



The new degree of comfort.®



S^oLAR POWERED

WATER HEATING SYSTEM



SOLAR
WATER
HEATERS



COMPANY INTRODUCTION

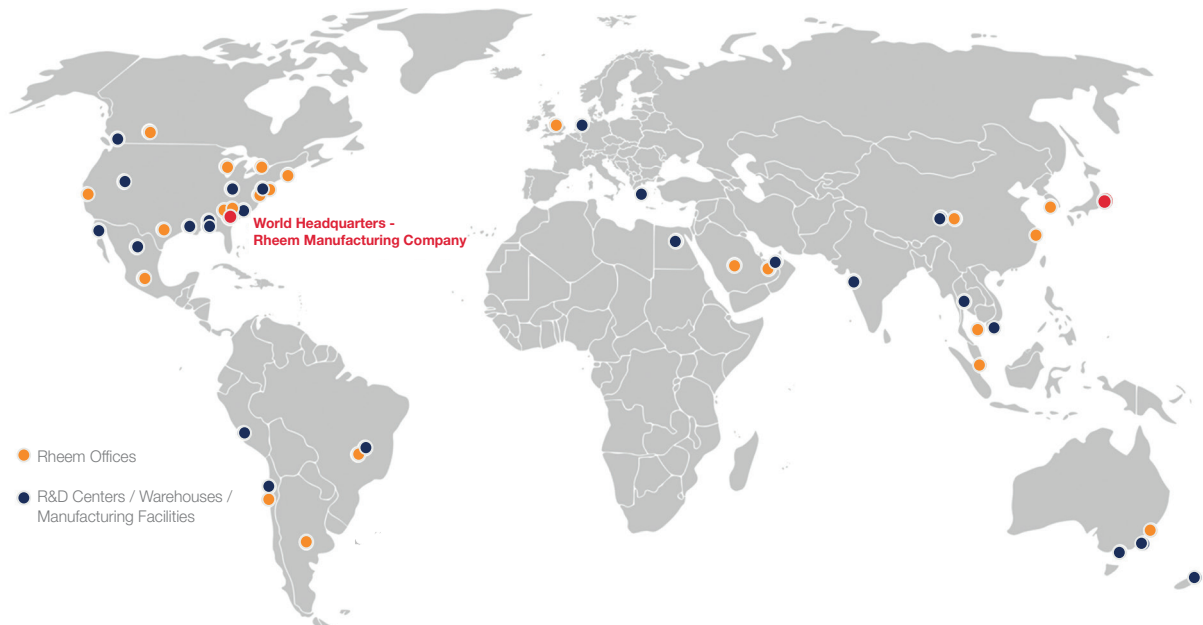
360°+1 THE NEW DEGREE OF WARMTH

Founded in 1925, in Emeryville, California, United States, by brothers Richard and Donald Rheem, Rheem Manufacturing Company is a global and leading manufacturer for water heating and air conditioning products and solutions. Today, Rheem is headquartered in Atlanta, Georgia, United States, and together with its family of brands, Rheem pioneers and leads the industries we serve in America and all over the world.

While the company has produced a number of products in its nearly 100 years of operation, Rheem has evolved into the only manufacturer in the world that produces heating, cooling, water heating, pool & spa heating as well as commercial refrigeration products for both residential and commercial purposes. From industry-leading technologies to next-generation energy efficiencies, Rheem has been a trailblazer in developing some of the most innovative advancements in heating, cooling and water heating industries. With a long list of award-winning solutions, Rheem continues to deliver advanced comfort, savings and

experiences to our customers—just as we’ve done for nearly 100 years.

Our approach as a company is to keep the dialogue ongoing, listen, and then act. As a result, Rheem is able to constantly deliver innovations in the heating, cooling and water heating industries to provide our valued customers with new degrees of comfort.



11

R&D
CENTERS

13

RHEEM BUSINESS
CENTER

25

MANUFACTURING
FACILITIES

WHY RHEEM?

EXPERTISE

The Rheem® brand promise and central message remain: The Water Heater Experts.TM For decades, Richmond Water Heaters have showcased this expertise by delivering proven performance, quality and durability.

VALUE

Rheem® Water Heaters are manufactured with exceptional workmanship and top-quality materials-resulting in excellent performance, durability and efficiency.

EXCEPTIONAL PRODUCTS

The Rheem® brand will continue to provide a comprehensive line of exceptional water heating products with features engineered to exceed expectations of consumers and the industry.

SERVICE & SUPPORT

The Rheem® brand is a call away with expert service and support to help provide the best water heating solutions.

OUR EXPERTISE & ADVANTAGES



RELIABILITY

An American company with nearly 100 years of history 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.



WATER HEATING EXPERTS

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



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 of sustainable installation and recycling best practices.



SOLAR WATER HEATING

FEATURES & BENEFITS

POWER SAVINGS WITH EVERY USE

SUPERIOR THERMAL PERFORMANCE

ENJOY HOT WATER ALL ALONG

LONG LASTING EVEN IN HARSH
WEATHER

PROTECTION FROM HIGH-SALINITY

STURDY INSTALLATION



SYSTEM NOMENCLATURE

NOMENCLATURE 50HZ

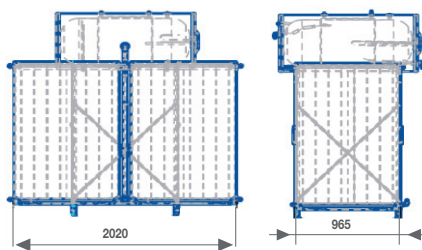
RH	S	150L	C1	A20	F21	T1 1	300
Brand	Offerings	Capacity in Liters	Collector Qty	Type Of Solar Collector	Support Base Angle	Tank Type:	Electric Backup
RH: RHEEM	S: Standard O: Optional	150L 200L 250L 300L	C1: One Collector C2: Two Collectors	A: Clear tempered, Mineral R 10/11 : GA 1.88m2 B: Mat Prismatic clear Mineral, R 10/11 : GA 1.88m2 C: Mat Prismatic clear double antireflective, R 13/16 : GA 1.88m2 D: Mat Prismatic clear double antireflective,, Rigid PU, R 13/16 : GA 2.0 m2 Tall, or Short E: Horizontal Clear tempered, Mineral R 16/17 : GA 1.88m2	F21: 21 degree F35: 25-35 degree F45: 45 degree	T1: Bottom Connections T2: Side Connections T3: Heat Pump Connection Tank Paint or Cover Material: 1: Prepainted Galvanized Steel 9006 2: Aluminum 3: Magnelis 4: SS304 5: Prepainted GS with RAL 9010	200 – 2kW 300 – 3kW 350 – 3.5kW



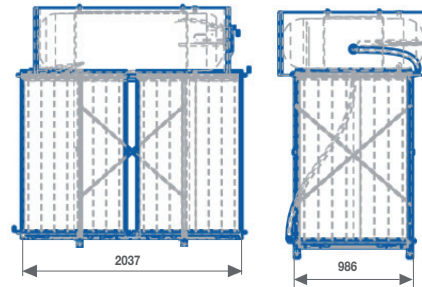
TECHNICAL SPECIFICATIONS: SYSTEM

Collector A20 (Gross Area 1.88m ²)		Standard Configuration with Collector Type A20: Clear Tempered, Mineral R 10 : Gross Area 1.88m ²							
S. No	Model Size	Cylinder Weight	"Cylinder Dimensions (LXWXD) mm"	Collector Qty	Collector Gross Area(m ²)	"Each Collector Weigh (kg)"	Test Pressure(bar)	Support Base Weight (kg)	Total Equipment Weight Empty (kg)
1	RHS150LC1-A20F21T11-150	58	1285x400	1	1.88	37	15	18.50	113.50
2	RHS200LC1-A20F21T11-200	68	1285x480	1	1.88	37	15	18.50	123.50
3	RHS200LC2-A20F21T11-200	68	1285x480	2	3.76	37	15	22.50	164.50
4	RHS250LC2-A20F21T11-200	82	1551x480	2	3.76	37	15	22.50	178.50
5	RHS300LC2-A20F21T11-200	100	1785x480	2	3.76	37	15	22.50	196.50

