

# WATER HEATING PR<sup>o</sup>DUCT GUIDE



The new degree of comfort.®



# OUR HISTORY DEFINES OUR FUTURE



Brothers Richard and Donald Rheem founded Rheem Manufacturing Company in Emeryville, CA, in 1925. While the company has produced several products in its nearly 100 years of operation, Rheem is currently the only manufacturer in the world that produces heating, cooling, water heating, pool & spa heating and commercial refrigeration products and it is the largest manufacturer of water heating products in North America.

## Award-Winning Innovations

From industry-leading technologies to next generation energy efficiencies, Rheem has been a pioneer in developing some of the most innovative advancements in heating, cooling and water heating. With a long list of award-winning solutions, Rheem continues to deliver advanced comfort, savings and experiences to our customers.



## A Trusted Family of Brands

Both in the US and abroad, innovative products from the Rheem family of brands lead the industries they serve. To maintain our leadership position regardless of the brand badge affixed to them—our products must always be unique in the marketplace, relevant to our customers' lifestyles, and authentic to our company's values.



# WHY CHOOSE RHEEM

Rheem water heaters were first introduced to the Singapore market in 1968. It has grown into a well recognized residential and industrial brand, trusted for its high quality and reliability. In over 50 years of local water heating expertise, Rheem has maintained a good reputation and gained trust and confidence from project specifiers, developers, installers and end users across the Asian region.

Rheem offers a wide range of residential and commercial products including solar thermal, heat pumps, gas-fired and electric storage water heaters.

## OUR EXPERTISE AND ADVANTAGES:



### Reliability:

An American company with nearly 100 years in business, Rheem has been a pioneer in developing some of the most innovative advancements in water heating. With a long list of award-winning solutions, Rheem continues to deliver advanced comfort, savings, and experiences to our customers. With local headquarters in Singapore for 50 years and regionally located factories, we can deliver region-specific designed products quicker.



### Water Heating Experts:

With a wide range of products, we have something to fit almost every water heating need across Asia. The proof is in having over 1,000,000 water heaters installed across Asia. We are also proud to be the preferred choice for Asian commercial applications with 1000s of installed locations.



### Sustainability:

Rheem is making a difference with our ambitious 2025 goals. We continue to lead with our bold approach to improvements for our products and processes to dramatically cut our impact on the environment, while empowering both our customers and employees to work and live sustainably. It's all a part of our bold vision for the future.

#### *Degree of Innovation:*

Reduce manufacturing greenhouse gas footprint by 50%.

#### *Degree of Efficiency:*

Reduce greenhouse gas emissions by 50% and achieve zero waste to landfill.

#### *Degree of Leadership:*

Train plumbers and contractors on sustainable products or sustainable installation and recycling best practices.



# RHEEM ASIA PRODUCT OVERVIEW

## RESIDENTIAL WATER HEATER PRODUCT OVERVIEW

### Rheem Residential - Electric Instant Heaters



#### PRESTIGE PLATINUM

- On demand endless hot water
- Ideal for low and high-water pressure
- Digital touch screen LED display
- Quadruple safety protection
- Accuracy temperature  $\pm 1^{\circ}\text{C}$
- Replaceable incoloy heating element
- Stainless steel heating chamber
- Built in DC silent pump (On selected model)
- 6 spray shower mode
- Power - 3.3-4.5kW 220-240V 50-60Hz



#### PRESTIGE PLUS

- On demand endless hot water
- Ideal for low and high-water pressure
- Quadruple safety protection
- Accuracy temperature  $\pm 1^{\circ}\text{C}$
- Replaceable incoloy heating element
- Stainless steel heating chamber
- 6 spray shower mode
- Power - 3.3-4.5kW 220-240V 50-60Hz



#### PRESTIGE

- On demand endless hot water
- Ideal for low and high-water pressure
- Quadruple safety protection
- Replaceable incoloy heating element
- Stainless steel heating chamber
- 3 spray shower mode
- Power - 3.3-4.5kW 220-240V 50-60Hz



#### CLASSIC ELECTRONIC

- On demand endless hot water
- Power dial control
- Dual thermostat safety protection
- Copper heating element
- 3/5 spray shower mode
- Power - 3.0-5.5kW 220-240V 50-60Hz

### Rheem Residential - Electric Storage Tanks



#### RFA

- Slimline design
- Fits all small and medium apartments
- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Comes in 20L



#### RCY

- Fits all small and medium apartments
- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Comes in 10L, 15L & 30L



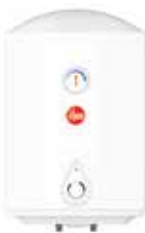
#### CLASSIC POU

- Exclusive Rheemglas Enamel Tank
- UL approved combined T&P valve
- Automatic thermostat
- Over temperature protector (ECO)
- Incoloy sheathed immersion heating element
- High density PU foam
- CFC free polyurethane insulation
- Large anode rod protection
- Comes in 22L, 38L, 57L, 75L, & 113L



#### EV & EH CLASSIC SERIES

- Exclusive Rheemglas Enamel Tank
- UL approved combined T&P valve
- Automatic thermostat
- Over temperature protector (ECO)
- Incoloy sheathed immersion heating element
- High density PU foam
- CFC free polyurethane insulation
- Large anode rod protection
- Comes in 30L, 50L, 80L & 100L



#### RVE CLASSIC

- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Temperature colour display
- Comes in 50L, 80L & 100L



#### RHE CLASSIC

- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Temperature colour display
- Comes in 50L, 80L & 100L



#### EHG CLASSIC

- Fits all small and medium apartments
- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Comes in 30L, 40L, 50L, 60L, 80L, 90L & 100L



#### EHG SLIMLINE

- Slimline design with 340mm
- Fits all small and medium apartments
- Superior enamel tank
- High density PU foam
- Long lasting incoloy heating element
- High precision thermostat control
- Restored magnesium anode
- Comes in 25L, 40L & 55L



#### 86H SERIES

- Exclusive Rheemglas Enamel Tank
- UL approved combined T&P valve
- Automatic thermostat protection
- Over temperature protector (ECO)
- Incoloy sheathed immersion heating element
- High density PU foam
- CFC free polyurethane insulation
- Large anode rod protection
- Comes in 25L, 40L, 55L, 75L & 100L



# COMMERCIAL WATER HEATER PRODUCT OVERVIEW

## Rheem Customized Control Panel



### CUSTOMIZED CONTROL PANEL

- Singapore Standard CP5:1998 wiring code
- Customizable
- Indoor (IPX4) or outdoor (IP54) enclosure
- Caters to a range of mains incoming electrical current
- 230V/1Ph/50Hz and 400V/3Ph/50Hz (60Hz available)

## Rheem Commercial Electric Tanks



### CLASSIC 82 & 85 SERIES

- 114L – 454L tank capacities
- High performance & low operating cost
- Automatic thermostat



### HEAVY DUTY

- 50L – 315L tank capacities
- Up to 6 heating elements in cylinder
- Over temp cut off to prevent over heating
- 7480L hot water in the first hour
- Indoor & outdoor installation



### XES COMMERCIAL

- 189L – 662L tank capacities
- Surface mounted and immersion thermostat models
- System Sentinel™ LED Diagnostics
- 208, 240, 277 and 480 voltages
- Multiple heating elements from 6kW to 54kW

## Rheem Commercial Gas Tanks



### UNIVERSAL COMMERCIAL

- 132L – 379L tank capacities
- 80% Thermal efficient
- Designed to fit into tight spaces
- Space saving tank design
- System Sentinel™ LED diagnostics
- 28.7kW to 117.2 kW heating capacity
- Compatible for natural gas, town gas & LPG
- 98,800-399,900 BTUH Input



### HEAVY DUTY OUTDOOR

- 260L – 275L tank capacities
- 275L can be used indoors
- Multi-Fin technology for faster efficient heating
- Multiple anodes & double layer vitreous enamel
- 51,000 – 200,000 BTUH input



### HEAVY DUTY INDOOR

- 260L tank capacity
- Adjustable thermostats
- Equa-flow system
- 100% safety shut down
- 51,000 – 200,000 BTUH input



### HEAVY DUTY INDOOR

- 265L & 275L tank capacities
- Multi-Fin technology for faster efficient heating
- Multiple anodes & double layer vitreous enamel
- Hot surface ignition for economy
- BMS option available
- 51,000 – 200,000 BTUH input

## Rheem Commercial Storage Tanks



### S/S316 TANK (VENTED TYPE) (UP TO 100,000L)

- Factory argon welded modular panel
- Choice of tank material SS304 or SS316L
- Modular panel thickness 1.2-2.0mm
- Closed cell flexible foam with SS201



### ASME VERTICAL & HORIZONTAL TANKS (UP TO 9800L)

- Installed indoor or outdoor
- Foam insulation
- Natural aluminum jacket



### STAINLESS STEEL NON-VENTED STORAGE TANK (500 TO 10,000L++)

- Tank material – SUS316L / SUS304 / SUS444
- Standard maximum working pressure – 0.6MPa
- Customized maximum working pressure up to 4.0MPa
- Vertical and horizontal orientations
- Customizable water, sensor, heating element connections



### COMMERCIAL STORAGE TANKS (UP TO 622L)

- 303L, 435L & 622L capacities
- Insulated with 2" rigid polyurethane
- Long life tank design
- Built-in 2 heavy duty magnesium anode rods
- ASME models available

# COMMERCIAL WATER HEATER PRODUCT OVERVIEW

## Rheem Solar Premier Hi Line & Lo Line



### SOLAR PREMIER HILINE 52H180

- Close coupled collectors and stainless steel 300L tank
- S200 collector provides good performance in all locations
- Fully frost protected to as low as -28°C
- Better suited to poor water quality areas



