat Sensor.....	both
FT3100	Condensate Trap Bracket 1.....	CF	FT1325	Low Level Sensor.....	both
FT3160	Condensate Trap Bracket 1.....	HF	FT1827	Terminal Block (6P).....	CF
FT3027	Condensate Trap Bracket 2.....	CF	FT2007	Terminal Block (8P).....	both
FT3139	Condensate Trap Bracket 2.....	HF	FT3026	Terminal Block (10P).....	CF
FT3101	Condensate Trap Cap.....	both	FT3163	Terminal Block (12P).....	HF
ST1070	Condensate Hose.....	both	FT3028	Concentric Plug (110V).....	both
FT1730	Bird Screen (Vent & Air Cap).....	both	FT3029	Concentric Plug Bracket (110V).....	both
FT1710	1/2" Spiral packing.....	both	FT3124	Wire Harness.....	CF
FT1076	M4*12 PH M/S.....	both	FT3166	Wire Harness.....	HF
FT1520	M4*8 TH M/S.....	both	<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
FT1777	Stainless Band 2 (Ø89).....	both	FT3093	Heat Exchanger Assembly.....	both
FT1813	Stainless Band 2 (Ø165).....	HF	FT3049	Boiler Pump Assembly.....	both
FT1645	1/2" Packing.....	CF	FT3050	Boiler Pump.....	both
FT1918	Nylon Barb Y Fitting.....	both	FT3051	Pump Bottom Pipe Ass'y.....	CF
FT3014	M4*14 Flange bolt (Type2).....	both	FT3143	Pump Bottom Pipe Ass'y.....	HF
FT3043	M4*14 TH (Type2).....	CF			





# Mascot FT

## Models MFTCW and MFTHW - Revision 1

Part No.	Description	Model	Size	Part No.	Description	Model	Size
<b>GAS / AIR COMPONENTS</b>				<b>ELECTRICAL / CONTROL COMPONENTS</b>			
FT1314	Burner.....	CW & HW	80-140	FT1329	Condensate hose trap.....	CW & HW	ALL
FT1838	Burner.....	CW & HW	199	FT1073	Condensate trap assembly.....	CW & HW	80-140
FT2014	Burner ass'y.....	CW & HW	80-140	FT1783	Condensate trap assembly.....	CW & HW	199
FT1796	Burner ass'y.....	CW	199	<b>ELECTRICAL / CONTROL COMPONENTS</b>			
FT1759	Burner ass'y.....	HW	199	R2080602	Control.....	HW	ALL
FT1824	Burner gasket.....	CW & HW	199	R2080601	Control SN F1800308 & before.....	CW	140
FT1764	Burner downside case .....	CW & HW	199	R2080605	Control SN F1800309 & after.....	CW	140
FT1661	Burner case sealing O-ring.....	HW	120-140	R2080604	Control.....	CW	199
FT1406	Fan.....	CW & HW	ALL	FT1050	Control sub-bracket.....	HW	80-140
FT1862	Fan assembly.....	HW	80	FT1620	Display panel.....	CW	ALL
FT1863	Fan assembly.....	HW	100	FT1053	Display panel.....	HW	ALL
FT1864	Fan assembly.....	HW	120	ST1006	Ignition transformer.....	CW & HW	ALL
FT1407	Fan assembly.....	CW & HW	140	FT1315	Ignitor.....	CW & HW	80-140
FT1916	Fan assembly.....	CW & HW	199	FT1763	Ignitor.....	CW & HW	199
ST1038	Fan sealing o-ring.....	CW & HW	ALL	FT1316	Ignitor gasket.....	CW & HW	ALL
FT1721	Fan outlet gasket.....	CW	140	FT1327	Flame detector sensor.....	CW & HW	ALL
FT1082	Fan outlet gasket.....	CW & HW	199	FT1669	Flame detector sensor bracket.....	CW & HW	ALL
FT1772	Fan guide o-ring.....	CW & HW	199	FT1069	Flame detector sensor cover.....	CW & HW	ALL
FT1416	Gas valve.....	CW & HW	ALL	FT1020	Power switch.....	CW & HW	ALL
FT1413	Gas valve assembly.....	CW & HW	80-140	FT1324	Temperature sensor.....	CW & HW	ALL
FT1950	Gas valve assembly.....	CW	199	FT1635	CH return sensor.....	HW	ALL
FT1409	Gas mixer housing.....	CW & HW	80-140	FT1219	CH return sensor.....	CW	ALL
FT1773	Air/gas mixer venturi.....	CW & HW	199	FT1112	Outlet sensor.....	CW	ALL
FT1775	Air/gas mixer body.....	CW & HW	199	FT1501	Outdoor sensor.....	CW & HW	ALL
FT1774	Air/gas mixer O-ring.....	CW & HW	199	FT1804	Air pressure sensor.....	CW & HW	ALL
FT1865	Air Intake orifice.....	HW	80	(MFTCW140 after s/n F1800309)			
FT1866	Air Intake orifice.....	HW	100	FT1015	Air pressure sensor.....	CW	140
FT1867	Air Intake orifice.....	HW	120	(s/n F1500364 & before)			
FT1535	Air Intake orifice.....	CW & HW	140	FT1022	Condensate pressure sw.....	CW & HW	ALL
FT1821	Air Intake orifice.....	CW & HW	199	FT1307	Exhaust overheat sensor.....	CW & HW	ALL
FT1854	Gas orifice, natural.....	HW	80	FT1529	Exhaust sensor bracket.....	CW & HW	ALL
FT1855	Gas orifice, natural.....	HW	100	FT1325	Low level sensor.....	CW & HW	ALL
FT1856	Gas orifice, natural.....	HW	120	FT1310	Overheat sensor.....	CW & HW	ALL
FT1412N	Gas orifice, natural.....	CW & HW	140	FT1115	Flow sensor.....	CW	ALL
FT1780	Gas orifice, natural.....	CW & HW	199	FT1208	Flow sensor clip.....	CW	ALL
FT1946	Gas orifice, propane.....	HW	80	FT1021	Terminal block (10P).....	CW	140
FT1947	Gas orifice, propane.....	HW	100	FT1618	Terminal block (12P).....	HW	ALL
FT1948	Gas orifice, propane.....	HW	120	FT1827	Terminal block (6P).....	HW	ALL
FT1412P	Gas orifice, propane.....	CW & HW	140	FT1905	Wire Harness.....	HW	80-140
FT1802	Gas orifice, propane.....	CW & HW	199	FT1906	Wire Harness.....	HW	199
FT1010	Intake duct assembly.....	CW & HW	80-140	FT1903	Wire Harness.....	CW	140
FT1812	Air intake hose.....	CW	199	FT1904	Wire Harness.....	CW	199
FT1846	Air intake hose.....	HW	199	FT1861	Cable, communication, cascade.....	CW & HW	ALL
FT1067	Exhaust pipe.....	CW & HW	80-140	FT1868	Sensor, system, cascade.....	CW & HW	ALL
FT1823	Exhaust pipe.....	CW & HW	199	<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>			
FT1002	Exhaust vent duct assembly.....	CW & HW	ALL	FT1852	Heat exchanger assembly.....	HW	80-100
FT1784	Exhaust pipe adaptor.....	CW & HW	ALL	FT1068	Heat exchanger assembly.....	HW	120-140
FT1836	Exhaust pipe packing (lower).....	CW & HW	199	FT1758	Heat exchanger assembly.....	HW	199
FT1915	Damper body.....	CW & HW	ALL	FT1313	Heat exchanger assembly.....	CW	140
FT1770	Damper packing.....	CW & HW	199	FT1992	Heat exchanger assembly.....	CW	199
FT1419	Gas pipe, down.....	CW	140	FT1672	Pump.....	HW	80-140
FT1860	Gas pipe, upper.....	HW	80-100	FT1767	Pump.....	HW	199
FT1538	Gas valve inlet adaptor.....	CW & HW	ALL	FT1222	Pump.....	CW	140
FT1415	Gas valve o-ring.....	CW & HW	ALL	FT1798	Pump.....	CW	199
FT1919	Gas valve outlet adaptor.....	CW & HW	ALL	FT1108	Pump clip.....	CW	ALL
FT1710	Gasket, gas pipe.....	CW & HW	ALL	FT1025	Pressure gauge.....	CW	ALL
FT1665	Refractory.....	CW & HW	80-140	FT1058	Pressure gauge.....	HW	ALL
FT1826	Refractory.....	CW & HW	199	FT1500	Pressure relief valve.....	CW & HW	ALL
FT1730	Bird screen 3".....	CW	140	FT1323	DHW tank.....	CW	140
ST1070	Condensate hose.....	CW & HW	ALL	FT1794	DHW tank.....	CW	199
				FT1122	DHW connector.....	CW	ALL

## Mascot FT Models MFTCW and MFTHW (Cont.)

Part No.	Description	Model	Size	Part No.	Description	Model	Size
FT1549	DHW filter body.....	CW	ALL	FT1876	Front cover.....	CW	140
FT1121	DHW filter cap.....	CW	ALL	FT1054	Front cover.....	HW	80-140
FT1120	DHW filter mesh.....	CW	ALL	FT1949	Front cover.....	HW	199
FT1200	DHW hydro block assembly.....	CW	140	FT1057	Wall bracket (bottom).....	CW & HW	199
FT1114	DHW inlet pipe.....	CW	140	FT1055	Wall bracket (top).....	CW & HW	199
FT1111	DHW nipple.....	CW	ALL	FT1894	Wall hung bracket.....	CW & HW	ALL
FT1518	DHW outer block.....	CW	ALL	FT1217	U-Clip.....	CW	ALL
FT1109	DHW outlet pipe.....	CW	140	FT1051	Bracket.....	HW	80-140
FT1523	Return block.....	CW	ALL	FT1720	Mesh.....	CW & HW	80-140
FT1100	CH Hydro block Ass'y.....	CW	140	FT2030	Spare gaskets kit.....	CW	ALL
FT1853	CH outlet pipe.....	HW	80-100	FT1604	Packing.....	CW & HW	ALL
FT1218	CH return pipe.....	CW	140	FT1691	1" Packing.....	CW & HW	ALL
FT1072	CH return pipe-2.....	HW	80-140	FT1645	1/2" Packing.....	CW & HW	ALL
FT1215	CH return, supply connector.....	CW	ALL	FT1710	1/2" Spiral packing.....	CW & HW	ALL
FT1322	CH supply upper pipe.....	CW	140	FT1646	3/4" packing.....	CW & HW	ALL
FT1809	CH supply upper pipe.....	CW	199	FT1060	3/8" Packing.....	HW	ALL
FT1216	CH filter.....	CW	ALL	FT1685	O-Ring P15.....	CW	ALL
FT1220	3-way valve.....	CW	ALL	FT1643	O-Ring P16.....	CW	ALL
FT1116	Mixing valve.....	CW	ALL	FT1687	O-Ring P18.....	CW	ALL
FT1107	Piping clip.....	CW	ALL	FT1513	O-Ring P20.....	CW	ALL
FT1119	Flow restrictor.....	CW	140	FT1644	O-Ring P22.....	CW & HW	ALL
FT1506	Flow restrictor (5L).....	CW	140	FT1515	O-Ring P22A.....	CW	ALL
FT1822	Flow restrictor.....	CW	199	FT1516	O-Ring P25.....	CW	ALL
FT1321	Air vent.....	CW & HW	ALL	FT1601	O-Ring P7.....	CW & HW	ALL
R2077501	Field service kit - Wall mounted.....	CW & HW	ALL	A2123605	Neutralizer media, 2.5 lb.....	CW & HW	ALL
<b>JACKET &amp; MISC. COMPONENTS</b>				A2123606	Neutralizer media, 40 lb.....	CW & HW	ALL
ST1004	Display cover / window.....	CW & HW	ALL	Q2016900	Neutralizer media, sold by the lb.....	CW & HW	ALL
FT1923	Front cover.....	CW	ALL				

## Mascot ST Model MSTWW199

Part No.	Description	Model	Size	Part No.	Description	Model	Size
<b>GAS / AIR COMPONENTS</b>				<b>ELECTRICAL COMPONENTS</b>			
ST1061	Gas Valve			R2080608	Control board (PCB)		
ST1060	Gas valve assembly			ST1016	Display panel		
FT1919	Gas Valve Adapter (pipe to valve)			ST1004	Display panel cover		
ST1062	Gas valve plug			ST1045	Ignition rod		
ST1042	Burner Assembly			ST1044	Ignition rod gasket		
ST1048	Metal fiber assembly (burner)			FT1327	Sensor, flame detector		
ST1036	Blower assembly			ST1006	Ignition transformer		
ST1037	Blower			ST1019	Power switch		
ST1038	Blower o-ring			ST1011	Water outlet sensor		
ST1039	AGM (actuator)			ST1023	Water inlet sensor		
ST1001	Exhaust connector assembly			ST1008	Overheat sensor (150C)		
ST1030	Exhaust pipe assembly (up)			ST1047	Overheat sensor (burner)		
ST1031	Exhaust temperature sensor			ST1051	Heat exchanger temp sensor (OP)		
ST1032	Exhaust gasket packing 1			ST1052	Overheat sensor (heat exchanger)		
ST1033	Exh pipe ass'y w/ cond collect pan			ST1056	Ceramic heater		
ST1034	Exhaust gasket packing 2			ST1014	Air pressure switch		
ST1028	Air intake connector assembly			FT1861	Cable, communication, cascade		
ST1012	Condensate trap assembly			<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>			
ST1079	Internal condensate hose			ST1029	Heat exchanger assembly		
ST1070	Condensate hose			ST1076	Secondary heat exchanger		
ST1040	Silencer elbow			ST1021	Water inlet valve assembly		
ST1041	Silencer body			ST1024	Water inlet filter		
ST1073	Bird screen, 2 Inch			ST1020	Flow control valve		
<b>MISC. COMPONENTS</b>				ST1050	Mixing valve		
ST1069	Spare gaskets kit			ST1077	Heat exchanger / burner gasket		
R2077503	Field service kit						

# Mascot LX

## Models MLXCW & MLXHW

Part No.	Description	Size	Part No.	Description	Size
<b>GAS / AIR COMPONENTS</b>			<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
A2122400	Blower.....	50-75	05P2100	Heat exchanger.....	50
A2122500	Blower.....	100-125	07P2100	Heat exchanger.....	75
RA2114200	Blower.....	150-220	10P2100	Heat exchanger.....	100
12P2065	Blower mounting plate.....	50-220	12P2100	Heat exchanger.....	125
S2105400	Gasket, blower outlet.....	50-220	15P2100	Heat exchanger.....	150
S2124500	O-ring, blower inlet.....	50-220	17P2100	Heat exchanger.....	175
S2127900	Gasket, blower mounting plate.....	50-220	22P2100	Heat exchanger.....	220
S2127300	Gasket, blower mounting plate.....	50-220	A2117700	Pump .....	50-125
RL2018401	Burner.....	50-75	A2122600	Pump .....	150-220
RL2018402	Burner.....	100	A2122004	3-way valve & actuator.....	125-175
RL2018403	Burner.....	125-175	P2093100	Coupling, SS, 1/2" NPT, for DHW sensor.....	125-175
R2069104	Burner.....	220	A2117600	Gauge, pressure & temperature.....	50-220
V2022700	Valve, gas.....	50-220	P2074500	Air vent.....	50-220
S2125000	O-ring, gas valve to gas pipe.....	50-220	F2027600	Washer, sealing, 1.19" OD x .79"ID.....	125-175
W2014200	Ignitor, spark.....	50-220	S2115100	O-ring, 20.04mm ID x 27.10mm OD.....	125-175
RW2013300	Gasket, ignitor.....	50-220	P2074600	Switch, low water pressure.....	50-220
W2014300	Sensor, flame.....	50-220	<b>JACKET / BASE COMPONENTS</b>		
E2348100	Switch, low air pressure.....	50-220	12P3006	Panel, top.....	50-220
A2117500	Condensate trap.....	50-125	12P7015	Panel, middle.....	50-125
P2067603	Pipe, PVC, 3/4" sch 40 x 6" long.....	50-125	12P3004	Panel, bottom.....	150-220
S2116300	O-ring, 1" ID x 1-3/16" OD.....	50-125	12P3005	Panel, bottom.....	50-220
12H5500	Adapter, vent, CPVC.....	50-220	S2114000	Grommet	
12H5501	Gasket, vent adapter.....	50-220	<b>NEUTRALIZER MEDIA</b>		
500-168	Plug, hex, 1/8" NPT.....	50-220	A2123605	Neutralizer media, 2.5 lb.....	all
<b>ELECTRICAL / CONTROL COMPONENTS</b>			A2123606	Neutralizer media, 40 lb.....	all
RE23569001	Control board.....	50-220	Q2016900	Neutralizer media, sold by lb.....	all
	Firmware / date codes 4555296_00, R01A_140918 to R01A_141218 and R02A_150210				
RE23569002	Control board.....	50-220			
	Firmware / date code R02A_150729				
RE23569003	Control board.....	50-220			
	Firmware / date code R02A_150909 & later				
E2356800	Display.....	50-220			
E2357500	Sensor, water outlet.....	50-220			
E2357000	Sensor, water inlet.....	50-220			
RE2337501	Sensor, DHW temperature.....	125			
RE2337502	Sensor, DHW temperature.....	150-175			
R2076500	Sensor, flow, DHW, to replace old sensor.....	125-175			
	with new sensor, wire harness & coupling				
RE2362400	Sensor, flow, DHW, to replace just the.....	125-175			
	current sensor				
E2357200	Sensor, flue, duplex.....	50-220			
E2357300	Grommet, flue sensor.....	50-220			
E2357700	Cover, display, push button.....	50-220			
R0021300	Transformer, 40VA, 115/24V.....	50-220			
E2335100	Circuit breaker, 2A.....	50-220			
E2318900	Circuit breaker, 10A.....	50-220			
E2335000	Switch, rocker, 120V, amber.....	50-220			
05P7400	Wire harness, complete.....	50-100			
12P7400	Wire harness, complete.....	125-150			
17P7400	Wire harness, complete.....	175-220			
R2072900	LWCO with harness, optional.....	50-220			
E2338600	Cube relay.....	50-220			

