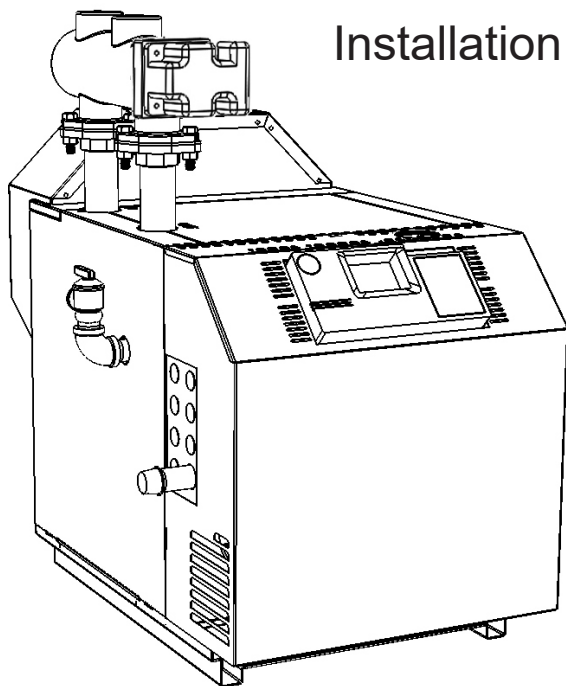




Installation and Operation Instructions for

MINI-THERM® JX

Residential Gas-Fired Hydronic Boilers

Sizes 50-200 MBTU/h

FOR YOUR SAFETY: This product must be installed and serviced by a professional service technician, qualified in hot water boiler and heater installation and maintenance. Improper installation and/or operation could create carbon monoxide gas in flue gases which could cause serious injury, property damage, or death. Improper installation and/or operation will void the warranty.

