

# HOT WATER TURBINES



Have a hot 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 +/- 2% accuracy at flow rates from 1 GPM all the way up to 2,860 GPM and 227 psi. Our hot water turbine meters will handle temperatures up to 248 °F. The 2" and larger models have a register that is capable of rotating 340 degrees for the ease of reading the meter after installation. 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.



1710 EATON DRIVE • GRAND HAVEN, MICHIGAN 49417  
PHONE (616) 842-0420 FAX (616) 842-1265  
EMAIL [CARLON@CARLONMETER.COM](mailto:CARLON@CARLONMETER.COM) • [WWW.CARLONMETER.COM](http://WWW.CARLONMETER.COM)

## METER SELECTION CHART

METER SIZE	TOTALIZING MODEL	ELECTRIC CONTACT	CONTACT SETTINGS	FLOW RANGE	CONTINUOUS 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	8-305 GPM	153 GPM
3"	H300T	H300EC	100/1000 GPC	20-660 GPM	330 GPM
4"	H400T	H400EC	100/1000 GPC	30-1100 GPM	550 GPM
6"	H600T	H600EC	100/1000 GPC	45-1870 GPM	935 GPM
8"	H800T	H800EC	100/1000 GPC	60-2860 GPM	1430 GPM

**Continuous Flow:** The size of meter selected should be based upon continuous flow, GPM, as opposed to pipe size. For Example, if it is determined that continuous flow is 500 GPM, a 4" meter should be selected.

**Specify contact settings for EC models.** For example, if you require a 2" meter with 100 GPC setting, order a H200EC-100 GPC. Consult factory for cubic feet and cubic meters registration.

## METER 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"	12 1/4"	6 1/2"	32 lbs.
3"	H300T / H300EC	8 7/8"	13"	7 7/8"	39 lbs.
4"	H400T / H400EC	9 7/8"	13 1/2"	8 5/8"	46 lbs.
6"	H600T / H600EC	11 7/8"	14 1/4"	11 1/4"	72 lbs.
8"	H800T / H800EC	13 7/8"	14 3/4"	13 3/8"	100 lbs.

## SPECIFICATIONS

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

**Pressure Ratings:** 7 to 227 psi. **Head Loss** = 1.5 psi at continuous flow.

**Temperature Tolerance:** Protect the meter from freezing and from temperatures in excess of 248 °F.

**Accuracy:** +/- 3% 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).
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 that are 2" and larger have an epoxy coated cast iron main case.  
Sizes 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](http://www.carlonmeter.com)