

#### TECHNICAL SERVICE DEPARTMENT Technical Service Bulletin 1-800-432-8373



#### **ASME and Commercial Water Heater Products**

American Society of Mechanical Engineers



All states have codes that require that water heaters be constructed in accordance with the *ASME Boiler* and *Pressure Vessel Code Section 4, Part HLW.* At the present time, the ASME code applies only when the input is greater than or equal to 200,000 BTU per hour (about 58 KW) or when the storage capacity is greater than 120 gallons. The exception is the state of Florida where ASME inputs begin at 400,000 BTU. The BPVC was initially published in 1915 and as of May 18, 2005 all states in the US, all the provinces of Canada, regulatory authorities in over 80 countries have adopted the BPVC.

All Rheem commercial models with inputs above 200,000 BTU per hour are available with construction in accordance with the ASME Boiler and Pressure Vessel Code. ASME code applies to single 'stand alone' products and not to water heating systems such as "...a water heater with 2 storage tanks..."

Electric immersion thermostat models are available with construction in accordance with ASME Boiler and Pressure Vessel Code. ASME construction may be required if the water heater is installed in an apartment complex that services six or more units, in schools, or in some government buildings. Check your local code requirements.



ASME products are identified in four places on our heaters:

- 1. Rating Label is imprinted with an "A" at the end of the model number
- 2. ASME documentation envelope that accompanies each ASME water heater
- 3. Outer Jacket ID plate duplicate of official plate
- 4. Tank ID plate Official ASME ID plate\*
  - Commercial Gas: Welded to tank at hand-hole
  - Commercial Electric: Welded to tank top head near center coupling
  - Standard Storage Tanks: Welded to tank top head near center coupling
  - Large Volume Storage Tanks: Welded to tank 16" above top circulation opening

\*HLW-602.3 allows for a duplicate plate to be used should the official plate be concealed by foam.



Technical Competence, Product Confidence



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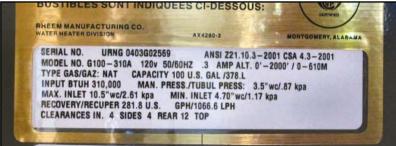
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For instance, here are the actual four locations (five if you count the crate label) that you can find ASME labeling. This example is from a G100-310A.





Water Heater's rating plate with the Serial Number ending in an "A".





Exterior ASME plate located next to hand hole cleanout pan.

Interior "official" ASME plate welded to the inner tank inside the hand hole cleanout cavity.





The ASME paperwork shipped with the product.

See next page for a sample of the ASME paperwork that is shipped with every ASME water heater.

### FORM HLW-6 MANUFACTURER'S DATA REPORT FOR WATER HEATERS OR STORAGE TANKS As Required by the Provisions of the ASME Code Rules

1.	Manufactured and certified by:												
2.	Manufactured for:												
3.	Location of insta	ocation of installation:											
4. Identification:								al Board no.)		rear built)			
5	The chemical a	cal properti	es of all narts	of all parts meet the requirements of material ction, and workmanship conform to Part HLW,									
	Shell:		at'l spec., gr.)		ckness (in.)]				(year) [ neter (in.)]		(Code Case no.		
7.	7. Joints: [long. (seamless, welded)]				[eff. (compared to seamless)]		(lining) [girth (seamless, wel				[length (ft. & in., overall)]		
8.	Heads:	ong. (ocume	ss, weided/j	[611. (6	ompared to scann	033/1	igirar (scari	noss, weided/j	,	o. or short cour	303)		
	Location		rial Spec., Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	He	emispherical Radius	Flat Diameter		e Pressure ave, convex)		
	Nozzles, inspec		gr.) Tubes	openings:	[size (in.)]	[length (ft & in.,	overall)]	(mat'l spec., gr.)	[thickness		(rolled or welded)		
	Purpose (inlet, outlet, drain, etc.) No.		Diameter or Size	Type	How Attached	ed Material			Reinforcement Material				
	Handhole up to 3" x 4"			NA		NA			NA				
11.	MAWP:	(psi)	Max.	input:	Btu/hr or kW)	Max. temp.	:	(°F)	Hydrostatic te	est:	(psi)		
12.	Manufacturer's this report:	Partial Da	nta Reports <sub>I</sub>	properly identi	fied and signe	ed by Commiss	sioned Insp	pectors have b	een furnished	for the foll	owing items o		
	(name of part, item no., manufacturer's name, identification stamps)												
13.	Remarks:												

#### FORM HLW-6 (Back)

CERTIFICATE OF SHOP COMPLIANCE								
We certify that the statements made in this data report are correct and that all details of design, material, construction, and workmanship of this water heater or storage tank conform to Section IV of the ASME BOILER AND PRESSURE VESSEL CODE.  "HLW" Certificate of Authorization no expiration date								
Date Name (manufacturer that constructed and certified wat	er heater or storage tank) Signed(by representative)							
CERTIFICATE OF SHOP INSPECTION								
Constructed by								
Date Signed(Authorized Inspector)	Commissions [Nat'l Bd. (incl. endorsements) state, province, and no.]							



# CERTIFICATE OF AUTHORIZATION

This certificate accredits the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

RHEEM MANUFACTURING COMPANY WATER HEATER DIVISION 2600 GUNTER PARK DRIVE EAST MONTGOMERY, ALABAMA 36109-1419

SCOPE:

POTABLE WATER HEATERS AND POTABLE STORAGE TANKS AT THE ABOVE LOCATION ONLY

AUTHORIZED:

**NOVEMBER 23, 2004** 

**EXPIRES**:

**NOVEMBER 27, 2007** 

CERTIFICATE NUMBER: 2

24,475

Chairman of The Boiler

And Pressure Vessel Committee

Rid. S. Bulun

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Director, Accreditation and Certification