⚠ WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a nearby phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency, or gas supplier.

⚠ AVERTISSEMENT

Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

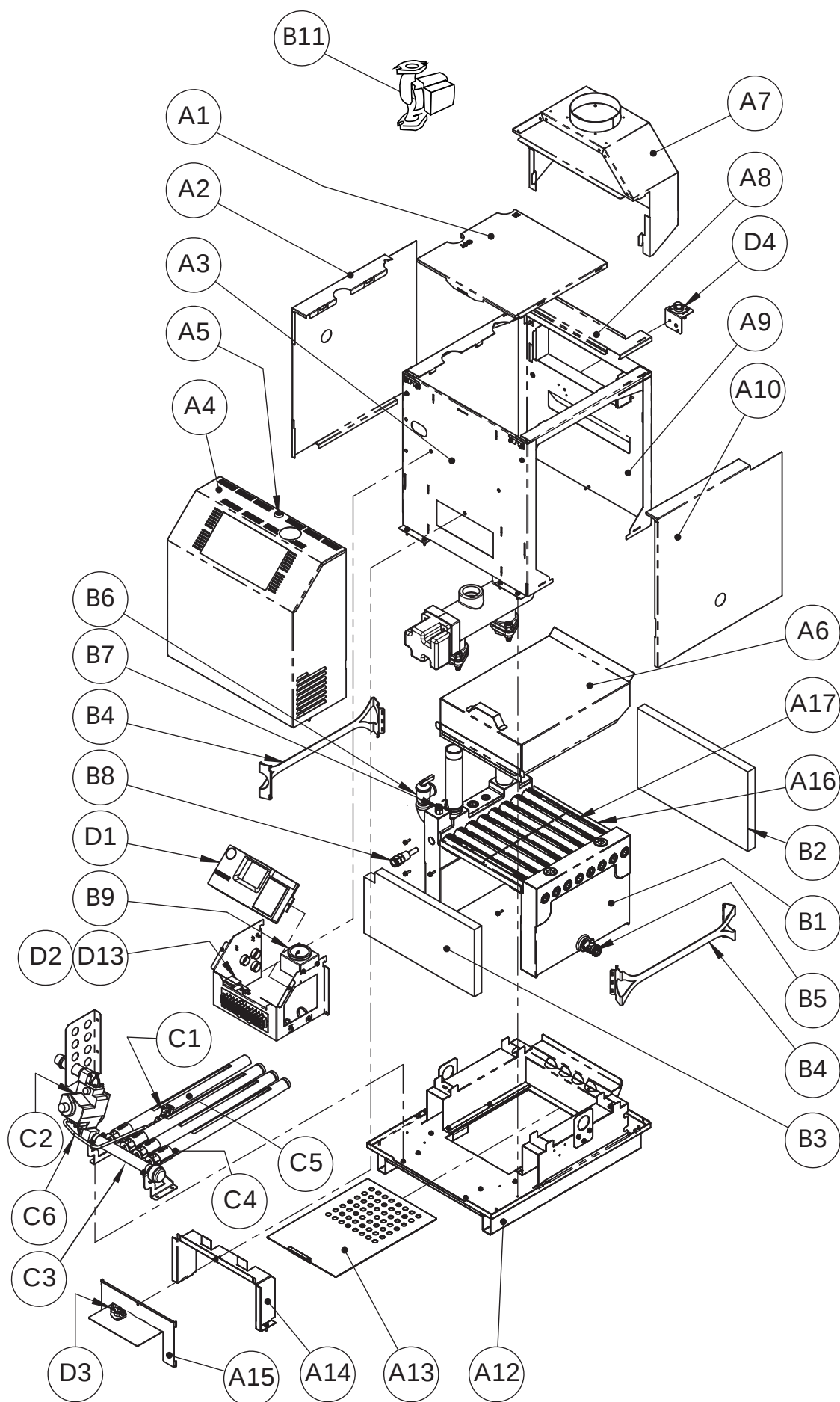
- Ne pas tenter d'allumer d'appareils.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones dans le bâtiment où vous êtes.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

