

Product Catalog



Introduction

Chromagen Hot Water Solutions

Chromagen is a pioneer in the production of hot water solutions since 1962, with vast experience and a solid presence in over 35 countries around the world, subsidiaries in Australia, Spain and Israel; and continuously expanding. Chromagen is positioned within the top 10 largest flat plate collectors manufacturers world-wide.

At Chromagen, we are proud of our high-quality hot water solutions and long-lasting products, using the highest raw material quality, complying with all international standards. Chromagen's projects department provides complete hot water solution that is tailor made applications for residential and commercial projects.

Hot water projects and solutions

Chromagen leads hot water projects world-wide, including multistory apartment buildings and hundreds of hotels, hospitals, industrial plants, motor camps, sport clubs, spa and more. Chromagen's engineering department provides complete hot water heating solutions that are individually handled and planned. This department analyzes the project data, drafts preliminary design and ROI calculations, quotations, detailed engineering planning, installation, supervision and after-sale technical support.

Quality strategy

Chromagen meets the highest international standards and superb quality control. Our management scheme complies with ISO 9001 and IQNet standards. Chromagen systems and components conform with the European standards EN12975 for solar collectors & EN 12976 for solar thermal systems, International standards ISO 9806, Israeli standard, SRCC USA, Environmental standard ISO 14001, Health & Safety standard OHSaS 18001, Australian, European standards and more.



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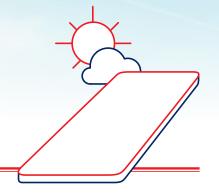
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Introduction



Chromagen manufactures Flat-Plate Solar Collectors using state of the art technology.

- Full plate aluminum absorbers with an ultra selective sputtering or selective paint coating
- Anodized aluminum or galvanized steel casing
- Copper tubes, which are standard in all Chromagen collectors

Advantages

- Highest quality design
- Excellent heat transfer through the laser welded technology
- Tempered glass
- Advanced sputtering / selective-paint coating technology
- Long collector life span
- Wide variety of international certifications
- Installation on all types of roofs
- Clean energy generated, for free, from the sun

Chromagen Collectors Specifications

Collector Size	Y		К		D	
Risers diameter (mm)	8	16	8	16	8	16
Gross area (m ²)	1.41		1.65		2.02	
Aperture area (m ²)	1.25 1.		52	1.85		
Length (cm)	181		181		189	
Width (cm)	78		9	1	10)7
Weight (Kg)	21	23	26	28	30	33
Fluid capacity (L)	0.8	2.2	1	2.7	1.2	3.2
Thickness (cm)	9					

Collector Size	E		F		Z	
Risers diameter (mm)	8 16		8 16		8	16
Gross area (m²)	2.	2.34		77 3.12		12
Aperture area (m ²)	2.	15	2.56		2.93	
Length (cm)	21	18	218		246	
Width (cm)	10)7	127		127	
Weight (Kg)	34	37	39	43	46	54
Fluid capacity (L)	1.3 3.6		1.5	4.1	2.1	6.8
Thickness (cm)	9					

• Collector's test pressure: 12 bar

• Maximum collector operation pressure: 8 bar

Pro Collectors

Absorber coating	Frame type	Size	Designation	CN
	Aluminum	К	QA-K	CKBXCXXQ06TE
		D	QA-D	CDBXCXXQ07TE
		E	QA-E	CEBXCXXQ07TE
		F	QA-F	CFBXCXXQ08TE
Selective point		Z	QA-Z	CZBXCXXQ14TE
Selective paint	Galvanized Steel	Y	QR-Y	CYRXCXXQ05TE
		К	QR-K	CKRXCXXQ06TE
		D	QR-D	CDRXCXXQ07TE
		E	QR-E	CERXCXXQ07TE
		F	QR-F	CFRXCXXQ08TE

Comfort Collectors

Absorber coating	Frame type	Size	Designation	CN
		K	РА-К	CKBXCXXP06TE
		D	PA-D	CDBXCXXP07TE
	Aluminum	E	PA-E	CEBXCXXP07TE
		F	PA-F	CFBXCXXP08TE
Constitution		Z	PA-Z	CZBXCXXP10TE
Sputtering		К	PR-K	CKRXCXXP06TE
		D	PR-D	CDRXCXXP07TE
	Galvanized Steel	E	PR-E	CERXCXXP07TE
		F	PR-F	CFRXCXXP08TE
		Z	PR-Z	ZFRXCXXP14TE

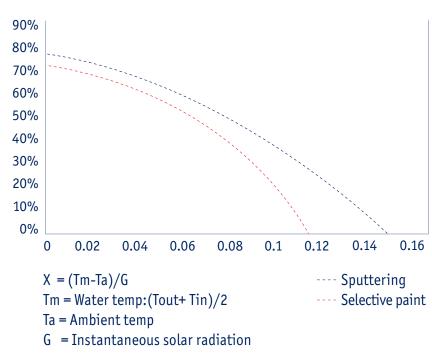
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Additional Specifications

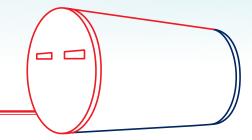
Coating Absorption Sputtering 95%; Selective Paint 90%				
Coating Emission	Sputtering 5%; Selective Paint 45%			
Glazing	Tempered glass 3.2 mm			
Light Transmission	91%			
Piping Connections	Four BSP female brass connection /clear cut edge			
Thermal Insulation	23 mm polyurethane foam + glass wool (for highly selective coatings only)			
Back Plate	Black polypropylene sheet			
Aluminum Foil	Attached to the polyurethane foam			

• Recommended flow rate: 20-50L/h per m²



Collector Efficiency Curve





Tanks Introduction



Chromagen produces tanks designed to store hot water for residential and commercial use.

The inner enamel coating is applied by vacuum technology and produced with superior-quality enamel that fully coats the entire inner surface. The injected polyurethane foam insulates the tank from the ambient air.

Chromagen's produces horizontal and vertical water tanks with or without heat exchangers, that may be installed in thermosiphon or forced circulation systems. All tanks are available with an electric back up.

Advantages:

- Highest quality design
- Large variety of products for different requirements
- Highest quality glass-enamel coating
- Sacrificial anode for anti-corrosion protection
- Optimal insulation and heat retention
- Extreme product durability
- Long tank life span
- Wide variety of international certifications

Available in different frame materials and colors

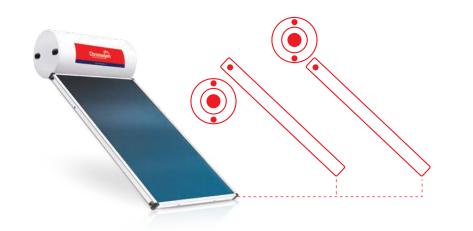
Tanks Specifications

Туре	Drawing	Capacity (Liters)	Dimensions HxD (mm)	Catalog Number	Weight (KG)	Electric Power (KW)
	-	80	650X560	SV80WR	37	2.5/None
		120	860X560	SV120WR	46	
Solar Vertical		150	1020x560	SV150WR	53	-
		200	1270x560	SV200WR	65	
		300	1430x650	SV300NR	91	2.5/3/3.6/None
	¶∉ ¶*	300	1809x585	SV300NR	95	2.3
Solar Vertical Side Flange		400	1795x645	SV40BNR	105	3.6/None
		120	860x560	SH120WR	46	
		120	1250x477	SH120WR	50	
Solar		150	1020x560	SH150WR	53	
Horizontal		200	1270x560	SH200WR	65	
		300	1430x650	SH300NR	91	2.5/3/3.6/None
		300	1809x586	EH30ALM	95	3.6
		100	1075x477	EH104NM	71	
Double		120	1250x477	EH120NM	74	2/2.5/ None
Jacket		150	1020x585	EH150WM	75	
Horizontal		200	1270x585	EH200WM	93	
		300	1430x690	EH300NM	133	2.5/3/3.6/None
		300	1814x585	EH30ALM	145	2.3
		120	860x585	EV120WS	74	
	1	120	1250x477	EV120NS	78	
c : 1		150	1020x560	EV150WS	75	2.5/ None
Spiral Vertical		150	1480X477	EV150NS	73	
		200	1280x585	EV200WS	90	
	TIT	200	1280x560	EV200WS	90	
		300	1430x650	EV300NS	133	2.5/3/3.6/None
		200	1280x585	EV200SS	108	2.5 / None
Double Spiral Vertical		300	1430x650	EV300SS	145	2.5/3/3.6/None
		30	670x360	EV030NR	23	2/2.5
		45	850x360	EV045NR	29	
		60	740X477	ED060NR	31	
		80	930X477	ED080NR	40	
Electric		120	860X565	ED120WR	46	
		120	1260X477	ED120NR	50	
		150	1020X585	ED150NR	65	
		200	1280x585	ED200WR	91	
		300	1430x650	EV300NR	100	

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Thermosiphon Systems -Open Loop, High/ Low Profile



Thermosiphon Systems (TS)

TS rely on natural convection to move hot fluid from the collector to the tank without the use of electric-powered pumps. These systems are easy to maintain, less expensive to install and generally more efficient than Forced Circulation (FC) systems. The below systems include the following prefabricated kit: tank, collector/s and a connecting kit.

Open Loop, High Profile

In high profile installations the storage tank must be placed above the collector.

Open Loop, Low Profile

In low profile installations the bottom of the storage tank must be placed on or above the upper third part of the collector. The low profile configuration provides a more aesthetic installation.

Pro Thermosiphon System -

Open Loop, High/ Low Profile

Users	Vol. (L)	Tank	Collector	Collector Area* (G / A)	Connecting Kit
x3-4	120	SH120NM	QR-K	1.65 / 1.52	IKITOL0010
x3-4	120	SH120NM	QR-D	2.02 / 1.85	IKITOL0010
x4-5	150	SH150WM	QR-D	2.02 / 1.85	IKITOL0010
x4-5	150	SH150WM	QR-E	2.34 / 2.15	IKITOL0010
x5-6	200	SH200WM	QR-F	2.77 / 2.56	IKITOL0010
x6+	300	SH300WM	2x QR-D	4.04/3.7	IKITOL0020
x6+	300	SH300WM	2x QR-E	4.68/4.3	IKITOL0020

* Collector Area = Gross / Aperture (Net)

Comfort Thermosiphon System -Open Loop, High/ Low Profile

Users	Vol.(L)	Tank	Collector	Collector Area (G / A)	Connecting Kit
x3-4	120	SH120NM	PA-K	1.65/ 1.52	IKITOL0010
x3-4	120	SH120NM	PA-D	2.02/ 1.85	IKITOL0010
x4-5	150	SH150WM	PA-D	2.02/ 1.85	IKITOL0010
x4-5	150	SH150WM	PA-E	2.34/ 2.15	IKITOL0010
x5-6	200	SH200WM	PA-F	2.77/ 2.56	IKITOL0010
x6+	300	SH300NM	2x PA-D	4.04/3.7	IKITOL0020
х6+	300	SH300NM	2x PA-E	4.68/4.3	IKITOL0020

Thermosiphon System - Closed Loop, High Profile

Closed-loop systems prevent freezing and scale buildup. The below systems include the following prefabricated kit: tank, collector/s and a connecting kit.

Pro Thermosiphon System -Closed Loop, High Profile

Thermosiphon

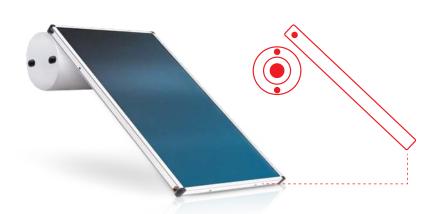
Systems -Closed Loop, High Profile

Users	Vol.(L)	Tank	Collector	Collector Area (G / A)	Connecting Kit
x2-3	100	EH100NM	QR-Y	1.41/1.25	IKITCL0370
x2-3	100	EH100NM	QR-K	1.65 / 1.52	IKITCL0370
x3-4	120	EH120WM	QR-K	1.65 / 1.52	IKITCL0370
x3-4	120	EH120WM	QR-D	2.02 / 1.85	IKITCL0370
x4-5	150	EH150WM	QR-D	2.02/1.85	IKITCL0370
x4-5	150	EH150WM	QR-E	2.34 / 2.15	IKITCL0370
x5-6	200	EH200WM	QR-F	2.77 / 2.56	IKITCL0370
x6+	300	EH300NM	2x QR-D	4.04/3.7	IKITCL0380
x6+	300	EH300NM	2x QR-E	4.68/4.3	IKITCL0380

Comfort Thermosiphon System -Closed Loop, High Profile

Users	Vol.(L)	Tank	Collector	Collector Area (G / A)	Connecting Kit
x2-3	100	EH100NM	PA-K	1.65 / 1.52	IKITCL0370
x3-4	120	EH120NM	PA-K	1.65 / 1.52	IKITCL0370
x3-4	120	EH120WM	PA-D	2.02/1.85	IKITCL0370
x4-5	150	EH150WM	PA-D	2.02/1.85	IKITCL0370
x4-5	150	EH150WM	PA-E	2.34 / 2.15	IKITCL0370
x5-6	200	EH200WM	PA-F	2.77 / 2.56	IKITCL0370
x6+	300	EH300NM	2x PA-D	4.04/3.7	IKITCL0380
x6+	300	EH300NM	2x PA-E	4.68/4.3	IKITCL0380

Thermosiphon Systems -Closed Loop, Low Profile



The below systems include the following prefabricated kit: tank, collector/s, a connecting kit and an expansion tank.

Pro Thermosiphon System -Closed Loop, Low Profile

Users	Vol. (L)	Tank	Collector	Collector Area (G/A)	Connecting Kit	Exp. Tank
x2-3	100	EH100NM	QR-Y	1.41 / 1.25	IKITCL0200	5 L
x2-3	100	EH100NM	QR-K	1.65 / 1.52	IKITCL0200	5 L
x3-4	120	EH120NM	QR-K	1.65 / 1.52	IKITCL0200	5 L
x3-4	120	EH120NM	QR-D	2.02 / 1.85	IKITCL0200	5 L
x4-5	150	EH150WM	QR-D	2.02 / 1.85	IKITCL0200	5 L
x4-5	150	EH150WM	QR-E	2.34 / 2.15	IKITCL0200	5 L
x5-6	200	EH200WM	QR-F	2.77 / 2.56	IKITCL0200	5 L
х6+	300	EH300NM	2x QR-D	4.04 / 3.7	IKITCL0190	8 L
x6+	300	EH300NM	2x QR-E	4.68/4.3	IKITCL0190	8 L