# Mascot II

## Models LMC & LMH

Part No.	Description	Part No.	Description
<b>GAS / AIR COMPONENTS</b>			
R2069102	Burner with gasket and screws	12H4008	Pipe, 3-way valve to DHW
RS2108500	Burner gasket	12H4012	Bracket, control valve
R2069200	Flame sensor with gasket	12H4019	Bracket, 3-way valve
RW2013400	Flame sensor gasket	12H4022	Bracket, capture, hex
R2069300	Ignitor with gasket	R2071601	Pipe, tail piece, before Jan 10, 2010
RW2013300	Ignitor gasket	R2071602	Pipe, tail piece, Jan 10, 2010 or after
RS2112801	Burner door with gaskets	P2074500	Air vent, auto, 1/4"
R2069400	Burner door gasket	F2025502	Washer, sealing, 0.93 OD x 0.62 ID
R2075501	Gas valve kit with propane orifice	F2027500	Washer, sealing, 0.59 OD x 0.32 ID poly
RA2107500	Blower, combustion air	F2027700	Washer, sealing, 0.410 OD
S2105400	Blower gasket	S2115100	O-ring, 20.04mm ID x 27.10mm OD
R50D2021	Tile, refractory, rear	S2116000	O-ring, 2-1/8" ID x 3/32" thick
RT2109001	Tile, refractory, front	12H3023	Washer, clamping, hx bracket
RS2108400	Air/gas channel	12H4001	Pipe, hx outlet to DHW
RS2109400	Screw, air/gas channel	12H4004	Pipe, pump to hx inlet
12H4011	Pipe, gas / sensor tube	12H4006	Pipe, expansion tank
12H5002	Plate, venturi SIT	12H4010	Pipe, air vent
12H5500	Adapter, vent, CPVC	F2027000	Screw, #8-18 x 1/2", phil pan hd
12H5501	Gasket, vent adapter	F2025300	Screw, M5-0.8 x 14mm, soc hd
A2117500	Condensate trap	F2029300	Screw, M5 x 8, soc hd cap
R2075500	Conversion kit, natural to propane	S2112700	Screw, M4 X 10 soc hd cap
		F2023700	Washer M5, lock internal tooth
		F2029000	Cotter pin
		S2114800	Bumper, rubber
		S2114000	Grommet, pipe, wire, multi size, rubber
		P2067603	Pipe, PVC, 3/4" sch 41
		500-168	Plug, hex 1/8" NPT
		10-596	Tee, 1" barb, plastic
		12H2500	Hose, drain, condensate
<b>ELECTRICAL / CONTROL COMPONENTS</b>		<b>JACKET/BASE COMPONENTS</b>	
R12H7060	Control, programmed - LMC	12H3001	Jacket assembly
R12H7061	Control, programmed - LMH	12H3011	Base, jacket
RE2310500	Sensor, outdoor air temperature	12H3003	Panel, front middle with control, LMH
RE2319700	Sensor, stack temperature	12H3004	Panel, front bottom with control, LMC
RE2319900	Sensor, water temperature, duplex, outlet	12H3005	Panel, front top, plastic and metal together
RE2320600	Sensor, water temperature, inlet	12H3007	Hinge, front panel, bottom
RE2333500	Display module, LMH	12H3008	Hinge, front panel, middle
RE2333501	Display module, LMC	12H3015	Panel, front top
RE2337501	Sensor, domestic water	12H3017	Support, middle panel
R0021300	Transformer, 40VA, 115V/24V	12H3018	Panel, right side
12H7005	Wire (spark ignitor cable)	12H3019	Panel, left side
12H7008	Wire, flame sensor	12H3025	Panel, front bottom with control, LMH
R12H7009	Connector assembly, gas valve	12H3033	Panel, front middle with control, LMC
12H7010	Wire harness, main, LMH	12H7001	Panel, top upper, plastic
E2318900	Circuit breaker, 10A, 120V	12H7002	Panel, front middle, plastic
E2334500	Plug, 3-prong with cord	12H7003	Panel, front bottom, plastic
E2334501	Harness, wire, power switch/ circuit breaker	12H7004	Bracket, mounting, control
E2334502	Harness, wire, display/+24V circuit breaker	F2028200	Washer, retaining, .50 OD, nylon
E2335000	Switch, rocker, 120V, amber	F2028300	Latch, magnet, .56 dia.
E2335100	Circuit breaker, 2A, 120V	R2073903	Gasket, strip, foam 3/8"x1/8", 3 feet
E2336500	Air pressure switch, 2.80" w.c., blocked vent	R2073904	Gasket, strip, foam 3/8"x1/8", 4 feet
E2343200	Wire harness, main, LMC	R2073909	Gasket, strip, foam 3/8"x1/8", 9 feet
E2338600	Cube relay	R2073914	Gasket, strip, foam 3/8"x1/8", 14 feet
E2334900	Switch, pressure, air/gas, inlet, fan proving	R2073915	Gasket, strip, foam 3/8"x1/8", 15 feet
		R2073970	Gasket, strip, foam 3/8"x1/8", 70 feet
		10-103	Screw, hex head, 1/4-20 unc. x .75"
		12H3010	Bracket, hx, right side
		12H3016	Bracket, hx, left side
		12H3009	Bracket, transformer
		12H3012	Bracket, wall attachment
		F2001900	Screw, 8-32unc x 1.5"
		F2015900	Rivet, pop, 3/16 dia.
		F2027000	Screw, #8-18 x 1/2" phil pan hd
<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>			
S2113800	Heat exchanger		
S2115900	Heat exchanger, plate, DHW		
S2116300	O-ring, 1" DI x 1-3/16" OD		
A2117600	Gauge, pressure & temp, remote		
A2117400	Expansion tank		
12H3006	Gasket, expansion tank		
12H3020	Bracket, expansion tank		
R2072400	Flow switch		
E2337400	Flow switch		
R1-581	Flow restrictor		
P2074600	Water pressure switch		
A2117700	Pump, UPS15-58RU		
RA2117803	Actuator, 4-wire		

# Endurance

\*Old Units with Blue Jackets & New Units with Grey Jackets

Part No.	Description	Style*	Size	Part No.	Description	Style*	Size
<b>GAS / AIR COMPONENTS</b>				<b>JACKET / BASE COMPONENTS</b>			
2400-548	Gas valve, (Honeywell).....	both	all	1-579	Flow restrictor, 5 gpm, EBP.....	both	175
R30-227	Gas valve flange gasket.....	both	all	1-580	Flow restrictor, 4 gpm, EBP.....	both	110
2400-560	Gas shutoff valve.....	both	all	2400-522	Boiler drain.....	both	EBP
31-325	Manifold gas inlet.....	both	175	2400-530	Air vent (coin vent).....	both	all
40-325	Manifold gas inlet.....	both	110	2400-566	Gaskets, pump flange.....	both	all
2400-142	Adjustable combustion air inlet.....	both	all	R2028200	Water flow switch with tubing, EBP.....	both	all
2400-145	Gas orifice kit (4 options, nat/LP, 110/175).....	both	all	R2072400	Water flow switch, EBP.....	new	EBP
2400-146	Gas orifice kit hi alt. (4 opt nat/LP 110/175).....	both	all	2400-506	Insulation, coil cover.....	both	all
2400-516	Burner with gaskets.....	both	110	2400-508	Insulation, boiler coil.....	both	all
2400-518	Burner with gaskets.....	both	175	<b>JACKET / BASE COMPONENTS</b>			
2400-514	Burner gasket.....	both	all	2400-049	Control box cover with labels, white.....	old	all
2400-524	Blower with gaskets.....	both	all	2400-450	Control box cover with labels, black.....	new	all
2400-540	Gasket, blower.....	both	all	30-677	Collar, vent stack.....	new	all
30-188	O-ring, blower.....	both	all	40-250	Jacket surround.....	old	EDP
2400-526	Ignitor with gasket.....	both	all	40-301	Jacket surround.....	new	EDP/N
2400-528	Gasket, ignitor / flame sensor.....	both	all	30-251	Panel, access.....	old	EDP
30-205	Cork gasket, air inlet.....	old	EBP	30-253	Panel, access.....	new	EDP/N
A2108100	Plastic blower cover.....	both	all	36-640	Panel, back.....	both	EBP
2400-510	Comb. chamber / coil assembly, EBP.....	both	110	40-302	Panel, base.....	new	EDP/N
2400-512	Comb. chamber / coil assembly, EBP.....	both	175	36-643	Panel, door.....	both	EBP
2400-593	Comb. chamber / coil assembly, EDP/EDN.....	both	110	40-304	Panel, front.....	new	EDP/N
2400-594	Comb. chamber / coil assembly, EDP/EDN.....	both	175	36-641	Panel, left side.....	both	EBP
<b>ELECTRICAL / CONTROL COMPONENTS</b>				36-642	Panel, right side.....	both	EBP
36-288	Standoff clips for control board.....	old	all	30-678	Panel, top.....	new	EBP
2400-441	Ignition control.....	new	all	40-678	Panel, top.....	new	EDP/N
2400-442	PWM board.....	new	all	40-014	Pump base assembly.....	both	EDP
2400-546	Control Board, EBP.....	old	EBP	40-303	Base rail.....	new	EDP/N
R2080802	Control Replacement, EBP.....	new	110	36-010	Bottom.....	both	EBP
R2080803	Control Replacement, EBP.....	new	175	40-010	Bottom.....	old	EDP
R0560701	Valve rectifier (on-off switch).....	both	all	36-028	Bottom insulation.....	old	EBP
2400-550	Safety limit, 230°F.....	both	all	S2006600	Gasket, closed cell, sold by the foot.....	both	all
2400-443	Wire harness, EBP.....	new	all	2400-152	Field Service Kit.....	new	EDP
2400-444	Wire harness, EDP/EDN.....	new	all	2400-153	Field Service Kit.....	new	EBP
30-310	Wire harness, EBP.....	old	all	2400-590	Gasket Kit.....	both	all
40-310	Wire harness, EDP/EDN.....	old	all	2400-370	3" vertical vent cap		
2400-445	Sensor, tank & supply (white).....	new	all	2400-407	3" 90° elbow		
2400-446	Sensor, return (white).....	new	all	2400-408	3" 45° elbow		
2400-552	Sensor, boiler flow tank, EBP (F4) supply.....	old	all	2400-409	3" condensate tee		
2400-556	Sensor, boiler return (F6) above pump.....	old	all	2400-410	3" x 12" straight		
2400-448	Transformer.....	new	all	2400-411	3" x 24" straight		
2400-562	Transformer.....	old	all	2400-412	3" x 48" straight		
2400-568	Reset switch.....	both	all	2400-413	3" x 6" to 19" straight, telescoping		
30-616	Fuse, line voltage (on boiler control).....	old	all	2400-415	3" room air adapter with screen		
2400-451	Valve, anti condensing.....	new	all	2400-426	3" terminal with screen		
2400-538	Valve, anti condensing, EBP.....	old	all	2400-435	3" / 5" boiler adapter with fresh air tee		
2400-141	Cartridge, anti condensing valve.....	old	all	2400-277	5" side wall terminal, concentric		
2400-539	Motor, anti condensing, valve, EBP.....	old	all	2400-280	5" galvanized wall flange, concentric		
E0000700	5-Amp fuse.....	both	all	2400-281	Rubber wall flange (wall or cone flashing)		
R2006100	Relay, EDP/EDN.....	new	all	2400-416	3" / 5" rain cap, concentric		
<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>				2400-418	3" / 5" 90° elbow, concentric		
2400-570	Heat exch, flat plate, with gasket DHW.....	both	EBP	2400-419	3" / 5" 45° elbow, concentric		
2400-572	Gaskets, DHW heat exchanger.....	both	EBP	2400-420	3" / 5" boiler adapter, concentric		
2400-520	Transfer tank.....	old	EBP	2400-421	3" / 5" condensate trap, concentric		
2400-586	Transfer tank (before s/n E07192692.....	new	EBP	2400-422	3" / 5" vertical termination, concentric		
2400-650	Transfer tank (s/n E07192692 & after).....	new	EBP	2400-423	3" / 5" x 12" straight, concentric		
2400-386	Pump, EBP / EDP.....	both	175	2400-424	3" / 5" x 12.5" to 19" telescoping, conc		
2400-592	Pump, EBP / EDP.....	both	110	2400-425	3" / 5" x 36" straight, concentric		
2400-388	Pump, EDN.....	both	all	2400-428	3" / 5" vent terminal extension, conc		
2400-029	Thermostat & o-ring for union.....	both	all	2400-433	3" / 5" x 24" straight, concentric		
2400-574	Pressure gauge.....	both	all	2400-437	5" support clamp		
2400-112	Pressure relief valve.....	both	all	2400-438	Cone flashing, 6/12 to 12/12 roof pitch		
				2400-452	3" side wall terminal, concentric		