SECTION 12 REPLACEMENT PARTS

12.A Parts List

		50	75	100	125	150	200
A	<u>Jacket Components</u>						
A1	Panel, Top, Front	R5X3032	R7X3032	R10X3032	R12X3032	R15X3032	R20X3032
A2	Panel, Left Side	R5X3043	R5X3043	R5X3043	R5X3043	R5X3043	R5X3043
A3	Panel, Front	5X3038	7X3038	10X3038	12X3038	15X3038	20X3038
A4	Front Cover	R5X3045	R7X3045	R10X3045	R12X3045	R15X3045	R20X3045
A5	Latch, Slot, Quarter Turn Assy	R2086800	R2086800	R2086800	R2086800	R2086800	R2086800
A6	Flue Collector	R5X3019	R7X3019	R10X3019	R12X3019	R15X3019	R20X3019
A7	Draft Diverter Assembly	R5X3030	R7X3030	R10X3030	R12X3030	R15X3030	R20X3030
A8	Panel, Top, Rear	R5X3031	R7X3031	R10X3031	R12X3031	R15X3031	R20X3051
A9	Panel, Rear	R5X3037	R7X3037	R10X3037	R12X3037	R15X3037	R20X3037
A10	Panel, Right Side	R5X3044	R5X3044	R5X3044	R5X3044	R5X3044	R5X3044
	Base Assy (includes A12,A13 and A14)	5X1000	7X1000	10X1000	12X1000	15X1000	20X1000
A12	Base Assy, HX Support	-	-	-	-	-	-
A13	Baffle, Base Panel	-	-	-	-	-	-
A14	Tunnel, Burner	-	-	-	-	-	-
A15	Burner-Bank Cover Assembly	R5X5004	R7X5004	R10X5004	R12X5004	R15X5004	R20X5004
	Baffle Kit (Includes A16, A17 and retainer)	R2087901	R2087902	R2087903	R2087904	R2087905	R2087906
A16	Front and Rear Baffle and Tile cover (2)	5X2020	7X2020	10X2020	12X2020	15X2020	20X2020
A17	Baffle, Heat Exchanger (7)	5X2012	7X2012	10X2012	12X2012	15X2012	20X2012
B	<u>Water System</u>						
B1	Heat Exchanger	R5X2000	R7X2000	R10X2000	R12X2000	R15X2000	R20X2000
	Tile Set includes B2,B3 and B4	R5X2013	R7X2013	R10X2013	R12X2013	R15X2013	R20X2013
B2	Refractory, Tile, Rear	-	-	-	-	-	-
B3	Refractory, Tile, Front	-	-	-	-	-	-
B4	Clamp, Spring, Tile	-	-	-	-	-	-
B5	Valve, Drain, 3/4"	227-48070-01	227-48070-01	227-48070-01	227-48070-01	227-48070-01	227-48070-01
B6	Valve, PRV, 30 PSI	1-054	1-054	1-054	1-054	1-054	1-054
B7	Adapter 1/4" NPT x 1/8" BSP	P2148200	P2148200	P2148200	P2148200	P2148200	P2148200
	Washer for Gauge Adapter	P2148300	P2148300	P2148300	P2148300	P2148300	P2148300
B8	Well,Immersion,1/2 NPT,extra short	E2402900	E2402900	E2402900	E2402900	E2402900	E2402900
B9	Pressure Gauge,Remote	R2087700	R2087700	R2087700	R2087700	R2087700	R2087700
B10	Low Loss Header Assembly	-	-	-	R5X205001	R5X205001	R5X205001
	Pump, Circulator	A2136500	A2136500	A2136500	A2136500	A2136500	A2136500
	Diverter Sub Assembly	5X207202	5X207202	5X207202	5X207201	5X207201	5X207201
	O-Ring (Pump)	S2138700	S2138700	S2138700	S2138700	S2138700	S2138700
	Seal (Flange)	S2137800	S2137800	S2137800	S2137800	S2137800	S2137800
B11	Replacement Pump	RA2112221	RA2112221	RA2112221	N/A	N/A	N/A
C	<u>Gas System</u>						
	Pilot Assembly (Natural)	R0061600	R0061600	R0061600	R0061600	R0061600	R0061600
	Pilot orifice (LP) 0 - 10,000'	W2001700	W2001700	W2001700	W2001700	W2001700	W2001700
	Pilot orifice (Nat) 0-2000'	W2016400	W2016400	W2016400	W2016400	W2016400	W2016400
	Pilot orifice (Nat) 2001-10,000'	W2002200	W2002200	W2002200	W2002200	W2002200	W2002200
C2	Main Gas Valves						
	Gas Valve, (Natural)	RV2030700	RV2030700	RV2030700	RV2030700	RV2030700	RV2030700
	Gas Valve, Regulator Spring(LP)	V2015100	V2015100	V2015100	V2015100	V2015100	V2015100
C3	Gas Manifold Replacement Kit	R2088501	R2088502	R2088503	R2088504	R2088505	R2088506
C4	Burner, Main and Orifices						
	Burner, Main	L0052500	L0052500	L0052500	L0052500	L0052500	L0052500
	Air Shutter, Burner	L0055900	L0055900	L0055900	L0055900	L0055900	L0055900



Parts List (continued)

