

StarMax 4™ solar collector



NAS144 series



Function

Solar thermal collectors are used to capture energy from the sun and efficiently transfer solar energy to heat the solar fluid in the primary circuits of solar heating systems. This heated solar fluid is circulated through a heat exchanger, thus heating domestic water, which is stored in a suitable tank. This heated water is then delivered to a conventional water heater for final heating, if required, or direct use.

Product range

NAS14406 series	StarMax 4™ flat plate solar collector, 4' x 6.5' frame, SRCC Category C.....	7.5 kWh (25,000 Btu/d)
NAS14408 series	StarMax 4™ flat plate solar collector, 4' x 8' frame, SRCC Category C.....	9.2 kWh (32,000 Btu/d)
NAS14410 series	StarMax 4™ flat plate solar collector, 4' x 10' frame, SRCC Category C.....	11.7 kWh (40,000 Btu/d)

Technical specifications

Threaded, sweat and press union connections

- Materials**
- absorber plate: 1/2" tube to fin copper
 - absorber coating: selective crystal coating
 - absorbtivity/emissivity: 0.96 / 0.08
 - header manifold: 1" copper
 - glazing: low iron tempered glass
 - glazing seal: extruded "U" channel EPDM
 - insulation: R-10 poly-isocyanurate foam board
 - frame & battens: type 6063-T6 extruded aluminum
 - backing sheet: type 3105-H14 embossed aluminum

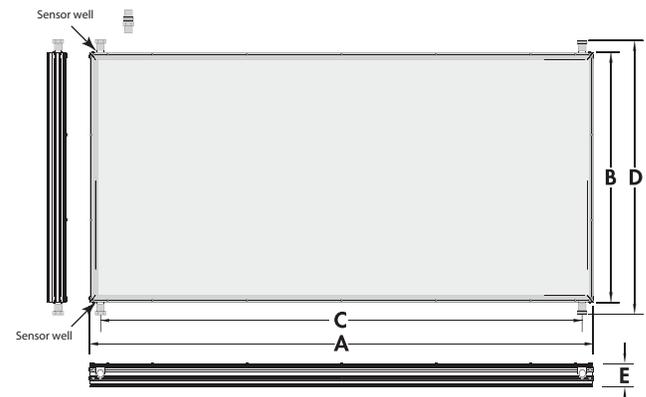
Performance

- Suitable fluids: water, glycol solution
- Max. percentage of glycol: 60%
- Max. pressure: 150 psi (10 bar)
- Working pressure: 90 psi (6 bar)
- Working temperature range: -40–350°F (-40–177°C)
- Typical transfer flow rate: 0.5–1.8 gpm (1.8–7 lpm)
- Wind load rating: 180 mph / 290 kph

Connections

- Main connections: 1" union thread (4' x 6.5')
1-1/4" union thread (4' x 8', 4' x 10')

Dimensions



F = frontal aperture area ft²

G = gross glass area ft²

Code	A	B	C	D	E	F	G	Wt. (lbs.)	Cap. (gal)
NAS14406	77 7/16"	47 7/16"	74 5/8"	50 1/2"	3 1/8"	23.6	25.35	90	0.79
NAS14408	97 7/16"	47 7/16"	94 5/8"	50 1/2"	3 1/8"	29.9	31.91	113	0.88
NAS14410	121 3/16"	47 7/16"	118 5/8"	50 1/2"	3 1/8"	37.4	39.79	153	1.05

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice.



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