



Commercial Water Heaters



Medium Duty – 3-Year Warranty

Medium duty gas commercial water heaters feature a compact design for greater installation flexibility in tight retrofit applications



Features and Benefits

The tighter the commercial retrofit, the more you will appreciate how this water heater's compact size simplifies installations. Choose from 80% Thermal Efficiency models that range from 45,000 - 80,000 Btu/h and have a maximum temperature setting of 160 degrees F.

Space Saver Design

Short heights and narrow jacket diameters offer the ultimate in installation flexibility.

Patented Technology

Proprietary steel formulation with a unique coat of high temperature porcelain enamel to maximize corrosion resistance resulting in a superior tank design.

Patented Anode Rods

Magnesium anode rods are used to ensure corrosion resistance for a long tank life.

Efficiency

Rigid foam insulation provides superior insulating qualities, improves efficiency and reduces operating costs. Our patented process of injecting foam into the insulating cavity adds additional durability.

Automatic Controls

Control system is designed to shut off gas if the pilot flame is extinguished. Relighting is a safe, easy procedure. Thermostat settings to 160°F. A built-in gas pressure regulator assures even gas flow.

Efficiency

Rigid foam insulation provides superior insulating qualities, improves efficiency and reduces operating costs. Our patented process of injecting foam into the insulating cavity adds additional durability.

CSA/ASME Rated T&P Valve

Factory installed relief valve

Full Port, Full Flow Brass Drain Valve

Factory installed brass drain valve allows for faster draining and servicing.

Warranty

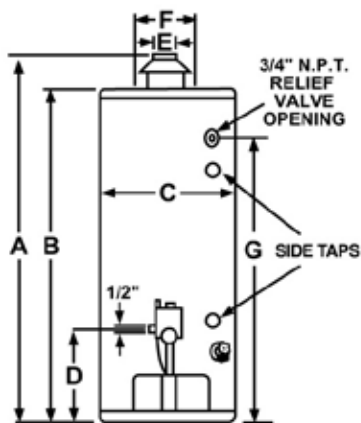
3-Year limited tank warranty

See Commercial Warranty Certificate for complete information

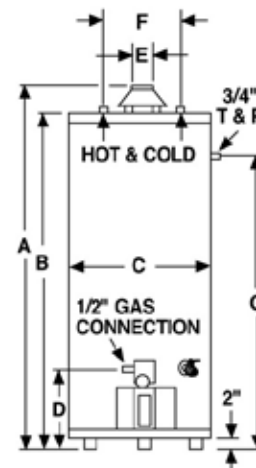
Efficiency – These models have been tested according to DOE test procedures, and meet or exceed the thermal efficiency and standby loss requirements of current ASHRAE standards (Part of the Federally mandated Energy Policy Act (EPAct)). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction – These products are design certified by CSA Laboratories: a) For operation at 160°F. b) To meet all safety and construction requirements of ANSI Z21.10.1/ANSI Z21.10.3. c) As an automatic storage water heater. d) For operation of combustible floors and alcove installations. e) For combination water heating and space heating applications. All models are North Carolina and Massachusetts Code compliant. Certified for 150 PSI maximum working pressure.

G50-65, G60-50, G65-65,
G75-75 & G100-65
Side taps on 48, 63, 75 & 98 gallon
models only



G100-80
water connections
are 1" NPT



Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities Rise Gallons/Hour			A	B	C	D	E	F	G	Clearance to Combustibles			Code Number
				80°	100°	130°								Side	Front	Top	
G75-75N-2	75	75,100	125	91	73	56	64	60	26-1/4	13-1/4	4	11	53-1/4	1	3	2	310-3200
G100-80	100	80,000	148	97	78	60	69-5/8	65-3/4	28-1/4	11	4	15	57-13/16	1	Alcove	12	310-3280



RESERVED



Universal Gas

Universal™ is a family of commercial gas water heaters that are designed to fit into tight retrofit applications



Features and Benefits

The tighter the commercial retrofit, the more you will appreciate how the Universal's compact size and multiple water connections simplify installations. Choose from 80% thermal efficiency models that range from 98,000-399,900 Btu/h and have maximum temperature setting of 180 degrees Fahrenheit.

Space Saver Design

The short heights and narrow jacket diameters, plus the top, front and rear water inlets/outlets offer the ultimate in installation flexibility.

