

PRODUCT DATA / SUBMITTAL SHEET

THERMOMISER DB-HC/DB-XHC SERIES DRAINBACK RESERVOIRS



ALTERNATE ENERGY
TECHNOLOGIES



Function

Thermomiser DB-HC and DB-XHC drainback reservoirs are 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 is considered as a non-pressurized vessel.

Drainback reservoirs may be installed as part of a new solar water heating system or as part of a retrofit to an existing water heater.

Product range

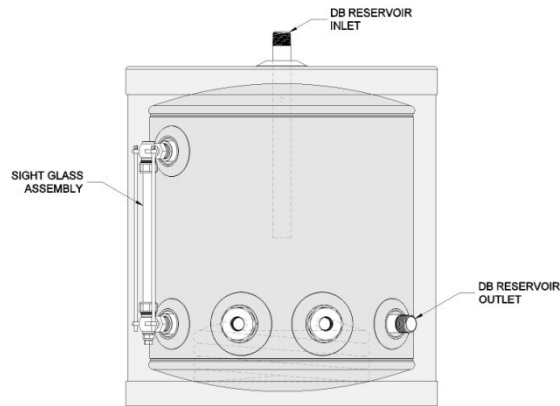
DB-10HC	Stainless Steel Drainback Reservoir	10 gallon
DB-10-10XHC	Stainless Steel Drainback Reservoir w/ integral heat exchanger	10 gallon
DB-15HC	Stainless Steel Drainback Reservoir	15 gallon
DB-15-15XHC	Stainless Steel Drainback Reservoir w/ integral heat exchanger..	This model is no longer available 15 gallon

Technical Specifications

Tank materials:	type 316L stainless steel
Tank Insulation:	1", 1-1/2" non-CFC foam
Tank external cover:	gray/black "haircell" ABS plastic
Insulation thermal conductivity:	R6.4
Service water connections:	3/4" NPT
Max. working pressure:	45 psi
Working temperature:	-40 to 190°F
Testing pressure:	120 psi
Max. tank temperature:	210°F
Recommended max. delivery hot water temperature:	120°F
Heat exchanger connections:	1/2" NPT
Heat exchanger max. pressure:	150 psi
Heat exchanger max. temperature:	210°F
Heat exchanger pressure drop:	

Flowrate (gpm)	1	2	3	4
Δp (ft)	0.5	0.8	1.5	2.8

Dimensions



Construction details

Thermomiser DB-HC/DB-XHC drainback reservoirs include a 5/8" polycarbonate site glass and a factory supplied 45 psi (set point) pressure relief valve.

Heat exchangers are produced to meet the requirements of ASME SB75/SB359 (pressure vessel code).

Heat exchangers are available in the XHC reservoirs. Non-heat exchange reservoirs can be used in conjunction with plate and frame or storage tank integrated heat exchangers.

Model Number	Description		Roughing in Dimension		
	Tank Volume (gals)	Usable Volume (gals)	Height (in)	Diameter (in)	Approx. Ship Weight
DB-10HC	12.00	7.80	20.00	18.00	31
DB-10-10XHC	12.00	7.80	20.00	18.00	40
DB-15HC	14.10	9.80	22.00	18.00	33

NOTE: Dimensions are approximate. AET reserves the right to make product changes or update without notice. AET will not be liable for typographical errors in literature. For questions, please consult the factory.

JOB NAME:	CONTRACTOR:
JOB LOCATION:	APPROVAL:
ENGINEER:	CONTRACTOR'S P.O. NO.:
APPROVAL:	REPRESENTATIVE: