





A BRIEF INTRODUCTION

A Global American Brand



About Richmond®?

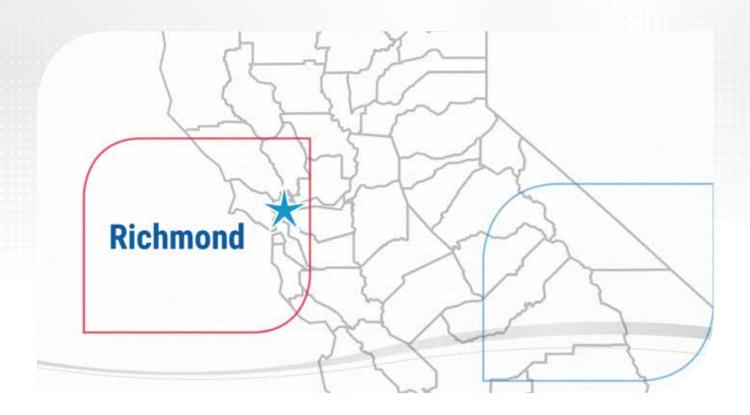
Exceptional Performance And Value From The Water

Heater Experts Richmond Water Heaters are manufactured by Rheem®, the company which invented water heaters.

Richmond was named in honor of Rheem's first company headquarters in Richmond California. The Richmond brand was established in 1983 to offer exceptional performance water heaters. We put the best materials and workmanship into our Richmond brand to produce water heaters that are exceptional values.











RICHMOND COMMITMENT & DESIGN PHILOSOPHY

Our commitment to SUSTAINABILITY

Adoption of R410A Refrigerant

A GREATER DEGREE OF GOOD

As a member of the Rheem® family of brands, Richmond® is a big part of Rheem Manufacturing's commitment to taking a greater degree of responsibility for future generations.

NEXT-GENERATION THINKING

We're focused on innovating Richmond products with intent, designing solutions with lifetime sustainability in mind—from material selection to smart features to responsible recycling. And, our products are made to meet our customers' needs—giving them greater control over their energy and water consumption, lowering their environmental impact. We are transforming the industry by introducing ground-breaking, intelligent air and water products to homes and businesses around the globe.







THE EXPERTS IN SOLAR WATER HEATING SOLUTIONS



- WITH EVERY USE
- •SUPERIOR THERMAL PERFORMANCE
- ALL ALONG
- **•LONG LASTING FVFN** IN HARSH WEATHER
- HIGH-SALINITY •STURDY
- INSTALLATION

Technical Specifications: System

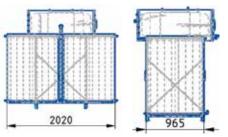
		,	Standard Configu	ration: A (Cle	ar Tempered, Mi	neral R 10/11 : GA	1.88m2)		
S. No	Model Size	Weight	"Cylinder Dimenssions (LXWXD) mm"	Collector	Surface Gross Area	"Weigh kg (per collector)"	Pressure Test (bar)	Support Base Weight kg	Total Equipment Weight Empty kg
1	RMS150LC1-A20F21T11	58	1285x400	1	1.88	37	15	21.62	116.62
2	RMS200LC1-A20F21T11	68	1285x480	1	1.88	37	15	21.62	126.62
3	RMS200LC2-A20F21T11	68	1285x480	2	3.76	37	15	24.88	166.88
4	RMS250LC2-A20F21T11	82	1551x480	2	3.76	37	15	24.88	180.88
5	RMS300LC2-A20F21T11	100	1785x480	2	3.76	37	15	24.88	198.88

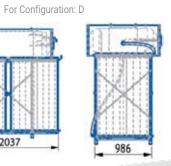
	Optional Configuration: B(Mat Prismatic clear Mineral, R 10/11 : GA 1.88m2)								
S. No	Model Size	Weight	"Cylinder Dimenssions (LXWXD) mm"	Collector	Surface Gross Area	"Weigh kg (per collector)"	Pressure Test (bar)	Support Base Weight kg	Total Equipment Weight Empty kg
1	RM0150LC1-B20F21T11	58	1285x400	1	1.88	37	15	21.62	116.62
2	RM0200LC1-B20F21T11	68	1285x480	1	1.88	37	15	21.62	126.62
3	RM0200LC2-B20F21T11	68	1285x480	2	3.76	37	15	24.88	166.88
4	RM0250LC2-B20F21T11	82	1551x480	2	3.76	37	15	24.88	180.88
5	RM0300LC2-B20F21T11	100	1785x480	2	3.76	37	15	24.88	198.88