System Sentinel™ LED Diagnostic System

Our exclusive diagnostic system, with glowing LED lights, verifies system operation sequence by sequence.

Patented Technology

Universal's proprietary steel formulation, patented multi-flue design, combined with two coats of porcelain enamel, results in a superior heat exchanger design.

Stainless Steel Burners

Precision burners, raised port design, are formed from high chromium stain - less steel. Each burner assembly slides out like a drawer for quick inspection and maintenance.

Low Profile Automatic Flue Damper

Low profile damper minimizes overall product height. Heavy duty vent hood supports are designed to withstand the rigors of installation.

Full-port, Full-flow Drain Valve

Factory installed brass drain valve allows for faster draining and servicing.

Direct Spark-to-Pilot Ignition System

Energy saving ignition that ignites pilot only when there is a call for heat.

Altitude Certifications

Up to 5,000 feet for natural gas and 2,000 feet for LP.

Patented Anode Rods

Anode design utilizes multiple magnesium rods to ensure corrosion resistance for a long tank life.

Warranty

3-Year limited tank warranty

See Commercial Warranty Certificate for complete information

Efficiency | All models tested according to ANSI test procedures, and meet or exceed the thermal efficiency and standby loss requirements of ASHRAE standard (EPact). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | Design certified by CSA: For operation at 180 degrees; meets all safety and construction requirement of ANSI Z21.10.3; as an automatic storage or instantaneous water heater; as an automatic circulating tank water heater; and for operation on combustible floors and in alcove installations. Certified for 150 PSI maximum working pressure (160 PSI for ASME models).

Optional Construction | ASME construction is available on designated models. UL Sanitation (NSF5) compliant models are available when equipped with optional seal kit (Part No. AM35450).

Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities Rise Gallons/Hour			A	B	C	D	E	F	G	Clearance to Combustibles			Code Number
				80°	100°	130°								Side	Front	Top	
G75-75N-2	75	75,100	125	91	73	56	64	60	26-1/4	13-1/4	4	11	53-1/4	1	3	2	310-3200
G100-80	100	80,000	148	97	78	60	69-5/8	65-3/4	28-1/4	11	4	15	57-13/16	1	Alcove	12	310-3280
Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities Rise Gallons/Hour			A	B	C	D	E	F	G	Water Connections Combustibles			Code Number
				80°	100°	130°								Side	Front	Top	
G75-75N-2	75	75,100	125	91	73	56	64	60	26-1/4	13-1/4	4	11	53-1/4	1	3	2	310-3200

See page 314-4 for models and fit charts



Medium Duty Gas

Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities			A	B	C	D	E
				80° Rise	100° Gallons/Hour	130°					
G75-75N-2	75	75,100	125	91	73	56	64	60	26-1/4	13-1/4	4
G100-80	100	80,000	148	97	78	60	69-5/8	65-3/4	28-1/4	11	4

AdvantagePlus

Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities			A	B	C	D	E
				80° Rise	100° Gallons/Hour	140°					
HE80-130	80	130,000	206	187	150	N/A	72	23-1/2	32	65	5
HE119-199	119	199,000	312	286	229	N/A	73	27	36	66-3/4	6-3/4

Universal Gas

Model Number	Capacity	Input Btu/Hr Nat & LP	Temp 100° Rise/Hr.	Recovery Capacities			A	B	C	D	E
				80° Rise	100° Gallons/Hour	140°					
G50-98	50	98,000	130	119	106	68	62-3/4	57-1/8	22-1/2	22-5/8	5
G75-125	75	125,000	174	152	121	87	65-1/2	61	26-1/4	25	5
G82-156	82	156,000	209	189	151	108	68-13/16	64	26-1/4	25	6
G76-180	76	180,000	228	218	175	125	68-13/16	64	26-1/4	25	6
G37-200	35	199,900	214	242	194	138	49-1/4	43-3/8	26-1/4	25	6
G76-200	76	199,900	247	242	194	138	68-13/16	64	26-1/4	25	6
G91-200	91	199,900	258	242	194	138	76-5/16	71-13/16	26-1/4	30-5/8	6
G100-200	100	199,900	264	242	194	138	73-1/16	66-1/8	30-1/4	23-1/4	6
G72-250*	72	250,000	293	303	242	173	71-1/16	64-1/2	26-1/4	25	8
G100-250*	100	250,000	312	303	242	173	73-1/4	66-1/8	30-1/4	23-1/4	6
G100-270*	100	270,000	332	327	262	187	73-7/8	66-1/8	30-1/4	23-1/4	6
G72-300*	72	300,000	341	364	291	208	71	64-1/8	26-1/4	25	6
G85-300*	85	300,000	355	364	291	208	78-7/16	72-5/16	26-1/4	30-5/8	8
G100-310*	100	310,000	371	376	301	215	75	68-1/2	30-1/4	32-1/4	7
G65-360*	65	360,000	395	436	349	249	70-11/16	64-1/2	26-1/4	25	8
G65-400*	65	399,900	433	485	388	277	70-11/16	64-1/2	26-1/4	25	8
G85-400*	85	399,900	447	485	388	277	78-13/16	72-5/16	26-1/4	30-5/8	10
G100-400*	100	399,900	458	485	388	277	76	68-1/2	30-1/4	32-1/4	8