Comfort Thermosiphon System -Closed Loop, Low Profile

Users	Vol. (L)	Tank	Collector	Collector Area (G/A)	Connecting Kit	Exp. Tank
x2-3	100	EH100NM	РА-К	1.65 / 1.52	IKITCL0200	5 L
x3-4	120	EH120NM	PA-K	1.65 / 1.52	IKITCL0200	5 L
x3-4	120	EH120NM	PA-D	2.02 / 1.85	IKITCL0200	5 L
x4-5	150	EH150WM	PA-D	2.02 / 1.85	IKITCL0200	5 L
x4-5	150	EH150WM	PA-E	2.34/2.15	IKITCL0200	5 L
x5-6	200	EH200WM	PA-F	2.77 / 2.56	IKITCL0200	5 L
х6+	300	EH300NM	2x PA-D	4.04 / 3.7	IKITCL0190	8 L
х6+	300	EH300NM	2x PA-E	4.68/4.3	IKITCL0190	8 L

* Collector Area = Gross / Aperture (Net)

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Forced Circulation Systems



Forced Circulation Systems (FC)

FC uses electrical pumps, valves and controllers to circulate water or other heat-transfer fluids through the collectors. FC enables high flexibility in the positioning of the systems' components: storage tanks do not need to be installed above or close to the collectors. The below systems include the following prefabricated kit: tank, collector/s, a connecting kit and an expansion tank.

Pro Forced Circulation Systems

Users	Vol. (L)	Tank	Spiral	Collector	Collector Area* (G/A)	Connecting Kit (inc. pump)	Exp. Tank
x3-4	120	EV120WS	1	QR-K	1.65 / 1.52	IKITCL0181	5 L
x3-4	120	EV120WS	1	QR-D	2.02/1.85	IKITCL0181	5 L
x4-5	150	EV150WS	1	QR-D	2.02/1.85	IKITCL0181	5 L
x4-5	150	EV150WS	1	QR-E	2.34/2.15	IKITCL0181	5 L
x5-6	200	EV200WS	1	QR-F	2.77 / 2.56	IKITCL0181	5 L
x6+	300	EV300NS	1	2x QR-D	4.04/3.7	IKITCL0180	8 L
x6+	300	EV300NS	1	2x QR-E	4.68/4.3	IKITCL0180	8 L
x6+	300	EV300SS	2	2x QR-D	4.04/3.7	IKITCL0180	8 L
x6+	300	EV300SS	2	2x QR-E	4.68/4.3	IKITCL0180	8 L

* Collector Area = Gross / Aperture (Net)

Comfort Forced Circulation Systems

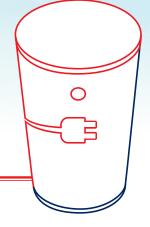
Users	Vol. (L)	Tank	Spiral	Collector	Collector Area* (G/A)	Connecting Kit (inc. pump)	Exp. Tank
x3+	120	EV120WS	1	PA-K	1.65 / 1.52	IKITCL0181	5 L
x3+	120	EV120WS	1	PA-D	2.02/1.85	IKITCL0181	5 L
x4-5	150	EV150WS	1	PA-D	2.02/ 1.85	IKITCL0181	5 L
x4-5	150	EV150WS	1	PA-E	2.34/2.15	IKITCL0181	5 L
x5-6	200	EV200WS	1	PA-F	2.77 / 2.56	IKITCL0181	5 L
x6+	300	EV300NS	1	2xPA-D	4.04/3.7	IKITCL0180	8 L
x6+	300	EV300NS	1	2xPA-E	4.68/4.3	IKITCL0180	8 L
x6+	300	EV300SS	2	2xPA-D	4.04/3.7	IKITCL0180	8 L
x6+	300	EV300SS	2	2xPA-E	4.68/4.3	IKITCL0180	8 L

* Collector Area = Gross / Aperture (Net)

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Electric Tanks Introduction



Chromagen manufactures electric tanks designed to store hot water for residential use. The inner enamel coating is applied by vacuum technology and produced with superior quality. The polyurethane tanks insulations assure minimal heat losses.

Chromagen's produces residential vertical water tanks with or without heat exchangers. All tanks are available with an electric back up.

