



PRESENTING RHEEM'S LATEST

## S°LAR POWERED

WATER HEATING SYSTEM









#### A Global American Brand

## Why choose Rheem®?

It is our **vision** to be a **strong global organization** with **world-class** processes, a robust infrastructure, and sound cultural values. It is also our vision to be a product **innovation leader** in all key markets served, producing consistently high-quality products—at the right cost, delivered on time, while providing superior value and service through recognition of the diverse needs of our customers.

1 R & D Centers

13 Rheem Business

25 Manufacturing Facilities





## SERVING YOU FOR NEAR 100 YEARS

## About Rheem®?

Founded in 1925, Rheem® is nearly a 100 year old North American manufacturer delivering innovative, energy-efficient air-conditioning and water-heating solutions under one roof to homes and business in more than 70 countries worldwide. From its Atlanta, Ga. Headquarters, three U.S.. manufacturing facilities, state-of-the-art distribution centre and Advanced Technology Integration (ATI) Lab, Rheem® designs, builds and supplies some of the most reliable, environmentally responsible and technologically advanced products in the industry. Under the "One Rheem Quality" promise, every Rheem® build everywhere in the world is held to the same high standard of excellence.





# Our commitment to SUSTAINABILITY

For nearly 100 years, Rheem has been a leader in heating, cooling and water heating innovation. And 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 and equally bold commitment.

## DESIGNED FOIZ ZETZO WASTE

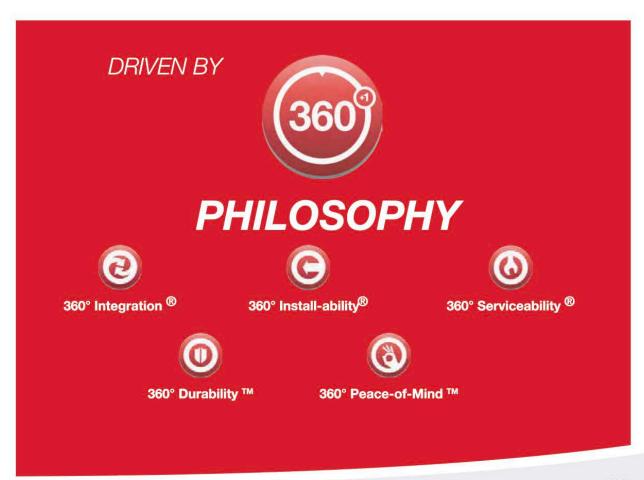


### Our Philosophy of Innovation

We believe the best design delivers everything our customers need and want. The Rheem® 360°+1 design philosophy embodies this commitment to examine every aspect of every product (and program) we develop from every angle, so we can provide the ultimate performance, installability, serviceability, durability, integration, peace of mind and partnership for consumers and industry professionals alike. The Rheem® 360°+1 design philosophy applies to everything we do—from the way we build our products, to the way we continue to build our reputation.

#### 360°+1 Pillars

The Rheem® 360°+1 design philosophy is built around pillars that guide us in innovating even better solutions for our customers. These pillars bring our 360°+1 design philosophy to life, helping us further explain the benefits we deliver.









#### PRESENTING RHEEM'S LATEST

## S°LAR POWERED

WATER HEATING SYSTEM



## System Nomenclature

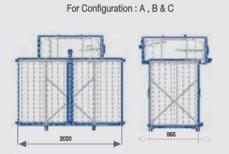
Nomenclature 50Hz							
RX	S	150L	C1	A20	F21	T1 1	EHC
Brand	Offerings	Capacity in Liters	Collector Qty	Type Of Solar Collector	Support Base Angle	Tank Type:	EHC Type
RH: RHEEM	S: Standard O: Optional	150L 200L 250L 300L	C1: One Collector C2: Two Collectors	A: Clear tempered, Mineral R 10/11: GA 1.88m2 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	150L-1.5KV 200L-2.0KV 250L-2.0KV 300L-2.0KV
						Tank Paint or Cover Material: 1: Prepainted Galvanized Steel 9006 2: Aluminum 3: Magnelis 4: SS304 5: Prepainted GS with RAL 9010	

