TH SERIES™ PUMPS PRO+

All-Time Best Selling Pumps

TH Series™ Submersible Stainless Steel Pumps

Energy efficient and long-lasting! Great for waterfalls and streams.

TH Series™ Pumps have proven to be a great choice for ponds, waterfalls, fountains and similar applications.

Thousands of these pumps are in use throughout North America in a wide variety of continuous duty applications. Compact design is ideal for use in skimmers. One of the industry's best selling pumps.

- Rugged motor – designed for long life, continuous duty operation; motor housing is corrosion-resistant stainless steel
- Low maintenance – pump casing is made from abrasion-resistant, fiber reinforced plastic for maximum life
- Vortex design prevents clogging
- Built-in overload and overheat motor protection
- 20' power cord - available in 50' and 100' lengths at 115v
- 2" female threaded outlet

Optional bottom screen available! ***THPS***

TWO YEAR WARRANTY 2

Part #	Maximum Flow	hp	Amps	Volts	gpm @ feet of head						Maximum Total Dynamic Head
					0'	5'	10'	15'	20'	25'	
TH150	3100 gph	1/4	2.36-3.1	115	52	46	35	23	10	-	23'
TH1502	3100 gph	1/4	1.3-1.5	230	52	46	35	23	10	-	23'
TH250	4100 gph	1/3	3.0-4.2	115	68	65	54	43	30	15	30'
TH2502	4100 gph	1/3	1.5-2.1	230	68	65	54	43	30	15	30'
TH400	5100 gph	1/2	3.7-6.0	115	85	83	73	60	46	34	36'
TH4002	5100 gph	1/2	1.8-3.0	230	85	83	73	60	46	34	36'
TH750	6000 gph	1	6.0-9.9	115	100	98	91	83	73	62	46'
TH7502	6000 gph	1	3.0-4.9	230	100	98	91	83	73	62	46'

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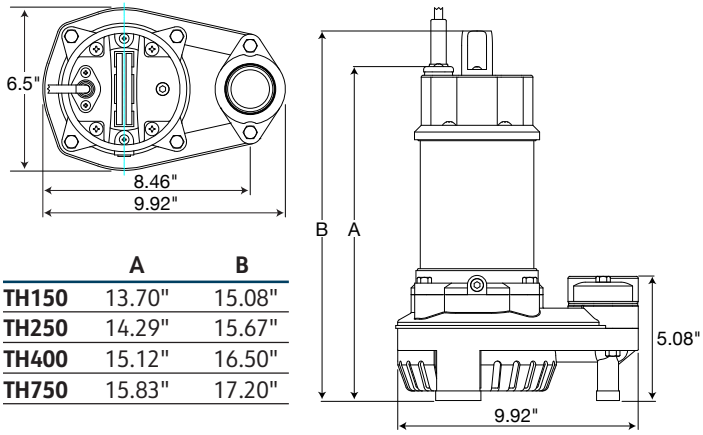
Features

EasyPro TH Series™ Pumps are ideal for ponds, waterfalls, fountains and other applications where continuous water circulation is required. Their compact design makes them a great choice for pond skimmers. With field proven reliability, TH Series™ Pumps are one of the most popular pumps in the pond and water feature industry.

- Rugged motor, designed for long life, continuous duty operation
- Four models with flows up to 6,000 gph are available in 115 or 230 volt
- 304 stainless steel motor housing
- Continuous duty motor is air filled for maximum heat dissipation and reliability
- Silicon carbide and carbon ceramic double mechanical seals
- Built in thermal overload protection
- Wear and clog resistant vortex impeller
- 2" female threaded outlet
- 20' power cord, 50' and 100' corded units available in 115 volt
- Two year limited warranty

Dimensional Drawings

Dimensions are approximate and for reference only.



	A	B
TH150	13.70"	15.08"
TH250	14.29"	15.67"
TH400	15.12"	16.50"
TH750	15.83"	17.20"