# Pennant & Mighty Therm2 200-400

Sizes 200,000 - 400,000 BTU/h

Part No.	Description	Size	Part No.	Description	Size
<b>GAS / AIR COMPONENTS</b>			<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
V0079400	Gas valve, natural.....	all	E2327700	Terminal block, 6-position, rev 2**.....	MT2
V0079500	Gas valve, propane.....	all	E0101800	Terminal block, 12 position.....	PNC
RE0254000	Blower.....	all	E2039500	Terminal block, 2 position.....	PNC
S2104400	Gasket, blower.....	all	E0102000	Jumper, terminal block.....	MT2
S2104500	Gasket, blower duct.....	all	2C7005	Cover, transformer.....	all
2C5000	Assembly, air shutter, blower.....	all	2F7001	Control panel tray, rev 2**.....	MT2
L0063300	Burner, main.....	all	2F7002	Control panel tray, rev 1**.....	MT2
S2104300	Gasket, burner.....	all	2C7002	Panel, control.....	PNC 200
RW2002300	Ignitor, hot surface, with gasket.....	all	3C7002	Panel, control.....	PNC 300
10-332	Gasket, ignitor.....	all	4C7002	Panel, control.....	PNC 400
L0062900	Orifice, natural.....	all	R2006100	Relay module.....	PNC
L0063000	Orifice, propane.....	all	2C7003	Panel, LED.....	PNC
F2022400	Spacer, gas orifice.....	all	E2105600	Panel, indicator light board.....	PNC
L0063402	Manifold, gas, 2-port, 2-stage, right bank.....	200	E2324000	Wiring harness.....	PNC
L0063403	Manifold, gas, 3-port, 2-stage, right bank.....	300	F0034000	Screw, 8-32 x 1-1/4".....	PNC
L0063404	Manifold, gas, 2-port, 2-stage, left bank.....	200	F0035900	Screw, 6-32 x 5/8".....	PNC
L0063405	Manifold, gas, 4-port, 2-stage, right bank.....	400	<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
L0063413	Manifold, gas, 3-port, 2-stage, left bank.....	300	R2C4100	Tube assembly, copper, with gaskets.....	200
L0063414	Manifold, gas, 2-stage left bank.....	400	R2C4120	Tube assembly, cupro-nickel with gaskets.....	200
L0063414	Manifold, gas, on-off.....	200	R3C4100	Tube assembly, copper, with gaskets.....	300
L0063416	Manifold, gas, 6-port, on/off.....	300	R3C4120	Tube assembly, cupro-nickel with gaskets.....	300
L0063418	Manifold, gas, 8-port, on/off.....	400	R4C4100	Tube assembly, copper, with gaskets.....	400
L0063702	Weldment, gas manifold, main.....	200	R4C4120	Tube assembly, cupro-nickel with gaskets.....	400
L0063703	Weldment, gas manifold, main.....	300	R2F4205	Complete heat exch, copper, H-stamp.....	MT2 200
L0063704	Weldment, gas manifold, main.....	400	R3F4205	Complete heat exch, copper, H-stamp.....	MT2 300
R2073200	Media, filter.....	all	R4F4205	Complete heat exch, copper, H-stamp.....	MT2 400
F2022300	Clip, retaining, filter media.....	all	R2F4205W	Complete heat exch, copper, HLW-stamp.....	MT2V 200
S2104600	Gasket, flue housing.....	all	R3F4205W	Complete heat exch, copper, HLW-stamp.....	MT2V 300
RD0091205	Hose, duct, flexible, 4" dia.....	200	R4F4205W	Complete heat exch, copper, HLW-stamp.....	MT2V 400
RD0091206	Hose, duct, flexible, 4" dia.....	300	R2F4405	Complete heat exch, cu-nickel, H-stamp.....	MT2 200
RD0091207	Hose, duct, flexible, 4" dia.....	400	R3F4405	Complete heat exch, cu-nickel, H-stamp.....	MT2 300
2C2017	Plate, spacer, burner/manifold.....	200	R4F4405	Complete heat exch, cu-nickel, H-stamp.....	MT2 400
3C2017	Plate, spacer, burner/manifold.....	300	R2F4405W	Complete heat exch, cu-nickel, HLW-stamp.....	MT2V 200
4C2017	Plate, spacer, burner/manifold.....	400	R3F4405W	Complete heat exch, cu-nickel, HLW-stamp.....	MT2V 300
<b>ELECTRICAL / CONTROL COMPONENTS</b>			R4F4405W	Complete heat exch, cu-nickel, HLW-stamp.....	MT2V 400
**Character 13 of the Mighty Therm 2 model number shows the revision.			R2C4000	Complete heat exchanger, copper.....	PNC 200
RE2344300	Controller, rev 2**.....	MT2H 200	R3C4000	Complete heat exchanger, copper.....	PNC 300
RE2344301	Controller, rev 2**.....	MT2H 300-400	R4C4000	Complete heat exchanger, copper.....	PNC 400
RE2344301	Controller, rev 2**.....	MT2V	R2C4300	Complete heat exchanger, cu-nickel.....	PNC 200
E0253100	Temperature control.....	PNCV	R3C4300	Complete heat exchanger, cu-nickel.....	PNC 300
E0253900	Thermistor probe.....	PNC	R4C4300	Complete heat exchanger, cu-nickel.....	PNC 400
E2348700	Controller harness, rev 2**.....	MT2	2C4103	Casting, return header.....	all
RE0014400	Controller, on-off, rev 1**.....	MT2	2F4122	Casting, inlet/outlet.....	all
RE0093200	Controller, 2-stage, rev 1**.....	MT2	R0050801	Heat exchanger gasket set, 20-piece kit.....	all
E2304800	High limit.....	all H	S0070800	HX gasket (qty 1-use R0050801 for qty 20)....	all
E2324200	High limit.....	all V	2C4001	Chamber, header, hx.....	all
2C7004	Bracket, mounting, hi-limit & pressure sw.....	all	2C4002	Baffle, end.....	all
E2103200	Temp switch, manual reset, 250°F.....	MT2 200	A0063300	PRV, 75 psi.....	MT2H
E0253400	Ignition control.....	all	RA0001200	PRV, 125 psi.....	MT2V
E0180500	Transformer.....	all	RA0079000	T & P gauge.....	all
RE2322700	Rocker switch.....	MT2	RE0013000	Flow switch, outdoor.....	all
R2015000	Toggle switch.....	MT2	RE2076500	Low water cutoff (opt.).....	all
R2007700	Toggle switch.....	all	E0234201	Immersion well, high limit.....	all
E2327800	Relay, DPDT.....	all	RE2058300	Immersion well, 3/8" bulb.....	MT2
RE2077700	Relay, time delay, pump, rev 1**.....	all	A0095705	Pump, normal water, Taco.....	all V
RE0240900	Switch, pressure, SPDT.....	MT2	RA2112201	Pump w/ flanges, normal water, Taco.....	all V
R2076600	Switch, pressure, SPDT.....	MT2	A0095605	Pump, soft water, Taco.....	all V
E2327500	Terminal block, 16-position, rev 1**.....	MT2	RA2112213	Pump w/ flanges, soft water, Taco.....	all V
			A2120300	Pump, normal water, Grundfos.....	MT2V

# Pennant & Mighty Therm 2 (200-400) (Cont.)

Part No.	Description	Size	Part No.	Description	Size
RA2112235	Pump w/ flanges, normal water, Grundfos.....	MT2V	<b>JACKET / BASE COMPONENTS</b>		
A0076701	Pump, Taco.....	H 200	2C1000	Base assembly.....	200
RA2112209	Pump w/ flanges, Taco.....	H 200	3C1000	Base assembly.....	300
A0076805	Pump, Taco.....	H 300-400	4C1000	Base assembly.....	400
RA2112217	Pump w/ flanges, Taco.....	H 300-400	2F3000	Jacket assembly, non-pump-mounted.....	MT2 200
A2120300	Pump, Grundfos.....	MT2H	3F3000	Jacket assembly, non-pump-mounted.....	MT2 300
RA2112236	Pump w/ flanges, Grundfos.....	MT2H	4F3000	Jacket assembly, non-pump-mounted.....	MT2 400
S0077700	Pump flange set, cast iron.....	all	2F3020	Jacket assembly, pump-mounted.....	MT2 200
A2112300	Pump flange set, non-ferrous.....	all	3F3020	Jacket assembly, pump-mounted.....	MT2 300
S0076500	Gasket, flange.....	all	4F3020	Jacket assembly, pump-mounted.....	MT2 400
S0076400	Flange, iron.....	all H	2C3800	Assembly, filter housing.....	all
S0076401	Flange, bronze.....	all V	2C3010	Panel, filter access, jacket.....	all
F0002100	Nut, hex, 1/4-20.....	PNC	2C3623	Panel, filter side, upper, jacket.....	all
F0029300	Screw, #2 x 3/16".....	PNC	2C2018	Cover, gas inlet, air box.....	all
F0040800	Nut, hex, 3/8".....	PNC	2C3620	Panel, hx side access, jacket.....	all
F0046100	Bolt, dome, 3/8-16x2-1/2".....	PNC	2C2015	Panel, left side, air box.....	all
F0051400	Screw, hex, 3/8-16 x 1.75".....	PNC	2C3420	Panel, left side, jacket.....	all
F2011600	Screw, pan, 1/4-20 x .75".....	PNC	2C3622	Panel, lower access, jacket.....	all
F2025000	Washer, 3/8".....	PNC	2C3520	Panel, right side, jacket.....	all
P0019100	Nipple, iron, 1-1/2" x close.....	PNC	2C3621	Panel, right side, upper, jacket.....	all
P0026800	Plug, 1/4" brass.....	PNC	10338600	Plate, cover, sight glass.....	all
P0026900	Plug, 1/2" brass.....	PNC	2C2500	Weldment, duct, blower.....	all
P0054900	Nipple, brass, 3/4" x close.....	PNC	2C2300	Weldment, flue.....	all
P2019500	Tee, iron, 1 1/2" x 1 1/2" x 1".....	PNC	R2C3320	Panel, front, jacket.....	200
P2022100	Nipple, brass, 1 1/2" x close.....	PNC	R3C3320	Panel, front, jacket.....	300
P2023801	Tee, bronze, 1 1/2" x 1 1/2" x 1".....	PNC	R4C3320	Panel, front, jacket.....	400
<b>COMBUSTION CHAMBER COMPONENTS</b>			2F3019	Panel, jacket, control access.....	MT2 200
R10956000	Assembly, sight glass.....	all	3F3019	Panel, jacket, control access.....	MT2 300
T2108802	Chamber.....	200	4F3019	Panel, jacket, control access.....	MT2 400
T2108803	Chamber.....	300	2C3220	Panel, rear, jacket.....	200
T2108804	Chamber.....	400	3C3220	Panel, rear, jacket.....	300
T2015808	Insulation, combustion chamber, kit.....	200	4C3220	Panel, rear, jacket.....	400
T2015809	Insulation, combustion chamber, kit.....	300	2C3021	Panel, top, jacket.....	200
T2015810	Insulation, combustion chamber, kit.....	400	3C3021	Panel, top, jacket.....	300
2C2001	Panel, top, combustion chamber.....	200	4C3021	Panel, top, jacket.....	400
3C2001	Panel, top, combustion chamber.....	300	2C3015	Side panel, pump cover, jacket.....	200
4C2001	Panel rear, combustion chamber.....	400	2C3014	Side panel, pump cover, jacket.....	300-400
2C2023	Assembly, front panel, comb chamber.....	200	2C3016	Cover, pump.....	all
3C2023	Assembly, front panel, comb chamber.....	300	2C3700	Weldment, cover, air inlet.....	200-300
4C2023	Assembly, front panel, comb chamber.....	400	4C3700	Weldment, cover, air inlet.....	400
2C2601	Chamber, left side, bottom.....	all	3C3702	Panel, cover, exhaust.....	300
2C2201	Chamber, right side, bottom.....	all	2C2100	Assembly, exhaust vent, vertical.....	200
2C2002	Chamber, side, top.....	all	3C2100	Assembly, exhaust vent, vertical.....	300
2C2006	Panel rear, combustion chamber.....	200	4C2100	Assembly, exhaust vent, vertical.....	400
3C2006	Panel rear, combustion chamber.....	300			
4C2006	Panel rear, combustion chamber.....	400			
2C2009	Panel, front, air box.....	200			
3C2009	Panel, front, air box.....	300			
4C2009	Panel, front, air box.....	400			
2C2016	Panel, right side, air box.....	all			
2C2019	Support, tile notch.....	200			
3C2019	Support, tile notch.....	300			
4C2019	Support, tile notch.....	400			
2C2008	Panel, top, air box.....	200			
3C2008	Panel, top, air box.....	300			
4C2008	Panel, top, air box.....	400			



# Mini-Therm JX

## Sizes 50,000 - 200,000 BTU/h

Part No.	Description	Size	Part No.	Description	Size
<b>GAS / AIR COMPONENTS</b>			<b>COMBUSTION CHAMBER COMPONENTS</b>		
RV2030700	Gas valve, natural.....	all	5X207201	Diverter assembly.....	125-200
V2015100	Gas valve regulator spring, LP.....	all	S2138700	O-ring, pump.....	all
L0032200	Gas orifice, Nat, 0-2000 ft.....	all	S2137800	Seal, flange.....	all
L0050700	Gas orifice, Nat, 2001-5000 ft.....	all	<b>COMBUSTION CHAMBER COMPONENTS</b>		
L0032600	Gas orifice, Nat, 5001-8000 ft.....	all	5X3030	Draft diverter assembly.....	50
L0050300	Gas orifice, Nat, 8001-10,000 ft.....	all	7X3030	Draft diverter assembly.....	75
L0039000	Gas orifice, Propane, 0-2000 ft.....	all	10X3030	Draft diverter assembly.....	100
L0032900	Gas orifice, Propane, 0-5000 ft.....	all	12X3030	Draft diverter assembly.....	125
L0032800	Gas orifice, Propane, 5001-8000 ft.....	all	15X3030	Draft diverter assembly.....	150
L0032700	Gas orifice, Propane, 8001-10,000 ft.....	all	20X3030	Draft diverter assembly.....	200
L0052500	Burner, main.....	all	5X3019	Flue collector.....	50
L0056500	Burner with pilot bracket assembly.....	all	7X3019	Flue collector.....	75
5X6001	Gas manifold.....	50	10X3019	Flue collector.....	100
7X6001	Gas manifold.....	75	12X3019	Flue collector.....	125
10X6001	Gas manifold.....	100	15X3019	Flue collector.....	150
12X6001	Gas manifold.....	125	20X3019	Flue collector.....	200
15X6001	Gas manifold.....	150	5X5004	Burner bank cover assembly.....	50
20X6001	Gas manifold.....	200	7X5004	Burner bank cover assembly.....	75
R0061600	Pilot assembly, natural.....	all	10X5004	Burner bank cover assembly.....	100
W2001700	Pilot assembly, LP.....	all	12X5004	Burner bank cover assembly.....	125
W2016400	Pilot orifice, natural.....	all	15X5004	Burner bank cover assembly.....	150
W2002200	Pilot orifice, LP.....	all	20X5004	Burner bank cover assembly.....	200
L0055900	Air shutter, burner.....	all	5X2020	Front and rear baffle and tile cover (2).....	50
5X5002	Pilot tube.....	all	7X2020	Front and rear baffle and tile cover (2).....	75
<b>ELECTRICAL / CONTROL COMPONENTS</b>			10X2020	Front and rear baffle and tile cover (2).....	100
E2401400	Controller	all	12X2020	Front and rear baffle and tile cover (2).....	125
E2407000	High tension lead.....	all	15X2020	Front and rear baffle and tile cover (2).....	150
E2407200	Limit sensor.....	all	20X2020	Front and rear baffle and tile cover (2).....	200
R0021300	Transformer, 40VA, 115/24V.....	all	5X2012	Baffle, heat exchanger (7).....	50
R2061100	Blocked vent safety switch.....	all	7X2012	Baffle, heat exchanger (7).....	75
E2103200	Rollout switch.....	all	10X2012	Baffle, heat exchanger (7).....	100
RE2071501	Vent damper, 4".....	50	12X2012	Baffle, heat exchanger (7).....	125
RE2071502	Vent damper, 5".....	75-100	15X2012	Baffle, heat exchanger (7).....	150
RE2071503	Vent damper, 6".....	125-150	20X2012	Baffle, heat exchanger (7).....	200
RE2071504	Vent damper, 7".....	200	R5X2013	Tile set (incl front & rear tiles, & clamp).....	50
E2335100	Circuit breaker, 2 AMP, panel mount.....	all	R7X2013	Tile set (incl front & rear tiles, & clamp).....	75
E2402100	Terminal block finger guard.....	all	R10X2013	Tile set (incl front & rear tiles, & clamp).....	100
E2403400	Low voltage harness (TB1 and damper).....	all	R12X2013	Tile set (incl front & rear tiles, & clamp).....	125
E2402600	High voltage harness.....	all	R15X2013	Tile set (incl front & rear tiles, & clamp).....	150
E2402700	X1 connector harness (safety chain).....	all	R20X2013	Tile set (incl front & rear tiles, & clamp).....	200
E2402800	LLH pump harness.....	125-200	<b>JACKET / BASE COMPONENTS</b>		
20071500	Pump kit harness.....	50-100	5X1000	Base assembly.....	50
<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>			7X1000	Base assembly.....	75
5X2000	Heat exchanger.....	50	10X1000	Base assembly.....	100
7X2000	Heat exchanger.....	75	12X1000	Base assembly.....	125
10X2000	Heat exchanger.....	100	15X1000	Base assembly.....	150
12X2000	Heat exchanger.....	125	20X1000	Base assembly.....	200
15X2000	Heat exchanger.....	150	R5X3045	Front cover.....	50
20X2000	Heat exchanger.....	200	R7X3045	Front cover.....	75
A2136500	Circulator.....	all	R10X3045	Front cover.....	100
A2117600	Gauge, temp/pressure & pressure.....	all	R12X3045	Front cover.....	125
1-054	Pressure relief valve, 30psi.....	all	R15X3045	Front cover.....	150
E2402900	Well, immersion, 1/2 NPT.....	all	R20X3045	Front cover.....	200
227-48070-01	Drain.....	all	5X3038	Panel, front inner.....	50
P2142900	Adapter 1/4" NPT x BSPP.....	all	7X3038	Panel, front inner.....	75
P2143000	Spacer/washer for gauge adapter.....	all	10X3038	Panel, front inner.....	100
5X207202	Diverter assembly.....	50-100	12X3038	Panel, front inner.....	125
			15X3038	Panel, front inner.....	150

