

# THS SERIES® HORIZONTAL SAND FILTER

## Featured Highlights

- Five sizes to 27 sq. ft.
- Manway in front for easier access and smaller footprint
- Manway with viewport available as option
- 6 in. flanged connections, 4 in. victaulic on the THS Series 3461
- Optional manual, semi-automatic, and automatic backwash systems for one and two tank systems
- Two backwash controllers to choose from
- Influent manifold distribution to prevent clogging
- NSF approved from 5–20 gpm/sq. ft.



THS Series Horizontal Sand Filter

The THS Series Filter is an NSF-approved 50 psi rated tank with flow rates up to 535 gallons per minute. The filter shell is manufactured from a lasting composite laminate design that makes winding unnecessary. Paracote®, a waterbased, coating, provides remarkable surface protection.

## Ordering Information

Product	Model	Description	Effective Filtration Area (Sq. Ft.)	Flow Rate (15 GPM/ Sq. Ft.)	6 Hour Turnover Capacity (In Gallons)	Filter Media		All Sand Required (Lbs.)	Carton Wt. (Lbs.)
						Pea Gravel Required (Lbs.)	Sand Required (Lbs.)		
<b>THS SERIES HORIZONTAL FILTER</b>									
143461	THS3461	THS 34 in. x 61 in.	13.5	203	73,080	300	1250	1550	550
143484	THS3484	THS 34 in. x 84 in.	19.0	285	102,600	600	1350	1950	610
144272	THS4272	THS 42 in. x 72 in.	19.7	295	106,200	500	2100	2600	650
144284	THS4284	THS 42 in. x 84 in.	23.2	348	125,280	600	2400	3000	725
144296	THS4296	THS 42 in. x 96 in.	26.7	400	144,000	700	2800	3500	800
<b>CONTROLLERS (MUST USE WITH DIAPHRAGM VALVES MANIFOLD KITS)</b>									
156400	Single THS manual controller 6 in. FP				156850	Single THS CA100 autbackwash controller			
156450	Dual THS manual controller 6 in. FP				CS400-01	CS400 backwash controller for single tank system			
156800	Dual THS CA100 autbackwash controller				CS400-02	CS400 backwash controller for dual tank system			



**CM200 Manual Backwash Controller**  
This is the simplest option. No electronics or programming required. Simply turn the knob to backwash each tank in the system.



**CS 400 Commercial Backwash Controller**  
This controller is programmable and controls every aspect of the backwash cycle once initiated. Backwash can be initiated three ways: by an operator with the touch of a button, by a signal from a master controller (such as the AK600), or by a signal from an optional differential pressure switch (CS400-DP). Stored backwash data and history, alarms, and calculated backwash cycle times are also features of the CS400 controller, as are relays for communication with the heater, pump and Acu Drive.



**CA 100 Fully Automatic Backwash Controller**  
This is the most comprehensive backwash controller and can be readily reprogrammed to initiate backwash automatically based on differential pressure (integral pressure transducers are standard), time (internal seven-day clock with battery back-up is standard), flow (with optional flow sensor), or any combination of the above. The controller has real-time display of operation mode, filter flow rate, and water temperature (with optional temperature probe). Also, includes Energy Saver Mode for simple On/Off pump scheduling and various interlocks and relays to communicate with other equipment (pump, heater, Acu Drive).

# THS SERIES® HORIZONTAL SAND FILTER (CONT'D)

MANIFOLD KITS <sup>7</sup>	
155700	THS single tank manifold kit with butterfly valves <sup>3</sup>
155720	THS dual tank manifold kit with butterfly valves <sup>3</sup>
155701	THS single tank 6 in. FP kit with diaphragm valves <sup>6</sup>
155721	THS dual 34 x 84 in. 6 in. FP kit with diaphragm valves <sup>6</sup>
155730	THS dual 42 in. dia. 6 in FP Kit with diaphragm valves <sup>6</sup>
MANIFOLD KITS FOR THS 34 X 61 ONLY <sup>7</sup>	
155702	Kit-THS3461, single tank manifold, with butterfly valve kit <sup>3</sup>
155722	Kit-THS3461, dual tank manifold, with butterfly valve kit <sup>3</sup>
155703	Kit-THS3461, single tank manifold, with diaphragm valve kit <sup>6</sup>
155723	Kit-THS3461, dual tank manifold, with diaphragm valve kit <sup>6</sup>

ACCESSORIES	
140325	Adder kit for third THS Filter <sup>2</sup>
156100	Temperature probe kit <sup>4</sup>
156150	Flowmeter saddle kit 6 in. <sup>4</sup>
155800	WA-KIT wedge anchor kit <sup>1</sup>
155705	Manway with Viewport upgrade - at time of purchase
155706	Manway with Viewport Retrofit Kit - replace existing in field
CS400DP	Mounted differential pressure switch <sup>5</sup>
B4110	120v to 24v 100w transformer
B4221KIT	Gauge Panel Kit Influent/Effluent gauge

<sup>1</sup> One each per tank purchased if required.

