



## FILTRATION



2020



[www.hidro-termal.com](http://www.hidro-termal.com)



# FILTRATION

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# Blow Moulded HDPE Sand Filters

Crystal clear water and an outstanding performance.

Hidrothermal filters are mold blown into one piece of high density polyethylene, safe for the user and surrounding environment. All are equipped with a 6-way multiport valve and a 360° clamp lock, allowing trouble free installation and maintenance. The High Density Polyethylene formula material we use is both UV-resistant and anti-corrosive making our filters reliable to work in direct sunlight & high PH environments for years of prolonged operation.

## Features

- » Hidrothermal's filter range is designed and manufactured to cater all water solution requirements, domestic & commercial, pool, spa, fountain, waterscape and aquarium.
- » High Density Polyethylene Material; Anti-Corrosive, Safe and Environment Friendly.
- » Unitized Thermal Plastic filter tank; Robust, Durable and suitable for many different weather conditions.
- » Clamp Locking system; 360-degree rotation for simple installation.
- » Compact to save space.
- » Simple, Easy to Use, six position Valve:
  1. Filter (Normal filtration and vacuuming)
  2. Backwash (Reverse Flow Cleanse)
  3. Rinse (Valve flush)
  4. Waste (By passes filter; lower water level, vacuum)
  5. Recirculate (By passes filter; Water circulation)
  6. Close
- » Specially designed drainage system for simple maintenance & ice control in winter.
- » ABS Laterals.



**Standard**  
Plastic clamp



**Optional**  
Stainless Steel clamp



## PG Series

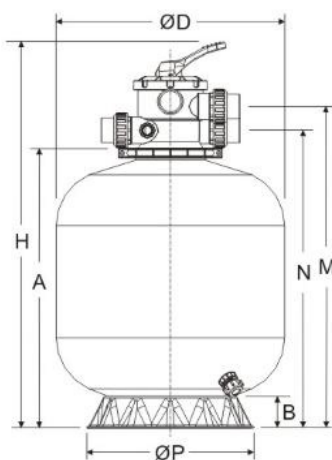


Model	Valve Connection	Filter Area	Flow Rate	0.5-0.8mm Sand Weight	Tank Volume	Valve Volume
HT-PG350	1.5"/50mm	0.10 m <sup>2</sup>	4.5 m <sup>3</sup> /h - 75lpm	25 kg	0.06 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-PG400	1.5"/50mm	0.13 m <sup>2</sup>	6.5 m <sup>3</sup> /h - 108lpm	34 kg	0.09 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-PG450	1.5"/50mm	0.16 m <sup>2</sup>	8 m <sup>3</sup> /h - 133lpm	50 kg	0.15 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-PG500	1.5"/50mm	0.23 m <sup>2</sup>	11.5 m <sup>3</sup> /h - 191lpm	80 kg	0.20 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-PG650	1.5"/50mm	0.32 m <sup>2</sup>	16 m <sup>3</sup> /h - 266lpm	160 kg	0.32 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-PG700	1.5"/50mm	0.40 m <sup>2</sup>	20 m <sup>3</sup> /h - 333lpm	220 kg	0.42 m <sup>3</sup>	0.02 m <sup>3</sup>

\*Maximum Operating Pressure: 36psi/2.5bar (Plastic Clamp).

\*Maximum Operating Water Temperature: ≤50°C/122°F.

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.



Part / Model	HT-PG350	HT-PG400	HT-PG450	HT-PG500	HT-PG650	HT-PG700
A	490	510	570	610	710	780
B	75	75	75	75	95	95
H	750	770	830	870	970	1040
N	545	565	625	665	765	835
M	600	620	680	720	820	890
ØD	350	410	450	535	635	710
ØP	319	319	390	390	565	565

\*Sizes are in mm.