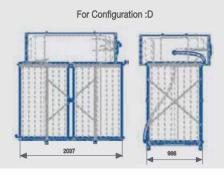




## Technical Specifications: System

Collect	tor A20 (Gross Area 1.88m2)	Standard Configuration with Collector Type A20: Clear Tempered, Mineral R 10 Gross Area 1.88m2							1.88m2
S. No	Model Size	Cylinder Weight	"Cylinder Dimenssions (LXWXD) mm"	Collector Qty	Collector Gross Area(m²)	"Each Collector Weigh (kg)"	Test Pressure(bar)	Support Base Weight (kg)	Total Equipment Weight Empty (kg)
1	RXS150LC1-A20F35T11-150	58	1285x400	1	1.88	37	15	18.50	113.50
2	RXS200LC1-A20F35T11-200	68	1285x480	1	1.88	37	15	18.50	123.50
3	RXS200LC2-A20F35T11-200	68	1285x480	2	3.76	37	15	22.50	164.50
4	RXS250LC2-A20F35T11-200	82	1551x480	2	3.76	37	15	22.50	178.50
5	RXS300LC2-A20F35T11-200	100	1785x480	2	3.76	37	15	22.50	196,50





Collect	tor A25 (Gross Area 2.37m²)	Optio	onal Configuration	with Collect	or Type A25: Clear	Tempered, Mineral	R 11 : Gross Are	a 2.37m2)	
S. No	Model Size	Cylinder Weight	Committee of the commit	Collector Qty	Collector Gross Area(m²)	"Each Collector Weigh (kg)"	Test Pressure(bar)	Support Base Weight (kg)	Total Equipment Weight Empty (kg)
1	RXO150LC1-A25F35T11-150	58	1285x400	1	2.37	41	15	18.50	117.50
2	RXO200LC1-A25F35T11-200	68	1285x480	1	2.37	41	15	18.50	127.50
3	RXO250LC1-A25F35T11-200	82	1551x480	1	2.37	41	15	18.50	141.50
4	RXO300LC1-A25F35T11-200	100	1785x480	1	2.37	41	15	18.50	159.50
5	RXO300LC2-A25F35T11-200	100	1785x480	2	4.74	41	15	22.50	204.50



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 (It)	144	199	242	295
Α	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)









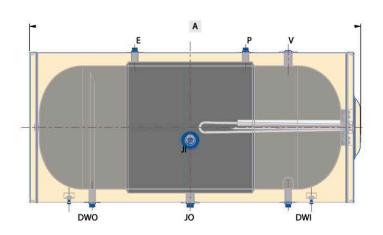


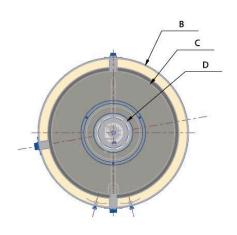






"For optional colors, please check with your sales representative for more details"





E	Pressure valve position protecting closed circuit	
P	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.



### RHOT21 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

#### OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum

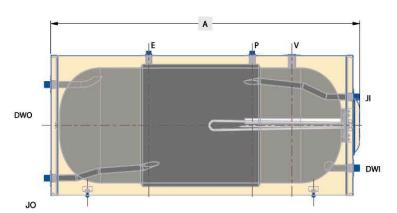


Stainless Steel (SS304, SS430)

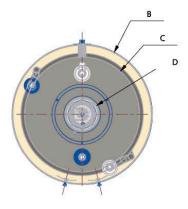




"For optional colors, please check with your sales representative for more details"



E	Pressure valve position protecting closed circuit
P	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
1000	



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.

### RHOT31 Tank: Optional

( DESIGNED FOR HEAT PUMPS )

#### **STANDARD**



**RAL 9006** 

AVAILABLE IN DIFFERENT COLOURS (PRE-PAINTED GALVANIZED STEEL SHEET

#### **OPTIONAL**



**RAL 9010** 

## OPTIONAL EXTERNAL MATERIAL



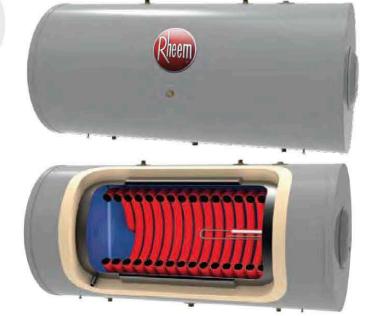
Magnelis



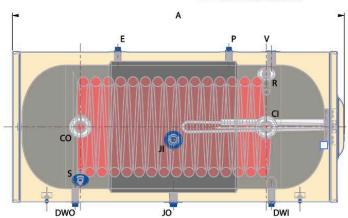
Aluminum

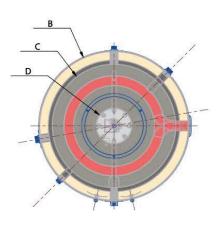


Stainless Steel (SS304, SS430)



