

I. PRODUCT DESCRIPTION

The Crown MS series indirect water heater is designed to generate domestic hot water in conjunction with a hot water boiler using forced boiler water circulation. This indirect water heater consists of a 430 Ti Stainless Steel tank in which a smooth 304 stainless steel coil is located. Boiler water is pumped through the coil and heats the water in the tank. This tank is not intended for use in pool heating applications or for heating any other fluid other than water. It is also not intended for use in gravity hot water heating systems.

IMPORTANT NOTE

Some localities require indirect water heaters having a relief valve capacity in excess of 200,000 BTU/hr to be constructed and stamped in accordance with ASME requirements. Check with the local authority having jurisdiction before installing an MS-79 or MS-119 with a boiler or boilers having a total gross output in excess of 200,000 BTU/hr.

II. SPECIFICATIONS

TABLE 1: PERFORMANCE SPECIFICATIONS

Model	First Hour Rating (Gal/hr) at:		Gross Boiler Output (BTU/hr)	Boiler Water Through Coil	
	140° F	115° F		Min Flow (Gal/min)	Head Loss (ft w.c.)
MS-26	142	197	110,000	8.0	2.5
MS-40	166	230	120,000	8.0	3.0
MS-40*	175	242	133,000	11.4	6.1
MS-53	224	259	146,500	8.0	4.5
MS-79	253	350	190,000	10.6	8.4
MS-119	350	409	386,000	15.4	11.6
MSH-40H	135	173	470,301	8.0	4.5

*Standard MS-40 with higher flow rate through coil and higher gross boiler output.
Conditions: 50°F domestic water in, 200°F boiler limit setting.

Pressure Ratings:

Maximum Allowable Tank Working Pressure - 150 psi
Design Hydrostatically Tested to 300 psi

TABLE 2: MATERIALS OF CONSTRUCTION

Component	Material
Tank (Except MSH-40H)	430 Ti Stainless
Tank (MSH-40H)	316 L Stainless
Coil	304 Stainless Steel
Insulation (Top/Bottom)	EPS Foam (Foam Rubber on MS-119)
Insulation Sides	EPS Foam (Foam Rubber on MS-119)
Jacket (Except MSH-40H)	Polypropylene (Cloth on MS-119)
Jacket (MSH-40H)	16 Ga. Steel
Hand Hole Cover Gasket	Silicone "O" Ring

FIG. 1: MEGA-STOR INDIRECT WATER HEATER

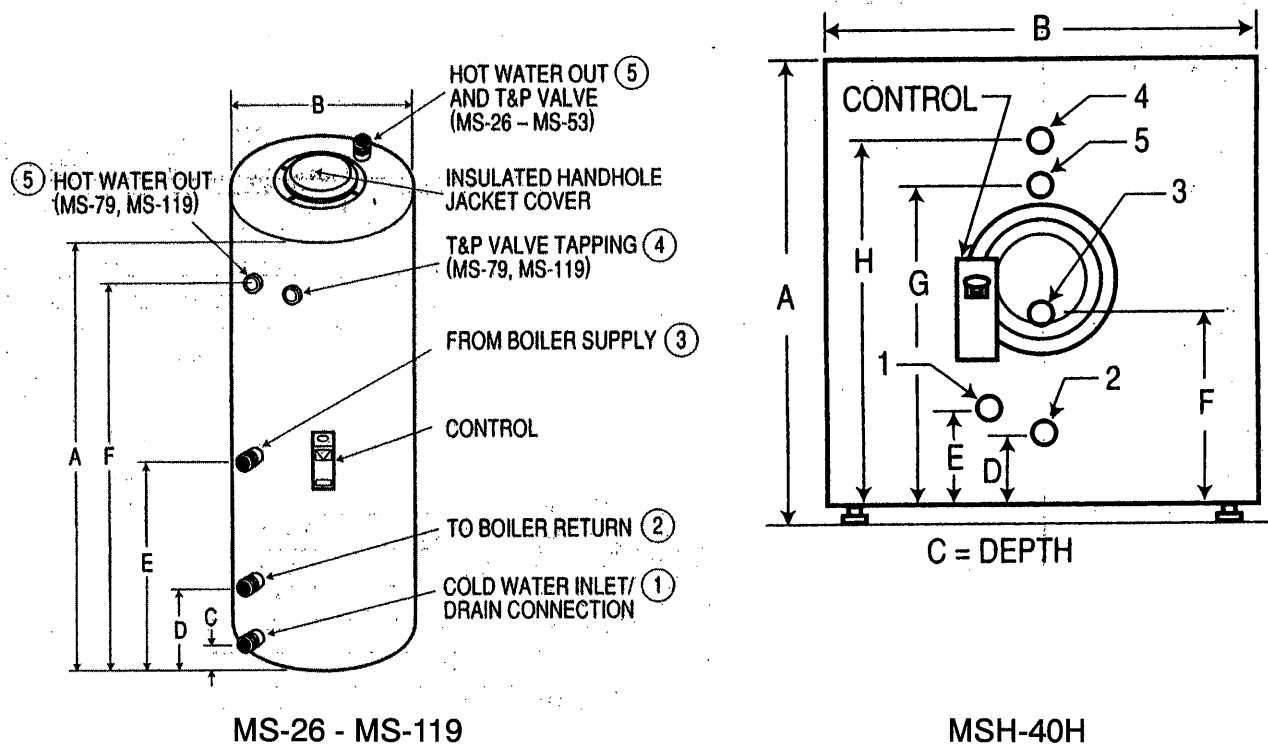


TABLE 3: PHYSICAL SPECIFICATIONS

Model	Volume (Gal.)	Dimensions in Inches								Coil Surface (Sq. Ft.)	Weight	
		A	B	C	D	E	F	G	H		Net	Full
MS-26	26.4	38 3/4	20-1/4	2.0	9-3/4	22-1/2	-	-	-	6.5	57	269
MS-40	39.6	54-3/4	20-1/4	2.0	9-3/4	25-3/4	-	-	-	8.6	77	396
MS-53	52.8	47-7/8	23 7/8	2.0	9-7/8	26-3/4	-	-	-	10.1	103	522
MS-79	79.3	69-1/4	23-3/4	1-5/8	10-1/4	29-1/4	59-1/4	-	-	15.1	204	831
MS-119	119.4	66	29-1/2	2-1/2	12-3/4	39-1/4	52-3/4	-	-	24.3	218	1178
MSH-40H*	37.6	24-3/8	23 7/8	34-11/16	3-5/8	5	10-1/8	16-7/8	19-3/8	6.7	127	449

*MSH-40H Horizontal Tank

TABLE 4: CONNECTIONS

Key #	Description	Size (NPT)			
		MS-26 - MS-53	MSH-40H	MS-79	MS-119
1	Cold Water Inlet	3/4M	3/4M	1M	1-1/4M
2	To Boiler Return	3/4M	3/4M	3/4M	1-1/4M
3	From Boiler Supply	3/4M	3/4M	3/4M	1-1/4M
4	T&P Valve Tapping	-	3/4F	1F	1F
5	Hot Water Out	3/4M	3/4M	1F	1-1/4F