	Optional Configuration:C (Mat Prismatic clear double antireflective, R 13/16 : GA 1.88m2)								
S. No	Model Size	Weight	"Cylinder Dimenssions (LXWXD) mm"	Collector	Surface Gross Area	"Weigh kg (per collector)"	Pressure Test (bar)	Support Base Weight kg	Total Equipment Weight Empty kg
1	RM0150LC1-C20F21T11	58	1285x400	1	1.88	37	15	21.62	116.62
2	RM0200LC1-C20F21T11	68	1285x480	1	1.88	37	15	21.62	126.62
3	RM0200LC2-C20F21T11	68	1285x480	2	3.76	37	15	24.88	166.88
4	RM0250LC2-C20F21T11	82	1551x480	2	3.76	37	15	24.88	180.88
5	RM0300LC2-C20F21T11	100	1785x480	2	3.76	37	15	24.88	198.88

	Optional Configuration:D(Mat Prismatic clear double antireflective, Rigid PU, R 13/16 : GA 2.0 m2 Tall, or Short)								
S. No	Model Size	Weight	"Cylinder Dimenssions (LXWXD) mm"	Collector	Surface Gross Area	"Weigh kg (per collector)"	Pressure Test (bar)	Support Base Weight kg	Total Equipment Weight Empty kg
1	RM0150LC1-D20F21T11	58	1285x400	1	2.00	38	15	21.62	117.62
2	RMU0200LC1-D20F21T11	68	1285x480	1	2.00	38	15	21.62	127.62
3	RM0200LC2-D20F21T11	68	1285x480	2	4.00	38	15	24.88	168.88
4	RM0250LC2-D20F21T11	82	1551x480	2	4.00	38	15	24.88	182.88
5	RM0300LC2-D20F21T11	100	1785x480	2	4.00	38	15	24.88	200.88

For Configuration: A, B & C





STORAGE TANKS

RMST11 Tank: Standard

TECHNICAL SPECIFICATIONS

	RMST11 model	150 lt	200 lt	250 lt	300 lt
	Gross Capacity (It)	144	199	242	295
А	Tank's Length (mm)	1285	1285	1551	1785
В	External Diameter (mm)	Ø 500	Ø 580	Ø 580	Ø 580
С	Main Tank's Diameter (mm)	Ø 400	Ø 480	Ø 480	Ø 480
	Jacket's Capacity (It)	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: Optional, upon request

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



















OPTIONAL



OPTIONALEXTERNAL MATERIAL



Magnelis



Aluminum

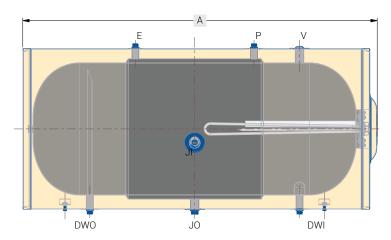


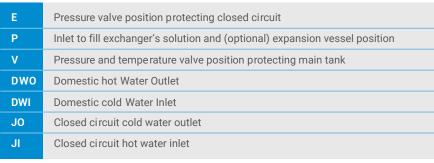
Stainless Steel (SS304, SS430)

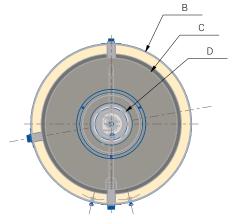


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"For optional colors, please check with your sales representative for more details"







Standard Element KW are: For 150Lto 200L: 2KW, For 250L to 300L: 3.5KW,

For other optional KW within the available range of 1.5 to 3.5 KW

Please check with your sales representatives for more details.