## CG Series

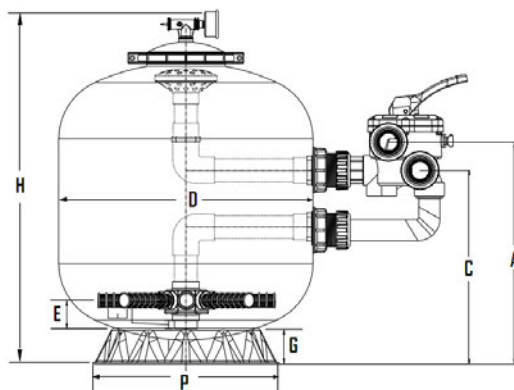


Model	Valve Connection	Filter Area	Flow Rate	0.5-0.8mm Sand Weight	Tank Volume	Valve Volume
HT-CG450	1.5"/50mm	0.16 m <sup>2</sup>	8 m <sup>3</sup> /h - 133lpm	50 kg	0.15 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-CG500	1.5"/50mm	0.23 m <sup>2</sup>	11.5 m <sup>3</sup> /h - 191lpm	80 kg	0.20 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-CG650	1.5"/50mm	0.32 m <sup>2</sup>	16 m <sup>3</sup> /h - 266lpm	160 kg	0.32 m <sup>3</sup>	0.02 m <sup>3</sup>
HT-CG700	1.5"/50mm	0.40 m <sup>2</sup>	20 m <sup>3</sup> /h - 333lpm	220 kg	0.42 m <sup>3</sup>	0.02 m <sup>3</sup>

\*Maximum Operating Pressure: 36psi/2.5bar (Plastic Clamp).

\*Maximum Operating Water Temperature: ≤50°C/122°F.

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.



Part / Model	HT-CG450	HT-CG500	HT-CG650	HT-CG700
A	440	470	490	540
H	670	710	810	880
ΦD	450	535	635	710
ΦP	390	390	565	565
C	385	415	435	485
G	75	75	95	95
E	90	90	90	90

\* Sizes are in mm.

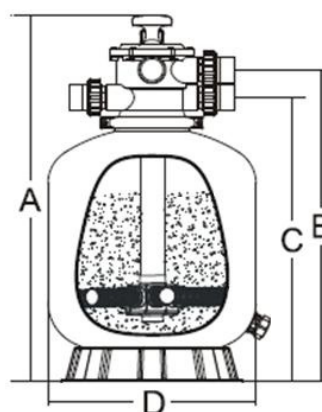
# Fiberglass Sand Filters

Hidrotermal's bobbin-wound fiberglass filters are one of the most popular in the industry, offering crystal clear waters and outstanding performance. Safe for Users and the Environment, UV-Resistant Finish & Anti-Corrosive our filters work well in direct sunlight for years of prolonged operation.

## Features

- » Made of high standard reinforced bobbin-wound fiberglass, corrosive-proof, safe and environmental friendly.
- » The tanks are durable and suitable for many different weather condition.
- » Easy-to-use multiport valve lets you select any of the valve/filter operation with a simple lever-action.
- » Clamp Locking system; 360-degree rotation for simple installation.
- » Compact to Save Space.
- » Simple, Easy to Use, six position Valve:
  1. Filter (Normal filtration and vacuuming)
  2. Backwash (Reverse Flow Cleanse)
  3. Rinse (Valve flush)
  4. Waste (By passes filter; lower water level, vacuum)
  5. Recirculate (By passes filter; Water circulation)
  6. Close
- » Specially designed drainage system for simple maintenance & ice control in winter.
- » Pressure gauge makes it easier to examine and maintain.
- » Air relief bolt enables easy release of trapped air during operation of the filter.
- » ABS Laterals.