# Mini-Therm JX (Cont.)

Part No.	Description	Size	Part No.	Description	Size
20X3038	Panel, front inner.....	200	<b>CONVERSION KITS</b>		
5X3037	Panel, rear.....	50	CA019901	Natural to LP 0-2000 feet.....	50
7X3037	Panel, rear.....	75	CA019902	Natural to LP 2001-5000 feet.....	50
10X3037	Panel, rear.....	100	CA019903	Natural to LP 5001-8000 feet.....	50
12X3037	Panel, rear.....	125	CA019904	Natural to LP 8001-10000 feet.....	50
15X3037	Panel, rear.....	150	CA019905	Natural to LP 0-2000 feet.....	75
20X3037	Panel, rear.....	200	CA019906	Natural to LP 2001-5000 feet.....	75
R5X3032	Panel, top, front.....	50	CA019907	Natural to LP 5001-8000 feet.....	75
R7X3032	Panel, top, front.....	75	CA019908	Natural to LP 8001-10000 feet.....	75
R10X3032	Panel, top, front.....	100	CA019909	Natural to LP 0-2000 feet.....	100
R12X3032	Panel, top, front.....	125	CA019910	Natural to LP 2001-5000 feet.....	100
R15X3032	Panel, top, front.....	150	CA019911	Natural to LP 5001-8000 feet.....	100
R20X3032	Panel, top, front.....	200	CA019912	Natural to LP 8001-10000 feet.....	100
5X3031	Panel, top, rear.....	50	CA019913	Natural to LP 0-2000 feet.....	125
7X3031	Panel, top, rear.....	75	CA019914	Natural to LP 2001-5000 feet.....	125
10X3031	Panel, top, rear.....	100	CA019915	Natural to LP 5001-8000 feet.....	125
12X3031	Panel, top, rear.....	125	CA019916	Natural to LP 8001-10000 feet.....	125
15X3031	Panel, top, rear.....	150	CA019917	Natural to LP 0-2000 feet.....	150
R5X3043	Panel, left side.....	all	CA019918	Natural to LP 2001-5000 feet.....	150
R5X3044	Panel, rght side.....	all	CA019919	Natural to LP 5001-8000 feet.....	150
R2086800	Latch, Slot, Quarter Turn Assy.....	all	CA019920	Natural to LP 8001-10000 feet.....	150
<b>POWER VENTERS</b>			CA019921	Natural to LP 0-2000 feet.....	200
CA019501	Power venter kit.....	50-100	CA019922	Natural to LP 2001-5000 feet.....	200
CA019502	Power venter kit.....	125-200	CA019923	Natural to LP 5001-8000 feet.....	200
<b>OPTIONAL ACCESSORIES</b>			CA019924	Natural to LP 8001-10000 feet.....	200
CA005400	Outdoor air sensor kit.....	all	CA020001	LP to natural 0-2000 feet.....	50
CA019400	DHW pump control kit.....	all	CA020002	LP to natural 2001-5000 feet.....	50
E2327800	DHW relay.....	all	CA020003	LP to natural 5001-8000 feet.....	50
E2404200	DHW harness.....	all	CA020004	LP to natural 8001-10000 feet.....	50
CA019600	Low loss header assembly.....	50-100	CA020005	LP to natural 0-2000 feet.....	75
			CA020006	LP to natural 2001-5000 feet.....	75
			CA020007	LP to natural 5001-8000 feet.....	75
			CA020008	LP to natural 8001-10000 feet.....	75
			CA020009	LP to natural 0-2000 feet.....	100
			CA020010	LP to natural 2001-5000 feet.....	100
			CA020011	LP to natural 5001-8000 feet.....	100
			CA020012	LP to natural 8001-10000 feet.....	100
			CA020013	LP to natural 0-2000 feet.....	125
			CA020014	LP to natural 2001-5000 feet.....	125
			CA020015	LP to natural 5001-8000 feet.....	125
			CA020016	LP to natural 8001-10000 feet.....	125
			CA020017	LP to natural 0-2000 feet.....	150
			CA020018	LP to natural 2001-5000 feet.....	150
			CA020019	LP to natural 5001-8000 feet.....	150
			CA020020	LP to natural 8001-10000 feet.....	150
			CA020021	LP to natural 0-2000 feet.....	200
			CA020022	LP to natural 2001-5000 feet.....	200
			CA020023	LP to natural 5001-8000 feet.....	200
			CA020024	LP to natural 8001-10000 feet.....	200

# Mini-Therm JVS & JVT

Sizes 50,000 - 225,000 BTU/h

Part No.	Description	Size	Part No.	Description	Size
- MiniTherm I were built before 1990 ("mushroom top" venting). - MiniTherm II were built 1991 and later. - Units built September 2012 and after are "rev 2" boilers, and have DOE updated controls.			- Rev 2 boilers have model numbers with 12 characters ending in "U2." - Rev 1 boilers have model numbers with 10 characters. - Two-stage JVS models (revs 1 and 2) have "NK" or "PK" in the model number, and were built from 4-1-2004 to 1-24-14.		
<b>GAS / AIR COMPONENTS</b>			<b>ELECTRICAL / CONTROL COMPONENTS</b>		
R0059100	Gas valve, JVT, natural.....	all	R0061300	Control, temperature / limit.....	all
R0385000	Gas valve, JVT, propane.....	all	RE0093200	Control, JVS 2-stage, rev 1**.....	100-225
R0385100	Gas valve, JVS, natural.....	50-75	RE2344300	Control, temperature, JVS, rev 2**.....	all
R0407700	Gas valve, JVS, natural.....	100-225	RE2347600	Sensor, water temp, rev 2**.....	all
V0077500	Gas valve, JVS, propane.....	50-75	RE2347601	Sensor, water temp, with well, rev 2**.....	all
V0079100	Gas valve, JVS, propane.....	100-225	E2347400	Sensor, outdoor temp, rev 2**.....	all
L0032200	Gas orifice, Nat, 0-2000 ft.....	50-125	E2102800	Control, ignition, 100% lockout.....	all
L0032600	Gas orifice, Nat, 5001-8000 ft.....	50-125	10449514	High tension lead, JVS.....	50-125
L0032600	Gas orifice, Nat, 2001-5000 ft.....	160-225	10449515	High tension lead, JVS.....	160
L0032700	Gas orifice, Propane, 8001-10,000 ft.....	50-225	10449516	High tension lead, JVS.....	225
L0032800	Gas orifice, Propane, 5001-8000 ft.....	50-225	R2028003	Wire harness, JVT.....	all
L0032900	Gas orifice, Propane, 0-5000 ft.....	50-225	E2347700	Wire harness, JVS, rev 2**.....	all
L0050300	Gas orifice, Nat, 8001-10,000 ft.....	50-125	R2028001	Wire harness, JVS 1-stage, rev 1**.....	all
L0050300	Gas orifice, Nat, 5001-8000 ft.....	160-225	R2028002	Wire harness, JVS 2-stage, rev 1**.....	all
L0050400	Gas orifice, Nat, 2001-5000 ft.....	160-225	E0099100	Vent damper wire harness.....	50-100
L0050700	Gas orifice, Nat, 2001-5000 ft.....	50-125	E0099101	Vent damper wire harness.....	125-225
L0050700	Gas orifice, Nat, 0-2000 ft.....	160-225	E2103200	Roll-out safety switch.....	all
L0052500	Burner, main.....	all	R2061100	Blocked vent safety switch.....	all
L0052601	Gas manifold.....	50	R0021300	Transformer, 40VA, 115/24V.....	all
L0052602	Gas manifold.....	75	RE0084401	Fuse, 4A, 5-pack kit.....	all
L0052603	Gas manifold.....	100	20129300	Power venter jumper.....	all
L0052604	Gas manifold.....	125	E0088400	Relay, DPNO.....	all
L0052605	Gas manifold.....	160	E0098500	Terminal strip.....	all
L0052606	Gas manifold.....	225	RE2351400	Plug, black, TCM control, rev 2**.....	all
R10907700	JVT pilot/main burner assy, nat, std. alt.....	050-225	<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
R10907702	JVT pilot/main burner assy, nat, high alt.....	050-225	R0402001	Heat exchanger, rev 1**.....	50
R10907701	JVT pilot/main burner assy, LP, all alts.....	050-225	R0402002	Heat exchanger, rev 1**.....	75
10582204	JVS pilot/main burner assy, nat, std alt.....	050-100	R0402003	Heat exchanger, rev 1**.....	100
10582202	JVS pilot/main burner assy, nat, std alt.....	125-160	R0402004	Heat exchanger, rev 1**.....	125
10582200	JVS pilot/main burner assy, nat, std alt.....	225	R0402005	Heat exchanger, rev 1**.....	160
10582208	JVS pilot/main burner assy, nat, high alt.....	050-100	R0402006	Heat exchanger, rev 1**.....	225
10582207	JVS pilot/main burner assy, nat, high alt.....	125-160	A0066500	Taco pump, 1/25hP.....	all
10582206	JVS pilot/main burner assy, nat, high alt.....	225	RE2058300	Immersion well, nickel plated.....	all
10582205	JVS pilot/main burner assy, LP, all alts.....	050-100	E0025902	Immersion well, revs 1 & 2**.....	all
10582203	JVS pilot/main burner assy, LP, all alts.....	125-160	E2345700	Sensor well, rev 2**.....	all
10582201	JVS pilot/main burner assy, LP, all alts.....	225	E2327900	Clip for E0025902 well.....	all
W0040900	Pilot assembly, natural, std. altitude.....	JVT	P2015900	Adapter, brass T&P.....	all
W0040902	Pilot assembly, natural, high altitude.....	JVT	R0060600	Gauge, temp/pressure 70-250F, 0-90psi.....	all
W0040901	Pilot assembly, LP.....	JVT	R0061400	Pressure relief valve, 30psi.....	all
R0061600	Pilot assembly, natural.....	JVS	R10-143	Drain.....	all
W0039600	Pilot assembly, LP.....	JVS	<b>COMBUSTION CHAMBER COMPONENTS</b>		
W0036500	Thermocouple.....	JVT	10469501	Tile cover, MiniTherm II.....	50
Q0068400	Pilot gas tubing (sold per foot).....	all	10469502	Tile cover, MiniTherm II.....	75
R0409701	JVS rem. sense w/burner cover repl, hi alt.....	50	10469503	Tile cover, MiniTherm II.....	100
R0409702	JVS rem. sense w/burner cover repl, hi alt.....	75	10469504	Tile cover, MiniTherm II.....	125
R0409703	JVS rem. sense w/burner cover repl, hi alt.....	100	10469505	Tile cover, MiniTherm II.....	160
R0409704	JVS rem. sense w/burner cover repl, hi alt.....	125	10469506	Tile cover, MiniTherm II.....	225
R0409705	JVS rem. sense w/burner cover repl, hi alt.....	160	T0027200	Refractory blanket (sold by sq. ft.).....	all
R0409706	JVS rem. sense w/burner cover repl, hi alt.....	225	T0027300	Insulation (sold by sq. ft.).....	all
L0055900	Air shutter, propane.....	all	10472500	Weld manifold support, right, MiniTherm II.....	all
L0056500	Burner with pilot bracket assembly.....	all			
10562300	Anti-rotation bracket.....	all			

\*\*Rev 1 boilers have 10-digit model numbers  
 Rev 2 boilers have 12-digit model numbers that end in "U2"

# Mini-Therm Models JVS & JVT (Cont.)

Part No.	Description	Size	Part No.	Description	Size
10472600	Weld manifold support, left, MiniTherm II.....	all	11020205	Rear panel, MiniTherm II.....	160
10485301	Baffle.....	50	11020206	Rear panel, MiniTherm II.....	225
10485302	Baffle.....	75	10466701	Non-combustible base.....	50-75
10485303	Baffle.....	100	10466702	Non-combustible base.....	100-125
10485304	Baffle.....	125	10466703	Non-combustible base.....	160
10485305	Baffle.....	160	10466704	Non-combustible base.....	225
10485306	Baffle.....	225	10467101	Base assembly.....	50
20034901	Flue collector, MiniTherm II.....	50	10467102	Base assembly.....	75
20034902	Flue collector, MiniTherm II.....	75	10467103	Base assembly.....	100
20034903	Flue collector, MiniTherm II.....	100	10467104	Base assembly.....	125
20034904	Flue collector, MiniTherm II.....	125	10467105	Base assembly.....	160
20034905	Flue collector, MiniTherm II.....	160	10467106	Base assembly.....	225
20034906	Flue collector, MiniTherm II.....	225	<b>JACKET / BASE COMPONENTS</b>		
20069101	Burner cover.....	50-75	<b>"Square corner" Jacket components - before 2004</b>		
20069102	Burner cover.....	100-125	<i>Some parts are limited to stock on hand</i>		
20069105	Burner cover.....	160	10470101	Gas closure, left & right, MiniTherm I.....	50/100
20069106	Burner cover.....	225	10470102	Gas closure, left & right, MiniTherm I.....	75/125-225
T0021701	Rear tile.....	50	10470301	Flue collector, MiniTherm I.....	50
T0021702	Rear tile.....	75	10470302	Flue collector, MiniTherm I.....	75
T0021703	Rear tile.....	100	10470303	Flue collector, MiniTherm I.....	100
T0021704	Rear tile.....	125	10470304	Flue collector, MiniTherm I.....	125
T0021705	Rear tile.....	160	10470305	Flue collector, MiniTherm I.....	160
T0021706	Rear tile.....	225	10470306	Flue collector, MiniTherm I.....	225
T0022001	Front tile.....	50	10484606	Heat shield front panel.....	all
T0022002	Front tile.....	75	10535900	Access panel, heat exchanger.....	all
T0022003	Front tile.....	100	20034801	Draft diverter, square corner jacket.....	50
T0022004	Front tile.....	125	20034802	Draft diverter, square corner jacket.....	75
T0022605	Front tile.....	160	20034803	Draft diverter, square corner jacket.....	100
T0022606	Front tile.....	225	20034804	Draft diverter, square corner jacket.....	125
<b>JACKET / BASE COMPONENTS</b>			20034805	Draft diverter, square corner jacket.....	160
<b>"Round corner" Jacket components - 2004 and later</b>			20034806	Draft diverter, square corner jacket.....	225
10500601	Burner cover, MiniTherm II.....	50	20086800	Base, control box, MiniTherm II.....	50-75
10500602	Burner cover, MiniTherm II.....	75	20087100	Control box cover, MiniTherm II.....	all
10500603	Burner cover, MiniTherm II.....	100	20099801	Rear panel, sq corner jacket, MiniTherm II.....	50
10500604	Burner cover, MiniTherm II.....	125	20099802	Rear panel, sq corner jacket, MiniTherm II.....	75
10494105	Burner cover, MiniTherm II.....	160	20099803	Rear panel, sq corner jacket, MiniTherm II.....	100
10494106	Burner cover, MiniTherm II.....	225	20099804	Rear panel, sq corner jacket, MiniTherm II.....	125
11019401	Top panel, MiniTherm II.....	50	20099805	Rear panel, sq corner jacket, MiniTherm II.....	160
11019402	Top panel, MiniTherm II.....	75	20099806	Rear panel, sq corner jacket, MiniTherm II.....	225
11019403	Top panel, MiniTherm II.....	100	20052601	Draffhood, MiniTherm I (mushroom top).....	50
11019404	Top panel, MiniTherm II.....	125	20052602	Draffhood, MiniTherm I (mushroom top).....	75-100
11019405	Top panel, MiniTherm II.....	160	20052603	Draffhood, MiniTherm I (mushroom top).....	125-160
11019406	Top panel, MiniTherm II.....	225	20052604	Draffhood, MiniTherm I (mushroom top).....	225
11020101	Draft diverter, MiniTherm II.....	50	RE2071501	Vent damper, 4".....	50
11020102	Draft diverter, MiniTherm II.....	75	RE2071502	Vent damper, 5".....	75-100
11020103	Draft diverter, MiniTherm II.....	100	RE2071503	Vent damper, 6".....	125-160
11020104	Draft diverter, MiniTherm II.....	125	RE2071504	Vent damper, 7".....	225
11020105	Draft diverter, MiniTherm II.....	160	10466701	Non-combustible base.....	50-75
11020106	Draft diverter, MiniTherm II.....	225	10466702	Non-combustible base.....	100-125
RE2071501	Vent damper, 4".....	50	10466703	Non-combustible base.....	160
RE2071502	Vent damper, 5".....	75-100	10466704	Non-combustible base.....	225
RE2071503	Vent damper, 6".....	125-160	10467101	Base assembly.....	50
RE2071504	Vent damper, 7".....	225	10467102	Base assembly.....	75
11045801	Cover, control panel, MiniTherm II.....	50-75	10467103	Base assembly.....	100
11045802	Cover, control panel, MiniTherm II.....	100-225	10467104	Base assembly.....	125
11045901	Cover, control panel, rev 2**.....	all	10467105	Base assembly.....	160
11047603	Cover, top, piping, MiniTherm II.....	50/100	10467106	Base assembly.....	225
11047604	Cover, top, piping, MiniTherm II.....	75/125/160	<b>POWER VENTERS</b>		
11047606	Cover, top, piping, MiniTherm II.....	225	20020500	Power venter for up to 100-ft vent run.....	50-100
11020201	Rear panel, MiniTherm II.....	50/75	20020601	Power venter for up to 100-ft vent run.....	125-160
11020203	Rear panel, MiniTherm II.....	100/125	20020601	Power venter for up to 50-ft vent run.....	225
			20020602	Power venter for 51-100 ft vent run.....	225