All Models Require a 120V Power Source/0.3 amps.

* Indicates ASME Tank Construction Available. Add "A" to Model Number (e.g., G72-250A)

MISCELLANEOUS ACCESSORIES

Code Number

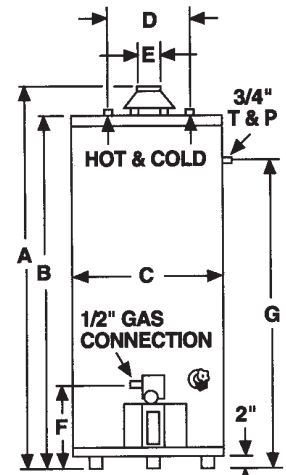
AS35450	Leg extension kit for UL Sanitation (NSF Standard) Approval for models: G50-98, G75-125, G82-156, G37-160, G76-180, G76-200, G91-200, G100-200, G72-250 (A), G100-270 (A), G72-300 (A), G91-300(A), G100-310(A), G65-360(A), G65-400(A), G85-400(A), G100-400(A), G77-500(A) AND G77-600(A)	310-8000
AS39113	Leg extension kit for UL Sanitation (NSF Standard) Approval for Models: G50-60, G75-75, G100-75	310-8005
AS42690B	Seal Kit	310-8010
AS42690C	Assembly Sanitation Seal Kit	310-8020



Model Number	F	G	Clearance to Combustibles			Code Number
			Side	Front	Top	
G75-75N-2	11	53-1/4	1	3	2	310-3200
G100-75	15	57-13/16	1	Alcove	12	310-3280

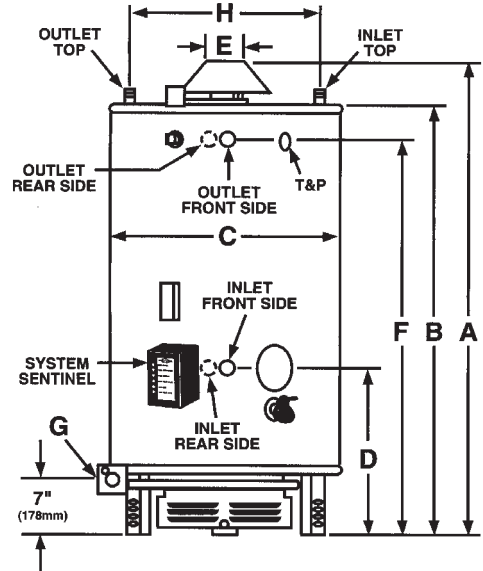
Model Number	F	G	H	Vent	Water Connections		Code Number
					Front Side	Rear Side	
HE80-130	25-1/4	20-1/4	7-3/4	3*	1-1/2	1-1/2	
HE119-199	28-7/8	22	9-1/2	3*	1-1/2	1-1/2	