<sup>2</sup> Adder Kit provides 6 in., SCH 80 manifold piping, fittings and hardware for the addition of a third THS Series filter of equal diameter only when #155720 Dual-Filter Butterfly Valve Face Piping Kit is used. Note: Using a 6 in. Schedule 80 plumbing kit with flows in excess of 812 GPM exceeds the maximum water velocity recommended in ANSI/NSPI-1 2003 Standard for Public Swimming Pools. For higher flows, summary calculations should be provided to show that the greater flow is possible with the pump and piping provided.

<sup>3</sup> Does not require a purchase of a controller.

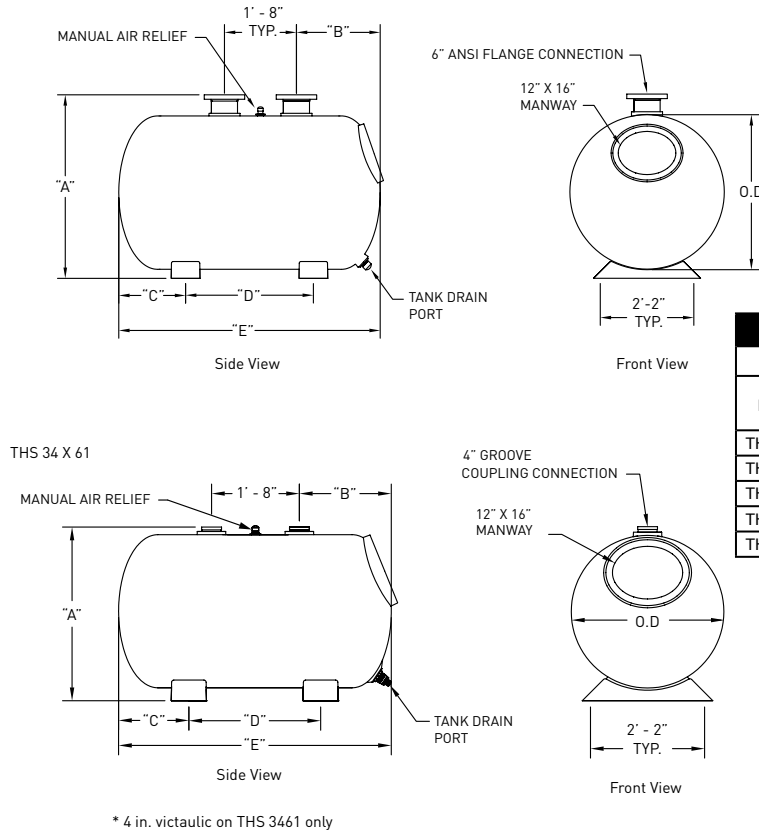
<sup>4</sup> Only used with CA100 controller option.

<sup>5</sup> Only available with CS400 controller.

<sup>6</sup> Does require a purchase of a controller.

<sup>7</sup> Does not include THS Tanks.

## Dimensions and Performance



Certified to  
NSF/ANSI Standard 50

THS SERIES SPECIFICATION CHART							
Model	Tank Dimensions						WT
	"A" in.	"B" in.	"C" in.	"D" in.	"E" in.	"O.D." in.	
THS3461	39-1/2	21	16	30	62	35	550
THS3484	45	21-1/4	24-5/8	35-1/4	85	35	610
THS4272	52-1/4	23-1/4	18-7/8	35-1/4	73	43	650
THS4284	52-1/4	23-1/4	24-7/8	35-1/4	85	43	725
THS4296	52-1/4	23-1/4	30-7/8	35-1/4	97	43	800

NSF/ANSI 50 approved for 5-20 gpm/sq.ft.

CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING: Cancer and Reproductive Harm.  
 ⚠ AVERTISSEMENT: Peut Causer le Cancer et des Dommages au Système Reproducteur.  
 ⚠ ADVERTENCIA: Cáncer y Daño Reproductivo.  
[www.p65warnings.ca.gov](http://www.p65warnings.ca.gov) PHS 201714