\*\* Rev 2 boilers have 12-digit model numbers that end in "U2"

# Mini-Therm Models JVS & JVT (Cont.)

Part No.	Description	Size	Part No.	Description	Size
<b>FUEL CONVERSION KITS</b>			<b>JVS NATURAL GAS TO PROPANE</b>		
Includes gas orifices, pilot orifice, instructions and Honeywell valve conversions kits for single stage boilers only. For boilers equipped with Robertshaw valves or two stage gas valves, purchase appropriate gas valve separately. Note: For conversion of boilers from one fuel to another, at the same installation altitude.			R2000301	0-5000 ft.....	50
<b>JVT NATURAL GAS TO PROPANE</b>			R2000302	5001-8000 ft.....	50
R2000101	0-5000 ft.....	50	R2000303	8001-10,000 ft.....	50
R2000102	5001-8000 ft.....	50	R2000304	0-5000 ft.....	75
R2000103	8001-10,000 ft.....	50	R2000305	5001-8000 ft.....	75
R2000104	0-5000 ft.....	75	R2000306	8001-10,000 ft.....	75
R2000105	5001-8000 ft.....	75	R2000307	0-5000 ft.....	100
R2000106	8001-10,000 ft.....	75	R2000308	5001-8000 ft.....	100
R2000107	0-5000 ft.....	100	R2000309	8001-10,000 ft.....	100
R2000108	5001-8000 ft.....	100	R2000310	0-5000 ft.....	125
R2000109	8001-10,000 ft.....	100	R2000311	5001-8000 ft.....	125
R2000110	0-5000 ft.....	125	R2000312	8001-10,000 ft.....	125
R2000111	5001-8000 ft.....	125	R2000313	0-5000 ft.....	160
R2000112	8001-10,000 ft.....	125	R2000314	5001-8000 ft.....	160
R2000113	0-5000 ft.....	160	R2000315	8001-10,000 ft.....	160
R2000114	5001-8000 ft.....	160	R2000316	0-5000 ft.....	225
R2000115	8001-10,000 ft.....	160	R2000317	5001-8000 ft.....	225
R2000116	0-5000 ft.....	225	R2000318	8001-10,000 ft.....	225
R2000117	5001-8000 ft.....	225	<b>JVS PROPANE TO NATURAL GAS</b>		
R2000118	8001-10,000 ft.....	225	R2000401	0-2000 ft.....	50
<b>JVT PROPANE TO NATURAL GAS</b>			R2000402	2001-5000 ft.....	50
R2000201	0-2000 ft.....	50	R2000403	5001-8000 ft.....	50
R2000202	2001-5000 ft.....	50	R2000404	8001-10,000 ft.....	50
R2000203	5001-8000 ft.....	50	R2000405	0-2000 ft.....	75
R2000204	8001-10,000 ft.....	50	R2000406	2001-5000 ft.....	75
R2000205	0-2000 ft.....	75	R2000407	5001-8000 ft.....	75
R2000206	2001-5000 ft.....	75	R2000408	8001-10,000 ft.....	75
R2000207	5001-8000 ft.....	75	R2000409	0-2000 ft.....	100
R2000208	8001-10,000 ft.....	75	R2000410	2001-5000 ft.....	100
R2000209	0-2000 ft.....	100	R2000411	5001-8000 ft.....	100
R2000210	2001-5000 ft.....	100	R2000412	8001-10,000 ft.....	100
R2000211	5001-8000 ft.....	100	R2000413	0-2000 ft.....	125
R2000212	8001-10,000 ft.....	100	R2000414	2001-5000 ft.....	125
R2000213	0-2000 ft.....	125	R2000415	5001-8000 ft.....	125
R2000214	2001-5000 ft.....	125	R2000416	8001-10,000 ft.....	125
R2000215	5001-8000 ft.....	125	R2000417	0-2000 ft.....	160
R2000216	8001-10,000 ft.....	125	R2000418	2001-5000 ft.....	160
R2000217	0-2000 ft.....	160	R2000419	5001-8000 ft.....	160
R2000218	2001-5000 ft.....	160	R2000420	8001-10,000 ft.....	160
R2000219	5001-8000 ft.....	160	R2000421	0-2000 ft.....	225
R2000220	8001-10,000 ft.....	160	R2000422	2001-5000 ft.....	225
R2000221	0-2000 ft.....	225	R2000423	5001-8000 ft.....	225
R2000222	2001-5000 ft.....	225	R2000424	8001-10,000 ft.....	225
R2000223	5001-8000 ft.....	225			
R2000224	8001-10,000 ft.....	225			

# Mini-Therm JVH

## Sizes 50,000 - 225,000 BTU/h

Part No.	Description	Model	Part No.	Description	Model
<b>GAS / AIR COMPONENTS</b>			<b>ELECTRICAL / CONTROL COMPONENTS</b>		
R0384700	Gas valve, natural.....	50-160	RE2344300	Temperature control, rev 2**.....	all
R0384800	Gas valve, propane.....	all	RE2347600	Sensor, water temp, rev 2**.....	all
RV2001900	Gas valve, natural.....	225	RE2347601	Sensor, water temp, with well, rev 2**.....	all
20401601	Burner tray assembly, Nat.....	50	E2347400	Sensor, outdoor temperature, rev 2**.....	all
20401602	Burner tray assembly, Nat.....	75	E2347500	Wire harness rev 2**.....	all
20401603	Burner tray assembly, Nat.....	100	E2345700	Well, immersion, 3/4" NPT, rev 2**.....	all
20401604	Burner tray assembly, Nat.....	125	E0088400	Relay, DPNO, 24V.....	all
20401605	Burner tray assembly, Nat.....	160	E0098500	Terminal strip.....	all
20401606	Burner tray assembly, Nat.....	225	R2081401	Transformer, 115/24V rev 1 (50VA).....	all
20402401	Burner tray assembly, Propane.....	50	R2081402	Transfrmr, 115/24V rev 2 before June 2017.....	all
20402402	Burner tray assembly, Propane.....	75	RE2074400	Transfrmr, 115/24V rev 2 June 2017 & after.....	all
20402403	Burner tray assembly, Propane.....	100	E2074501	Pressure switch, 0-5000 ft.....	50-100
20402404	Burner tray assembly, Propane.....	125	E2074502	Pressure switch, 0-5000 ft.....	125-160
20402405	Burner tray assembly, Propane.....	160	E2074503	Pressure switch, 0-5000 ft.....	225
20402406	Burner tray assembly, Propane.....	225	E2074504	Pressure switch, 5001-10,000 ft.....	50-100
L0032200	Gas orifice, Nat, 0-2000 ft.....	50-125	E2074505	Pressure switch, 5001-10,000 ft.....	125-160
L0032600	Gas orifice, Nat, 5001-8000 ft.....	50-125	E2074506	Pressure switch, 5001-10,000 ft.....	225
L0032600	Gas orifice, Nat, 2001-5000 ft.....	160-225	E2103200	Switch, roll-out.....	all
L0032700	Gas orifice, Propane, 8001-10,000 ft.....	50-225	R0061300	Temperature control / limit.....	all
L0032800	Gas orifice, Propane, 5001-8000 ft.....	50-225	R2069600	Blower.....	all
L0032900	Gas orifice, Propane, 0-5000 ft.....	50-225	R2072300	Harness, gas valve.....	all
L0050300	Gas orifice, Nat, 8001-10,000 ft.....	50-125	RE0084401	Fuse, 4 Amp 5-pack kit.....	all
L0050300	Gas orifice, Nat, 5001-8000 ft.....	160-225	E0025902	Well, immersion, 3/8" bulb.....	all
L0050400	Gas orifice, Nat, 2001-5000 ft.....	160-225	<i>**For boilers with 12-character model number and "U2" at the end</i>		
L0050700	Gas orifice, Nat, 2001-5000 ft.....	50-125	<b>WATERWAY / HEAT EXCHANGER COMPONENTS</b>		
L0050700	Gas orifice, Nat, 0-2000 ft.....	160-225	R0402007	Heat exchanger.....	50
L0052500	Burner, main.....	all	R0402008	Heat exchanger.....	75
L0052601	Gas manifold.....	50	R0402009	Heat exchanger.....	100
L0052602	Gas manifold.....	75	R0402010	Heat exchanger.....	125
L0052603	Gas manifold.....	100	R0402011	Heat exchanger.....	160
L0052604	Gas manifold.....	125	R0402012	Heat exchanger.....	225
L0052605	Gas manifold.....	160	2400-392	Gauge, temperature.....	all
L0052606	Gas manifold.....	225	A2000400	Gauge, temperature & pressure.....	all
RW2001800	Pilot assembly, hot surface, Natural.....	all	R0061400	Pressure relief valve, 30psi.....	all
RW2001900	Pilot assembly, hot surface, Propane.....	all	R10-143	Drain valve.....	all
Q0068400	Pilot gas tubing (sold per foot).....	all	<b>COMBUSTION CHAMBER COMPONENTS</b>		
L0056500	Burner with pilot bracket.....	all	10469501	Tile cover.....	50
L0055900	Air shutter, propane.....	all	10469502	Tile cover.....	75
20404614	Orifice plate, Nat & LP, 0-5000 ft.....	50	10469503	Tile cover.....	100
20404602	Orifice plate, Nat, 5001-10,000 ft.....	50	10469504	Tile cover.....	125
20404613	Orifice plate, LP, 5001-10,000 ft.....	50	10469505	Tile cover.....	160
20404615	Orifice plate, Nat & LP, 0-5000 ft.....	75	10469506	Tile cover.....	225
20404602	Orifice plate, LP, 5001-10,000 ft.....	75	10485301	Heat exchanger baffle.....	50
20404603	Orifice plate, Nat, 5001-10,000 ft.....	75	10485302	Heat exchanger baffle.....	75
20404611	Orifice plate, Nat & LP, 0-5000 ft.....	100	10485303	Heat exchanger baffle.....	100
20404604	Orifice plate, Nat, 5000-10,000 ft.....	100	10485304	Heat exchanger baffle.....	125
20404611	Orifice plate, LP, 5000-10,000 ft.....	100	10485305	Heat exchanger baffle.....	160
20404604	Orifice plate, Nat, 0-5000 ft.....	125	10485306	Heat exchanger baffle.....	225
20404605	Orifice plate, LP, 0-5000 ft.....	125	20403001	Burner tray weldment.....	50
20404605	Orifice plate, Nat, 5001-10,000 ft.....	125	20403002	Burner tray weldment.....	75
20404604	Orifice plate, LP, 5001-10,000 ft.....	125	20403003	Burner tray weldment.....	100
20404616	Orifice plate, Nat, 0-5000 ft.....	160	20403004	Burner tray weldment.....	125
20404607	Orifice plate, LP, 0-5000 ft.....	160	20403005	Burner tray weldment.....	160
20404606	Orifice plate, Nat & LP, 5001-10,000 ft.....	160	20403006	Burner tray weldment.....	225
20404609	Orifice plate, Nat, 0-5000 ft.....	225	F2007001	Securement cable.....	50
20404610	Orifice plate, LP, 0-5000 ft.....	225	F2007002	Securement cable.....	75
20404608	Orifice plate, Nat, 5001-10,000 ft.....	225	F2007003	Securement cable.....	100
20404612	Orifice plate, LP, 5001-10,000 ft.....	225	F2007004	Securement cable.....	125
D2004201	Transition 4" without damper.....	all	F2007005	Securement cable.....	160

# Mini-Therm Model JVH (Cont.)

Part No.	Description	Size	Part No.	Description	Size
F2007006	Securement cable.....	225	R2000507	0-5000 ft.....	100
20403901	Flue collector weldment.....	50	R2000508	5001-8000 ft.....	100
20403902	Flue collector weldment.....	75	R2000509	8001-10,000 ft.....	100
20403903	Flue collector weldment.....	100	R2000510	0-5000 ft.....	125
20403904	Flue collector weldment.....	125	R2000511	5001-8000 ft.....	125
20403905	Flue collector weldment.....	160	R2000512	8001-10,000 ft.....	125
20403906	Flue collector weldment.....	225	R2000513	0-5000 ft.....	160
T2007701	Tile, refractory, front.....	50	R2000514	5001-8000 ft.....	160
T2007702	Tile, refractory, front.....	75	R2000515	8001-10,000 ft.....	160
T2007703	Tile, refractory, front.....	100	R2000516	0-5000 ft.....	225
T2007704	Tile, refractory, front.....	125	R2000517	5001-8000 ft.....	225
T2007705	Tile, refractory, front.....	160	R2000518	8001-10,000 ft.....	225
T2007706	Tile, refractory, front.....	225	<b>JVH PROPANE TO NATURAL GAS</b>		
T2007801	Tile, refractory, rear.....	50	R2000601	0-2000 ft.....	50
T2007802	Tile, refractory, rear.....	75	R2000602	2001-5000 ft.....	50
T2007803	Tile, refractory, rear.....	100	R2000603	5001-8000 ft.....	50
T2007804	Tile, refractory, rear.....	125	R2000604	8001-10,000 ft.....	50
T2007805	Tile, refractory, rear.....	160	R2000605	0-2000 ft.....	75
T2007806	Tile, refractory, rear.....	225	R2000606	2001-5000 ft.....	75
<b>JACKET / BASE COMPONENTS</b>			R2000607	5001-8000 ft.....	75
11027901	Jacket, round corner, (sides and back).....	50-75	R2000608	8001-10,000 ft.....	75
11027903	Jacket, round corner, (sides and back).....	100-125	R2000609	0-2000 ft.....	100
11027905	Jacket, round corner, (sides and back).....	160	R2000610	2001-5000 ft.....	100
11027906	Jacket, round corner, (sides and back).....	225	R2000611	5001-8000 ft.....	100
11028301	Front panel, round corner.....	50-75	R2000612	8001-10,000 ft.....	100
11028303	Front panel, round corner.....	100-125	R2000613	0-2000 ft.....	125
11028305	Front panel, round corner.....	160	R2000614	2001-5000 ft.....	125
11028306	Front panel, round corner.....	225	R2000615	5001-8000 ft.....	125
11028401	Top, front section, round corner.....	50	R2000616	8001-10,000 ft.....	125
11028402	Top, front section, round corner.....	75	R2000617	0-2000 ft.....	160
11028403	Top, front section, round corner.....	100	R2000618	2001-5000 ft.....	160
11028404	Top, front section, round corner.....	125	R2000619	5001-10,000 ft.....	160
11028405	Top, front section, round corner.....	160	R2000620	0-2000 ft.....	225
11028406	Top, front section, round corner.....	225	R2000621	2001-5000 ft.....	225
11028501	Top, rear section, round corner.....	50-75	R2000622	5001-10,000 ft.....	225
11028503	Top, rear section, round corner.....	100-125	<b>FLUE OUTLET CONVERSION</b> - Eliminates "flapper" damper in transition, includes transition, air orifice plate and sealant		
11028505	Top, rear section, round corner.....	160	<b>0-5000 ft.</b>		
11028506	Top, rear section, round corner.....	225	R0394901	Flue outlet replacement kit, Nat/LP.....	50
11047601	Top, piping section, round corner.....	50 & 100	R0394902	Flue outlet replacement kit, Nat/LP.....	75
11047602	Top, piping section, round corner.....	75, 125-225	R0394903	Flue outlet replacement kit, Nat/LP.....	100
20400701	Base weldment.....	50	R0394904	Flue outlet replacement kit, Nat.....	125
20400702	Base weldment.....	75	R0394905	Flue outlet replacement kit, LP.....	125
20400703	Base weldment.....	100	R0394906	Flue outlet replacement kit, Nat.....	160
20400704	Base weldment.....	125	R0394907	Flue outlet replacement kit, LP.....	160
20400705	Base weldment.....	160	R0394908	Flue outlet replacement kit, Nat.....	225
20400706	Base weldment.....	225	R0394909	Flue outlet replacement kit, LP.....	225
20403301	Burner cover.....	50	<b>5001-10,000 ft.</b>		
20403302	Burner cover.....	75	R0394910	Flue outlet replacement kit, Nat.....	50
20403303	Burner cover.....	100	R0394911	Flue outlet replacement kit, LP.....	50
20403304	Burner cover.....	125	R0394912	Flue outlet replacement kit, Nat.....	75
20403305	Burner cover.....	160	R0394913	Flue outlet replacement kit, LP.....	75
20403306	Burner cover.....	225	R0394914	Flue outlet replacement kit, Nat.....	100
11045901	Control panel cover.....	all	R0394915	Flue outlet replacement kit, LP.....	100
<b>FUEL CONVERSION KITS</b>			R0394916	Flue outlet replacement kit, Nat.....	125
Note: For converting boilers fuels at the same altitude					
<b>JVH NATURAL GAS TO PROPANE</b>					
R2000501	0-5000 ft.....	50	R0394917	Flue outlet replacement kit, LP.....	125
R2000502	5001-8000 ft.....	50	R0394918	Flue outlet replacement kit, Nat/LP.....	160
R2000503	8001-10,000 ft.....	50	R0394919	Flue outlet replacement kit, Nat.....	225
R2000504	0-5000 ft.....	75	R0394920	Flue outlet replacement kit, LP.....	225
R2000505	5001-8000 ft.....	75	<b>ACCESSORIES</b>		
R2000506	8001-10,000 ft.....	75	D2000401	Vent terminal, 6".....	all
			D2004300	Vent terminal, 4".....	all

