

Pacemaker Electric



Efficiency

- .85 - .95 EF
- Isolated tank design reduces conductive heat loss
- High efficiency resistored heating element for added protection to prolong anode rod and tank life



Performance

- FHR: 42 - 99 gallons, based on gallon capacity
- Recovery rate is 21 gallons at a 90 degree Fahrenheit rise**

High Efficiency Models

Feature

- High performance and lower operating cost
- Exclusive Ruudglas tank lining resists corrosion
- ASME rated temperature and pressure relief valve
- R-Foam Cyclopentane insulation for superior heat retention
- Maximum tank working pressure of 150 PSI (10 BARS)
- Factory tested @ 300 PSI
- Anode rod equalizes aggressive water action and prolongs the life of the water heater



- Electric junction box located above heating elements for easy installation
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature

Plus...

- Available models with EverKleen™ self-cleaning device fights harmful sediment build-up with a high-velocity spiraling water stream helps operating efficiency by saving energy, money and improving tank life



- Brass drain valve
- Temperature and pressure relief valve included
- Meets LEED requirements
- Stainless Steel or Incoloy heating elements available

Warranty

- 6-Year limited tank and 2-years parts warranty*
- With ProtectionPlus™ the 6-year limited tank warranty becomes 10-year

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



Pacemaker

30 to 120-Gallon Capacities 240 Volt AC/Single Phase
or
400, 415 & 480 Volt AC/Three Phase Double and Single Element Models Electric

Available in Simultaneous and Non-Simultaneous heating elements



† LEED Point = 1

Model No.	Insulation Thickness (In.)
PE2-30	1.875
PE2-40	1.875
PE2-52	1.500
PE2-66	1.500
PE2-80	1.500
PE2-120	2.125

See dimensions chart on back.

Pacemaker Electric

Wattage Limitation	230V	240V	400V	415V	480V
2500	NO	YES	NO	YES	NO
3000	YES	YES	NO	YES	NO
4500	YES	YES	YES	YES	YES
5000	YES	YES	YES	YES	YES
6000	NO	YES	YES	YES	YES

DESCRIPTION			FEATURES		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)				ENERGY FACTOR
TYPE	GAL. CAP.	MODEL NO.	FIRST HOUR RATING G.P.H.	RECOVERY IN G.P.H. @ 90° RISE	TANK HEIGHT A	HEIGHT TO WATER CONN. B	DIAMETER C	APPROX. SHIP WT. (LBS)	
TALL	30	PE2-30- 2	48	21	45-3/4	45-3/4	17-3/4	80	0.93
	40	PE3R-40- 2†	56	21	46-3/4	46-3/4	22-1/4	104	0.95
	40	PE2-40- 2	53	21	46-1/2	46-1/2	19-3/4	95	0.92
	40	PE2H-40- 2	57	21	59-1/4	59-1/4	17-3/4	96	0.92
	50	PE3R-52- 2†	67	21	57	57	22-1/4	123	0.95
	50	PE2-52- 2	67	21	57	57	19	107	0.91
	65	PE3R-66- 2†	71	21	58-3/4	58-3/4	23	160	0.92
	65	PE2-66- 2	71	21	58-1/2	58-1/2	21	150	0.89
	80	PE3R-80- 2†	88	21	59	59	24-1/2	181	0.92
	80	PE2-80- 2	88	21	59	59	23	177	0.86
MED	120	PE2-120- 2	99	21	62-1/2	62-1/2	28-1/4	324	0.85
	30	PE2M-30- 2	44	21	36	36	19-3/4	80	0.93
	50	PE3MR-52- 2†	62	21	46	46	24-1/4	128	0.93
SHORT	50	PE2M-52-2	62	21	46	46	21-3/4	117	0.90
	30	PE2SB30-2*	42	21	30	30	19-3/4	90	0.93
	30	PE2S-30-2	42	21	30	30	22-1/4	83	0.93
	38	PE2S-40-2	45	21	31-1/2	31-1/2	23	108	0.92
	38	PE2SB-40-2*	45	21	31-1/2	31-1/2	23	108	0.93
	47	PE2S-50-2	55	21	32	32	26-1/4	149	0.91

Water heater dimensions prior to installing insulation blanket that is included with water heater.

PE1SVB30-2 - The insulation blanket adds 1-1/2 inches to tank height and 3 inches to tank diameter.

PE2SVB40-2 - The insulation blanket adds 1 inch to tank height and 2 inches to tank diameter.

• Heaters furnished with standard 240 volt AC, single phase non-simultaneous wiring, and 4500 watt upper and lower heating elements.

• **If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.**

• Single element models available on special order (6000W max.). Substitute "-1" for "-2" in model number.

• Special Wiring Options - A limited number of special wiring options are available. Consult factory for price and availability.

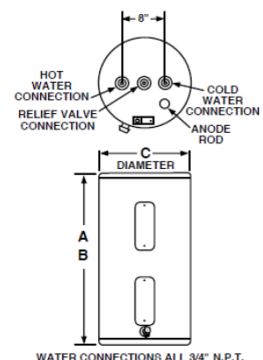
• Tank models may be equipped with heat traps.

**Recovery = wattage/2.42 x temp. rise °F.
Example: $\frac{4500W}{2.42 \times 90^\circ} = 21 \text{ GPH}$

**Recovery calculations used are based on 4500 watt elements used in non-simultaneous operation



†LEED Point = 1



CERTIFICATE OF COMPLIANCE

Certificate Number 20141209-E11867
Report Reference E11867-19790405
Issue Date 2014-DECEMBER-09

Issued to: RHEEM SALES CO INC
2600 GUNTER PARK DR E
MONTGOMERY AL 36109

This is to certify that representative samples of HOUSEHOLD WATER HEATERS, STORAGE TANK
See addendum page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

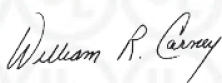
Standard(s) for Safety: UL 174, Household Electric Storage Tank Water Heaters
CSA C22.2 No. 110, Construction and Test of Electric
Storage-Tank Water Heaters

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Household Electric Storage Tank Water Heater Models

Nominal Capacity Gal	(Basic Models) Rheemglas Standard Energy Miser	Rheemglas Imperial Miser	Citation Energy Miser	Vanguard	Rheemglas Electric	Rheemglas Professionals	Western Auto	Hotpoint	General Electric	Culligan	RUUDGLASS PACEMASTER ENERGY MISER	RUUDGLASS MASTER ENERGY MISER	PARAMOUNT ENERGY MISER	RUUDGLASS RIVIERA	RUUD PROF. GRADE
See Ill. 21															
30	81V30	81X30	81I30 81J30	6E720, 6E751, 6E755			WA3243	HE30T1SA HE30T1LA HE30T5SA HE30T5A	GE30T6K GE30T6A	C6EL-30T	PE30-1,2	ME30-1,2	PEI30-1,2	PEX30-1,2, or PH301-2	
40	81V40	81X40	81I40 81J40	6E721, 6E752, 6E756			WA3244	HE40M1A HE40M5A	GE40H6K@ @ GE40M6A	C6EL-40M	PE40-1-2+	ME40-1,2	PEI40-1,2	PEX40-1,2 or PH40-1,2	
40	81VH40	81XH40				RHEH PRO40			GE40T6A	CEL-40T					
40	81VH40S, D														RUEHPRO 40-1.-2
50	81V52	81X52	81I52 81J52	6E722, 6E753, 6E757			WA3245		GE50T6A	C6EL-50T	PE52-1,2+	ME52-1,2	PEI52-1,2	PEX52-1,2	
65	81V66	81X66	81I66 81J66	6E723					GE65T6A	C6EL65T	PE66-1,2+	ME66-1,2	PEI66-1,2		
80	81V80	81X80	81I80 81J80	6E724, 6E758					GE80T6A	C6EL-80T	PE80-1,2+	ME80-1,2	PEI80-1,2		
119.9	81V120	81X120	81I120 81J120	6E725, 6E016	ELD1 20						PEI20-1,2+	ME120-1,2+	PEI120-1,2		

@ - The third from last digit is the model year and is represented by an alpha character. The last two digits represent the revision level.