## V Series



Model	Filter Area	Valve Connection	Flow Rate	0.5-1.2mm Sand Weight	Size A (mm)	Size B (mm)	Size C (mm)	Size D (mm)
HT-V350	0.09 m <sup>2</sup>	1.5"/50mm	6 m <sup>3</sup> /h - 100lpm	20 kg	659	495	440	350
HT-V400	0.13 m <sup>2</sup>	1.5"/50mm	8 m <sup>3</sup> /h - 133lpm	35 kg	730	575	520	400
HT-V450	0.16 m <sup>2</sup>	1.5"/50mm	10 m <sup>3</sup> /h - 166lpm	45 kg	810	655	600	450
HT-V525	0.22 m <sup>2</sup>	1.5"/50mm	12 m <sup>3</sup> /h - 200lpm	85 kg	890	730	675	525
HT-V625	0.32 m <sup>2</sup>	1.5"/50mm	16 m <sup>3</sup> /h - 266lpm	150 kg	975	820	760	625
HT-V700	0.40 m <sup>2</sup>	1.5"/50mm	20 m <sup>3</sup> /h - 333lpm	210 kg	1065	915	855	700
HT-V700B	0.41 m <sup>2</sup>	2"/63mm	21 m <sup>3</sup> /h - 350lpm	215 kg	1115	955	875	700
HT-V750	0.45 m <sup>2</sup>	2"/63mm	23 m <sup>3</sup> /h - 383lpm	300 kg	1145	976	893	750
HT-V800	0.50 m <sup>2</sup>	2"/63mm	25 m <sup>3</sup> /h - 416lpm	355 kg	1245	1080	1000	800
HT-V900	0.64 m <sup>2</sup>	2"/63mm	31 m <sup>3</sup> /h - 516lpm	470 kg	1270	1123	1040	900
HT-V1000	0.79 m <sup>2</sup>	2"/63mm	36 m <sup>3</sup> /h - 600lpm	620 kg	1425	1276	1200	1000
HT-V1100	0.96 m <sup>2</sup>	2"/63mm	42 m <sup>3</sup> /h - 700lpm	800 kg	1440	1290	1210	1100
HT-V1200	1.13 m <sup>2</sup>	2"/63mm	45 m <sup>3</sup> /h - 750lpm	900 kg	1460	1290	1210	1200

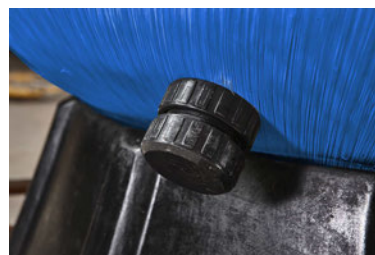
\*Maximum Operating Pressure: 36psi/2.5bar

\*Maximum Operating Water Temperature: ≤43°C/109°F

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.