## Mini-Combo MCT, MCS, MCH

Part No.	Description	Model	Part No.	Description	Model
<i>These parts are unique to Mini-Combo units</i> <i>Other parts can be found in the MiniTherm listings</i>					
<b>ELECTRICAL / CONTROL COMPONENTS</b>					
R2006600	Temperature control sensor probe.....	all	P0025300	Nipple, brass, 3/4"NPT x 2".....	all
<b>WATERWAY COMPONENTS</b>					
1-070	Tubing, copper, 7/8" O.D. (sold by the foot).....	all	P0029400	Tee, 1" x 1" x 3/4" black.....	MCH
11-088	Elbow, street, NPT.....	all	P2014800	Fitting, 7/8O.D. x 3/4" NPT.....	all
A0066500	Pump, 1/25 hp.....	all	P2015400	Tee, black, 1 1/4" x 1 1/4" x 3/4" NPT.....	MCS, MCT
A2085400	Relief valve.....	all	P2016900	Elbow, black 90°, 3/4" x 1" NPT.....	all
A2085600	Check valve, 3/4" NPT.....	all	P2019200	Cross, black, 1 1/4" NPT.....	MCH
A2085700	Drain valve, tank.....	all	<b>JACKET COMPONENTS</b>		
A2085900	Immersion well.....	MCH	20084000	Mounting bracket.....	MCS, MCT
A2086600	Check valve, 1 1/4" NPT.....	all	20085400	Tank support bracket.....	MCH
A2086700	Flange, 3" NPT.....	all	20085600	Top panel assembly.....	all
P0008300	Elbow, black 90°, 3/4" NPT.....	all	20085700	Base panel assembly.....	all
P0014100	Nipple, 3/4" x close.....	all	20085900	Rear panel.....	all
P0014400	Nipple, black.....	MCH	20086300	Door panel assembly.....	all
P0014500	Nipple, black, 3/4" NPT x 3".....	MCS, MCT	20086400	Right side panel.....	all
P0015100	Nipple, 1 1/4" x close.....	all	20086500	Access panel.....	all
			20087300	Door latch assembly.....	all
			20127900	Left side panel.....	all
			A2087600	Door handle.....	all

## Laars-Stor LS-SW, LS-DW, LS-RTV

Part No.	Description & Model	Size	Part No.	Description & Model	Size
243-44416-00	Aquastat SW & RTV.....	all	224-38508-08	Anode (aluminum) RTV S/N JG16892040 & after.....	40-75
233-43315-00	Aquastat well SW & RTV.....	all	224-48138-00	Anode (magnesium) RTV.....	120
265-42351-02	Drain valve SW & DW.....	all	224-49559-04*	Anode (A420).....	all
227-49556-02	Drain valve RTV.....	all	* A420 anode may need to be cut to length		
230-40594-02	T&P relief valve SW.....	30-120L	229-51230-02	Cold water inlet dip tube SW.....	30
230-33630-04	T&P relief valve SW.....	65-120C	229-51230-03	Cold water inlet dip tube SW.....	40
230-40594-02	T&P relief valve DW.....	all	229-51230-06	Cold water inlet dip tube SW.....	50
230-40594-02	T&P relief valve RTV.....	40	229-51230-10	Cold water inlet dip tube SW.....	65-80L
230-32920-01	T&P relief valve RTV.....	52-75	229-43632-04	Cold water inlet dip tube SW.....	120
230-32920-04	T&P relief valve RTV.....	120	229-43632-01	Cold water inlet dip tube SW.....	65-80C
224-38508-07	Anode (aluminum) SW.....	30-50	229-51230-16	Cold water inlet dip tube DW.....	40
224-38508-07	Anode (aluminum) SW.....	65-120	229-51230-06	Cold water inlet dip tube DW.....	50
224-38508-07	Anode (aluminum) DW.....	40-80	229-51230-13	Cold water inlet dip tube DW.....	65-80

## Mark II Models H, HW & HP

Part No.	Description	Size	Part No.	Description	Size
1-036	Coil gasket.....	all	2400-012	Control board (before s/n x91-1319).....	all
1-448	Plastic tee.....	all	2400-016	Low limit switch, strap-on (pre-M2).....	all
2400-001	Blower gaskets (box of 20).....	all	2400-018	Op ctrl, strap-on (x84-001-x91-1318).....	all
2400-002	Blower with gaskets.....	all	2400-020	Thermal cut out (TCO) x84-001 - x91-1318.....	all
2400-003	Plastic impeller fan, for blower.....	all	2400-024	Safety high limit, 240°F (for high altitude).....	all
2400-014	Gas valve, negative pressure.....	all	2400-056	Op ctrl 200°F, HW M2 (x91-1319 and after).....	all
2400-026	Gas balance line.....	all	2400-057	Operating control 185°F, H(P) M2.....	all
2400-028	Bleed line (petcock & tube assy).....	all	2400-062	Time delay relay for H & HP M2.....	all
2400-040	Flameholder (burner) with gaskets.....	all	2400-106	Pressure diff switch (after s/n x94-905).....	all
2400-042	Ignitor gaskets (box of 10).....	all	2400-110	Stack sw, blower prove (after x84-001).....	all
2400-046	Ignitor with gasket.....	all	2400-224	Control board for M2 (x91-1319 & after).....	all
2400-052	Insulation for comb chamber coil (top)	all	2400-226	Low limit, strap-on, HW M2.....	all
2400-320	Gasket kit.....	all	2400-228	Press sw for M2, round (x91-1319 & after).....	all
2400-118	Orifice kit, natural.....	130	2400-032	Comb chamber coil assy before x91-1319.....	all
2400-120	Orifice kit, propane.....	130	2400-004	Circulator w/ diff press switch, w/ gaskets.....	all
2400-122	Orifice kit, natural.....	100	2400-005	Circulator with gaskets.....	all
2400-124	Orifice kit, propane.....	100	2400-029	Thermostat and o-ring for 1 1/4" union.....	all
2400-126	Orifice kit, natural.....	60	2400-036	DHW coil (single wall) with gasket.....	all
2400-128	Orifice kit, propane.....	60	2400-112	Pressure relief valve, 30 psi, ASME.....	all
2400-006	Transformer, 40 VA.....	all	2400-114	Gauge, pressure/temp, back mount.....	all
2400-008	R-1 relay, 8 terminals (before x91-1319).....	all	2400-236	High vent, float type.....	all
2400-010	R-2 / R-3 relay, 4 terms (x91-1319 & after).....	all			



# List Prices. All Products.

Effective March 21, 2022

Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
<b>0</b>		10485306	10.75	12H3003	577.24	15X3031	56.33
05P2100	2692.61	10494105	97.13	12H3004	915.69	15X3037	94.14
05P7400	498.23	10494106	102.38	12H3005	301.88	15X3038	87.80
07P2100	2920.16	10500601	86.10	12H3006	3.41	15X5004	47.64
<b>1</b>		10500602	116.81	12H3007	22.05	15X6001	102.61
1-036	9.45	10500603	118.91	12H3008	41.40	17P2100	3846.84
1-054	54.60	10500604	118.91	12H3009	14.18	17P7400	498.23
1-070	18.64	10535900	57.75	12H3010	33.60	<b>2</b>	
1-448	3.94	10562300	42.00	12H3011	188.75	2C1000	474.08
1-579	22.58	10582200	155.38	12H3012	12.86	2C2001	153.30
1-580	22.58	10582201	166.27	12H3015	142.01	2C2002	66.15
10-103	3.15	10582202	139.65	12H3016	33.60	2C2006	137.29
10-332	13.91	10582203	153.98	12H3017	48.97	2C2008	60.38
10-596	4.24	10582204	139.65	12H3018	133.46	2C2009	36.20
10P2100	3235.84	10582205	153.98	12H3019	133.46	2C2015	43.31
10X1000	537.85	10582206	164.14	12H3020	57.23	2C2016	43.31
10X2000	2557.80	10582207	159.86	12H3023	7.35	2C2017	27.68
10X2012	40.43	10582208	151.85	12H3025	915.69	2C2018	3.15
10X2020	22.98	11-088	13.39	12H3033	553.61	2C2019	42.07
10X3019	114.04	11019401	56.65	12H4001	436.01	2C2023	152.51
10X3030	199.42	11019402	56.65	12H4004	301.09	2C2100	105.26
10X3031	52.27	11019403	61.96	12H4006	65.21	2C2201	198.45
10X3037	81.17	11019404	61.96	12H4008	102.38	2C2300	137.81
10X3038	72.93	11019405	68.52	12H4010	56.70	2C2500	162.75
10X5004	45.20	11019406	78.62	12H4011	172.46	2C2601	198.45
10X6001	76.55	11020101	206.85	12H4012	115.24	2C3010	35.70
10338600	20.74	11020102	209.21	12H4019	28.09	2C3014	51.98
10449514	18.11	11020103	222.08	12H4022	3.15	2C3015	34.48
10449515	19.95	11020104	232.58	12H5002	11.03	2C3016	88.45
10449516	22.84	11020105	240.98	12H5500	113.14	2C3021	141.49
10466701	216.56	11020106	261.19	12H5501	4.73	2C3220	164.59
10466702	227.59	11020201	53.55	12H7001	134.40	2C3420	139.91
10466703	240.19	11020203	57.23	12H7002	134.40	2C3520	139.91
10466704	258.56	11020205	78.75	12H7003	134.40	2C3620	76.13
10467101	350.70	11020206	78.75	12H7004	57.49	2C3621	61.99
10467102	358.31	11027901	203.18	12H7005	8.32	2C3622	76.13
10467103	369.08	11027903	212.36	12H7008	12.60	2C3623	78.21
10467104	370.39	11027905	221.29	12H7010	300.04	2C3700	90.30
10467105	396.90	11027906	234.68	12P2065	16.12	2C3800	288.49
10467106	424.46	11028301	60.64	12P2100	3447.77	2C4001	118.39
10469501	9.12	11028303	65.89	12P3004	96.86	2C4002	26.78
10469502	10.06	11028305	71.40	12P3005	253.31	2C4103	197.66
10469503	11.00	11028306	82.16	12P3006	145.16	2C5000	155.93
10469504	11.94	11028401	88.20	12P7015	96.86	2C7002	46.18
10469505	13.81	11028402	88.20	12P7400	518.96	2C7003	41.86
10469506	16.62	11028403	93.71	12X1000	574.75	2C7004	19.69
10470101	24.28	11028404	93.71	12X2000	2675.40	2C7005	21.00
10470102	23.23	11028405	100.80	12X2012	40.69	2F3000	1696.56
10470301	168.53	11028406	111.04	12X2020	24.41	2F3019	81.13
10470302	173.10	11028501	55.91	12X3019	122.02	2F3020	1893.79
10470303	176.06	11028503	58.01	12X3030	213.67	2F4122	619.76
10470304	184.32	11028505	62.48	12X3031	54.30	2F7001	95.38
10470305	191.97	11028506	69.30	12X3037	87.65	2F7002	91.56
10470306	208.07	11045801	54.86	12X3038	80.37	20X1000	687.46
10472500	24.12	11045802	55.13	12X5004	46.42	20X2000	3333.75
10472600	28.88	11045901	46.80	12X6001	81.99	20X2012	41.72
10484606	63.82	11047601	29.93	15P2100	3646.96	20X2020	28.69
10485301	8.66	11047602	27.56	15X1000	611.65	20X3019	145.92
10485302	8.93	11047603	29.93	15X2000	3038.70	20X3030	266.78
10485303	9.19	11047604	29.40	15X2012	40.95	20X3037	107.26
10485304	9.16	11047606	28.09	15X2020	25.83	20X3038	102.66
10485305	9.52	12H2500	26.78	15X3019	130.00	20X5004	50.07
		12H3001	395.52	15X3030	220.69		

Effective March 21, 2022

<b>Part No.</b>	<b>List Price</b>	<b>Part No.</b>	<b>List Price</b>	<b>Part No.</b>	<b>List Price</b>	<b>Part No.</b>	<b>List Price</b>
20X6001	120.30	20403002	243.08	2400-014	475.13	2400-426	107.12
20020500	2357.25	20403003	250.95	2400-016	137.29	2400-428	636.56
20020601	2417.10	20403004	253.31	2400-018	117.86	2400-433	345.23
20020602	3131.10	20403005	285.92	2400-020	204.23	2400-435	392.82
20034801	300.56	20403006	318.51	2400-024	150.94	2400-437	47.08
20034802	304.50	20403301	47.78	2400-026	92.19	2400-438	118.65
20034803	318.15	20403302	47.78	2400-028	119.70	2400-441	551.25
20034804	330.23	20403303	51.45	2400-029	66.94	2400-442	339.68
20034805	338.89	20403304	51.45	2400-032	3644.55	2400-443	243.86
20034806	376.90	20403305	56.44	2400-036	1174.95	2400-444	243.86
20034901	85.82	20403306	63.79	2400-040	234.68	2400-445	164.59
20034902	90.62	20403901	182.70	2400-042	46.46	2400-446	128.63
20034903	98.78	20403902	185.59	2400-046	107.36	2400-448	311.85
20034904	103.70	20403903	186.38	2400-049	201.60	2400-450	201.60
20034905	110.43	20403904	187.16	2400-052	105.10	2400-451	291.38
20034906	157.46	20403905	189.26	2400-056	86.10	2400-452	198.45
20052601	385.61	20403906	202.43	2400-057	115.24	2400-506	229.95
20052602	347.42	20404602	7.56	2400-062	84.53	2400-508	50.93
20052603	479.59	20404603	7.56	2400-106	471.19	2400-510	3642.45
20052604	528.68	20404604	7.56	2400-110	106.31	2400-512	4213.65
20069101	112.88	20404605	7.56	2400-112	93.19	2400-514	62.21
20069102	112.88	20404606	7.56	2400-114	103.95	2400-516	322.09
20069105	123.90	20404607	7.56	2400-118	181.39	2400-518	326.81
20069106	130.46	20404608	7.56	2400-120	184.54	2400-520	1827.00
20071500	50.93	20404609	7.56	2400-122	181.39	2400-522	95.29
20084000	49.55	20404610	7.56	2400-124	184.54	2400-524	752.59
20085400	18.11	20404611	7.56	2400-126	181.39	2400-526	226.54
20085600	576.56	20404612	7.56	2400-128	184.54	2400-528	18.59
20085700	541.28	20404613	7.56	2400-141	121.80	2400-530	36.66
20085900	170.97	20404614	7.56	2400-142	427.57	2400-538	462.79
20086300	312.41	20404615	7.56	2400-145	290.64	2400-539	270.64
20086400	243.78	20404616	7.56	2400-146	193.73	2400-540	69.04
20086500	71.80	224-38508-07	91.09	2400-152	1005.38	2400-546	659.66
20086800	85.84	224-38508-08	53.03	2400-153	941.59	2400-548	346.76
20087100	56.96	224-48138-00	442.58	2400-224	529.73	2400-550	133.09
20087300	14.55	224-49559-04	108.15	2400-226	137.29	2400-552	169.84
20099801	55.76	227-48070-01	38.06	2400-228	116.55	2400-556	154.88
20099802	55.76	227-49556-02	82.16	2400-236	59.85	2400-560	140.96
20099803	64.80	229-43632-01	97.70	2400-277	134.93	2400-562	176.93
20099804	64.80	229-43632-04	66.94	2400-280	71.82	2400-566	69.91
20099805	78.75	229-51230-02	65.89	2400-281	56.70	2400-568	129.68
20099806	91.34	229-51230-03	97.70	2400-320	84.53	2400-570	519.49
20127900	362.14	229-51230-06	65.89	2400-370	476.18	2400-572	67.46
20129300	9.19	229-51230-10	65.89	2400-386	920.59	2400-574	142.80
20400701	329.70	229-51230-13	97.70	2400-388	1183.35	2400-586	1472.10
20400702	329.70	229-51230-16	65.89	2400-392	57.23	2400-590	118.13
20400703	347.29	22P2100	4217.18	2400-407	252.24	2400-592	364.35
20400704	347.29	230-32920-01	55.00	2400-408	213.72	2400-593	3346.35
20400705	369.34	230-32920-04	71.66	2400-409	191.05	2400-594	3928.72
20400706	394.80	230-33630-04	218.97	2400-410	112.35	2400-650	1199.64
20401601	1742.92	230-40594-02	61.27	2400-411	119.63	243-44416-00	219.45
20401602	1777.27	233-43315-00	92.92	2400-412	305.03	265-42351-02	43.16
20401603	1817.05	239-44069-01	140.00	2400-413	119.63		
20401604	1843.97	239-44069-02	140.00	2400-415	162.63		
20401605	1925.99	2400-001	181.67	2400-416	245.71	<b>3</b>	
20401606	2339.80	2400-002	1305.15	2400-418	414.23	3C1000	572.78
20402401	1693.11	2400-003	42.26	2400-419	324.45	3C2001	233.89
20402402	1733.94	2400-004	922.43	2400-420	376.98	3C2006	164.85
20402403	1781.00	2400-005	389.55	2400-421	371.70	3C2008	63.53
20402404	1815.01	2400-006	164.33	2400-422	301.88	3C2009	44.04
20402405	1912.86	2400-008	91.15	2400-423	269.59	3C2017	38.29
20402406	2037.99	2400-010	165.38	2400-424	476.74	3C2019	48.09
20403001	240.71	2400-012	335.21	2400-425	441.53	3C2023	181.65
						3C2100	106.05