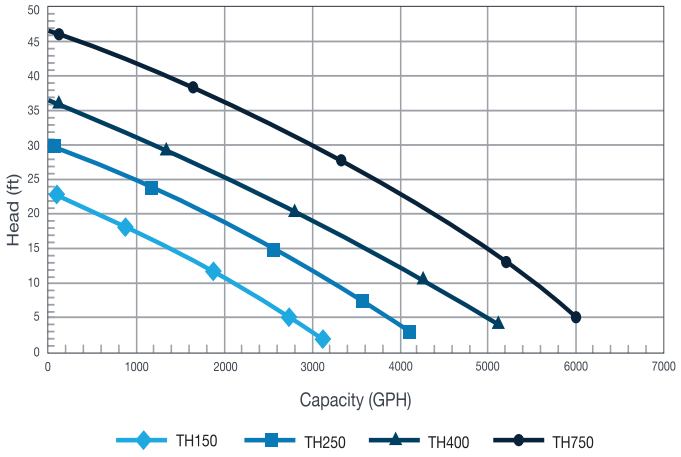
A & B dimensions vary by model

**Shown with optional pump screen (THPS) - sold separately*

Applications

- Water falls & streams
- Ponds
- Water features
- Fountains
- Koi ponds

Performance Curves



Specifications

PART #	HP	MAX. GPH FLOW	MAX. HEAD	WATTS	VOLTS	MAX. AMPS	CORD LENGTH	PUMP WEIGHT
TH150	1/4	3100	23'	270-350	115	2.6-3.1	20'	15 lbs.
TH1502	1/4	3100	23'	270-350	230	1.3-1.5	20'	15 lbs.
TH250	1/3	4100	30'	345-500	115	3.0-4.2	20'	18 lbs.
TH2502	1/3	4100	30'	345-500	230	1.5-2.1	20'	18 lbs.
TH400	1/2	5100	36'	440-670	115	3.7-6.0	20'	20 lbs.
TH4002	1/2	5100	36'	440-670	230	1.8-3.0	20'	20 lbs.
TH750	1	6000	46'	600-910	115	6.0-9.9	20'	24 lbs.
TH7502	1	6000	46'	600-910	230	3.0-4.9	20'	24 lbs.

Watt and amp draw ratings are typical but can vary with operating conditions

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EasyPro TH Series Specifications

General information	
Discharge size	2" fpt
Solid Passage Diameter	1.18" (30 mm)
Power Cable	20' (50' and 100' optional)
Impeller type	Vortex impeller
Range of horsepower	1/4, 1/3, 1/2, 1
Range of Performance	Up to 100 (US GPM) 2' to 46' total head
Liquid Type	Clear water, waste water
Liquid Temperature	32°-104°F (0°-40°C)
Motor	
Voltage/Hz	115 or 230v, 60 Hz
Speed	3450 RPM
Capacitor Type	Running Capacitor
Insulation Class	NEMA Class B
Material	
Pump Housing	Nylon 66 + 30% glass fiber
Impeller	PPO + 20% glass fiber
Pump Shaft	410 Stainless steel
Motor Housing	304 Stainless steel
Fasteners	304 Stainless steel
Bearing	SUJ2 Bearing steel
Type	Pre-lubricated double shielded
Mechanical Seal	Spring loaded double mechanical
Upper Side	Carbon (CA) / Ceramic (CE)
Lower Side	Silicon Carbide (SiC) / Silicon Carbide (SiC)

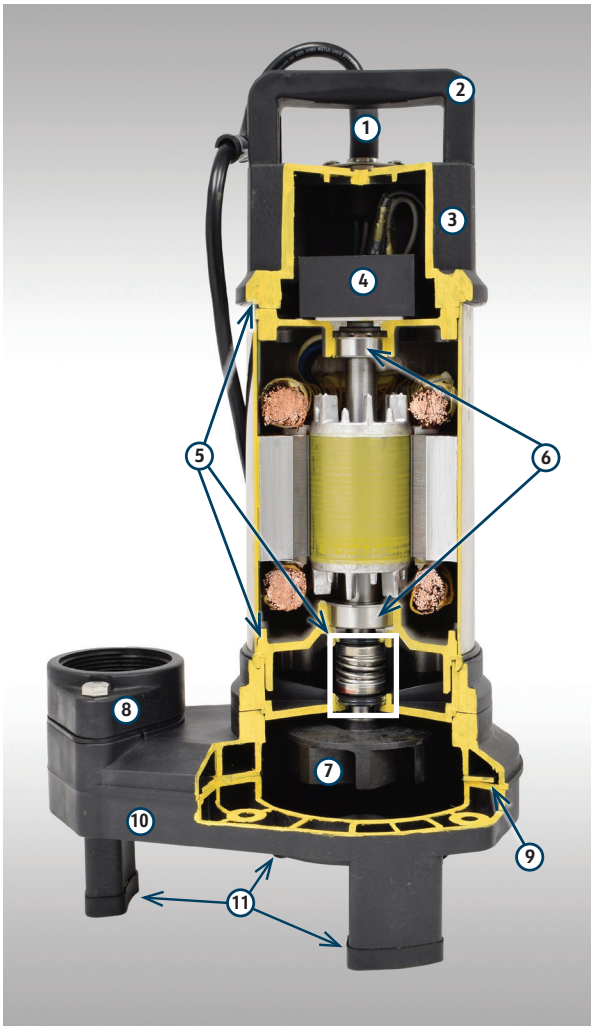
Available Separately

Bottom Screen

Protects all TH Series Pump models from fish, rocks, sticks and other large debris. Recommended on all pumps not being used inside a skimmer.