Model Number	F	G	H	Water Connections			Code Number
				Top In/Out	Front Side	Rear Side	
G50-98	50-1/2	1/2	15	1	1-1/2	1-1/2	
G75-125	56	3/4	20	1-1/2	1-1/2	1-1/2	310-3400
G82-156	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	310-3500
G76-180	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	
G37-200	37-5/8	3/4	20	1-1/2	1-1/2	1-1/2	
G76-200	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	310-3800
G91-200	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	310-4100
G100-200	57-1/2	3/4	23	1-1/2	2	2	310-4000
G72-250*	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	310-3900
G100-250*	57-1/2	3/4	23	1-1/2	2	2	
G100-270*	57-1/2	3/4	23	1-1/2	2	2	310-4200
G72-300*	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	310-4400
G85-300*	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	
G100-310*	61-3/4	3/4	23	1-1/2	2	2	
G85-360*	58-5/8	3/4	n/a	n/a	1-1/2	1-1/2	310-4500
G65-400*	58-5/8	3/4	n/a	n/a	1-1/2	1-1/2	
G85-400*	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	
G100-400*	61-3/4	1	23	1-1/2	2	2	

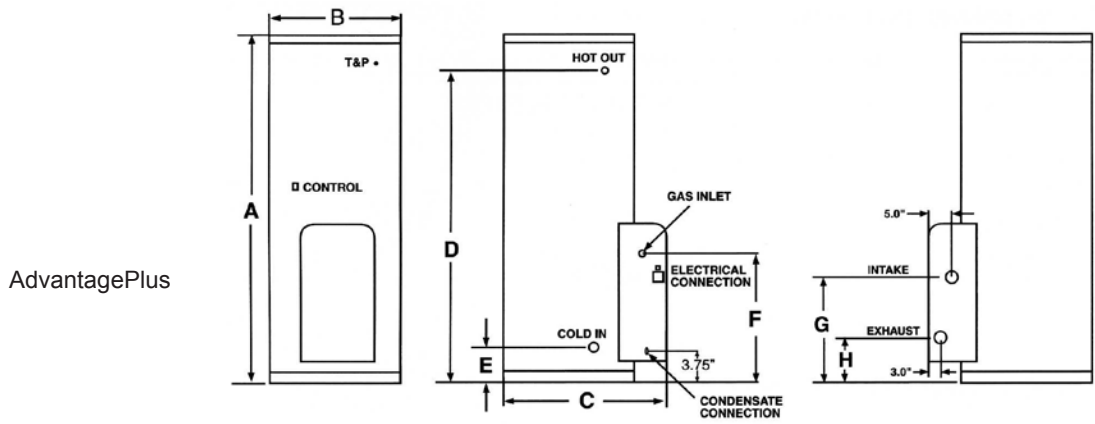


G50-60N WATER CONNECTIONS ARE 3/4" NPT
 G75-75 & G100-75 WATER CONNECTIONS ARE 1" NPT

Light Duty Gas



Universal Gas





SPIDERfire – 3-Year Warranty

SPIDERfire is a family of ultra high efficiency commercial gas water heaters with up to a 97 percent thermal efficiency.



Construction Features:

- **Features & Benefits** - The advanced line of 80 and 100-gallon Rheem SPIDERfire condensing water heaters offers breakthrough technology. It provides up to 97% thermal efficiency. The patented heat transfer system dramatically cuts fuel costs and is built to last. Models are available that range from 130,000-399,900 Btu/h, with a maximum temperature setting of 185 degrees.
- **Smart LCD Control System** - The new diagnostic system is standard on all SPIDERfire models. It enables installers and service technicians to monitor key functions and components. It includes a scrollable, operational history.
- **Innovative Technology** - The heart of the SPIDERfire is its patented multi-leg, triple pass heat exchanger. The system is engineered as a ‘wet base’ design wherein the entire heat exchanger is submerged. That eliminates hot spots found in some other fully condensing water heaters. When hot spots are eliminated, the life of the product is extended and efficiency is maximized. These products are built to last.
- **Faster, Less Costly Venting** - All models vent with standard -2”, -3”, -4”, or -6” diameter PVC plastic pipe. SPIDERfire’s built-in exhaust riser vents at the top and eliminates the need to construct a side riser.
- **Power or Power Direct Vent** - It can be installed as a power-vented product; or as a power direct-vented product – the latter for negative air pressure or if indoor air quality is a concern.
- **Corrosion Protection** - Three-pass heat exchanger tubes are coated inside and out with a specially formulated porcelain enamel designed to protect against condensation.
- **Multiple Water Connections** - Hot and cold water Inlets and outlets on both sides of the unit; 2” NPT high-flow connections.
- **Full-port, Full-flow Drain Valve** - Factory installed brass drain valve allows for faster draining and servicing.
- **Advanced Burner Design** - Latest models have increased burner surface area for ultra smooth ignition and quiet operation
- **Direct Spark Ignition System** - Energy saving ignition that ignites pilot only when there is a call for heat.
- **CSA/ASME Rated T&P Valve** - Factory installed relief valve
- **Warranty** - 3-Year limited tank warranty, upgradeable to 5 years
See Commercial Warranty Certificate for complete information.

