



Thermo-Miser™ Drainback Reservoirs

FEATURES:

All models

- Type 304 Stainless Steel Construction
- ¾" NPT Connections (solar loop)
- Maximum Operating Temperature: 250°F
- Maximum Operating Pressure: 45 psi
- Rigid Polyurethane Foam Insulation
- Thermal Resistance (R-value): 3.58 per inch
- ABS Plastic Outer Shell and Vacuum Molded Caps
- ½" O.D. Polycarbonate Sight Glass
- Pressure Relief Valve: 30 psi (set point)
- Diptube Assembly for Noise Reduction (solar return)

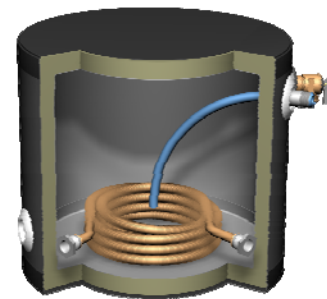
Heat Exchangers models only

- Type C12200 Finned Coil Heat Exchanger
- ½" NPT Connections (heat exchanger loop)
- Heat exchanger produced to meet the requirements of ASME SB75/SB359 (pressure vessel code)
- 98% Efficient Heat Exchanger

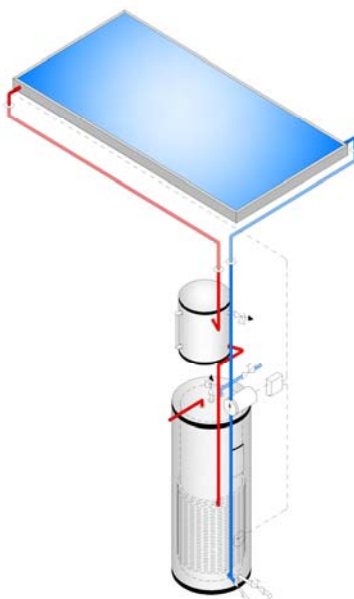
DB-10-10XC



DB-10-10XC
(CUTAWAY)



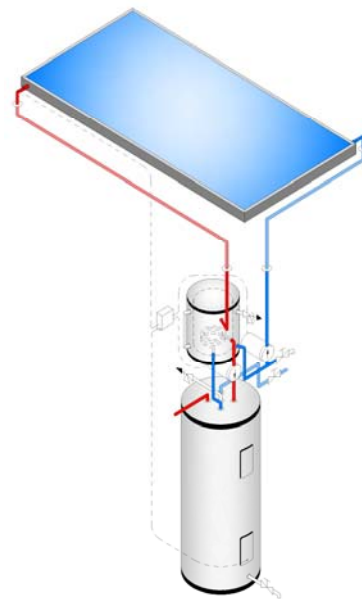
DB Drainback System



The drainback reservoir is intended to serve as a storage vessel for the solar heat transfer fluid when the system is not in operation. As the circulation pump energizes, heat transfer fluid is drawn from the reservoir and is circulated across the solar collectors where heat is gained and transferred, via a heat exchanger, to the water storage tank. When the pump de-energizes, gravity enables the heat transfer fluid to "drain-back" into the reservoir.

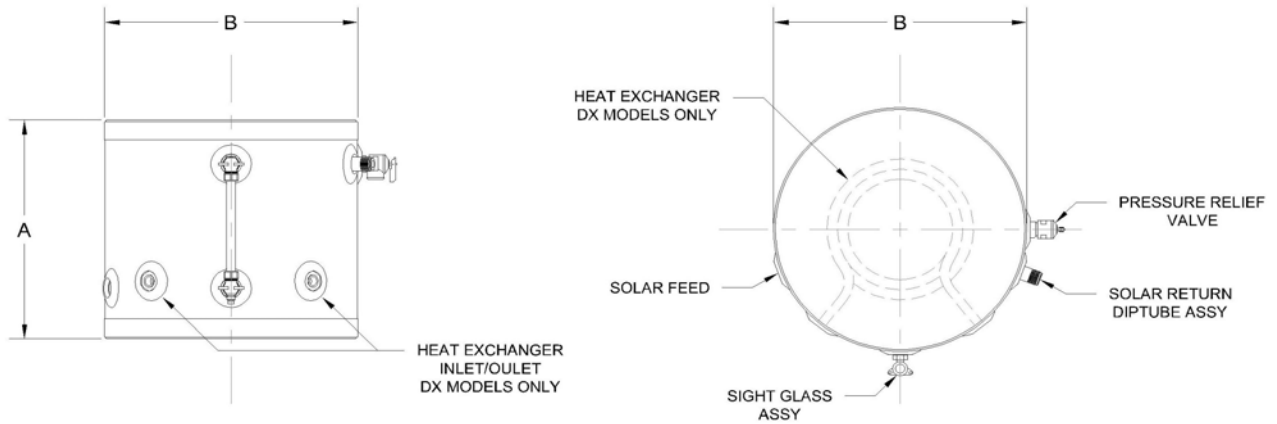
The drainback reservoir may be installed as part of a new solar water heating system or as part of a retrofit to an existing water heater.

DX Drainback System





Alternate Energy Technologies LLC



Drainback Reservoir

MODEL NUMBER	DESCRIPTION	TANK HEIGHT A	JACKET DIAMETER B	TANK VOLUME (gals)	USABLE VOLUME (gals)	SHIPPING WEIGHT (lbs)
DB-10C	10 Gal Drainback Reservoir	16.34	18.16	9.55	6.50	27
DB-10-10XC	10 Gal Drainback Reservoir w/10 ft ² Heat Exchanger	16.34	18.16	9.31	6.25	31
DB-15C	15 Gal Drainback Reservoir	22.34	18.16	14.72	11.66	37
DB-15-15XC	15 Gal Drainback Reservoir w/15 ft ² Heat Exchanger	22.34	18.16	14.34	11.29	46

Dimensions and specifications subject to change without notice. Unless otherwise indicated, dimensions on charts shown are in inches.

Specification

Thermo-Miser™ Drainback reservoir(s) shall be model _____ as manufactured by Alternate Energy Technologies, LLC., or an approved equal, and shall have a 5-year warranty and a 1-years parts warranty, when installed in a solar water heating installation. The drainback reservoir(s) shall have a storage capacity of _____ gallons and shall have a usable volume of _____ gallons. The drainback reservoir(s) shall be manufactured from Type 304 stainless steel base materials, totally encased in an ABS plastic shell and insulated with a CFC-Free polyurethane foam. The heat exchanger model(s) shall include an internal finned-coil heat exchanger, providing _____ ft² of contact surface area. The heat exchanger shall be produced from copper alloy C12200 and shall be mechanically connected to the stainless steel drainback reservoir with flare type fittings. The drainback reservoir(s) shall be furnished with a sight gauge assembly kit and a corrosion-resistant, pressure relief valve rated at no greater than 30 psi.

Manufactured by

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