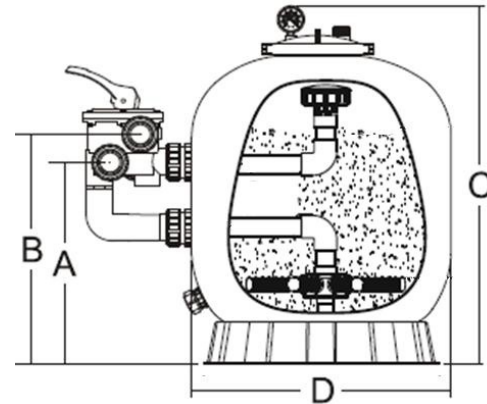


Valve



Drain set

## VS Series



Model	Filter Area	Valve Connection	Flow Rate	0.5-1.2mm Sand Weight	Size A (mm)	Size B (mm)	Size C (mm)	Size D (mm)
HT-VS525	0.22 m <sup>2</sup>	1.5"/50mm	12 m <sup>3</sup> /h - 200lpm	85 kg	40	47	780	525
HT-VS625	0.32 m <sup>2</sup>	1.5"/50mm	16 m <sup>3</sup> /h - 266lpm	150 kg	45	52	880	625
HT-VS700	0.40 m <sup>2</sup>	1.5"/50mm	20 m <sup>3</sup> /h - 333lpm	210 kg	50	57	945	700
HT-VS700B	0.41 m <sup>2</sup>	2"/63mm	21 m <sup>3</sup> /h - 350lpm	215 kg	52	62	945	700
HT-VS750	0.45 m <sup>2</sup>	2"/63mm	23 m <sup>3</sup> /h - 383lpm	300 kg	58	68	960	750
HT-VS800	0.50 m <sup>2</sup>	2"/63mm	25 m <sup>3</sup> /h - 416lpm	355 kg	64	74	1080	800
HT-VS900	0.64 m <sup>2</sup>	2"/63mm	31 m <sup>3</sup> /h - 516lpm	470 kg	65	75	1100	900
HT-VS1000	0.79 m <sup>2</sup>	2"/63mm	36 m <sup>3</sup> /h - 600lpm	620 kg	70	80	1285	1000
HT-VS1100	0.96 m <sup>2</sup>	2"/63mm	42 m <sup>3</sup> /h - 700lpm	800 kg	72	82	1380	1100
HT-VS1200	1.13 m <sup>2</sup>	2"/63mm	45 m <sup>3</sup> /h - 750lpm	900 kg	73	83	1500	1200

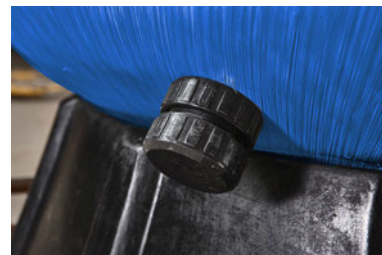
\*Maximum Operating Pressure: 36psi/2.5bar

\*Maximum Operating Water Temperature: ≤43°C/109°F

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.



Top Cover



Drain set



# Filtration Combo Series

Hidrotermal VC and PC Combo Series, it's an excellent choice for home user who is looking for user-friendly and easy set-up filtration system. Our combos includes top mount fiberglass tank (VC Series) or mold blown plastic tank (PC Series), 6-way multiport valve and our swimming pool pump Hidro- BPS Series attached with ABS plastic base.

## VC Series



## Features

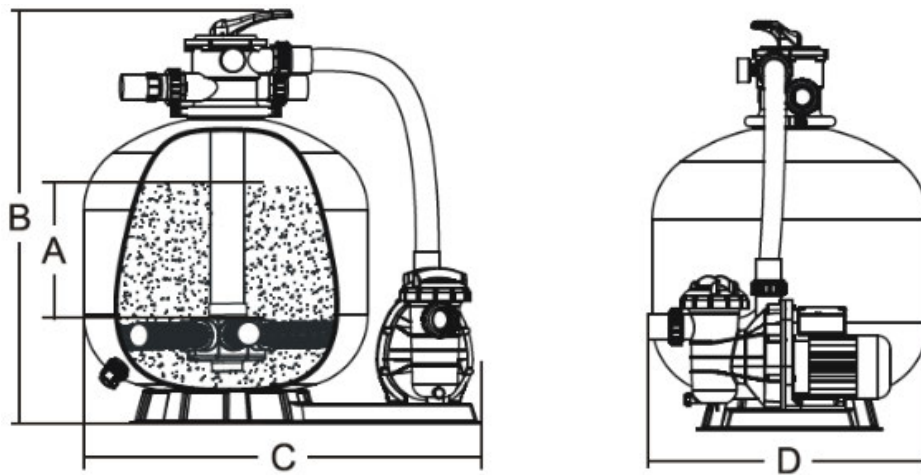
- » Durable Fiberglass Sand Filter.
- » Special drainage design, to easy draining of the tank, easy to maintain and ice-free in winter.
- » ABS Laterals.
- » Max operating pressure 36psi/2.5bar.
- » Max temperature of 43°C/109°F.
- » Metric o Imperial standard union sets provided.
- » Suggested size of media: 0.5-0.8mm.
- » BPS Series Swimming Pool Pump included.
- » 6-way multiport valve.

