

# Essential<sup>®</sup>

Essential Atmospheric gas water heaters are engineered for more hot water at a low operating cost

## EFFICIENCY

- .58 - .65 UEF
- More hot water at a low operating cost

## PERFORMANCE

- FHR: 51 to 105 gallons
- Recovery: 30.3 to 61 GPH at a 90° F rise, depending on model

## FLAMMABLE VAPOR DETECTION SYSTEM

- Exclusive air/fuel shut-off device for double protection
- Maintenance free – no filter to clean
- Disables the heater in the presence of flammable vapor accumulation

## LOW EMISSIONS

- Eco-friendly burner, low NOx design
- Meets 40 ng/J NOx requirements

## ALTITUDE CERTIFICATION

- All models certified up to 5,999 ft. above sea level, some certified up to 10,200 ft.

## PLUS...

- Side water connections for space heating applications **available on select models**
- Easy to light – no matches required
- Quality anode rod helps protect against tank corrosion
- Low lead compliant
- Temperature and pressure relief valve included
- Factory installed top temperature & pressure relief valve available on select models\*\*
- Standard replacement parts

## WARRANTY

- 6-Year limited tank and parts warranty\*

\*See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



*Essential  
Atmospheric*  
29, 30, 40, 48, 50 and  
55-Gallon Capacities  
Up to 60,000 BTU/h  
Natural and LP Gas



\*LEED Point = 1

See specifications chart on back.

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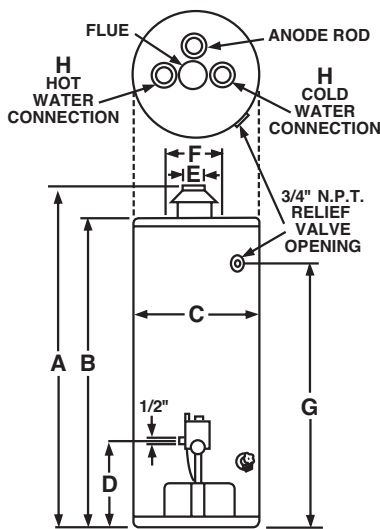
## Atmospheric Specifications