Part# THPS

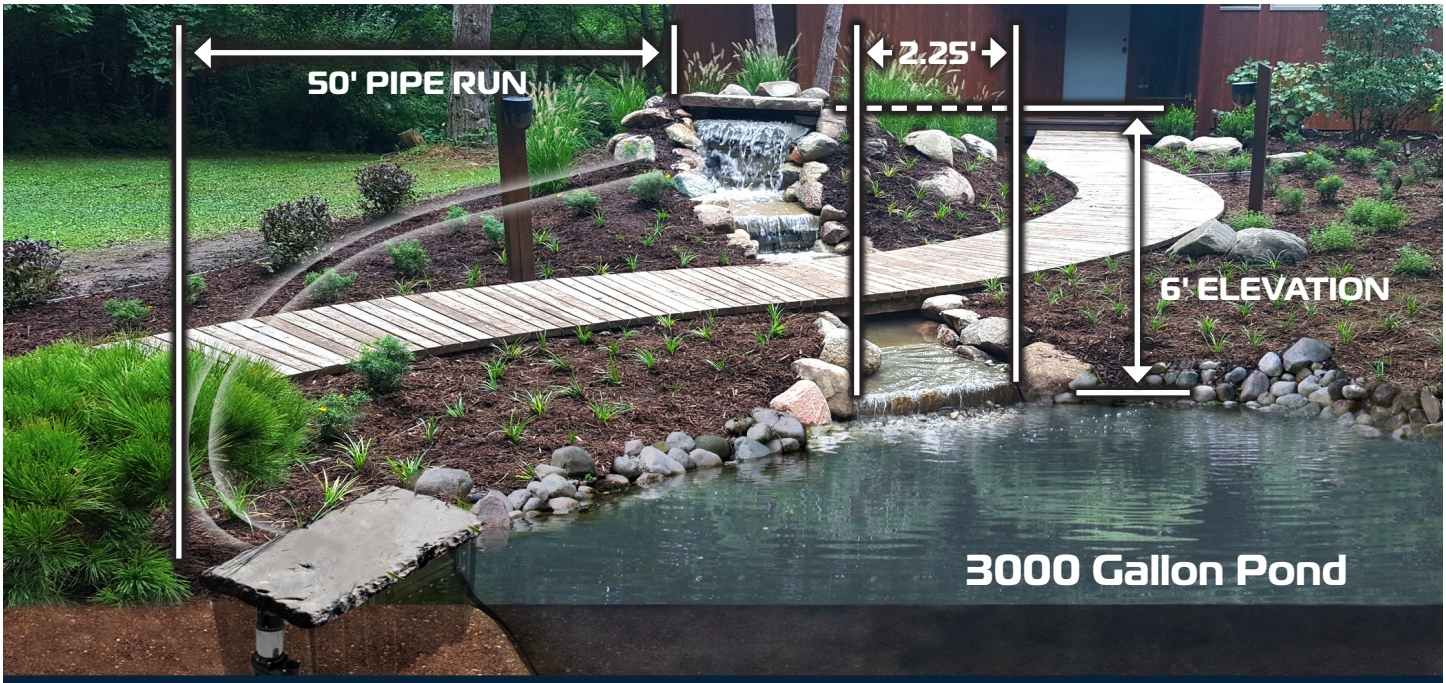
Internal View & Parts



TH Series™ Pumps
Mid 2009 & Newer

1. Power Cord w/Mounting plate
2. Handle
3. Top pump cover
4. Capacitor
5. Seal Kit
6. Bearing Set
7. Impeller
8. Outlet Flange
9. Bottom Gasket
10. Pump Base
11. Rubber Foot
12. Bottom Screen

Optional bottom screen THPS



SELECTING THE RIGHT PUMP

1 Determine your target flow rate There are two ways to do this:

1) By waterfall size

36 gpm, or 2,160 gph, per foot of width

In our example above, a 2.25' wide waterfall requires a pump delivering 81 gpm, or 4,860 gph. This gives a semi-aggressive flow. Adjust up or down to your preference.

2) By pond size/filtration requirements

Most water garden and koi ponds need to be circulated once an hour.
This 3,000 gallon pond should have a 3,000 gph, or 50 gpm flow rate.
Pick the larger of the two numbers above - 81 gpm

2 Determine the pressure (total dynamic head) required

Your operating pressure is a combination of friction loss in the pipe, and lift/elevation above water level.
In our example we have 6' of elevation plus 5' of friction loss in the pipe
See the Friction Loss Calculation formula below to determine Total Dynamic Head (TDH)

3 Summarize your needs

In this example, 81 gpm @ 11' of Total Dynamic Head (TDH)

4 Pick your TH Series™ Pump!

Refer to the performance chart on page 1 to find the best TH Series™ Pump option for your feature based on total dynamic head (TDH) needed. For best results, size up if you're in-between sizes.

FRICTION LOSS CALCULATION

This example shows 2" pipe being used with the waterfall at 6' high and 50' away from the pump. There is 80 gpm (4,800 gph) of water being pumped.

According to the chart above, 80 gpm in 100' of 2" pipe creates 9.94" of head. Since this example shows 50' of pipe being used, we would divide 9.94 by 2, which equals 4.97" of head from friction loss.

6' Vertical Lift
+
4.97' Friction Loss
=
10.97' Total Dynamic Head