	(Basic Models) Rheenglas Standard Energy Miser	Rheenglas Imperial Energy Miser	Citation Energy Miser	Vanguard	Rheenglas Electrical	Rheenglas Professional	Western Auto	Hotpoint	General Electric	* Culligan	RUUDGLA SS PACEMAKER ENERGY MISER	RUUDGLA SS MASTER ENERGY MISER	PARAMOUNT ENERGY MISER
See Ill. 23													
30	81MV30 or RUEMPRO030-1-2	81MX30	81MI30 81MJ30			RHEM PRO30		HE30M1SA HE30M1A HE30M5SA HE30M5A	GE30M6A	C6EL-30M	PEM30-1, 2+	MEM30-1, 2	PEMI30-1, 2
50	81MV52	81MX52	81MI52 81MJ52					HE50M1B00	GE50M6A	C6EL-50M	PEM52-1, 2+	MEM52-1, 2	PEMI52-1, 2
See Ill. 22													
19.9	81SV20	81SX20	81SI20 81SJ20						GE20S6K		PES20-1, 2+	MES20-1, 2	PESI20-1, 2
30	81SV30	81SX30	81SI30 81SJ30	6E726	ELDS30	RHES PRO30		HE30S1A HE30S5A	PE20S9K GE30S6K GE30S6A	C6EL-30S	PES30-1, 2+ or RUESPR O30-1, -2	MES30-1, 2, 2T	PESI30-1, 2 PROE30 S2 RU93 B
30A	81SV30-1												
40	81SV40	81SX40	81SI40 81SJ40	6E727 6E754	ELDS40	RHES PRO40		HE40S1A HE40S5A	GE40S6A PE40S9K	C6EL-40S	PES40-1, 2+, 2T+ or RUESPR O40-1, -2	MES40-1, 2, 2T	PESI40-1, 2
47	81SV50	81SX50	81SI50 81SJ50	6E728					GE47S6A	C6EL-47S	PES50-1, 2, 2T+	MES50-1, 2, 2T	PESI50-1, 2
50	81SV52	81SX52	81SI52 81SJ52		ELDS52	RHES PRO52					PES52-1, 2+, 2T+ or RUESPR O52-1, -2	MES52-1, 2, 2T	PES52-1, 2

Note: (+) the Energy Miser model number may have "J" to indicate warranty option.

Nominal Capacity gal		(Basic Models)		Warrior Glass		Warrior Glass	
Rheemglas Standard Energy Miser		(1 Year)		(5 Year)			
30	81V30	81-30	81H30				
40	81V40	81-40	81H40				
50	81V52	81-52	81H52				

Nominal Capacity gal	(BasicModels) Rheemglas Standard Energy Miser	Rheemglas Imperial Energy Miser	Vanguard Eight	Rheemglas Electric	Rheemglas Professional	Western Auto	General Electric	Culligan	SOLAR SERVANT	RUUDGLASS PACEMAKER MISER	RUUDGLASS	RUUD PROFESSIONAL GRADE
See Ill. 61												
20	82SV20									E2S-20		
30	82SV30									E2S-30		RUESPRO30
30	81VR30					WA3253						
*30	82VP30									PEP30		
30	82VR30-1,-2, or EVR30-1,-2, or EXR30-1,-2, or RUEPRO30-1,-2	82XR30	6E014A	ELD30	RHEPRO30		PE30T9A			PE2-30		
40	81VR40-1,-2, or EVR40-1,-2, or EXR40-1,-2, or RUEPRO40-1,-2					WA3254				PE2-40,		
40	82SV40									E2S-40		RUESPRO40
40	82VR40	82XR40	6E718A 6E716A	ELD40	RHEPRO40		PE40M9A PE40M9K@@@ SE40M12A@@@ SE40M12K@@@	C9EL-40M C12EL-40M		PE2H40	P2H-40	RUEHPRO40
40	83VR40									PE3R-40, OR ME3R-40		RUEPRO40
50	82SV50									E2S-50		RUESPRO50
52	83VR52									PE3R-52, OR ME3R-52		RUESPRO52
50	81VR52											
50	82VR52-1,-2, or EVR52-1,-2, or RUEPRO50-1,-2 or EXER52-1,-2	82XR52	6E717A 6E719A	ELD52	RHEPRO52		GE50T6EA SE50T12A@@@ PE50T9A	C6EL-50T C9EL-50T		PE2-52		
50	82MVR52-1,-2, or EMVR52-1,-2, or EMXR52-1,-2, or RUEMPRO52-1,-2	82MVR52 PROE50 M2 RH90 EC1			RHEMPRO52		PE50M9A SE50M12A@@@	C9EL-50M C12EL-50M				

Nominal Capacity gal	(BasicModels) Rheemglas Standard Energy Miser	Rheemglas Imperial Energy Miser	Vanguard Height	Rheemglas Electric	Rheemglas Professional	Western Auto	General Electric	Culligan	SOLAR SERVANT	RUUDGLASS PACEMAKER MISER	RUUDGLASS LASS	RUUD PROFESSIONAL GRADE
66	83VR66									PE3R-66, OR ME3R-66		RUEPRO66
65	81VR66											
65	82VR66-1,-2, or EVR66-1,-2, or EXR66-1,-2, or RUEPRO66-1,-2	82XR66		ELD66	RHE PRO66		GE65T6EA PE65T9A			E2-66		
80	81VR80								RSPER-80-1			
120	81vr-120-1								RSPER-120-1			
80	82VR80-1,-2, or EVR80-1,-2, or EXR80-1,-2, or RUEPRO80-1,-2	82XR80	6E01 5A	ELD80	RHE PRO80		SE80T12A@@@			E2-80		
120	82V120									E2-120		
60	83VR60									PE3R-80, OR ME3R-80		RUEPRO80

@ - The third from last digit is the model year and is represented by an alpha character. The last two digits represent the revision level.

Nominal Capacity gal	(Basic Models) Rheemglas Imperial Plus Energy Miser
See Ill. 30	
30	81GX30
40	81GX40
50	81GX52
65	81GX66
80	81GX80

Household Electric Storage Tank Water Heater Models (Continued) :

NOMINAL CAPACITY GAL.	(BASIC MODELS) RHEMGAS STANDARD ENERGY MISER	RHEM	RHEMGAS IMPERIAL ENERGY MISER	RHEM WARRIOR GLASS	VANGUARD	RHEMGAS ELECTRIC	RHEMGAS PROFESSIONAL	HOTPOINT	GENERAL ELECTRIC	RUUD
See III., 20										
30	82V30-	XE30T06ST38U0		82-30-	3WA66	ELD30		HE30T01AAG	GE30T06KAG	PROE30 1 RU93 PROE30 2 RU93 PROE30 2 RU93 EC1
30	85V30	XE30T06ST45U0 PROE30 2 RH93 PROE30 1 RH93 PROE30 2 RH93 EC1						HE30T01SAG	GE30T06AAG PE30T09AAG	
40	82V40-	PROE40 2 RH92 PROE40 1 RH92 PROE40 2 RH92 EC1		82-40-	3WA68			HE40M01AAG HE40M01SAG	GE40M06AAG GE40M06KAG PE40M09AAH PE40M09KAH SE40M12AAH SE40M12KAH	RU85V30-1 PROE40 1 RU92 PROE40 2 RU92 PROE40 2 RU92 EC1
40	85V40	85V40-1								
40	82VH40-	XE40T06ST45U0 XE40T09EL45U0 PROE40 T2 RH92 EC1 PROE40 T2 RH92 PROE40 T1 RH92					RHEHPRO40-		GE40T06AAG	RU85V40-1 PROE40 T2 RU92 PROE40 T1 RU92 PROE40 T2 RU92 EC1
50	82V52-	PROE50 2 RH91 PROE50 1 RH91 PROE50 2 RH91 EC1		82-52-	3WA71				GE50T06AAG PE50T09AAH SE50T12AAH SE50T12KAJ	PROE50 1 RU91 PROE50 2 RU91 PROE50 M2 RU90 EC1 PROE50 2 RU91 EC1
50	85V52	85V52-1								RU85V52-1
65	82V66-	XE65T06ST45U0 PROE65 2 RH89 PROE65 1 RH89			3WA74				PE65T09AAH	PROE65 1 RU89 PROE65 2 RU89
65	85V66	85V66-1								RU85V66-1

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80	82V80-	XE80T06ST45U0 PROE80 2 RH86	3WA75			GE80T06AAG SE80T12AAH	PROE80 2 RH86
80	85V80	85V80-1					RU85V80-1
119.9	82V120-	PROE120 2 RH85	3WA77	ELD120			PROE120 2 RU85
119.9	85V120	85V120-1	3WA78				RU85V120-1
30	82W130-	XE30M06ST45U0 PROE30 M2 RH93 PROE30 M1 RH93			RHEMPRO30-	HE30M01AAG HE30M01SAG	PROE30 M1 RU93 PROE30 M2 RU93
50	82W152-	XE50M06ST45U0				HE50M01AAG	PROE50 M1 RU90 PROE50 M2 RU90
		PROE50 M2 RH90 PROE50 M1 RH90				HE50M01SAG	PE50M09AAH SE50M12AAH