RMOT21 Tank: Optional

(SIDE CONNECTION FOR CLOSED CIRCUIT, DOMESTIC HOT-COLD WATER INLET & OUTLET)

STANDARD

RAL 9006

AVAILABLE
IN DIFFERENT
COLOURS
(PRE-PAINTED
GALVANIZED
STEEL SHEET)

OPTIONAL



RAL 9010

OPTIONALEXTERNAL MATERIAL



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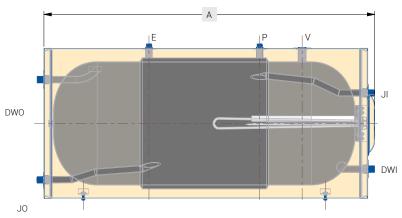
Aluminum



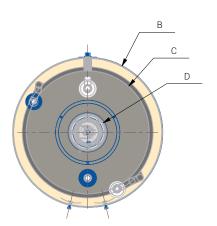
Stainless Steel (SS304, SS430)



"For optional colors, please check with your sales representative for more details"



E	Pressure valve position protecting closed circuit
Р	Inlet to fill exchanger's solution and (optional) expansion vessel position
V	Pressure and temperature valve position protecting main tank
DWO	Domestic hot Water Outlet
DWI	Domestic cold Water Inlet
JO	Closed circuit cold water outlet
JI	Closed circuit hot water inlet



Standard Element KW are: For 150Lto 200L:2KW, For 250L to 300L: 3.5KW,

For other optional KW within the available range of 1.5 to 3.5 KW

Please check with your sales representatives for more details.

RMOT31 Tank: Optional

(DESIGNED FOR HEAT PUMPS)

STANDARD

RAL 9006

AVAILABLE IN DIFFERENT COLOURS (PRE-PAINTED GALVANIZED

OPTIONAL



RAL 9010



OPTIONAL EXTERNAL MATERIAL



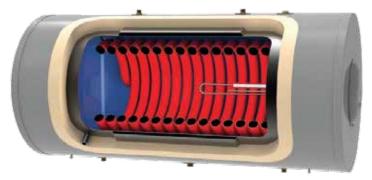
Magnelis



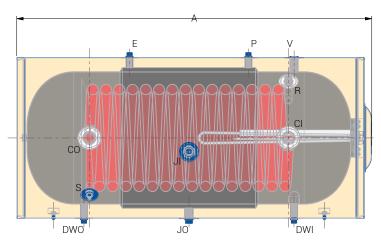
Aluminum



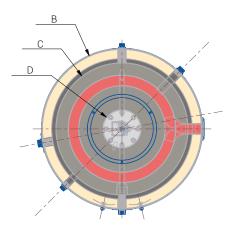
Stainless Steel (SS304, SS430)



"For optional colors, please check with your sales representative for more details"



Е	Pressure valve position protecting closed circuit
Р	Inlet to fill exchanger's solution and (optional) expansion vessel position
V	Pressure and temperature valve position protecting main tank
DWO	Domestic hot Water Outlet
DWI	Domestic cold Water Inlet
JO	Closed circuit cold water outlet
JI	Closed circuit hot water inlet



Standard Element KW are: For 150Lto 200L:2KW, For 250L to 300L: 3.5KW,

For other optional KW within the available range of

1.5 to 3.5 KW

Please check with your sales representatives for more details.



Solar thermal Collectors

RMA Collector: Standard

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTERISTICS RMA20 - FULL FACE				
ТҮРЕ		RMA15	RMA20	RMA25		
Extrenal dimensions (height x width x thickness)	mm	1460x960x80	1960x960x80	1960x1260x80		
Gross area	m²	1,40	1,88	2,37		
Aperture area	m²	1,32	1,79	2,27		
Absorber area	m²	1,35	1,83	2,33		
Absorber capacity	L	1,45	1,63	1,81		
Compact Tray / thickness	mm	Pre-painted galvar	nized metal sheet / 0,5			
Glass		Clear tempered				
Insulation (Back and side) thickness / density	mm /Kg/m³	Mineral glass wool 30mm / density 24 kg/m3. 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, Laser welding.	Full Face Aluminum Se	elective Surface.		
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	1	1		
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)				
Layout		Vertical				
Weight (empty & packed)	Kg	30	37	41		













STANDARD



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OPTIONALEXTERNAL MATERIAL



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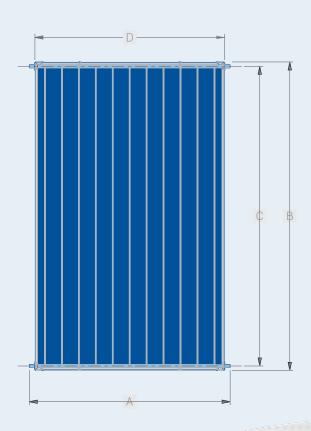
Aluminum

RMA15			
Α	1030 mm		
В	1460 mm		
С	1405 mm		
D	960 mm		

RMA20				
Α	1030 mm			
В	1960 mm			
С	1910 mm			
D	960 mm			

RMA25				
Α	1280 mm			
В	1960 mm			
С	1910 mm			
D	1210 mm			







RME Horizontal Collector: Optional

(with frame)