- Water storage tank made of cold rolled steel. The thermal tank is shaped in special patterns by robot welding process, thus achieving:
- A) Perfect enamel application
- B) Avoid the deformation of the internal tank as well as the enamel erosion in case of high pressure.
- Anti-corrosion internal layer of enamel powder baked at 860°C, according to DIN 4753 standard, for protection against electrolysis. The enameling is done in our high-tech industrial facilities. The water tanks are checked individually upon exit from the enameling unit, assuring the top quality of the enamel.
- Hot water outlet (consumption): stainless steel ½" BSP male threaded pipe end with plastic adapter.
- Cold water inlet (supply): special shaped ½" BSP male threaded divider, for even water stratum.
- 10 bar non-return valve for safe and controlled hydraulic pressure relief.
- Steel pressed neck for the heating element without welding, with internal incision for easy and quick heating element installation. no need for special tools (locknuts). Extraction and re-installation of the heating element in less than one minute.
- Full bodied gasket for sealing the heating element from the

thermal tank, thus protecting the heating element flange from electrolysis and corrosion.

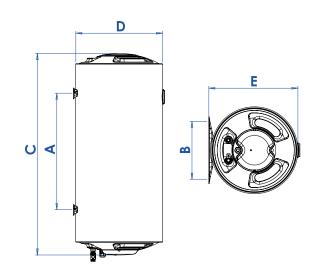
- Heating element rated according to the country of destination local regulations. It can be pulled away from the flange.
- Heat exchanger with 3/4" BSP male threaded pipe ends, made of steel pipe. Large exchange surface for use of the heating produced by central heating systems during the winter (optional).
- Cathode protection by magnesium anode 22x300 mm < 60 lt and 22x500 mm > 80 lt for effective internal protection against corrosion and mineral deposits caused by electrolytic reactions.
- Internal adjustable thermostat with bipolar protection and auxiliary fuse.
- Protective cover for the electrical section designed for easy access. It locks with just one screw. Ventilation holes specially designed for safe water vapor aspiration.
- Sealed entry of the heating element connection cable, with a rubber collar on the cable.
- Operation indication light.
- Thermal insulation: ecological high-density (40Kg/m3) expanded polyurethane ensures minimum heat loss, maintaining the hot water temperature.
- Insulation thermal conductivity: λ=0.023 W/m K (DIN 56612, measured at 10°C) (DIN EN ISO 845, DIN 53 421, ISO 4590, DIN ISO 2796).
- External housing with electrostatically robotized painted steel for protection against corrosion.
- Side plastic caps
- Thermometer
- Mounting: vertical, horizontal or floor.
- Packed in carton boxes for safe and easy storage transportation.
- CE Marking: compliance with European health, safety & environmental protection legislation
- Energy Labeled (ERP): D C

Electric Tanks Specifications

Electric Water Heaters	Real Capacity	Weight	Electroboiler With Heat Exchanger	Heat Exchanger Surface	Heat Exchanger Power (80°C)
8 L	6.9 L	6 Kg	-	-	-
20 L	17.6 L	11 Kg	-	-	-
40 L	36.4 L	15 Kg	-	-	-
50 L	45.6 L	18 Kg	-	-	-
60 L	55.6 L	19 Kg	60 L	0.25m ²	9.3 Kw
80 L	74.4 L	20 Kg	80 L	0.25m ²	9.3 Kw
100 L	90.9 L	25 Kg	100 L	0.25m ²	9.3 Kw
120 L	107.9 L	30 Kg	120 L	0.25m ²	9.3 Kw
150 L	149.2 L	49 Kg	150 L	0.50m ²	14.8 Kw
200 L	190.1 L	50 Kg	200 L	0.50m ²	14.8 Kw

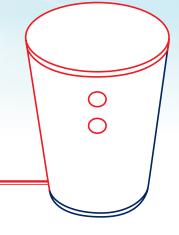
Electric Water Heaters	Continuous Flow Rate (∆T 35-80°C)	Heating Time (∆T45-80°C)	A	В	C	D	E
8 L	-	-	23	19	43	23	24
20 L	-	-	25	26	51	32	33
40 L	-	-	18	26	56	43	44
50 L	-	-	18	26	61	43	44
60 L	228 L/hr	11 min	27	26	69	43	44
80 L	228 L/hr	17 min	43	26	84	43	44
100 L	228 L/hr	28 min	58	26	99	43	44
120 L	228 L/hr	36 min	73	26	119	43	44
150 L	363 L/hr	38 min	105	26	145	43	44
200 L	363 L/hr	45 min	76	26	133	52	54

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Commercial Tanks Introduction



Chromagen produces commercial tanks designed to store hot water for commercial use. The inner enamel coating is applied by vacuum technology and produced with superior quality. The tanks insulations assure minimal heat losses from the ambient air.

Chromagen's produces commercial vertical water tanks with or without heat exchangers that may be installed in forced circulation systems. All tanks may be available with an electric back up.