Household Electric Storage Tank Water Heater Models (Continued) :

NOMINAL CAPACITY GAL	(BASIC MODELS) RHEINGLAS STANDARD ENERGY MISER	RHEEM	RHEINGLAS I MPERIAL ENERGY MISER	RHEEM WARRIOR GLASS	VANGUARD	RHEINGLAS ELECTRIC	RHEINGLAS PROFESSIONAL	HOTPOINT	GENERAL ELECTRIC	RUD
19.9	82SV20- MISER	XE20S06ST3800 PROE20 S2 RH PROE20 S1 RH XE30S06ST4500						HE30S01AAG HE30S01SAG	GE20S06AAG GE30S06AAG GE30S06AAG PE30S09AAG	PROE20 S1 RU PROE20 S2 RU PROE30 S1 RU93 PROE30 S2 RU93
30	82SV30- MISER	XE30S06ST3800 PROE30 S2 RH93 PROE30 S1 RH93 XE38S06ST4500			3WA67	ELDS30	RHESPRO30-			
38	82SV40- MISER	XE38S06ST3800 PROE38 S2 RH92 PROE38 S1 RH92 PROE38 S1 RH93 B PROE38 S2 RH93 B			3WA69	ELDS40	RHESPRO40-	HE38S01AAG HE38S01SAG	GE38S06AAG PE38S09AAG	PROE38 S1 RU92 PROE38 S2 RU92 PROE38 S2 RU93 B
38	82SVB40	PROE47 S2 RH91 PROE47 S1 RH91			3WA72	ELDS50	RHESPRO50-		GE47S06AAG PE40M09AAG PE40M09AAG	PROE47 S1 RU91 PROE47 S2 RU91
47	82SV50- MISER	XE40M12EC5500 PROHE40 2 RH95 ECI XE40M09EL5500 PROE40 1 RH95	83XR40-		3WA70	ELD40	RHEPRO40-		SE40M12AAG SE40M12AAG SE40M12TAH	PROHE40 2 RU95 ECI
40	83VR40- * (EC) ** (EL)	XE50T12EC5500 XE50T09EL5500 XE50T06ST4500 PROHE50 2 RH95 ECI	83XR52-		3WA73	ELD52	RHEPRO52-		PE50T09AAG SE50T12TAH GE50T06TAH SE50T12AAG PE50M09AAG SE50M12AAG SE50M12TAH PE65T09AAG	PROHE50 2 RU95 ECI PROHE50 M2 RU93 ECI PROHE65 2 RU92 ECI
50	83VR52- (EC) ** (EL)									
50	83MR52- * (EC) ** (EL)	XE50M12EC5500 XE50M09EL5500 PROHE50 M2 RH93 ECI XE65T09EL5500 PROHE65 2 RH92 ECI	83MR52-				RHEPRO52-			
65	83VR66- * (EC) ** (EL)	XE80T110ST5500 XE80T12EC5500 XE80T09EL5500 PROHE80 2 RH92 ECI	83XR66-			ELD66	RHEPRO66-			
80	83VR80- * (EC) ** (EL)		83XR80-		3WA76	ELD80	RHEPRO80-		SE80T12AAG SE80T12TAH	PROHE80 2 RU92 ECI

(EC)models are equipped with electronic control and *(EL) models are equipped with LED diagnostic lights.

Rheem base models, Imperial Energy Miser, Warrior Glass and Professional models will have suffix 1 or 2 to indicate total element configuration.

All above models may have Suffix "S" or "-1" indicating single element, or suffix "D" or "-2" indicating double element. All models may also carry the following suffixes:

1. "-3", indicating unit is designed for 3 phase supply connection. See Ill. 49 (Drawing No. AS-35199A)
2. "T", indicating heaters are supplied with heat traps.
3. "II", indicating warranty options.
4. An alphabetic character (A through Z) removed from base number by three blank spaces to indicate a revision in construction.

Extension models are identical to basic models except for nameplate design.