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTERISTICS RME20 - FULL FACE			
TYPE		RME20	RME25		
Extrenal dimensions (height × width × thickness)	mm	960×1965×80	1210×1965×80		
Gross area	m²	1,88	2,38		
Aperture area	m²	1,79	2,28		
Absorber area	m²	1,85	2,34		
Absorber capacity	L	1,94	2,15		
Frame / thickness	mm	Pre-painted galvanized	metal sheet / 0,5		
Glass		Clear tempered			
Insulation (Back and side) thickness / density	mm /Kg/m²	Mineral glass wool thickness 30mm / density 50 kg/m3. Product specifically designed for collectors, with very low conductivity to avoid losses. Its properties remain unchange over time. Parasites are prevented.			
Absorber		Copper harp-type, Full F Laser welding.	Face Aluminum Selective Surface.		
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.	16	17		
Maximum operating pressure	Bar	10	'		
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)			
Layout		Horizontal	Horizontal		
Weight (empty & packed)	Kā	34	42		



STANDARD



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OPTIONALEXTERNAL MATERIAL



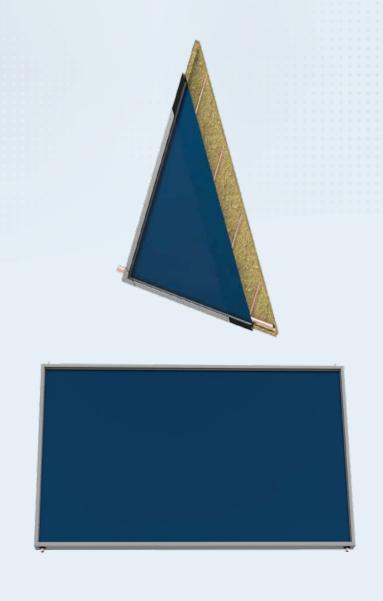
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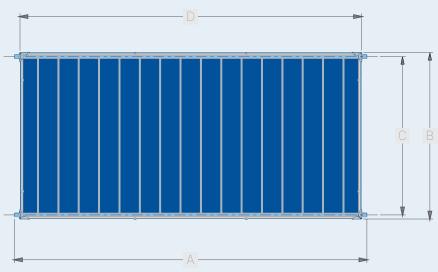


Aluminum

RME20		
Α	2028 mm	
В	960 mm	
С	911 mm	
D	1965 mm	

RME25		
Α	2028 mm	
В	1210 mm	
С	1161 mm	
D	1965 mm	







RMB Vertical Collector: Optional

(with frame)

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTERIS	ACTERISTICS RMB20 - FULL FACE	
ТҮРЕ		RMB20	RMB25	
Extrenal dimensions (height × width × thickness)	mm	1970×965×80 1970×1220×80		
Gross area	m²	1,90	2,40	
Aperture area	m²	1,79	2,27	
Absorber area	m²	1,83	2,33	
Absorber capacity	L	1,63	1,81	
Compact Tray / thickness	mm	Pre-painted galvanized m	netal sheet / 0,5	
Glass		Mat prismatic, extra clear, tempered		
Insulation (Back and side) thickness / density	mm /Kg/m²	Mineral glass wool 30mm / density 24 kg/m3. Product specifically designed for collectors, with very low conductivit 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	11	
Maximum operating pressure	Bar	10		
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)		
Layout		Vertical		
Weight (empty & packed)	Kg	33	41	



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OPTIONALEXTERNAL MATERIAL



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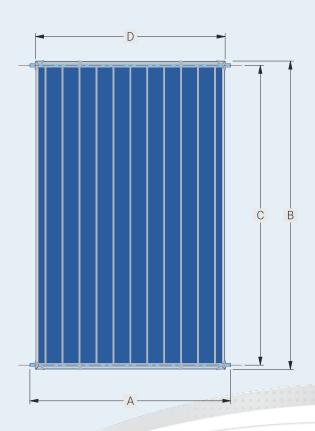