Commercial Tanks Specifications

Forced Circulation Tanks – No Heat Exchanger

Tank Size	1,000	1,500	2,000
Weight (Kg)	302	350	480
D&H	2,062x1,010	2,250x1,120	2,500x1,260

Forced Circulation Tanks - Single Heat Exchanger

Tank Size	1,000	1,500	2,000
Weight (Kg)	340	460	550
D&H	2,062x1,006	2,250x1,116	2,500x1,272

Forced Circulation Tanks - Double Heat Exchanger

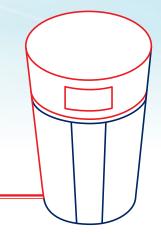
Tank Size	1,000	1,500	2,000
Weight (Kg)	360	450	570
D&H	2,065x1,010	2,247x1,116	2,500x1,272

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• The above represents the average dimensions and weights of produced products







Heat Pump Water Heaters Introduction



Chromagen produces Heat pump water heaters designed to heat water for residential and commercial use. The inner enamel coating is applied by vacuum technology and produced with superior quality.

The tanks insulations assure minimal heat losses from the ambient air. Chromagen's heat pump water heaters use up to 65% less energy than conventional water heaters, whilst providing reliable hot water all day and night.

Heat Pump Water Heaters Specifications

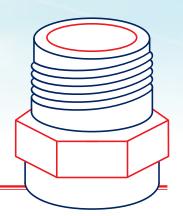
	HP170	HP280
Nominal volume capacity (L)	170	280
Dimensions (H / W)	1580/568	1920 / 650
Voltage / Hz / Phase	220-240 / 50 / 1	220-240 / 50 / 1
Element input power (W)	2150	3000
Heating capacity - Heat Pump Only (W)	1500	3000
Max water temperature (°C)	65	60
Max rated input power (W) / current (A)	2780 / 12.1	4300 / 18.7
Relief valve pressure (kPa)	1000	1000
Noise level (dBA)	48	48
Net Weight (Kg)	90	145
Pipe connection diameter (mm)	DN20	DN20
Cylinder Type	Vitreous Enamel	Vitreous Enamel
Outdoor resistance class	IP24	IP24
Operating Mode Function	Manual	Automatic
Refrigerant type/quantity	R134a / 0.8Kg	R134a / 1.2Kg

Heat Pump Water Heaters Selection

No. of persons	Climate			
	Cold	Warm	Hot	
† †	170L	170L	170L	
†††	170L	170 L/280	170L	
***	280L	170 L/280L	170L/280L	
***** +	-	280L	280L	









The systems are installed with the connecting kit elements and piping. The connecting kit is matched to the system chosen by the customer. A forced circulation system full connecting kit includes plumbing parts, pump, control and valves.

Catalog no.	Description
IKITOL0010	Connecting kit for 0/L system - 1 collector + copper pipe
IKITOL0020	Connecting kit for 0/L system - 2 collectors + copper pipe
IKITOL0014	Connecting Kit for O/L system 1 collector, no piping
IKITOL0024	Connecting Kit for O/L system 2 collectors, no piping
IKITCL0370	Connecting Kit for C/L 150/200 L TS system
IKITCL0380	Connecting Kit for C/L 300 L TS system
IKITCL0181	Connecting Kit for C/L 150/200L FC system for 1 collector
IKITCL0180	Connecting Kit for C/L 300L FC system for 2 collectors

Pumps



Pumps are used for different types of installations.

Chromagen carries a different variety of pumps which are tested and approved for the use with solar thermal systems.

Catalog no.	Description
IPMPGRN021	Circulating pump UPS 25-20
IPMPGRN030	Circulating pump UPS 25-65
IPMPGRN031	Circulating pump UPS 25-6
IPMPGRN041	Circulating pump UPS 32-80
IPMPWI3010	Circulating pump 30/10

Thermostatic Controls



Different controllers are used for different types of installations, depending on the complexity of the system. Chromagen supplies solar systems, which includes thermostatic control. Chromagen tests and approves each thermostatic control unit.

Catalog no.	Description
ITMDIF0030	Differential Thermostat, DT 8393
ITMDIF0120	Differential Thermostat
ITMDIF0152	Differential Thermostat for individual Forced Circulation

Electric Elements

Chromagen tanks are supplied with an electric back up. An electric element inside the water tank is activated via thermostatic control.

Catalog no.	Description
PGUCBLF020	Electric heating element, 2500 W, 420 mm, Male
PGUCBLF080	Electric heating element, 2500 W, 94 cm
PGUCBLM020	Electric heating element, 2300 W, bent, 850 mm
PGUCBLM021	Electric heating element 2300 W, 850 mm
PGUCBLM030	Electric heating element, 2500 W, bent
PGUCBLM031	Electric heating element , 2500 W ,bent, 357 mm
PGUCBLM040	Electric heating element, 2300 W, bent
PGUCBLM041	Electric heating element 2300 W, 359 mm
PGUCBLM128	Electric heating element 2300 W, bent
PGUCBLY030	Electric heating element, 1500 W, straight
PGUCBLY040	Electric heating element, 2000 W, straight
PTRM035030	Thermostat, 35cm, 20A + Grounding
PTRM035060	Thermostat 35 cm
PTRM036030	Thermostat, 36 cm yellow, 95^
PTRM036031	Thermostat 150 L – 200 L – 300 L
PTRM036050	Thermostat 36 cm 105^
PTRM036052	Thermostat 36 cm
PTRM045010	Thermostat, 45 cm yellow
PTRM045011	Thermostat 45 cm
PTRM045020	Thermostat, 45 cm yellow