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





E Pressure valve position protecting closed circuit P

٧

JO

JI

Inlet to fill exchanger's solution and (optional) expansion vessel position Pressure and temperature valve position protecting main tank

DWO Domestic hot Water Outlet

Domestic cold Water Inlet DWI

Closed circuit cold water outlet

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**

## RHA Collector: Standard

#### **TECHNICAL SPECIFICATIONS**

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S C	HARACTERISTICS R	HA20 - FULL FACE	
TYPE		RHA15	RHA20	RHA25	
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 galva	nized metal sheet / 0,5		
Glass		Clear tempered			
Insulation (Back and side) thickness / density	mm / Kg/m³	designed for colle		n/m3. Product specifically nductivity to avoid losses g of the collector.	
Absorber		Copper harp-type Laser welding.	, Full Face Aluminum S	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.	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

С

A 1030 mm

B 1460 mm

1405 mm

D 960 mm

#### RHA20

A 1030 mm

B 1960 mm

C 1910 mm

D 960 mm

#### RHA25

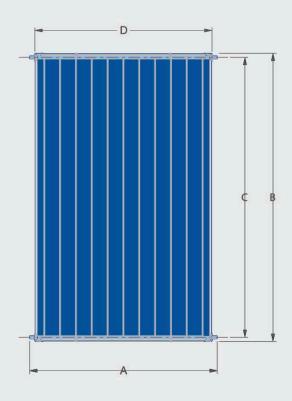
D

A 1280 mm B 1960 mm C 1910 mm

1210 mm









## RHE Horizontal Collector: Optional

## (with frame)

#### TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTE	ERISTICS RHE20 - FULL FACE
TYPE		RHE20	RHE25
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 n	netal sheet / 0,5
Glass		Clear tempered	
Insulation (Back and side) thickness / density	mm / Kg/m³	Product specifically desi	ness 30mm / density 50 kg/m3. igned for collectors, with very low ses. Its properties remain unchanged prevented.
Absorber		Copper harp-type, Full Fa	ace 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 solu	ution (monopropylene glycol)
Layout		Horizontal	
Weight (empty & packed)	Kg	34	42