Aluminum

RMB20		
Α	1030 mm	
В	1960 mm	
С	1910 mm	
D	960 mm	

RMB25		
Α	1280 mm	
В	1960 mm	
С	1910 mm	
D	1210 mm	







RMC Collector: Optional

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTER	ISTICS RMC20 - FULL FACE
TYPE		RMC20	RMC25
Extrenal dimensions (height × width × thickness)	mm	1960×960×80 1960×1210×80	
Gross area	m²	1,88	2,38
Aperture area	m²	1,79	2,28
Absorber area	m²	1,85	2,34
Absorber capacity	L	1,64	2,09
Compact / thickness	mm	Pre-painted galvanized metal sheet / 0,5	
Glass		Mat prismatic, extra clear, double antireflective, tempered.	
Insulation (Back and side) thickness / density	mm /Kg/m²	Mineral glass wool 30mm / density 24 kg/m3. 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	%	96	
Emission	%	4	
Header copper tube Ø / thickness	mm	Ø 22 / 0,70	
Riserer copper tube Ø / thickness	mm	Ø 8 / 0,4	
Number of vertical risers	No.	13 16	
Maximum operating pressure	Bar	10	
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)	
Layout		Vertical	



STANDARD



OPTIONALEXTERNAL MATERIAL

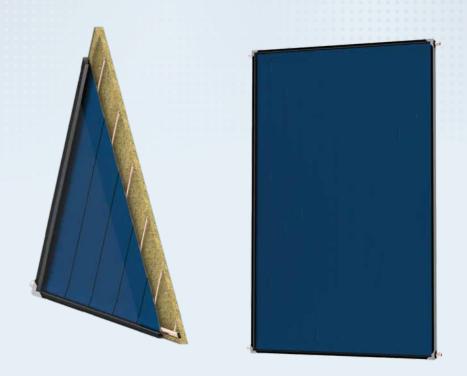


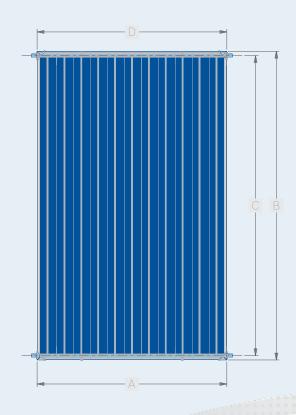
Magnelis



RMC20		
Α	1030 mm	
В	1960 mm	
С	1910 mm	
D	960 mm	

RMC25		
Α	1280 mm	
В	1960 mm	
С	1910 mm	
D	1210 mm	







RMD Collector: Optional

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTERISTICS RMD20 - FULL FACE		
ТҮРЕ		RMD20 (T)	RMD20 (S)	RMD25
Extrenal dimensions (height x width x thickness)	mm	2020×990×103	1594x1254x103	2020x1254x103
Gross area	m²	2	2	2,53
Aperture area	m²	1,85	1,85	2,38
Absorber area	m²	1,83	1,83	2,35
Absorber capacity	L	1,48	1,67	1,89
Frame / thickness	mm	Pre- painted aluminum (frame) / 1 Pre- painted steel sheet (back) / 0,5		
Glass		Mat prismatic, extra clear,double antireflective, tempered.		
Insulation (Back and side) thickness / density	mm /Kg/m³	Rigid polyurethane thickness 25mm / density 40kg/m' & rockwool thickness 30mm / density 50kg/m'. A material specifically designed for collectors, with very low contactivity preventing energy loss. Its properties remain unchanged throughout its life cycle. Prevents parasites growth.		
Absorber		Placed on the sides and the back of polyurethane insulation to reflect heat on the absorber.		
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	13	13
Maximum operating pressure	Bar	10		
Heat transfer mean		Antifreeze and water solution (monopropylene glycol)		
Layout		Vertical		
Weight (empty & packed)	K ^g	38	38	43



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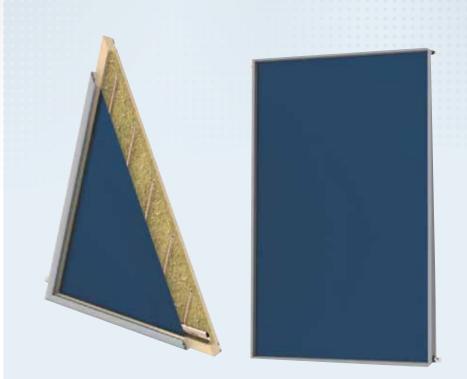


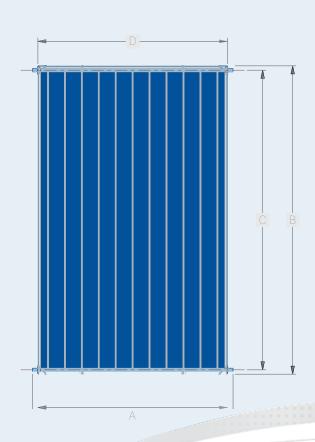
Aluminum

RMD20 (T)		
Α	1046 mm	
В	2020 mm	
С	1923 mm	
D	990 mm	

RMD20 (S)		
Α	1310 mm	
В	1594 mm	
С	1497 mm	
D	1254 mm	

RMD25		
Α	1310 mm	
В	2020 mm	
С	1923 mm	
D	1254 mm	







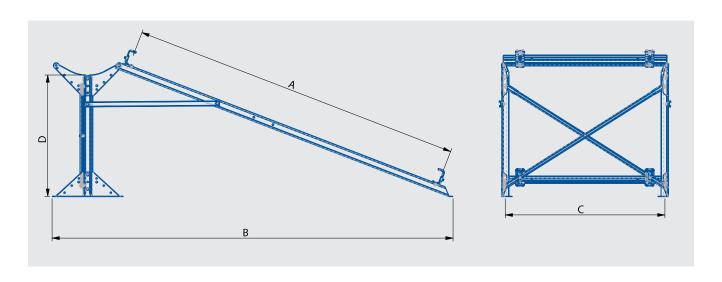
SUPPORT BASES

RMSF21 Base: Standard (21°)

DIMENSIONS (MM)		
Α	1875 to 2005	
В	2383	
С	940	
D	720	
Kg (one collector)	17,44	
Kg (two collectors)	21,98	

collector	Collectors Quantity	
2 m ²	1	2
2,5 m ²	1	2







RMOF35 Base: Optional (25°-35°)

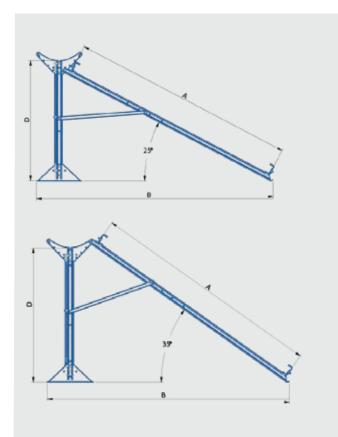
DIMENSIONS (MM)			
Α	1885 to 2020		
В	2120 (35) to 2135 (25)		
С	940		
D	1082 (35) to 1175 (25)		
Kg (one collector)	18,5		
Kg (two collectors)	22,5		

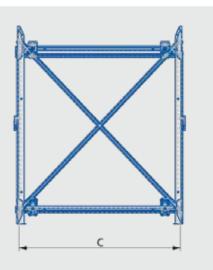


m² collector	Collectors Quantity	
2 m ²	1	2
2,5 m ²	1	2









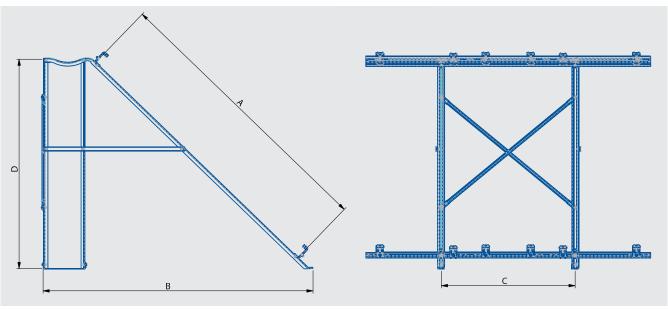


RMOF45 Base: Optional (45°)

DIMENSIONS (MM)			
Α	1405 to 1545	1880 to 2020	
В	1561	1895	
С	780 / 940	780 / 940	
D	1125	1470	
Kg (one collector)	18,2	21,62	
Kg (two collectors)	21,14	24,88	

m² collector	Collectors Quantity	
1.5 / 2 m ²	1	2
2,5 m ²	1	2







QUALITY CONTROL FOR MATERIALS AND PRODUCTS









Control and development of products













Richmond Water Heaters are manufactured by Rheem®, the company which invented water heaters.

Richmond was named in honor of Rheem's first company headquarters in Richmond California.

The Richmond brand was established in 1983 to offer exceptional performance water heaters.

We put the best materials and workmanship into our Richmond brand to produce water heaters that are exceptional values.