Gal. Cap.	Model #	Input (BTU/H) Nat. & LP	Thermal Efficiency	Code #
80	GHE80ES-130(A)	130,000	0.97	310-3155
80	GHE80ES-150(A)	150,000	0.94	
80	GHE80ES-200(A)	199,000	0.94	310-3165
80	GHE80ES-250(A)	250,000	0.95	
80	GHE80ES-300(A)	300,000	0.94	
100	GHE100ES-130(A)	130,000	0.95	
100	GHE100ES-160(A)	160,000	0.95	
100	GHE100ES-200(A)	199,000	0.95	310-3122
100	GHE100ES-250(A)	250,000	0.95	
100	GHE100ES-300(A)	300,000	0.94	
100	GHE100ES-350(A)	350,000	0.94	
100	GHE100ES-400(A)	399,900	0.94	



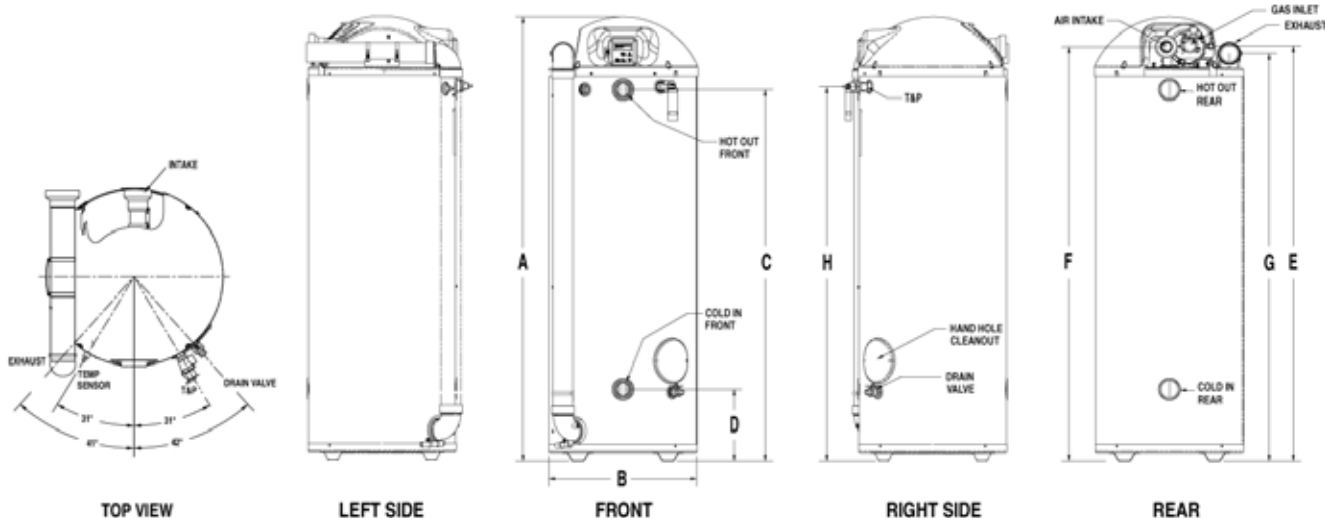
SPIDERfire



DIMENSIONAL INFORMATION													
All dimensions shown in English and Metric													
MODEL NUMBER	UNITS	A	B	C	D	E	F	G	H	VENT	WATER CONN.		APPROX. SHIP. WT. (LB)*
											INLET	OUTLET	
GHE80ES-130(A)	inches	69-5/8	26-1/4	66-1/8	12-3/4	64-5/8	64-13/16	62-13/16	66-5/8	2", 3", 4"	2" NPT	2" NPT	725
	mm	1768	667	1680	324	1641	1646	1595	1692				
GHE80ES-150(A)	inches	69-5/8	26-1/4	66-1/8	12-3/4	64-5/8	64-13/16	62-13/16	66-5/8	2", 3", 4"	2" NPT	2" NPT	725
	mm	1768	667	1680	324	1641	1646	1621	1692				
GHE80ES-200(A)	inches	69-5/8	26-1/4	66-1/8	12-3/4	64-5/8	64-13/16	62-13/16	66-5/8	2", 3", 4"	2" NPT	2" NPT	745
	mm	1768	667	1680	324	1641	1646	1621	1692				
GHE80ES-250(A)	inches	69-5/8	26-1/4	66-1/8	12-3/4	64-5/8	64-13/16	62-13/16	66-5/8	3", 4"	2" NPT	2" NPT	745
	mm	1768	667	1680	324	1641	1646	1621	1692				
GHE80ES-300(A)	inches	69-5/8	26-1/4	66-1/8	12-3/4	64-5/8	64-13/16	62-13/16	66-5/8	3", 4", 6"	2" NPT	2" NPT	745
	mm	1768	667	1680	324	1641	1646	1621	1692				
GHE100ES-130(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	2", 3", 4"	2" NPT	2" NPT	765
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-160(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	2", 3", 4"	2" NPT	2" NPT	765
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-200(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	2", 3", 4"	2" NPT	2" NPT	765
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-250(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	3", 4"	2" NPT	2" NPT	795
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-300(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	3", 4", 6"	2" NPT	2" NPT	795
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-350(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	3", 4", 6"	2" NPT	2" NPT	800
	mm	2001	667	1674	324	1873	1869	1829	1687				
GHE100ES-400(A)	inches	78-3/4	26-1/4†	66	12-3/4	73-3/4	73-5/8	72	66-7/16	3", 4", 6"	2" NPT	2" NPT	800
	mm	2001	667	1674	324	1873	1869	1829	1687				

*Weights listed are for non-ASME. Add 35 lbs. for ASME models.
 130,000 - 199,000 Btu/h models are certified to be installed with 2" venting.
 All models require a 120V power source.
 Input rates 130-199: 1/2" gas inlet. Input rates 250-400: 3/4" gas inlet.
 See use and care manual for venting details.
 † Overall width is 27-5/16" due to exhaust cover.

0" CLEARANCE TO ALL COMBUSTIBLE SURFACES ON SIDES; 6" TOP CLEARANCE FOR 130 TO 300 MODELS; 8" FOR 350 TO 400 MODELS.
 MODELS WITH INPUTS OF 130,000 BTU/H THRU 199,000 BTU/H ARE CERTIFIED TO VENT WITH 2" SCHEDULE 40 PVC, CPVC OR ABS PIPE.





Therm-X-Guard Thermal Expansion Tanks



Available in 2, 4.4 and 10.3 Gallon Models

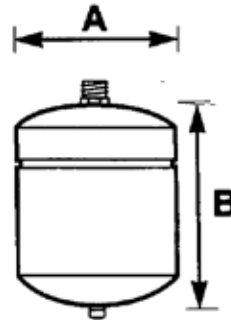
Eliminates problems associated with thermal expansion in closed loop systems

Helps protect water heater and plumbing fixture from premature failure.

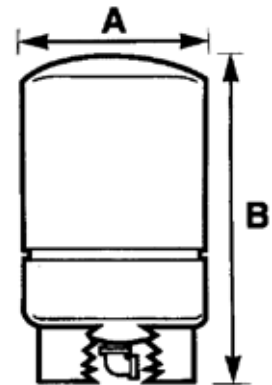
Suitable with water heaters up to 120 gallon capacity and supply pressure to 80 P.S.I.

Standard Factory pre-charge	40PSIG
System Connection	Brass
Diaphragm Material	Butyl Rubber
Liner Material	Polypropylene

Maximum Operating Conditions	
Operating Temperature	200° Temp



MODELS:
RRT-5
RRT-12



MODEL:
RRT-25

Model Number	Maximum Working Pressure PSIG	(Vt) Total Volume Gallons	Diameter (A)	Height (B)	System Connection	Code Number
RRT-5	150	2.0	8"	12-5/8"	3/4" NPTM	380-3850
RRT-12	150	4.4	11"	15"	3/4" NPTM	380-3860
RRT-25	150	10.3	15-3/8"	15-1/4"	1" NPTF	380-3870

Water Heater Gallons	Supply Pressure (PSIG)										
	30	35	40	45	50	55	60	65	70	75	80
20											
30											
40			Model RRT-5								
50											
80											
100					Model RRT-12						
120									Model RRT-25		