Valves



Catalog no.	Description
IBRZFF0010	Ball valve 1/2", female/female
IBRZMF0070	Ball valve 1/2", male/female
IBRZMF0080	Ball valve 3/4", male/female
IBRZMF0090	Ball valve 1", male/female
IBRZMF0100	Ball valve 11/4", male/female
IBRZMF0110	Ball valve 11/2", male/female
IBRZMF0130	Ball valve 1/2", male/female
IBRZMF0140	Ball valve 3/4" female/male
IBRZMF0150	Ball valve 1", male/female
IBRZMF0160	Ball valve 1 1/4", male/female
IBRZMF0175	Ball valve 2", male/female
IBRZMF0200	Ball valve 1/2", male/female
IBRZOT2522	Mixing valve 3/4"
ISHSAL0010	Check valve 1/2" x 3/4", male/female
ISHSAL0020	Check valve linear, 1/2"
ISHSAL0030	Check valve linear, 3/4"
ISHSAL0040	Check valve linear, 1"
ISHSAL0050	Check valve linear, 11/4"
ISHSAL0070	Check valve 2"
ISHSAL0080	Thermosiphon valve 3/4" plug - low profile
ISHSAL0081	Thermosiphon valve 3/4 plug white - low profile
ISHSAL0100	Thermosiphon valve 1/2" plug - low profile
ISHSBI0010	Pressure relief valve 3 Atm., 1/2"
ISHSBI0015	Pressure relief valve 3 Atm. to 160 deg
ISHSBI0021	Safety Relief valve 8 bar 312480
ISHSBI0050	Pressure relief valve 8 Atm., 1/2"
ISHSBI0051	Pressure valve 3 Atm.
ISHSBI0101	Temperature 90°C 10 bar relief valve 3/4"x22 mm
ISHSBI0110	Pressure Relief Valve 1"

Antifreeze Liquid

Catalog no.	Description
OCHEM00120	Propylene Glicol

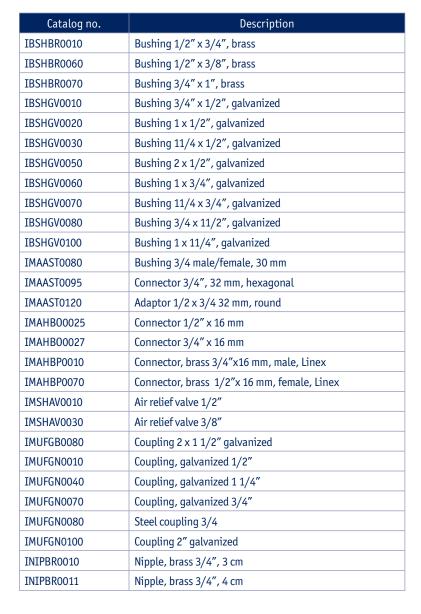
Magnesium Anodes

Catalog no.	Description
IKITAN0315	Anode 315/33 mm + accessories
PANODA0250	Anode 250/33 mm
PANODA0315	Anode 315/33 mm
PANODA0350	Anode 350/33 mm
PANODA1000	Anode 1050/26 mm
PANODA1200	Anode 1220/26 mm



Pipe Fittings





INIPBR0015	Double brass nipple "1
INIPBR0016	Double brass nipple "1 1/4
INIPBR0020	Nipple, brass, short 1/2"
INIPBR0030	Nipple, brass 1/2" to 3/4", short
INIPGV0020	Nipple 1/2" x 100 mm galvanized
INIPGV0041	Nipple 3/4" male/male, galvanized
INIPGV0051	Nipple 1" male/male, galvanized
INIPGV0060	Nipple, galvanized 1 1/4"
INIPGV0061	Nipple 1 1/4 x 8 cm
INIPGV0071	Double nipple 1 1/2 "
INIPGV0090	Nipple 3/4" x 300 mm Steel
INIPGV0133	Nipple, brass 3/4", double, painted, black
INIPGV0160	Nipple 1/2", galvanized, short
IRECBR0010	Brass union 3/4", for two collectors
IRECGV0010	Cone record 1"
IRECGV0020	Cone record 3/4"
IRECGV0040	Cone record 1 1/4" galvanized
IRECGV0060	Cone Record 2" galvanized
ITZLBR0020	Cross 3/4", brass
IZAVBR0020	Elbow 3/4", brass, male/male
IZAVBR0030	Elbow 3/4", brass, male/female
IZAVGN0020	Elbow 3/4", 90^, galvanized, male/male
IZAVGN0030	Elbow 1", galvanized
IZAVGN0040	Elbow 1 1/4" galvanized
IZAVGN0050	Elbow 1 1/2", galvanized
IZAVGS0030	Street elbow 1", male/female

