

ESTECH
ENERGY

FLAT SURFACE SOLAR THERMAL COLLECTORS



ESTECH ENERGY LLC

FULL FACE LASER H98

FLAT SURFACE SOLAR THERMAL COLLECTORS

PRODUCT DESCRIPTION



The flat collector H98 has an undivided selective coating (Full Face) and all the welding are completed by an automated laser line. It has been designed with a high thermal capacity and low pressure drop. In this way its efficiency is increased.

The collector's insulation cover is constructed by an undivided anodized aluminum section specially designed to be attuned with the rest of the parts by giving solidity and contributing to the preservation of its efficiency.

It has a peripheral water flume in order to maximize the sealing and an extra flume to avoid humidity.

There is a safety glass panel with low iron content (Low Iron) and high permeability (Clearlight) that increases the amount of solar radiation on the collector's coating and as a result its efficiency.

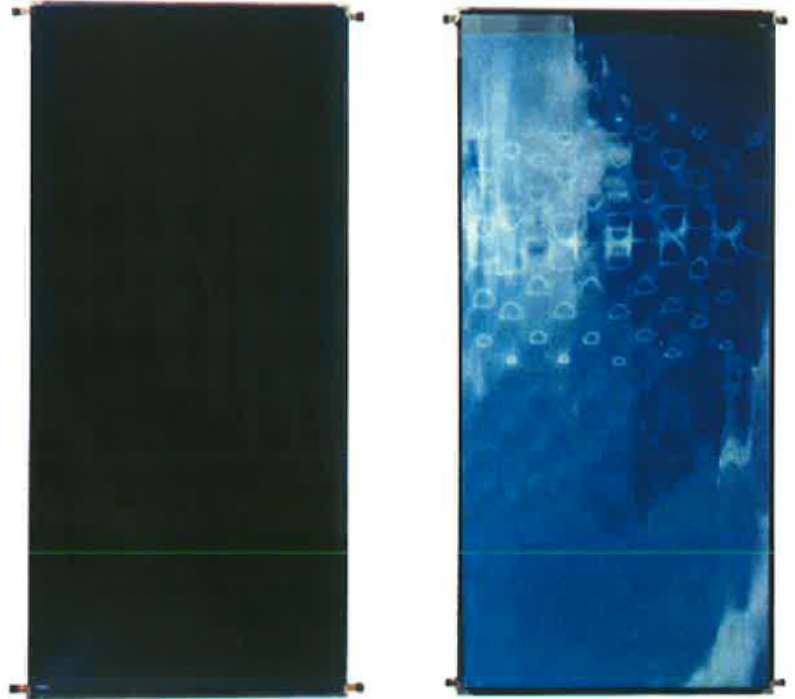
In conclusion the collector has a double polyurethane-stone wool (hybrid) insulation,50mm thick on the surface of the cover and 25mm on its side. In this way, it achieves maximum thermal insulation (thanks to polyurethane) and protection of the insulation against overheating (thanks to the stone wool)

The insulation is also protected by two aluminum panel that are installed on different level on the cover. In this way , the insulation abilities are preserved at the same level for ever.

FULL FACE LASER H80 & H81

FLAT SURFACE SOLAR THERMAL COLLECTORS

PRODUCT DESCRIPTION



The flat collectors H80 and H81 have the strip and full face selective coating respectively. The cover of the collector is constructed by a special undivided pre-painted (UV protected color) metal sheet, which has a test certificate for endurance in near – coastal areas. It is specially designed to be attuned with the rest of the parts by giving solidity and contributing to the preservation of its efficiency.

There is a safety glass panel with low iron content (Low iron). The H80 has a Mist light glass panel with the H81 has a high permeability Clear light glass panel that increases the amount of solar radiation on the collector's coating and as a result its efficiency.

In conclusion, the collector's have a powerful stone wool insulation designed not to create sprays at high temperature. These sprays form a scale on the glass panel and decreases its permeability.

COLLECTOR TECHNICAL SPECIFICATION H81

TECHNICAL FEATURES	UNIT OF	COLLECTOR'S TECHNICAL STANDARDS H81			
		H81-12	H81-15	H81-20	H81-25
Outer dimensions (height X width Xthickness)	mm	1250X960X80	1455X960X80	1960X960X80	1960X1210X80
Total surface	m2	1.2	1.4	1.88	2.5
Window surface	m2	1.15	1.35	1.83	2.38
Absorption coating	m2	1.15	1.35	1.83	2.33
Absorber capacity	L	1.1	1.3	1.6	1.9
Frame / Thickness	mm	pre-painted galvanized steel sheet 0.5mm			
Glass panel		Tempered			
Thermal insulation (shoulders) Thickness/Density	mm / Kg / m3	Stone wool / 30/50 A material properly designed for collectors,chemically inert,its qualities remain unchanged over time and its does not allow parasites to evolve			
Absorber		Harp-shaped bronze frame, aluminium selective coating on a panel (full face) - laser welding			
. Absorption capacity	%	95			
. Transmission	%	5			
. Header Cu Ø / Thickness	mm	22 / 0.7			
. Riser Cu Ø / Thickness	mm	8 / 0.40			
. Risers	pcs	8	10	10	11
. Cu welding Ø 22		4 or 2			
. Maximum operation pressure	Bar	10			
Means of heat transmittal		Mixture of water and anti-freeze (monopropen-glycol)			
Layout		vertical			
Weight (Dry & Packged)	Kg	21.5	24.5	32.5	40.5

High quality-
We believe that quality
is the best business
plan



R&D team-
Professional R&D team
for new and high-effi-
ciency heat pumps



Reasonable prices-
Competitive prices
which help you to
occupy your market



ESTECH ENERGY

RENEWABLE
ENERGY SYSTEM

Best compo-
nents-
World class
components
suppliers for
your heat
pumps



Fast delivery-
We always keep the
promise to you, you
always keep the promise
to your customers



Long warranty-
TWO years for heat
pumps, THREE years
warranty for Compres-
sor and Condenser



ESTECH ENERGY

ESTECH ENERGY LLC

Estech Energy LLC.

Address: 4228, Hampshire Lane, El Paso, TX 79902

E-mail: mail@estechenergy.com

Web: www.estechenergy.com