### SOLAR PREMIER HILINE 52H300

- 300L tank capacity
- Space saving design
- Complete frost protection
- Use thermosiphon technology
- Electric & gas boosted models



### PREMIER LOLINE 591270

- 270L tank capacity
- Complete frost protection
- Electric & gas boosted models
- Split design reduces structural load roof
- Drain back technology against freezing & over heating



### PREMIER

- 270L tank capacity
- Complete frost protection
- Drain back technology against freezing & over heating
- Reduces energy use



### SOLAR PREHEATING COMMERCIAL SYSTEM

- 1941(H) x 1023(W) x 80(D)
- Aperture area 1.86m<sup>2</sup>
- Same level or below the collectors installation
- Freeze protection activated by sensors
- Building Monitoring System (BMS) connectivity

## Rheem Heat Pumps



### HEAT PUMP HDI-310

- 310L capacity
- 3.9kW
- Top down heating
- No Solar Panels
- Energy Efficient
- Back – up element
- 5-year cylinder warranty



### HEAT PUMP MPI-325

- 325L capacity
- 2.4kW
- Concealed tempering valve
- Constant recovery
- Energy efficient
- No solar panels
- LED display



### ALL IN ONE HEAT PUMPS

- 270L & 340L capacities
- 3.25kW
- Absorbs environmental heat into the water
- Cools and dehumidifies the ambient air
- Glass-lined Tank
- Anode Rod equalizer
- Thick CFC free polyurethane insulation
- Temperature and pressure relief valve
- Incoloy Heating Element
- Double wall condenser heat exchanger
- Copper tubing wrapped around tank



### THERMAL POOL HEAT PUMPS

- 9kW – 540kW heating capacity
- Marine grade aluminum case
- Acoustically lined compressor enclosure
- Removable coil guards for easy cleaning
- Exclusive Rheem IQ advanced tariff control



### AIR-TO-WATER AND WATER-TO-WATER HEAT PUMPS

- 10kW - 540kW heating capacity
- Marine grade aluminum case
- World renowned Copeland compressor
- Rheem IQ intelligent controller available
- Rheem cote anti corrosion

# COMMERCIAL WATER HEATER PRODUCT OVERVIEW

## Raypak Residential & Commercial Heaters



### RESIDENTIAL HP POOL HEATER (5450, 8450, 8450)

- Exclusive DuraSteel powder-coated cabinet
- 3 blade swept wing fan
- Scroll compressor
- Pool/spa control with separate temp settings
- Remote compatible
- 103,000 - 119,000 BTUH inputs



### RESIDENTIAL HP POOL HEATER (2450, 3450, 4450)

- Exclusive DuraSteel powder-coated cabinet
- 3 blade swept wing fan
- Scroll compressor
- Spiral titanium tube to prevent corrosion
- Pool/spa control with separate temp settings
- 48,000 - 80,000 BTUH inputs



### COMMERCIAL POOL/SPA HEATER

- PolyTuf textured powder coating
- Wind – resistant design
- Digital controls
- Easy maintenance of burner trays
- Fuel efficient
- 199,500 - 399,000 BTUH inputs



### MVB COMMERCIAL VERTICAL POOL HEATER

- 83 To 83.3% thermal efficiency at full rate
- Tough rust resistant powder coat finish
- Natural gas & propane available
- Whisper quiet operation
- No boiler condensate drain required
- 500,000 - 1,999,000 BTUH inputs



### OUTDOOR TRANSPARENT

- Brass headers
- Cupro-nickel finned tube heat exchanger
- 24V control enclosed for protection
- Stainless steel burner
- Slide-out burner for easy maintenance
- 511,500 - 825,000 BTUH inputs



### COMMERCIAL POOL HEATER

- Natural, propane & town gas
- Cupro-nickel finned tube heat exchanger
- Indoor & outdoor styles
- 80 – 82% thermal efficiency
- Electronic pilot ignition
- Slide-out burner for easy maintenance
- 961,700 - 1,825,600 BTUH inputs



### COMMERCIAL INDOOR TYPE

- Brass headers
- Cupro-nickel finned tube heat exchanger
- Spark to pilot ignition
- Stainless steel burner
- Slide-out burner for easy maintenance
- 2,100,000 - 4,000,000 BTUH Inputs



### COMMERCIAL OUTDOOR TYPE

- Brass headers
- Cupro-nickel finned tube heat exchanger
- Corrosion resistant steel brush galvanized
- Spark to pilot ignition
- Stainless steel burner
- Slide-out burner for easy maintenance
- 926,000 - 1,758,000 BTUH Inputs

Ask us about a customized solution for your commercial needs.



The new degree of comfort.®

CALL US FOR SOLUTIONS TO YOUR HOT WATER PROBLEMS.

**Rheem Manufacturing Company (Singapore) Pte Ltd**

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