Model	Filter Model	Pump Model	Valve Connection	0.5-0.8mm Sand Weight	Flow Rate
HT-VC400-6W	HT-V400	Hidro-BPS050	1.5"/50mm	35Kg	133lpm - 8m <sup>3</sup> /h
HT-VC450-6W	HT-V450	Hidro-BPS050	1.5"/50mm	45Kg	167lpm - 10m <sup>3</sup> /h
HT-VC525-6W	HT-V525	Hidro-BPS075	1.5"/50mm	85Kg	200lpm - 12m <sup>3</sup> /h
HT-VC625-6W	HT-V625	Hidro-BPS100	1.5"/50mm	150Kg	267lpm - 16m <sup>3</sup> /h

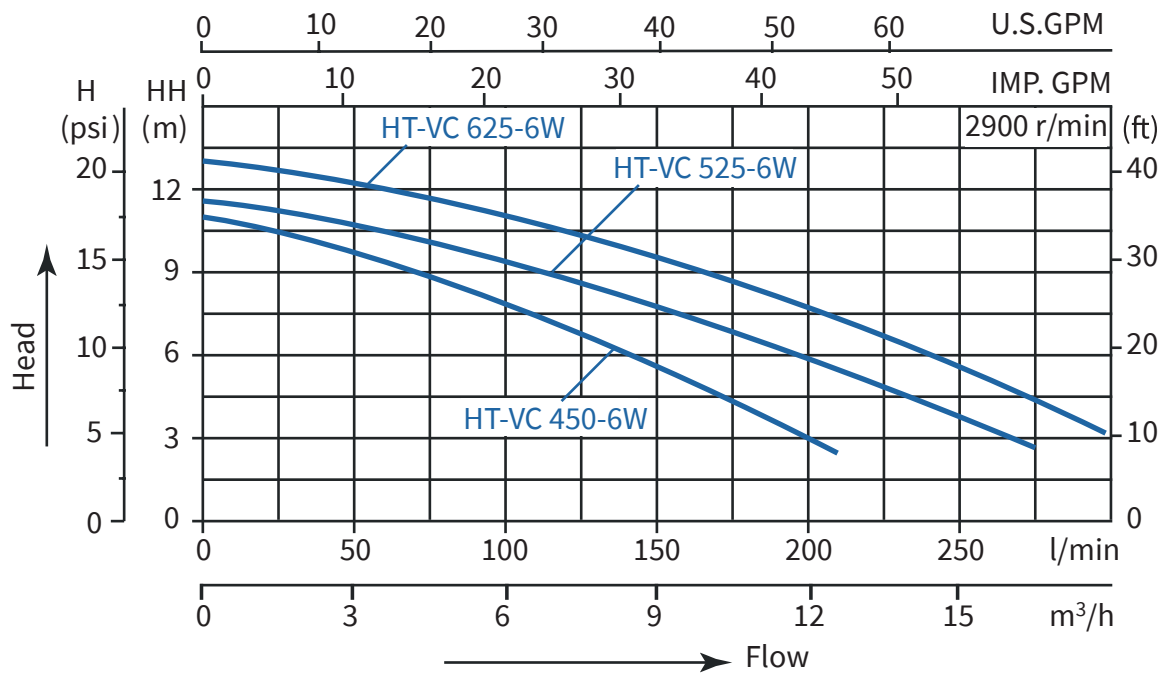
\*Maximum Operating Pressure: 36psi/2.5bar

\*Maximum Operating Water Temperature: ≤43°C/109°F

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.



Part / Model	HT-VC400-6W	HT-VC450-6W	HT-VC525-6W	HT-VC625-6W
A(mm)	175	210	235	300
B(mm)	760	815	880	1005
C(mm)	760	760	760	760
D(mm)	400	450	525	625



## PC Series



### Features

- » Durable Mold Blown Plastic Filter.
- » Special drainage design, to easy draining of the tank, easy to maintain and ice-free in winter.
- » ABS Laterals.
- » Max operating pressure 36psi/2.5bar.
- » Max temperature of  $\leq 50^{\circ}\text{C}/122^{\circ}\text{F}$ .
- » Metric o Imperial standard union sets provided.
- » Suggested size of media: 0.5-0.8mm.
- » BPS Series Swimming Pool Pump included.
- » 6-way multiport valve.

Model	Filter Model	Pump Model	Valve Connection	0.5-0.8mm Sand Weight	Filter Area	Design Flow
HT-PC350-6W	HT-PG350	Hidro-BPS050	1.5"/50mm	25Kg	0.10 m <sup>2</sup>	4.5 m <sup>3</sup> /h
HT-PC400-6W	HT-PG400	Hidro-BPS050	1.5"/50mm	34Kg	0.13 m <sup>2</sup>	6.5 m <sup>3</sup> /h
HT-PC450-6W	HT-PG450	Hidro-BPS050	1.5"/50mm	50Kg	0.16 m <sup>2</sup>	8 m <sup>3</sup> /h
HT-PC500-6W	HT-PG500	Hidro-BPS075	1.5"/50mm	80Kg	0.23 m <sup>2</sup>	11.5 m <sup>3</sup> /h
HT-PC650-6W	HT-PG650	Hidro-BPS100	1.5"/50mm	160Kg	0.32 m <sup>2</sup>	16 m <sup>3</sup> /h

\*Maximum Operating Pressure: 36psi/2.5bar

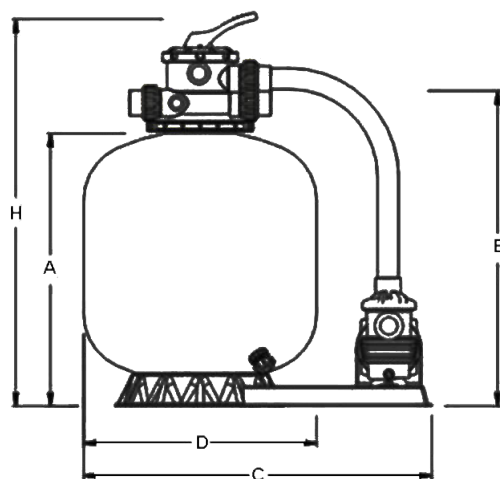
\*Maximum Operating Water Temperature:  $\leq 45^{\circ}\text{C}/113^{\circ}\text{F}$

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.

