

HOT WATER TURBINES



Have a hot/warm water application that requires a high degree of accuracy with low maintenance features? Then Carlon has a family of meters for you. Our hot water turbine meters are available in sizes from 3/4" to 6", with larger sizes available upon request. Carlon turbine meters provide an amazing +/- 1% accuracy at flow rates from 1 GPM all the way up to 1,870 GPM and 235 psi. Our hot water turbine meters will handle temperatures up to 250 °F. Our turbine meters are all available in totalizing and electric contact configurations so that you can run your other process equipment (Carlon valves, timers, controllers and chemical pumps) directly from our turbine meter.



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METER SELECTION CHART

METER SIZE	TOTALIZING MODEL	ELECTRIC CONTACT	CONTACT SETTINGS	FLOW CAPACITY	NOMINAL FLOW
3/4"	H075T	H075EC	1/10/100 GPC	1-20 GPM	11 GPM
1"	H100T	H100EC	1/10/100 GPC	2-50 GPM	27 GPM
1 1/2"	H150T	H150EC	10/100 GPC	3-85 GPM	44 GPM
2"	H200T	H200EC	10/100 GPC	3-132 GPM	66 GPM
3"	H300T	H300EC	100/1000 GPC	14-198 GPM	141 GPM
4"	H400T	H400EC	100/1000 GPC	6-790 GPM	263 GPM
6"	H600T	H600EC	100/1000 GPC	45-1870 GPM	1005 GPM

Nominal Flow: The size of meter selected should be based upon nominal flow, GPC, as opposed to pipe size. For example, if it is determined that nominal flow is 500 GPM, a 4" meter should be selected. Head loss = 1.5 psi at nominal flow. Specify contact settings for EC models. For example, if you require a 2" meter with 100 GPC setting, order a H200EC-100. Call our factory for available settings in cubic feet and metric applications.

DIMENSIONS

METER SIZE	MODEL	LENGTH	HEIGHT	WIDTH	WEIGHT
3/4"	H075T/H075EC	7 1/2"	6"	3 3/4"	4 1/2 lbs.
1"	H100T/H100EC	10 1/4"	7 1/4"	4"	7 lbs.
1 1/2"	H150T/H150EC	11 7/8"	8 1/8"	5 1/2"	11 1/2 lbs.
2"	H200T/H200EC	7 7/8"	8 1/2"	6 1/2"	25 lbs.
3"	H300T/H300EC	8 7/8"	9 1/4"	7 7/8"	28 lbs.
4"	H400T/H400EC	9 7/8"	12 1/4"	8 5/8"	44 lbs.
6"	H600T/H600EC	11 7/8"	14 1/4"	11 1/4"	72 lbs.

SPECIFICATIONS

Meter Connections: Carlon supplies necessary connections with all turbine meter orders.

Pressure ratings: Do not exceed 235 psi

Temperature Tolerance: Protect the meter from freezing and from temperatures in excess of 250 °F

Accuracy: +/- 1.0% when operating between minimum and maximum flow range

Current Considerations: Specific to EC models only. Maximum switching voltage is 48v AC/DC.
Maximum current .2 amps, 3 watts.

Larger Sizes: Available upon request.

Installation Instructions:

A. For all types of hot water turbine meters:

1. Flush the line thoroughly after all plumbing changes to prevent contaminants from entering the turbine.
2. 2-6 inch meters can be mounted horizontal or vertically with inlet port facing the water supply line.
3/4, 1, & 1 1/2 inch meters are recommended to be mounted horizontal.

B. For EC type hot water turbine meters:

1. Connect the terminals on the pulse head to the meter input on the controlling device.
2. Connect your controlling device to the water treatment equipment (pumps, valves, etc.).
Note GPC setting to determine frequency of operation.
3. This meter is not designed for outdoor installation.

Warranty: Carlon warrants its products to be free of defect in material and workmanship for a period of twelve months from the date of purchase. Contact us to obtain a copy of our complete statement of warranty.

Helpful Hints:

1. Install a Carlon slow-closing valve downstream of your water meter.
This will eliminate possible meter damage from water hammer in your system.
2. Install a Carlon strainer upstream of your water meter to protect the meter and any other in-line process equipment from becoming jammed by particulate matter in your system.
3. Carlon turbine meters have an epoxy coated cast iron main case.
Sizes of 3/4", 1,"and 1 1/2"are multi-jet type meters with bronze main case.

Additional Information: If you require additional information, visit us online at www.carlonmeter.com