For Configuration : A , B & C

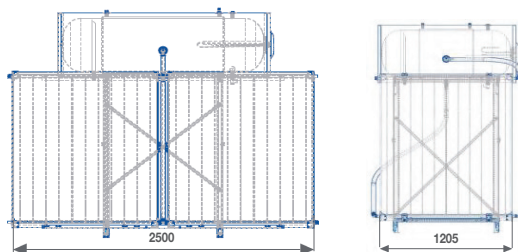


For Configuration :D

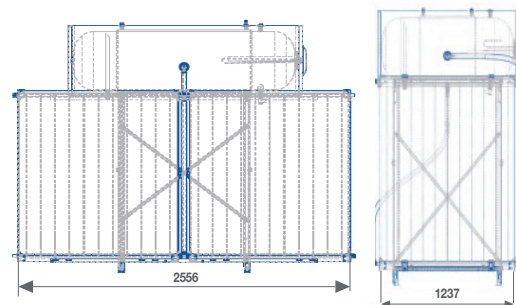


Collector A25 (Gross Area 2.37m ²)		Optional Configuration with Collector Type A25: Clear Tempered, Mineral R 11 : Gross Area 2.37m ²							
S. No	Model Size	Cylinder Weight	"Cylinder Dimensions (LXWXD) mm"	Collector Qty	Collector Gross Area(m ²)	"Each Collector Weigh (kg)"	Test Pressure(bar)	Support Base Weight (kg)	Total Equipment Weight Empty (kg)
1	RHO150LC1-A25F21T11-150	58	1285x400	1	2.37	41	15	18.50	117.50
2	RHO200LC1-A25F21T11-200	68	1285x480	1	2.37	41	15	18.50	127.50
3	RHO250LC1-A25F21T11-200	82	1551x480	1	2.37	41	15	18.50	141.50
4	RHO300LC1-A25F21T11-200	100	1785x480	1	2.37	41	15	18.50	159.50
5	RHO300LC2-A25F21T11-200	100	1785x480	2	4.74	41	15	22.50	204.50

For Configuration : A , B & C



For Configuration :D



Other Optional Collectors are as listed below,

Collector Type B: Mat Prismatic clear Mineral, R 10/11 : GA 1.88m²

Collector Type C: Mat Prismatic clear double antireflective, R 13/16 : GA 1.88m²

Collector Type D: Mat Prismatic clear double antireflective,, Rigid PU, R 13/16 : GA 2.0 m² Tall, or Short

Collector Type E: Horizontal Clear tempered, Mineral R 16/17 : GA 1.88m²

STORAGE TANKS

RHST11 TANK: STANDARD

TECHNICAL SPECIFICATIONS

	RHST11 model	150 lt	200 lt	250 lt	300 lt
	Gross Capacity (lt)	144	199	242	295
A	Tank's Length (mm)	1285	1285	1551	1785
B	External Diameter (mm)	Ø 500	Ø 580	Ø 580	Ø 580
C	Main Tank's Diameter (mm)	Ø 400	Ø 480	Ø 480	Ø 480
	Jacket's Capacity (lt)	8	9	12	19
D	Flange Diameter (mm)	Ø 140	Ø 140	Ø 140	Ø 140
	Weight (kg)	58	68	82	100

Main Tank's Material: DC Sheet (EN 10130/2006)

Internal Anti-corrosion Protection: a) LIQUID enamel (DIN 4753-3), totally safe for public health (DIN 51032 & EN 1388-2) and b) magnesium anode (EN 12438)