Expansion Tanks



Catalog no.	Description
IXPTNK0008	Expansion tank 8 L
IXPTNK0012	Expansion tank 12 L
IXPTNK0018	Expansion tank 18 L
IXPTNK0024	Expansion tank 24/25 L
IXPTNK0050	Expansion tank 50 L
IXPTNK0105	Expansion tank 105 L

Stands



Collectors Angle	System Tank Volume	Collector	Stand CN
30°/0°	150L (Diameter 585)	D/E	MAXFH1F30
30°/0°	200L (Diameter 585)	F	MAXFH1F30
35°/0°	300L (Diameter 690)	2 X D/E	MAXFH2E35





Apartment Building Hot water Solutions

Combination of collector fields with individual water heating units for use in apartments, or a central heating system for water heating of an entire building.



Uganda | Apartment Complex



Guatemala | Apartment Complex

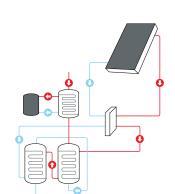


Spain | Apartment Complex



Chile | Apartment Complex

Hotels Hot water Solutions



Integrating solar water heating solutions with existing heating systems for usage in hotels.



Greece | Hotel



Uganda | Hotel

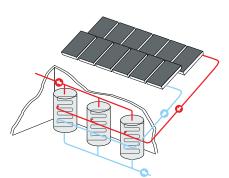


Tanzania | Hotel



Italy | Hotel

Industrial & Commercial Hot water Solutions



Solar water heating solutions to provide continues hot water and pre-heating water for industrial processes and commercial projects.



Trinidad | Dormitories



Uruguay | Oil Factory

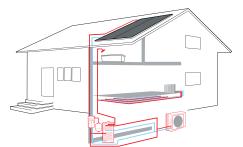


Spain | Food Factory



Chile | Hospital

Private Homes Hot water Solutions



Combination of solar sanitary water heating and radiant heating systems for all hot water needs in private homes.



Italy | Private Home



Tanzania | Private Home

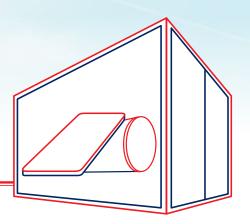


Australia | Private Home



Kenya | Apartment Building





Container Load Options

Closed-Loop Systems – 20' Container

COL. / Tank	None	Y	K	D	E	F	2 x D	2 x E	2 x F
None		196	146	127	112	92			
100	88	64							
120	60		44	40	40				
150	60			40	40	36			
200	39			33	33	33	26		
300	35						22	22	20

Closed-Loop Systems – 40' Container

COL. / Tank	None	Y	K	D	E	F	2 x D	2 x E	2 x F
None		414	336	282	257	222			
100	192	144							
120	132		108	100	100				
150	120			96	96	88			
200	84			84	70	60	56		
300	75						50	50	48

Open-Loop Systems – 20' Container

COL. / Tank	None	Y	K	D	E	F	2 x D	2 x E	2 x F
None		196	146	127	112	92			
120	80	56	56	48	48				
150	80			48	48	40			
200	56			40	40	36	28		
300	35						22	22	21

Open-Loop Systems – 40' Container

COL. / Tank	None	Y	K	D	E	F	2 x D	2 x E	2 x F
None		414	336	282	257	222			
120	200	132	120	110	110				
150	160			108	105	96			
200	116			82	80	76	58		
300	78						52	52	46

Quantities shown in the tables refer only to the calculation of tanks & collectors and are for indication only

Warranty

- [a] During the Warranty Period, Chromagen shall, at Chromagen's policy, repair, replace or give credit for any component that is returned to an authorized service center and that is found by Chromagen to contain defects in material or workmanship and returned by distributor to Chromagen; and the extent of Chromagen liability shall not exceed the cost of repairing or replacing the defective item during the warranty period.
- [b] This Warranty does not cover defects or damages resulting from accident, inappropriate physical or operational environment, failure of electrical power, freezing, corrosion, scaling due to hard water, improper installation, maintenance, service, repair, transportation, storage, modification, operation, use, negligence or fault by any party other than Chromagen.
- [c] This Warranty shall run solely to and in favor of the distributor; and the distributor shall be responsible to its customers for all warranties that it makes.
- [d] This Warranty is the sole warranty given by Chromagen in respect of the products.
- [e] In no event shall Chromagen be liable for special, incidental, or consequential damages, or for damages arising out of the inability to utilize products for any purpose whatsoever.
- [f] For warranty period information, please contact Chromagen's distributor in your area, according to Chromagen International warranty.

The Right Choice EVERY HOUR, EVERY DAY











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