

THE SOLAR ENERGY TERMINAL

A pre-assembled, reliable, compact unit for commercial use



Model SET-1785-23-28-E1 shown

PRODUCT DESCRIPTION

- Solar heat-exchange system in a compact design
- Integrated pumps, heat exchanger and controls for commercial solar arrays
- Intelligent control system for reliable performance and extended service intervals
- Pre-assembled and factory-tested for quick installation

PRODUCT SPECIFICATIONS

- Programmable solar controller with energy calculator
- Compact size: 25.25in W x 42in H x 27in D
- Monitors and records energy production
- Package includes ASME Section IV listed PRV, air separator, digital flow meter, digital pressure sensor and more
- Electrical certification available for United States or Canada

FEATURES AND HIGHLIGHTS

• Compact

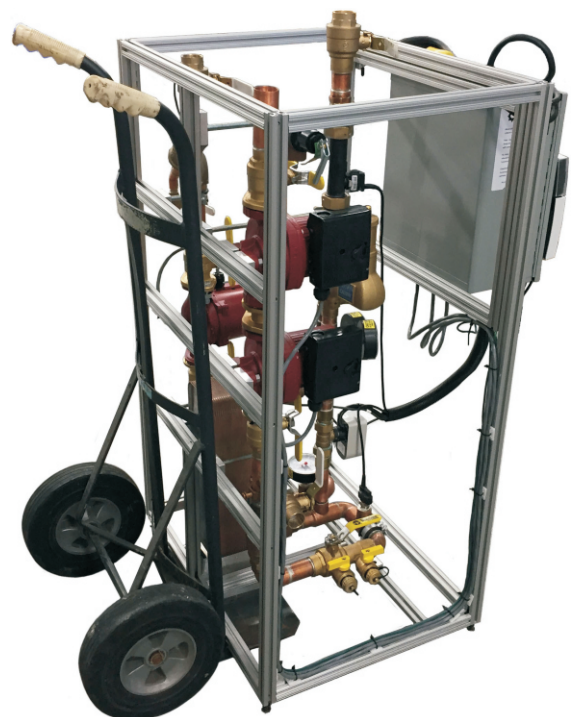
- Small design for tight spaces
- Scalable for large installations
- Easily fits through narrow doors and hallways

• Connectivity (optional)

- Remote access to the system status and performance
- remote adjustment of system parameters
- BACnet compatible

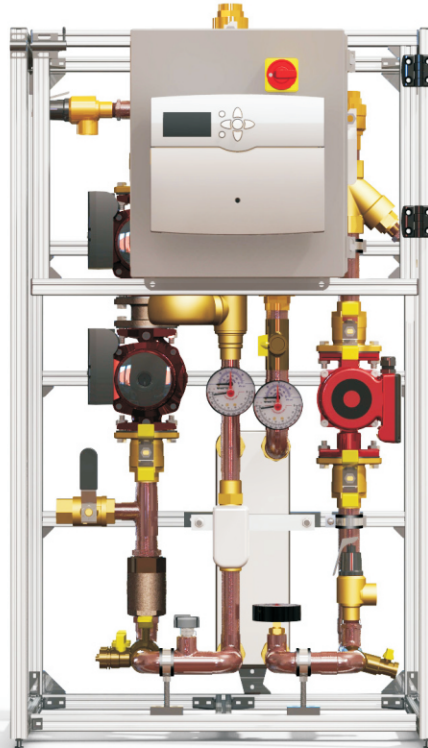
• Reliable

- Pressure, temperature, flow readings available at a glance
- Microbubble air separator ensures heat transfer fluid longevity
- Heat exchanger bypass during cold start-ups improves reliability



Glycol Loop

- Pressure, Flow and Temperature Sensors for thermal management and heat metering
- Heat exchanger bypass to prevent cold heat transfer fluid starts
- Air Separator for heat transfer fluid longevity
- Pressure relief valve (PRV)
- Whisper quite circulating pump(s)
- Expansion tank port for quick installation



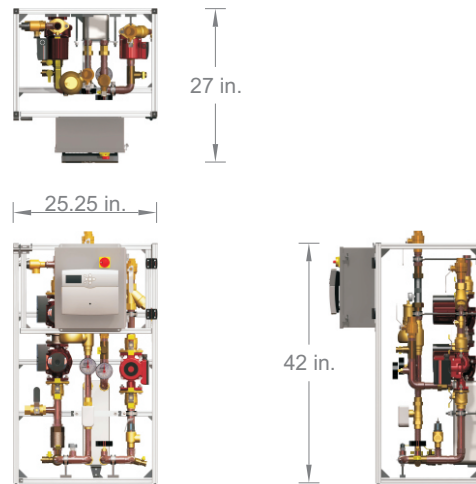
Potable Water Loop

- Double Wall Heat Exchanger
- Stainless steel circulating pump
- Pressure and Temperature Gauges
- Lead Free fittings
- Pressure relief valve (PRV)
- Strainer and flushing port
- Programmable solar controller with energy calculator

TECHNICAL SPECIFICATIONS

General	
Power Supply	115 VAC - 60 Hz - 1Φ - 11 Amp
Dimensions (W x H x D)	25.25" x 42" x 27" (64 x 107 x 69 cm)
Weight	- SET-1020-13-14-E1: 140 Lb. (64kg.) - SET-1020-13-50-E1: 158 Lb. (72kg.) - SET-1785-23-28-E1: 170 Lb. (77kg.)
Primary Circuit (Glycol)	
Pump type	3-speed cast iron flanged housing
Capacity	- SET-1020-13-14-E1: 13gpm-14ft H (1020 Kbtu/day) - SET-1020-13-50-E1: 13gpm-50ft H (1020 Kbtu/day) - SET-1785-23-28-E1: 23gpm-28ft H (1785 Kbtu/day)
Max. operating pressure	90 psi (6.2 bar)
Pressure reading	utilizes MEMS-sensing technology
Flow reading	utilizes MEMS sensing technology
Connection	1-1/4" Sweat
Secondary Circuit (Water)	
Pump type	3-speed stainless steel flanged housing
Max. operating pressure	125 psi (8.6 bar)
Connection	1-1/4" Sweat
Heat Exchanger	
Type	Double Wall - External Brazed Plate
Material	316 Stainless Steel with copper brazing
Internal Piping	
Piping	1-1/4" Copper (Lead Free on water loop)
Charging port	Standard 3/4" Garden Hose Thread
Expansion tank connection	1" Sweat
Certifications	
Available upon request	- United States : TUV mark (done to UL / ANSI / NFPA Standards) - Canada: ESAFE mark - CSA mark

CHARACTERISTICS



COMPANY PROFILE

Enerworks Inc. is a leading North American manufacturer of solar thermal products for pool heating, domestic water heating and process heat. For more information about our products visit:

Enerworks Commercial Solar Thermal Products:

www.enerworks.com/commercial

Enerworks online case studies:

www.enerworks.com/case-studies

Enersol Solar Pool Heaters:

www.enersol.com

Online store:

www.solarthermal.com