		50	75	100	125	150	200
Main Gas Orifice (not shown) Note: For complete conversion kits (LP or Nat all altitudes available) see accessory section.							
Natural Gas	0 -2000'	L0032200	L0032200	L0032200	L0032200	L0032200	L0032200
	2001'-5000'	L0050700	L0050700	L0050700	L0050700	L0050700	L0050700
	5001'-8000'	L0032600	L0032600	L0032600	L0032600	L0032600	L0032600
	8001'-10000'	L0050300	L0050300	L0050300	L0050300	L0050300	L0050300
Propane	0 -2000'	L0039000	L0039000	L0039000	L0039000	L0039000	L0039000
	2001'-5000'	L0032900	L0032900	L0032900	L0032900	L0032900	L0032900
	5001'-8000'	L0032800	L0032800	L0032800	L0032800	L0032800	L0032800
	8001'-10000'	L0032700	L0032700	L0032700	L0032700	L0032700	L0032700
C5	Burner W/Pilot Bracket	L0056500	L0056500	L0056500	L0056500	L0056500	L0056500
C6	Tube, Pilot	5X5002	5X5002	5X5002	5X5002	5X5002	5X5002
D	<u>Electrical System</u>						
D1	Controller w/ limit sensor 24"	R2087800	R2087800	R2087800	R2087800	R2087800	R2087800
	Limit Sensor 24"	E2407200	E2407200	E2407200	E2407200	E2407200	E2407200
D2	Transformer 115/24V (40VA)	R0021300	R0021300	R0021300	R0021300	R0021300	R0021300
D3	Roll-Out Switch, Man. Reset, 250F SPST	E2103200	E2103200	E2103200	E2103200	E2103200	E2103200
D4	Blocked Vent Safety Switch	R2061100	R2061100	R2061100	R2061100	R2061100	R2061100
D5	Circuit Breaker, 2 AMP, Panel Mount	E2335100	E2335100	E2335100	E2335100	E2335100	E2335100
D6	Terminal Block Finger Guard	E2402100	E2402100	E2402100	E2402100	E2402100	E2402100
	<u>Wiring Harnesses (not shown)</u>						
	Low Voltage Harness (TB1 & damper)	E2403400	E2403400	E2403400	E2403400	E2403400	E2403400
	X1 Connector Harness (Safety Chain)	E2402700	E2402700	E2402700	E2402700	E2402700	E2402700
	LLH Pump Harness	-	-	20071500	E2402800	E2402800	E2402800
	Pump Kit Harness	20071500	20071500	-	-	-	-
	High Voltage Harness	E2402600	E2402600	E2402600	E2402600	E2402600	E2402600
	Hi-Tension Ignition Lead	E2407000	E2407000	E2407000	E2407000	E2407000	E2407000
	Vent Damper Assembly (not shown)	RE2071501	RE2071502	RE2071502	RE2071503	RE2071503	RE2071504

12.B Accessories List

	50	75	100	125	150	200
DHW Relay Kit	CA019400	CA019400	CA019400	CA019400	CA019400	CA019400
Relay, 24VAC, DTD	E2327800	E2327800	E2327800	E2327800	E2327800	E2327800
DHW Harness	E2404200	E2404200	E2404200	E2404200	E2404200	E2404200
Terminal Block Finger Guard	E2402100	E2402100	E2402100	E2402100	E2402100	E2402100
Outdoor Sensor	CA005400	CA005400	CA005400	CA005400	CA005400	CA005400
Power Vent Kits	CA019501	CA019501	CA019501	CA019502	CA019502	CA019502
Low Loss Header Kit for 50/75/100	CA019600	CA019600	CA019600	-	-	-
Conversion Kits						
LP 0- 2,000'	CA019901	CA019905	CA019909	CA019913	CA019917	CA019921
LP 2,001-5,000'	CA019902	CA019906	CA019910	CA019914	CA019918	CA019922
LP 5,001-8,000'	CA019903	CA019907	CA019911	CA019915	CA019919	CA019923
LP 8,001-10,000'	CA019904	CA019908	CA019912	CA019916	CA019920	CA019924
Nat 0- 2,000'	CA020001	CA020005	CA020009	CA020013	CA020017	CA020021
Nat 2,001-5,000'	CA020002	CA020006	CA020010	CA020014	CA020018	CA020022
Nat 5,001-8,000'	CA020003	CA020007	CA020011	CA020015	CA020019	CA020023
Nat 8,001-10,000'	CA020004	CA020008	CA020012	CA020016	CA020020	CA020024