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3C3021	162.78	5X2020	20.17	A2123606	551.25	CA020023	51.00
3C3220	172.73	5X207201	54.34	A2136500	282.19	CA020024	51.00
3C3702	54.49	5X207202	54.60			CA50D7181	1629.63
3C7002	58.53	5X3019	99.19	<b>C</b>		CA50D7182	1629.63
3F3000	1767.73	5X3030	178.76	CA005400	81.00	CA50D7183	1629.63
3F3019	90.79	5X3031	48.31	CA005500	174.83		
3F3020	1990.62	5X3037	66.43	CA005600	72.71	<b>D</b>	
30-103	9.45	5X3038	58.38	CA006201	64.00	D2000401	651.53
30-119	3.15	5X5002	20.21	CA006202	64.00	D2004201	36.23
30-188	3.15	5X5004	43.84	CA006203	64.00	D2004300	606.64
30-192	13.91	5X6001	56.90	CA006204	64.00		
30-205	6.04	50D7508	14.77	CA006205	64.00	<b>E</b>	
30-251	34.39	50D7516	27.56	CA006206	27.30	E0000700	3.68
30-253	19.61	500-168	3.15	CA019400	215.00	E0025902	30.36
30-310	397.21			CA019501	1619.00	E0088400	74.13
30-616	13.91	<b>7</b>		CA019502	1619.00	E0098500	9.19
30-677	16.98	7X1000	498.93	CA019600	628.00	E0099100	43.31
30-678	54.40	7X2000	2439.15	CA019901	81.00	E0099101	32.03
30D3311	101.59	7X2012	40.16	CA019902	81.00	E0101800	51.34
30D3312	148.84	7X2020	21.55	CA019903	81.00	E0102000	3.15
30D3313	88.20	7X3019	106.06	CA019904	81.00	E0180500	110.25
30D3314	132.30	7X3030	187.73	CA019905	90.00	E0234201	105.26
31-325	92.40	7X3031	50.25	CA019906	90.00	E0253100	280.61
36-010	150.37	7X3037	72.65	CA019907	90.00	E0253400	198.98
36-028	19.69	7X3038	65.50	CA019908	90.00	E0253900	69.04
36-288	3.15	7X5004	44.36	CA019909	99.00	E2039500	11.03
36-640	225.55	7X6001	72.00	CA019910	99.00	E2074501	63.79
36-641	100.27			CA019911	99.00	E2074502	63.79
36-642	100.27	<b>8</b>		CA019912	99.00	E2074503	63.79
36-643	268.95	8D3327	67.46	CA019913	109.00	E2074504	63.79
		8D3328	61.95	CA019914	109.00	E2074505	63.79
<b>4</b>		8D3329	72.98	CA019915	109.00	E2074506	63.79
4C1000	683.55	8D3330	68.51	CA019916	109.00	E2102800	345.19
4C2001	289.01	85D1005	60.64	CA019917	119.00	E2103200	27.56
4C2006	201.08			CA019918	119.00	E2105600	97.65
4C2008	67.20	<b>A</b>		CA019919	119.00	E2304800	108.15
4C2009	53.17	A0063300	69.04	CA019920	119.00	E2318900	11.55
4C2017	49.98	A0066500	260.14	CA019921	129.00	E2324000	193.99
4C2019	55.88	A0076701	651.26	CA019922	129.00	E2324200	164.33
4C2023	221.29	A0076805	1156.05	CA019923	129.00	E2327500	55.13
4C2100	106.84	A0095605	748.13	CA019924	129.00	E2327700	8.66
4C3021	190.80	A0095705	933.98	CA020001	25.00	E2327800	27.56
4C3220	199.76	A2000400	68.25	CA020002	25.00	E2327900	3.68
4C3700	92.14	A2085400	51.98	CA020003	25.00	E2334500	29.40
4C7002	72.92	A2085600	176.93	CA020004	25.00	E2334501	13.13
4F3000	1861.10	A2085700	29.14	CA020005	28.00	E2334502	12.34
4F3019	102.06	A2085900	79.01	CA020006	28.00	E2334900	33.86
4F3020	2083.99	A2086600	214.46	CA020007	28.00	E2335000	8.66
40-010	115.26	A2086700	23.10	CA020008	28.00	E2335100	8.66
40-014	782.06	A2087600	14.18	CA020009	33.00	E2336500	28.09
40-250	330.28	A2108100	18.90	CA020010	33.00	E2337400	198.98
40-301	297.63	A2112300	152.25	CA020011	33.00	E2338600	65.10
40-302	136.48	A2114400	1155.00	CA020012	33.00	E2343200	297.15
40-303	113.20	A2117400	152.25	CA020013	37.00	E2345700	38.06
40-304	213.39	A2117500	38.06	CA020014	37.00	E2347400	43.31
40-310	105.53	A2117600	61.43	CA020015	37.00	E2347500	141.75
40-325	65.36	A2117700	301.35	CA020016	37.00	E2347700	96.08
40-678	55.56	A2120300	2567.25	CA020017	43.00	E2348100	44.89
		A2122004	460.95	CA020018	43.00	E2348700	223.65
<b>5</b>		A2122400	650.21	CA020019	43.00	E2356800	165.38
5X1000	463.70	A2122500	737.63	CA020020	43.00	E2357000	28.61
5X2000	2325.75	A2122600	621.60	CA020021	51.00	E2357200	44.89
5X2012	39.90	A2123605	133.95	CA020022	51.00	E2357300	3.15

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E2357500	43.05	FT1068	1849.05	FT1524	23.86	FT1804	47.44
E2357700	3.15	FT1069	35.35	FT1527	47.44	FT1805	49.67
E2401400	336.79	FT1070	194.37	FT1528	26.28	FT1806	47.44
E2402100	7.88	FT1071	150.23	FT1529	35.35	FT1807	41.40
E2402600	46.46	FT1072	86.20	FT1530	32.33	FT1808	47.44
E2402700	62.74	FT1073	239.93	FT1535	35.35	FT1809	88.73
E2402800	63.26	FT1076	23.56	FT1538	29.30	FT1810	41.40
E2402900	33.86	FT1082	35.35	FT1539	29.30	FT1811	41.40
E2403400	65.36	FT1086	36.56	FT1544	23.56	FT1812	29.93
E2404200	108.15	FT1100	924.26	FT1548	39.58	FT1813	26.28
E2407000	18.38	FT1107	29.30	FT1549	113.95	FT1821	29.30
E2407200	55.91	FT1108	29.30	FT1601	23.56	FT1822	41.40
		FT1109	35.35	FT1603	26.28	FT1823	83.72
		FT1111	35.35	FT1604	30.21	FT1824	35.35
<b>F</b>		FT1112	41.40	FT1606	32.33	FT1826	61.16
F0002100	3.15	FT1114	35.35	FT1609	26.28	FT1827	35.35
F0029300	3.15	FT1115	126.05	FT1618	35.35	FT1836	26.28
F0034000	3.15	FT1116	176.14	FT1620	145.69	FT1838	280.35
F0035900	3.15	FT1119	23.68	FT1635	44.42	FT1846	41.40
F0040800	3.15	FT1120	35.35	FT1638	41.40	FT1852	1529.85
F0046100	3.15	FT1121	35.35	FT1643	23.86	FT1853	77.67
F0051400	3.15	FT1122	53.49	FT1644	23.86	FT1854	47.44
F2001900	3.15	FT1200	787.24	FT1645	23.86	FT1855	47.44
F2007001	3.15	FT1208	29.30	FT1646	23.86	FT1856	47.44
F2007002	3.15	FT1215	53.49	FT1661	26.28	FT1860	47.44
F2007003	3.41	FT1216	47.44	FT1665	65.58	FT1861	19.00
F2007004	3.15	FT1217	29.30	FT1669	29.30	FT1862	279.56
F2007005	3.41	FT1218	35.35	FT1672	445.20	FT1863	279.56
F2007006	3.41	FT1219	41.40	FT1685	23.56	FT1864	279.56
F2011600	3.15	FT1220	105.79	FT1687	23.56	FT1865	35.35
F2015900	3.15	FT1222	457.54	FT1691	23.56	FT1866	35.35
F2022300	28.70	FT1307	53.49	FT1708	37.16	FT1867	35.35
F2022400	3.15	FT1310	44.42	FT1710	3.41	FT1868	86.00
F2023700	3.15	FT1313	1796.55	FT1719	23.56	FT1876	107.91
F2025000	3.15	FT1314	106.84	FT1720	35.35	FT1893	38.37
F2025300	3.15	FT1315	55.13	FT1721	29.30	FT1894	29.30
F2025502	8.14	FT1316	35.35	FT1730	35.35	FT1903	129.98
F2027000	3.15	FT1321	107.91	FT1758	2261.70	FT1904	128.34
F2027500	3.41	FT1322	89.77	FT1759	372.49	FT1905	129.98
F2027600	3.15	FT1323	291.11	FT1760	50.47	FT1906	129.98
F2027700	3.15	FT1324	44.42	FT1763	55.13	FT1915	29.30
F2028200	3.15	FT1325	35.35	FT1764	52.28	FT1916	356.21
F2028300	6.30	FT1327	35.35	FT1765	204.65	FT1917	32.33
F2029000	9.45	FT1329	32.33	FT1767	440.21	FT1918	29.30
F2029300	3.15	FT1406	156.28	FT1768	89.77	FT1919	29.30
FT1002	65.58	FT1407	292.16	FT1770	44.42	FT1921	26.28
FT1010	65.58	FT1409	59.53	FT1771	26.28	FT1922	29.30
FT1013	26.28	FT1412N	47.44	FT1772	26.28	FT1923	113.95
FT1015	55.13	FT1412P	47.44	FT1773	41.40	FT1924	26.28
FT1020	35.35	FT1413	287.96	FT1774	29.30	FT1927	83.72
FT1021	35.35	FT1415	29.30	FT1775	234.88	FT1928	65.58
FT1022	47.44	FT1416	174.42	FT1777	29.30	FT1929	29.14
FT1025	83.72	FT1419	234.88	FT1779	29.30	FT1936	29.30
FT1049	32.33	FT1500	383.51	FT1780	29.30	FT1937	939.23
FT1050	26.34	FT1501	89.77	FT1783	233.36	FT1938	722.66
FT1051	32.51	FT1506	41.40	FT1784	77.67	FT1939	26.28
FT1053	144.19	FT1513	29.30	FT1793	37.16	FT1946	47.44
FT1054	107.91	FT1515	29.30	FT1794	299.51	FT1947	47.44
FT1055	29.30	FT1516	29.30	FT1795	30.51	FT1948	47.44
FT1057	29.30	FT1518	48.65	FT1796	355.16	FT1949	113.95
FT1058	68.78	FT1520	23.56	FT1797	29.30	FT1950	282.19
FT1060	26.28	FT1522	47.44	FT1798	605.33	FT1992	1862.70
FT1064	23.56	FT1523	29.30	FT1802	29.30	FT2000	52.28
FT1067	60.75						

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FT2002	51.67	FT2112	60.75	FT3057	216.83	FT3121	41.40
FT2004	364.35	FT2113	46.84	FT3058	107.91	FT3122	35.35
FT2005	124.16	FT2114	147.53	FT3059	92.79	FT3123	35.35
FT2006	370.91	FT2115	40.79	FT3060	95.91	FT3124	216.83
FT2007	30.81	FT2116	49.26	FT3061	65.58	FT3127	53.49
FT2008	74.05	FT2117	69.21	FT3062	23.86	FT3128	248.85
FT2009	29.30	FT2119	103.07	FT3063	177.19	FT3129	199.24
FT2010	77.67	FT2120	35.35	FT3064	77.67	FT3136	31.72
FT2012	44.42	FT2121	52.28	FT3065	92.79	FT3137	35.35
FT2013	1545.60	FT2122	58.02	FT3066	62.56	FT3138	35.04
FT2014	248.49	FT2123	41.09	FT3067	56.51	FT3139	30.81
FT2015	176.40	FT2124	38.97	FT3068	47.44	FT3143	114.56
FT2016	41.40	FT2128	54.70	FT3069	74.65	FT3144	77.67
FT2017	24.77	FT2129	35.35	FT3070	68.60	FT3145	198.19
FT2018	38.97	FT2130	218.40	FT3071	83.72	FT3146	103.98
FT2019	31.72	FT2131	1525.65	FT3072	59.53	FT3147	198.19
FT2020	25.07	FT2132	354.90	FT3073	56.51	FT3148	105.49
FT2021	689.59	FT2133	146.74	FT3074	95.91	FT3149	52.28
FT2022	31.10	FT3010	62.56	FT3075	68.60	FT3150	267.75
FT2029	40.49	FT3011	38.37	FT3076	62.56	FT3151	183.75
FT2030	31.72	FT3012	32.33	FT3077	62.56	FT3152	228.11
FT2031	68.00	FT3013	29.30	FT3078	29.30	FT3153	41.70
FT2032	24.77	FT3014	23.56	FT3079	71.63	FT3156	148.84
FT2033	28.50	FT3015	62.56	FT3080	47.44	FT3157	103.98
FT2034	83.72	FT3016	41.40	FT3081	80.70	FT3158	139.35
FT2036	25.67	FT3017	29.30	FT3082	56.51	FT3159	100.35
FT2037	1747.20	FT3018	26.28	FT3083	62.56	FT3160	29.91
FT2038	309.75	FT3019	29.30	FT3084	35.35	FT3163	40.79
FT2041	52.58	FT3020	32.33	FT3085	26.28	FT3164	495.08
FT2043	33.84	FT3021	35.35	FT3086	95.91	FT3165	39.88
FT2044	31.10	FT3022	199.24	FT3087	59.53	FT3166	191.63
FT2050	169.58	FT3023	29.30	FT3088	56.51	FT3167	29.30
FT2053	200.03	FT3024	47.44	FT3089	23.56	FT3171	398.14
FT2064	46.84	FT3025	32.33	FT3090	101.86	FT3172	455.96
FT2065	26.28	FT3026	47.44	FT3091	86.75	FT3176	24.17
FT2066	121.81	FT3027	29.30	FT3092	23.56		
FT2067	1664.25	FT3028	35.35	FT3093	2347.80		
FT2068	46.84	FT3029	38.37	FT3094	382.46		
FT2069	939.23	FT3030	35.35	FT3095	53.49	L0032200	13.39
FT2070	42.00	FT3031	32.33	FT3096	23.56	L0032600	13.39
FT2071	74.65	FT3032	35.35	FT3097	26.28	L0032700	13.39
FT2072	48.65	FT3033	35.35	FT3098	86.75	L0032800	13.39
FT2073	692.48	FT3035	281.93	FT3099	71.63	L0032900	13.39
FT2084	109.12	FT3037	32.33	FT3100	32.33	L0039000	46.46
FT2085	35.35	FT3038	448.35	FT3101	26.28	L0050300	13.39
FT2087	68.60	FT3039	38.37	FT3102	23.56	L0050400	13.39
FT2091	7.09	FT3040	23.56	FT3104	159.08	L0050700	13.39
FT2094	55.60	FT3041	23.56	FT3105	71.63	L0052500	23.36
FT2096	379.31	FT3042	23.56	FT3106	206.06	L0052601	52.50
FT2097	206.06	FT3043	23.56	FT3107	32.33	L0052602	52.50
FT2098	87.35	FT3044	23.56	FT3109	206.06	L0052603	52.50
FT2099	311.59	FT3045	23.56	FT3110	29.30	L0052604	65.63
FT2100	146.74	FT3046	465.94	FT3111	41.40	L0052605	65.63
FT2101	50.77	FT3047	80.70	FT3112	35.35	L0052606	65.63
FT2102	58.02	FT3048	71.63	FT3113	44.42	L0055900	7.35
FT2103	41.09	FT3049	504.79	FT3114	35.35	L0056500	41.48
FT2104	37.16	FT3050	448.35	FT3115	23.56	L0062900	8.40
FT2106	87.05	FT3051	71.63	FT3116	23.56	L0063000	16.54
FT2107	42.00	FT3052	65.58	FT3117	74.65	L0063300	72.45
FT2108	74.65	FT3053	116.98	FT3118	83.72	L0063402	113.40
FT2109	63.53	FT3054	68.60	FT3119	38.37	L0063403	138.86
FT2110	574.35	FT3055	35.35	FT3120	29.30	L0063404	113.40
FT2111	47.44	FT3056	23.86			L0063405	148.84
						L0063413	138.86