#### STANDARD

RAL 9006

#### OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum

#### RHE20

A 2028 mm

B 960 mm

C 911 mm

D 1965 mm

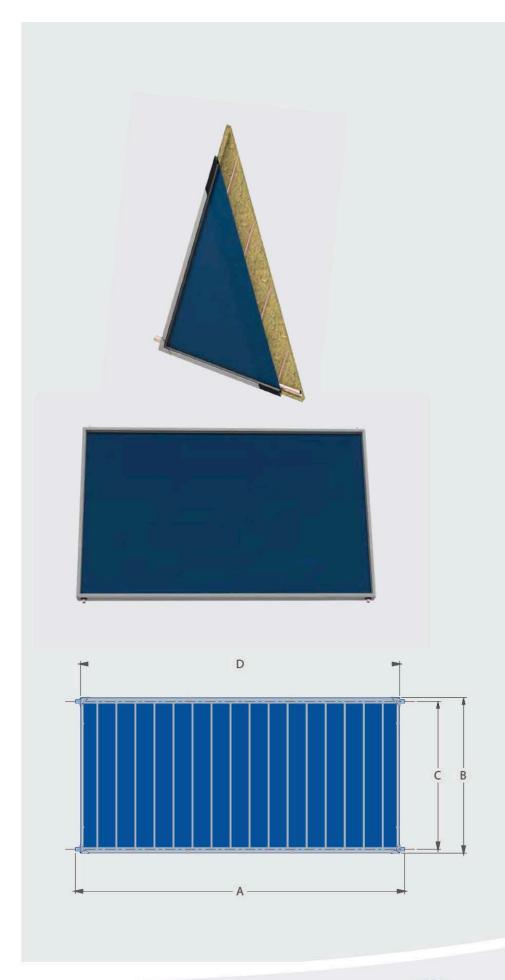
#### RHE25

A 2028 mm

B 1210 mm

C 1161 mm

D 1965 mm





## RHB Vertical Collector: Optional

## (with frame)

#### TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARACTE	ERISTICS RHB20 - FULL FACE	
ТҮРЕ		RHB20	RHB25	
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 r	metal sheet / 0,5	
Glass		Mat prismatic, extra clea	r, 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 conductive to avoid losses. It is certified that it prevents glass fogging of the collector.		
Absorber		Copper harp-type, Full F Laser welding.	ace Aluminum Selective Surface.	
Absorbtion	%	95		
Emission	%	5		
Header copper tube Ø / thickness	mm	Ø 22 / 0,70		
Riserer copper tube ਹੈ / thickness	mm	Ø 8 / 0,40		
Number of vertical risers	No.	10	11	
Maximum operating pressure	Bar	10		
leat transfer mean		Antifreeze and water solo	ution (monopropylene glycol)	
.ayout		Vertical		
Weight (empty & packed)	Kg	33	41	









#### **STANDARD**

RAL 9006

## OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum

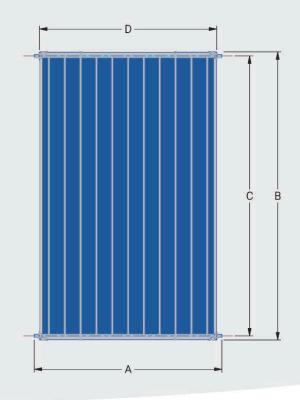
#### RHB20

1030 mm В 1960 mm С 1910 mm D 960 mm

#### RHB25

1280 mm 1960 mm С 1910 mm D 1210 mm







## RHC Collector: Optional

#### TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S CHARAC	TERISTICS RHC20 - FULL FACE		
ТҮРЕ		RHC20	RHC25		
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 cle	ear, double antireflective, tempered.		
Insulation (Back and side) thickness / density	mm / Kg/m³	specifically designed for	Mineral glass wool 30mm / density 24 kg/m3. Product specifically designed for collectors, with very low conductivito avoid losses. It is certified that it prevents glass fogging of the collector.		
Absorber		Copper harp-type, Full Laser welding.	Face Aluminum Selective Surface.		
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	e Bar	10			
Heat transfer mean		Antifreeze and water so	olution (monopropylene glycol)		
Layout		Vertical			





#### STANDARD

RAL 9006

#### OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum

#### RHC20

A 1030 mm B 1960 mm

C 1910 mm D 960 mm

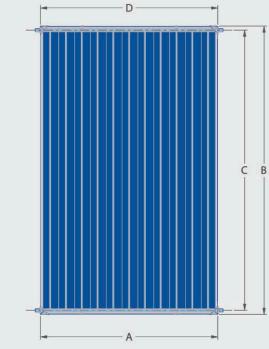
#### RHC25

A 1280 mm B 1960 mm

C 1910 mm

D 1210 mm







## RHD Collector: Optional

#### TECHNICAL SPECIFICATIONS

TECHNICAL DATA	MEASUREMENT UNIT(SI)	COLLECTOR'S	CHARACTERISTICS RI	1D20 - FULL FACE	
ТҮРЕ		RHD20(T)	RHD20(S)	RHD25	
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 alum Pre- painted steel			
Glass		Mat prismatic, ext	tra clear,double antirefle	ective, 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 wa	ter solution (monoprop	ylene glycol)	
Layout		Vertical			
Weight (empty & packed)	K <sup>g</sup>	38	38	43	