Welding: MIG

Insulation: Hard polyurethane foam 48kg/m³ (DIN 53420), self-extinguishing (DIN 4102)

Maximum Working Pressure for the Main Tank: 10 bar

Test pressure for the Main Tank: 15 bar (EN 12976-1, 4.1.6)

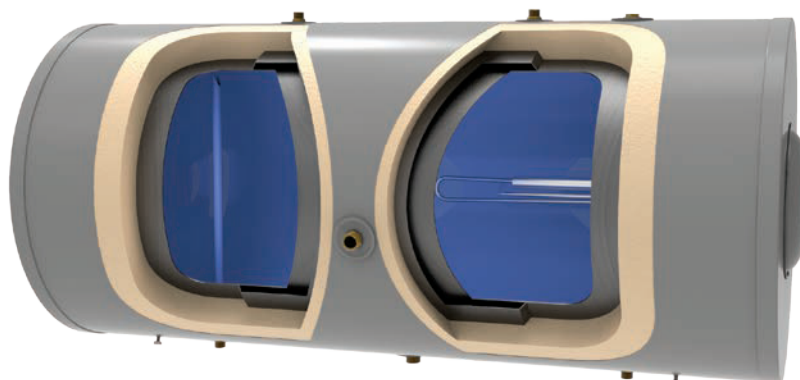
Maximum Working Pressure for the Jacket (exchanger): 3,2 bar

Test Pressure for the Jacket (Exchanger): 5 bar (EN 12976-1/2006, 4.1.6)

Maximum Working Temperature of the Main Tank: 95°C

Heating Element: 2.0kW

External Cover: Pre-painted galvanized steel sheet 0,5mm (EN 10204 / 2.2)



SOLAR THERMAL COLLECTORS

RHA COLLECTOR: STANDARD

TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTERISTICS RHA20 - FULL FACE		
TYPE		RHA15	RHA20	RHA25
Extrenal dimensions (height x width x thickness)	mm	1460x960x80	1960x960x80	1960x1260x80
Gross area	m ²	1,40	1,88	2,37
Aperture area	m ²	1,32	1,79	2,27
Absorber area	m ²	1,35	1,83	2,33
Absorber capacity	L	1,45	1,63	1,81
Compact Tray / thickness	mm	Pre-painted galvanized metal sheet / 0,5		
Glass		Clear tempered		
Insulation (Back and side) thickness / density	mm / Kg/m ³	Mineral glass wool 30mm / density 24 kg/m ³ . Product specifically designed for collectors, with very low conductivity to avoid losses. It is certified that it prevents glass fogging of the collector.		
Absorber		Copper harp-type, Full Face Aluminum Selective Surface. Laser welding.		
Absorbtion	%	95		
Emission	%	5		
Header copper tube Ø / thickness	mm	Ø 22 / 0,70		
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,40		
Number of vertical risers	No.	10	10	11
Maximum operating pressure	Bar	10		
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)		
Layout		Vertical		
Weight (empty & packed)	Kg	30	37	41





STANDARD



RAL 9006

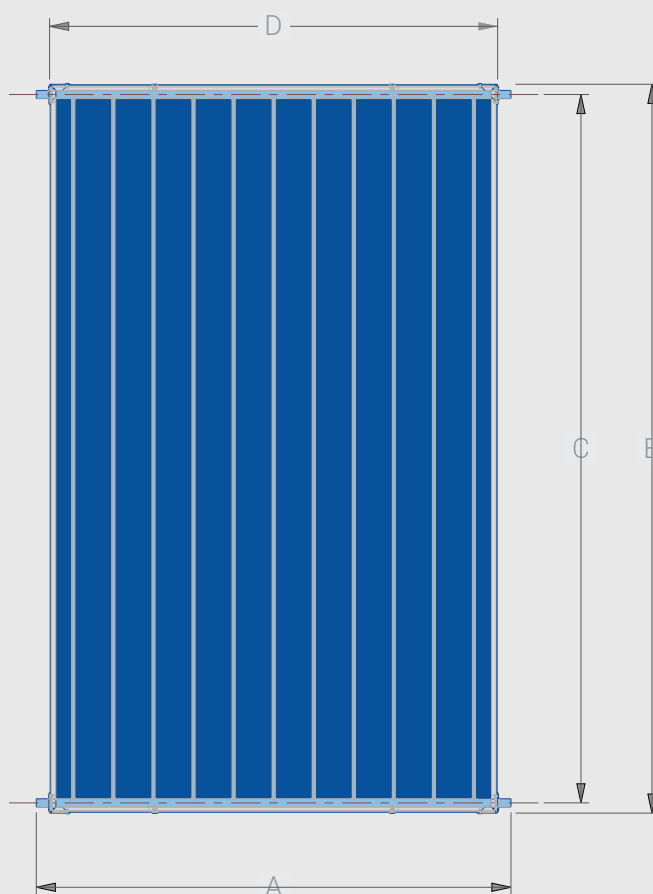
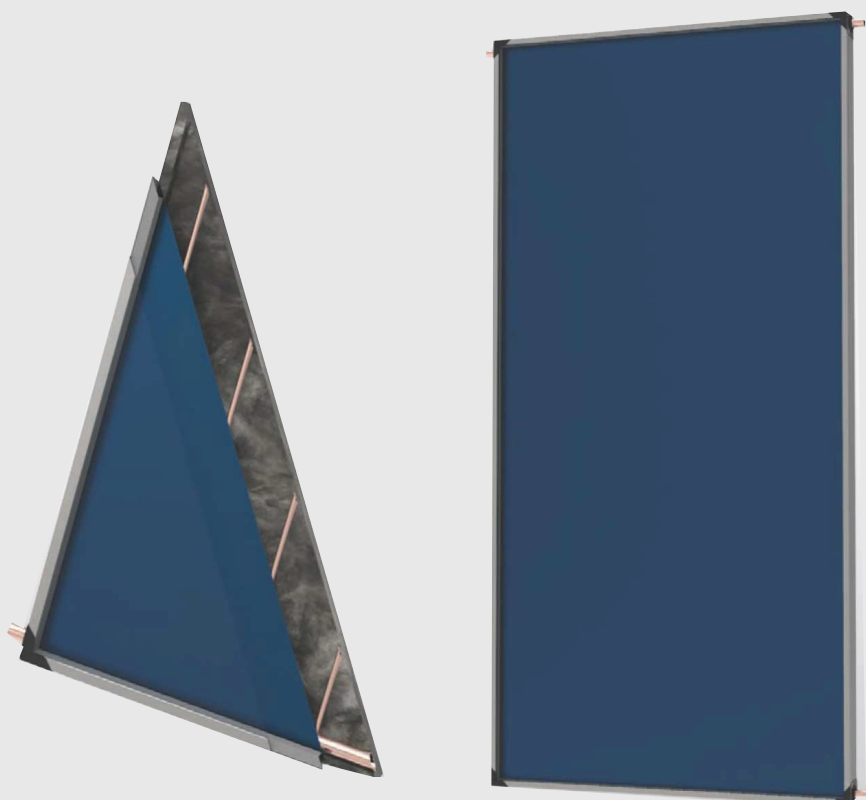
OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum



RHA15

A	1030 mm
B	1460 mm
C	1405 mm
D	960 mm

RHA20

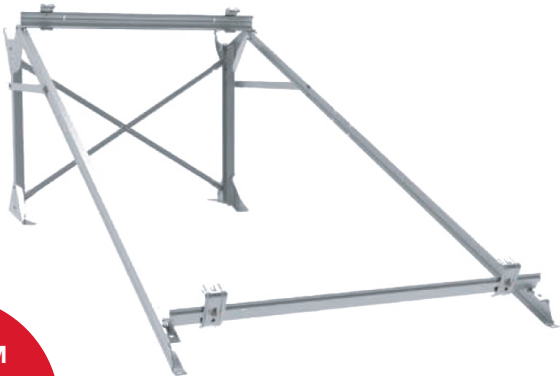
A	1030 mm
B	1960 mm
C	1910 mm
D	960 mm

RHA25

A	1280 mm
B	1960 mm
C	1910 mm
D	1210 mm

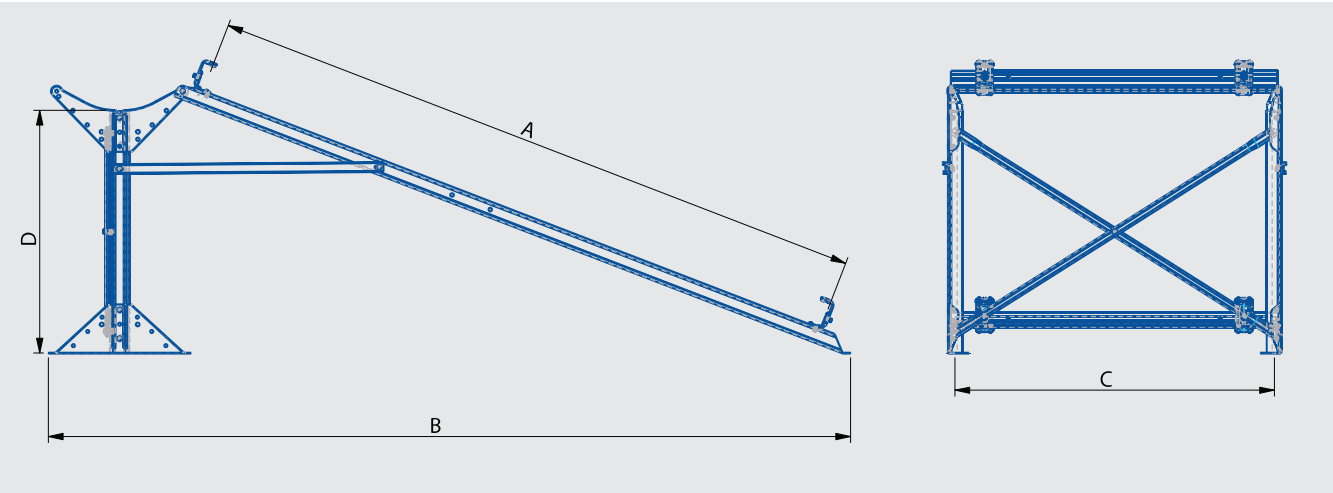
RH: BASE (21°)

DIMENSIONS (MM)	
A	1875 to 2005
B	2383
C	940
D	720
Kg (one collector)	17,44
Kg (two collectors)	21,98



MAXIMUM
SYSTEM
CAPACITY
TO SUPPORT
300L

Collector	Collectors Quantity	
2 m²	1	2
2,5 m²	1	2

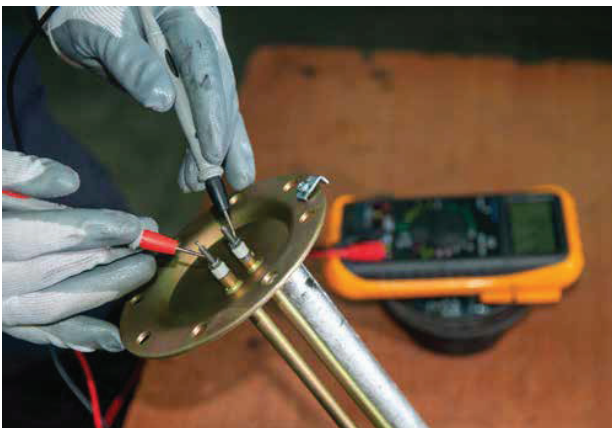


QUALITY CONTROL

FOR MATERIALS AND PRODUCTS



CONTROL & DEVELOPMENT OF PRODUCTS





The new degree of comfort.®



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