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L0063414	148.84	R0394914	89.25	R2000110	197.40	R2000413	96.86
L0063416	145.95	R0394915	89.25	R2000111	198.98	R2000414	96.86
L0063418	170.89	R0394916	89.25	R2000112	190.58	R2000415	105.00
L0063702	109.99	R0394917	89.25	R2000113	221.03	R2000416	105.00
L0063703	128.36	R0394918	89.25	R2000114	222.86	R2000417	104.21
L0063704	135.71	R0394919	89.25	R2000115	211.31	R2000418	104.21
		R0394920	89.25	R2000116	256.20	R2000419	112.88
		R0402001	2232.30	R2000117	259.09	R2000420	99.49
<b>P</b>		R0402002	2303.70	R2000118	242.55	R2000421	116.03
P0008300	8.93	R0402003	2377.20	R2000201	183.51	R2000422	116.03
P0014100	4.73	R0402004	2448.60	R2000202	206.33	R2000423	124.95
P0014400	5.51	R0402005	2811.90	R2000203	206.06	R2000424	105.79
P0014500	4.73	R0402006	3085.95	R2000204	206.06	R2000501	107.10
P0015100	7.88	R0402007	2199.75	R2000205	188.48	R2000502	107.63
P0019100	13.39	R0402008	2228.10	R2000206	210.53	R2000503	103.95
P0025300	21.26	R0402009	2299.50	R2000207	210.26	R2000504	118.65
P0026800	7.60	R0402010	2370.90	R2000208	210.26	R2000505	119.70
P0026900	14.14	R0402011	2732.10	R2000209	192.68	R2000506	114.71
P0029400	22.73	R0402012	3053.40	R2000210	214.73	R2000507	130.46
P0054900	15.23	R0407700	433.91	R2000211	214.20	R2000508	131.51
P2014800	21.53	R0409701	337.58	R2000212	214.20	R2000509	124.95
P2015400	34.65	R0409702	337.58	R2000213	196.88	R2000510	142.28
P2015900	5.25	R0409703	328.65	R2000214	218.93	R2000511	143.59
P2016900	15.18	R0409704	328.65	R2000215	218.14	R2000512	135.45
P2019200	50.14	R0409705	331.54	R2000216	218.14	R2000513	165.64
P2019500	35.96	R0409706	355.95	R2000217	203.96	R2000514	167.74
P2022100	35.58	R0560701	124.69	R2000218	226.01	R2000515	167.74
P2023801	153.56	R10-143	48.04	R2000219	226.01	R2000516	201.08
P2067603	17.06	R10907700	262.21	R2000220	212.63	R2000517	203.70
P2074500	24.94	R10907701	236.91	R2000221	215.78	R2000518	203.70
P2074600	55.13	R10907702	289.13	R2000222	238.09	R2000601	127.58
P2093100	15.49	R10956000	54.60	R2000223	238.09	R2000602	127.58
P2142900	23.28	R10D3005	62.21	R2000224	218.93	R2000603	136.24
P2143000	3.00	R10X2013	239.40	R2000301	308.70	R2000604	136.24
		R10X3032	98.70	R2000302	308.70	R2000605	138.86
<b>Q</b>		R10X3045	254.09	R2000303	308.70	R2000606	138.86
Q0068400	11.47	R12H7009	56.70	R2000304	312.38	R2000607	147.26
Q2016900	33.08	R12H7060	895.39	R2000305	312.38	R2000608	147.26
		R12H7061	895.39	R2000306	312.38	R2000609	150.15
<b>R</b>		R12X2013	247.80	R2000307	320.39	R2000610	150.15
R0021300	126.00	R12X3032	111.30	R2000308	320.39	R2000611	158.29
R0050801	70.55	R12X3045	268.07	R2000309	316.58	R2000612	158.29
R0059100	468.87	R1-581	37.37	R2000310	331.39	R2000613	161.44
R0060600	95.55	R1-592	19.16	R2000311	331.39	R2000614	161.44
R0061300	193.73	R15D1002	141.57	R2000312	321.30	R2000615	169.58
R0061400	98.18	R15D1004	60.64	R2000313	353.38	R2000616	169.58
R0061600	88.20	R15D1100	304.07	R2000314	353.38	R2000617	184.01
R0384700	1061.38	R15D3001	251.31	R2000315	341.25	R2000618	182.96
R0384800	1002.98	R15D3002	257.60	R2000316	386.38	R2000619	191.89
R0385000	527.97	R15D3102	60.38	R2000317	389.03	R2000620	217.88
R0385100	281.66	R15D3303	100.54	R2000318	372.23	R2000621	216.56
R0394901	89.25	R15X2013	256.46	R2000401	84.53	R2000622	225.23
R0394902	89.25	R15X3032	119.82	R2000402	84.53	R2004000	297.08
R0394903	89.25	R15X3045	277.10	R2000403	93.19	R2004100	297.08
R0394904	89.25	R2000101	162.23	R2000404	93.19	R2006100	84.53
R0394905	89.25	R2000102	162.75	R2000405	88.73	R2006600	331.01
R0394906	89.25	R2000103	159.60	R2000406	88.73	R2007700	96.60
R0394907	89.25	R2000104	174.04	R2000407	97.13	R2008400	353.85
R0394908	89.25	R2000105	174.83	R2000408	97.13	R2015000	83.74
R0394909	89.25	R2000106	169.84	R2000409	92.93	R2028001	170.36
R0394910	89.25	R2000107	185.85	R2000410	92.93	R2028002	178.50
R0394911	89.25	R2000108	186.90	R2000411	101.06	R2028003	151.99
R0394912	89.25	R2000109	180.34	R2000412	101.06	R2028200	458.59
R0394913	89.25						

<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>
R2061100	99.23	R30D3002	353.31	RA2112209	1071.00	<b>RL</b>	
R2069101	651.79	R30D3005	75.08	RA2112213	1562.40	RL2018401	354.90
R2069102	764.66	R30D3102	60.38	RA2112217	1228.50	RL2018402	415.01
R2069103	802.20	R30D3301	138.85	RA2112227	1015.88	RL2018403	434.44
R2069104	1114.05	R30D3302	113.66	RA2112228	1075.20	<b>RP</b>	
R2069105	1195.95	R30D3303	147.26	RA2112230	908.51	RP2051400	148.58
R2069200	82.95	R30D5013	55.91	RA2112232	349.39	RP2051500	172.73
R2069300	89.51	R3C3320	334.95	RA2112235	2680.65	RP2051700	115.50
R2069400	72.19	R3C4000	2875.66	RA2112236	2658.60	RP2052900	107.42
R2069600	429.71	R3C4100	1725.15	RA2113602	123.64	RP2053000	64.37
R2071601	132.56	R3C4120	2335.20	RA2113700	798.53	RP2056100	40.95
R2071602	118.13	R3C4300	3526.24	RA2114200	1239.00	RP2065600	238.09
R2072300	64.05	R3F4205	2875.66	RA2117803	274.58	RP2067100	40.43
R2072400	213.68	R3F4205W	2875.66	<b>RD</b>		<b>RS</b>	
R2072900	249.11	R3F4405	3526.24	RD0091101	59.85	RS2105500	4399.50
R2073200	75.86	R3F4405W	3526.24	RD0091205	65.63	RS2106900	3921.75
R2073903	20.35	R40D1001	129.26	RD0091206	41.74	RS2108400	213.41
R2073904	21.46	R4C3320	363.56	RD0091207	55.13	RS2108500	60.90
R2073909	35.18	R4C4000	3260.00	RD2010501	79.93	RS2108700	272.74
R2073914	40.95	R4C4100	2092.65	<b>RE</b>		RS2109100	104.74
R2073915	42.00	R4C4120	2953.65	RE0013000	333.38	RS2109400	30.45
R2073970	105.53	R4C4300	4155.72	RE0014400	266.48	RS2110900	5288.85
R2075500	36.56	R4F4205	3423.00	RE0084401	50.93	RS2111000	7791.00
R2075501	282.19	R4F4205W	3423.00	RE0093200	341.14	RS2111100	10902.15
R2076500	206.85	R4F4405	4155.72	RE0240900	79.80	RS2112801	211.84
R2076600	79.01	R4F4405W	4155.72	RE0254000	641.81	<b>RT</b>	
R2077501	2539.51	R50D1001	83.97	RE2058300	90.83	RT2109001	103.69
R2077503	1676.05	R50D1002	83.97	RE2071501	400.31	RTXD7108	760.53
R2080601	422.10	R50D1005	49.35	RE2071502	391.13	RTXD7109	789.78
R2080602	422.10	R50D1006	41.21	RE2071503	400.05	<b>RV</b>	
R2080604	422.10	R50D2021	101.59	RE2071503	400.05	RV2001900	1368.20
R2080605	422.10	R50D3003	90.60	RE2071504	457.54	RV2017900	390.79
R2080606	340.99	R50D3004	90.60	RE2071504	457.54	RV2017901	390.50
R2080607	340.99	R50D3101	204.34	RE2074400	83.72	RV2017902	384.51
R2080608	360.40	R50D3200	462.28	RE2076500	597.19	RV2017903	413.44
R2080609	340.99	R50D3204	65.10	RE2077700	170.63	RV2017904	701.89
R2080610	422.10	R50D4020	275.63	RE2310500	77.96	RV2030700	215.51
R2080611	422.10	R50D7001	153.30	RE2319700	92.40	<b>RW</b>	
R2080802	3102.75	R50D7002	49.35	RE2319800	99.75	RW2001800	262.98
R2080803	3085.95	R50D7003	53.81	RE2319900	90.83	RW2001900	265.11
R2081401	122.99	R50D7120	868.35	RE2320600	93.71	RW2002300	114.71
R2081402	112.09	R50D7408	406.61	RE2322700	81.38	RW2013300	60.11
R2086800	17.02	R50D7412	406.61	RE2333500	210.53	RW2013400	60.11
R20D3120	60.38	R50D7414	398.48	RE2333501	154.09	<b>RX</b>	
R20D3301	109.46	R5X2013	225.23	RE2334700	81.38	RXD7198	735.56
R20D3303	137.03	R5X3032	80.33	RE2334701	43.62	RXD7199	735.56
R20D4020	212.87	R5X3043	136.80	RE2337501	98.18	RXD7234	735.56
R20X2013	270.90	R5X3044	136.07	RE2337502	55.00	<b>S</b>	
R20X3032	147.91	R5X3045	236.25	RE2344300	341.25	S0070800	4.45
R20X3045	344.39	R60D3200	506.72	RE2344301	352.80	S0076400	44.36
R2C3320	313.43	R60D3203	522.55	RE2347200	460.49	S0076401	277.46
R2C4000	2570.07	R70-216	88.73	RE2347600	86.89	S0076500	13.91
R2C4100	1439.55	R7X2013	232.84	RE2347601	77.18	S0077700	69.56
R2C4120	1852.20	R7X3032	89.51	RE2351400	42.66	S2006600	3.15
R2C4300	2985.92	R7X3045	245.06	RE2353601	35.60	S2009300	3.15
R2F4205	2574.03	R8D3005	62.21	RE2354000	72.19	S2104300	13.91
R2F4205W	2574.03	R8D3102	60.38	RE23569001	577.24		
R2F4405	3022.95	<b>RA</b>		RE23569002	577.24		
R2F4405W	3022.95	RA0001200	158.03	RE23569003	610.31		
R30-227	25.74	RA0079000	113.14	RE2362400	179.55		
R30D1004	54.08	RA2107500	836.59	RE2370700	143.85		
R30D1100	355.64	RA2112201	1670.55				
R30D3001	347.02						

Effective March 21, 2022

<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>	<u>Part No.</u>	<u>List Price</u>
S2104400	8.40	<b>T</b>					
S2104500	7.61	T0021701	34.13				
S2104600	13.91	T0021702	33.67				
S2105400	6.83	T0021703	38.45				
S2112700	3.15	T0021704	41.15				
S2113800	4228.35	T0021705	72.45				
S2114000	4.46	T0021706	76.39				
S2114800	3.15	T0022001	17.67				
S2115100	3.15	T0022002	23.07				
S2115900	263.81	T0022003	24.46				
S2116000	3.15	T0022004	27.91				
S2116300	3.15	T0022605	46.99				
S2124500	3.15	T0022606	55.72				
S2125000	3.15	T0027200	14.44				
S2127300	9.98	T0027300	4.73				
S2127900	9.71	T2007701	22.88				
S2137800	3.15	T2007702	22.79				
S2138700	6.04	T2007703	28.00				
ST1001	65.58	T2007704	32.46				
ST1004	41.40	T2007705	46.70				
ST1006	95.91	T2007706	46.70				
ST1008	29.30	T2007801	27.26				
ST1011	53.49	T2007802	27.33				
ST1012	35.35	T2007803	35.72				
ST1014	47.44	T2007804	36.65				
ST1016	162.33	T2007805	48.49				
ST1019	29.30	T2007806	56.65				
ST1020	219.19	T2015808	80.33				
ST1021	107.91	T2015809	80.33				
ST1023	35.35	T2015810	80.33				
ST1024	47.44	T2108802	362.98				
ST1028	65.58	T2108803	413.67				
ST1029	2355.15	T2108804	491.91				
ST1030	79.73						
ST1031	35.35	<b>V</b>					
ST1032	34.93	V0077500	279.04				
ST1033	109.72	V0079100	421.84				
ST1034	42.60	V0079400	162.46				
ST1036	390.34	V0079500	346.68				
ST1037	174.42	V2015100	13.30				
ST1038	26.28	V2022700	197.66				
ST1039	192.56	V2033100	292.95				
ST1040	29.30						
ST1041	29.30	<b>W</b>					
ST1042	373.28	W0036500	33.08				
ST1044	29.30	W0039600	69.04				
ST1045	47.44	W0040900	113.68				
ST1047	29.30	W0040901	96.60				
ST1048	162.27	W0040902	132.80				
ST1050	219.19	W2001700	12.45				
ST1051	35.35	W2002200	12.39				
ST1052	29.30	W2014200	55.13				
ST1056	71.63	W2014300	63.00				
ST1060	308.18	W2016400	13.13				
ST1061	174.42						
ST1062	29.30						
ST1069	41.40						
ST1070	41.40						
ST1073	47.44						
ST1076	1206.45						
ST1077	83.72						
ST1079	35.35						



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