TYPE	DESCRIPTION			FEATURES				ROUGHING IN DIMENSIONS (SHOWN IN INCHES)								ENERGY INFO.		
	NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	GAS INPUT IN THOUS. BTU/H		RECOVERY IN G.P.H. 90° F RISE		FIRST HOUR RATING (GALLONS)	HT. TO VENT A	TANK HEIGHT B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CENTER F	HT. TO SIDE T&P VALVE G	WATER CONN. SIZE H	SHIP WEIGHT (LBS)	UNIFORM ENERGY FACTOR (UEF)
				NAT.	LP	NAT.	LP											
Tall	29	28	6G30-32F3	32	-	32.3	-	63	59-3/4	56-7/8	16-1/2	14-1/4	3 or 4	8	50-3/4	3/4	110	0.60
Tall	29	28	6G30-30PF3	-	30	-	30.3	63	59-3/4	56-7/8	16-1/2	14-1/4	3 or 4	8	50-3/4	3/4	110	0.60
Tall	40	38	6G40-36F3*	36	-	36.4	-	64	61-1/2	58-1/2	19	14-1/4	3 or 4	8	52-1/4	3/4	127	0.58
Tall	40	38	6G40-32PF3*	-	32	-	32.3	67	61-1/2	58-1/2	18-1/2	14-1/4	3 or 4	8	52-1/4	3/4	125	0.59
Tall	40	38	6GR40-40F3*	40	-	40.4	-	84	63-1/4	60	19-1/2	14	3 or 4	8	53-1/2	3/4	135	0.66
Tall	40	38	6GR40-36PF3*	-	36	-	36.3	84	63-1/4	60	19-1/2	14	3 or 4	8	53-1/2	3/4	135	0.66
Tall	50	48	6GR50-40F3*	40	-	40.4	-	76	62-1/2	59-1/4	21-1/2	14-1/2	3 or 4	8	52-1/2	3/4	165	0.65
Tall	50	48	6GR50-36PF3*	-	36	-	36.4	76	62-1/2	59-1/4	21-1/2	14-1/2	3 or 4	8	52-1/2	3/4	165	0.65
Tall	50	48	6G50-38F3*	38	-	38.4	-	85	61-1/4	58-3/8	20-1/2	14-1/4	3 or 4	8	51-3/8	3/4	150	0.64
Tall	50	48	6G50-36PF3*	-	36	-	36.4	85	61-1/4	58-3/8	20-1/2	14-1/4	3 or 4	8	51-3/8	3/4	150	0.64
Tall	55	55	6G55-50F3	50	-	51	-	91	59-1/8	55-7/8	23-3/4	14-1/4	4	8	48-3/4	3/4	175	0.62
Tall	55	55	6G55-45PF3	-	45	-	46	91	59-1/8	55-7/8	23-3/4	14-1/4	4	8	48-3/4	3/4	175	0.62
Short	30	29	6G30S-30F3	30	-	30.3	-	51	49-7/8	47	19-3/4	14-1/4	3 or 4	8	40-3/8	3/4	112	0.60
Short	40	38	6G40S-34F3*	34	-	34.3	-	65	52-1/8	49-1/4	21	14-1/4	3 or 4	8	42-3/4	3/4	120	0.59
Short	40	38	6G40S-31PF3*	-	31	-	31.3	65	52-1/8	49-1/4	21	14-1/4	3 or 4	8	42-3/4	3/4	120	0.59
Short	40	39	6G40S-38F3*	38	-	38.4	-	65	53-1/4	50-1/4	21-3/8	14-1/4	3 or 4	8	44	3/4	125	0.58
Short	40	39	6G40S-35PF3*	-	35	-	35.4	65	53-1/4	50-1/4	21-3/8	14-1/4	3 or 4	8	44	3/4	125	0.58
Short	50	48	6G50S-40F3*	40	-	40.4	-	87	54-1/4	51-1/8	23-3/4	14-1/4	3 or 4	8	44	3/4	186	0.63
Short	50	48	6G50S-36PF3*	-	36	-	36.4	87	54-1/4	51-1/8	23-3/4	14-1/4	3 or 4	8	44	3/4	186	0.63
<b>Models with Installed Side Water Connections</b>																		
Tall	40	38	6GRX40-40F	40	-	40.4	-	84	63-1/4	60	19-1/2	14	3 or 4	8	53-1/2	3/4	134	0.66
Tall	48	46	6G50-60F3	60	-	61	-	105	61-3/4	58-1/2	21-3/4	14-3/8	4	11	51-7/8	3/4	150	0.62
Tall	48	46	6G50-54PF3	-	54	-	55	105	61-3/4	58-1/2	21-3/4	14-3/8	4	11	51-7/8	3/4	150	0.62
<b>Models with Installed Top T&amp;P Valve</b>																		
Tall	40	38	6GT40-36F3*	36	-	36.4	-	64	61-1/2	58-1/2	19	14-1/4	3 or 4	8	-	3/4	127	0.58
Tall	40	38	6GRT40-40F3*	40	-	40.4	-	84	63-1/4	60	19-1/2	14	3 or 4	8	-	3/4	135	0.66
Tall	50	48	6GRT50-40F3*	40	-	40.4	-	76	62-1/2	59-1/4	21-1/2	14-1/2	3 or 4	8	-	3/4	165	0.65
Tall	50	48	6GT50-38F3*	38	-	38.4	-	85	61-1/4	58-3/8	20-1/2	14-1/4	3 or 4	8	-	3/4	150	0.64

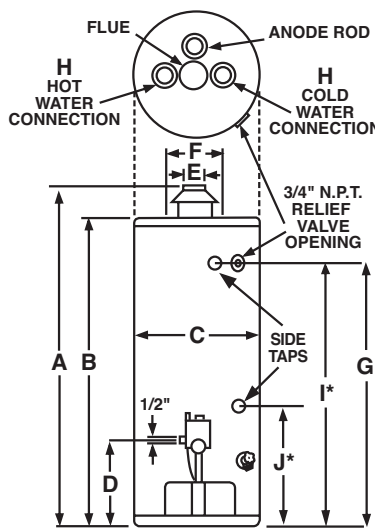
Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements.



\*LEED Point = 1

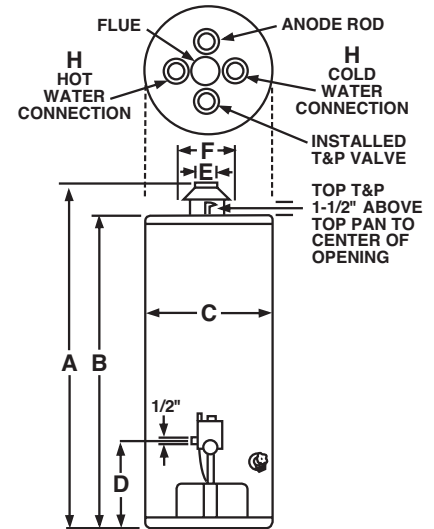


Side T&P Models



Side Water Connection Models

\*Side water connection dimensions will vary based on gallon capacity  
40-Gallon Model: I\*: 53-1/2" / J\*: 20"  
48-Gallon Model: I\*: 52" / J\*: 20"



Top T&P Models

In keeping with its policy of continuous progress and product improvement, Richmond reserves the right to make changes without notice.