#### STANDARD

RAL 9006

## OPTIONAL EXTERNAL MATERIAL



Magnelis



Aluminum

#### RHD20(T)

1046 mm 2020 mm С 1923 mm

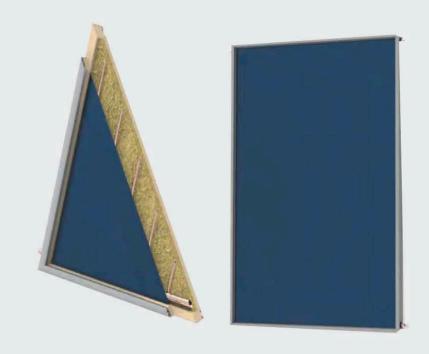
D 990 mm

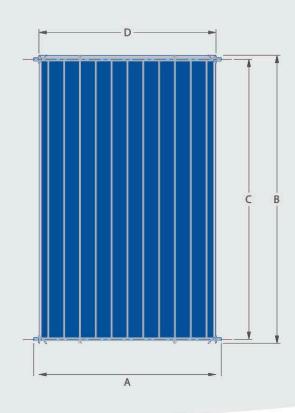
#### RHD20(S)

1310 mm В 1594 mm С 1497 mm D 1254 mm

#### RHD25

1310 mm 2020 mm C 1923 mm D 1254 mm





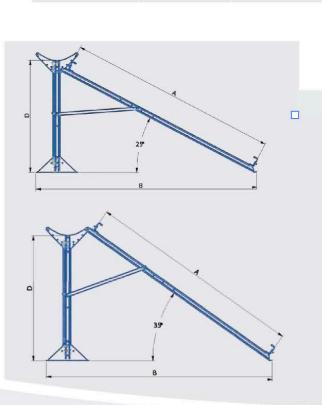


## SUPPORT BASES

## RHSF35 Base: Standard (25°-35°)

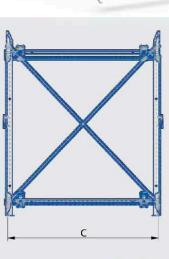
DIMENSIONS (MM)				
A	1885 to 2020			
В	2120 (35) to 2135 (25)			
С	940			
D	1082 (35) to 1175 (25)			
Kg (one collector)	18,5			
Ka (two collectors)	22.5			

m² collector	Collectors Quantity	
2 m <sup>2</sup>	1	2
2,5 m²	1	2















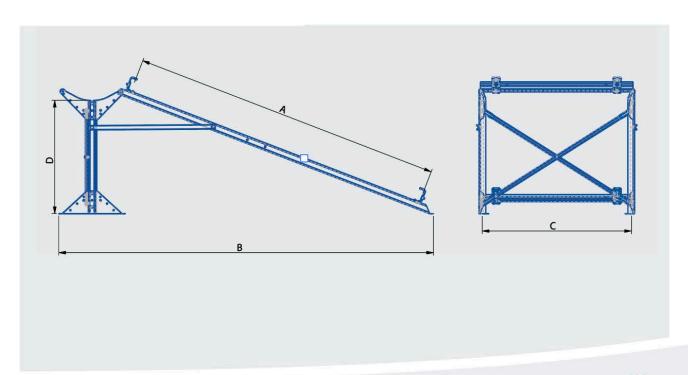
## RHOF21 Base: Optional (21°)

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



collector	Collectors Quantity	
2 m	1	2
2,5 m <sup>2</sup>	1	2





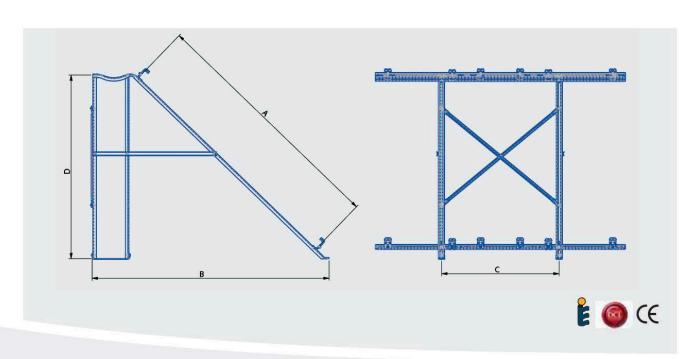


## RHOF45 Base: Optional (45°)

DIMENSIONS (MM)				
A	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 <sup>2</sup>	1	2
2,5 m <sup>2</sup>	1	2





## QUALITY CONTR°L

FOR MATERIALS AND PRODUCTS