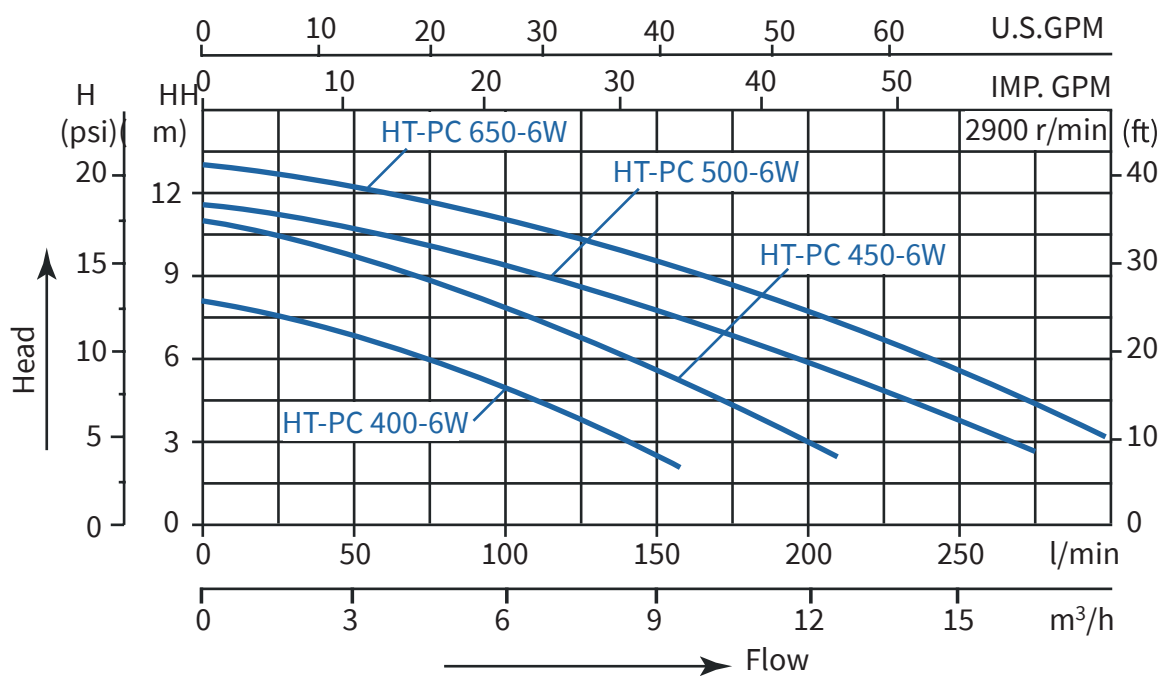
# FILTRATION COMBO

Filtration

# PC SERIES



Part / Model	HT-PC350-6W	HT-PC400-6W	HT-PC450-6W	HT-PC500-6W	HT-PC650-6W
A(mm)	495	515	575	615	715
B(mm)	545	565	625	665	765
C(mm)	570	570	770	770	770
D(mm)	350	410	450	535	635





## NL Series



Hidrotermal's NL Series is tailor-made for commercial & or large domestic setups. They can be used for any kind of Water project, aqua/perma-culture, including public Swimming Pools, Water Plants, Fountains and Spa's. All will benefit from Hidrotermal's Commercial Sand Filter Line.

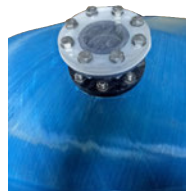
### Features

- » Made from Fiberglass, wound and reinforced with resin.
- » UV-Resistant & Anti-Corrosive allowing a long-life span in high PH, sunlight environment.
- » ABS laterals.
- » Equipped with oil manometer.

Improved access, open/close/operating with the improved Hidrotermal Screw Thread design. Built in Purge Cover meaning higher efficiency on air release from the system. Hidrotermal R&D has increased the distance between the top sand layer & the diffuser head "Freeboard" to ensure more effective water distribution during the filtration phase, this also avoids sand contamination during backwash. Hidrotermal have paid special attention to the drain, allowing a more convenient & efficient sand exchange process. Filtering can also be observed through the view port.



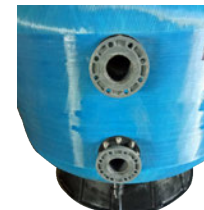
Manhole



Viewport Hole



Drain Set

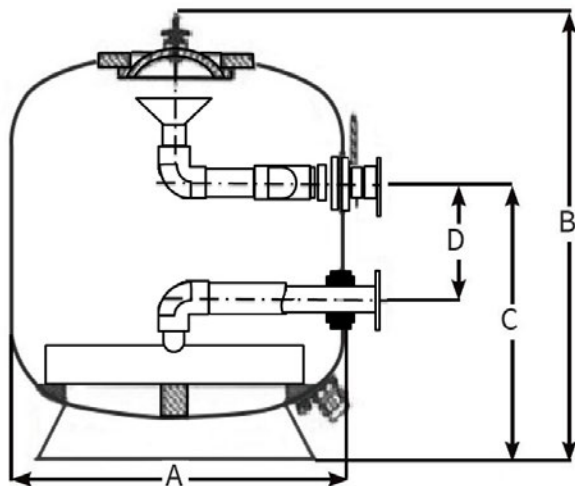


Inlet & Outlet Flange

# FIBERGLASS COMMERCIAL FILTER

Filtration

# NL SERIES



Model	Dimensions (mm)			
	A	B	C	D
HT-NL1200	1200	1420	900	360
HT-NL1400	1400	1620	1000	450
HT-NL1400	1400	1620	1000	450
HT-NL1600	1600	1870	1100	450
HT-NL1800	1800	1950	1300	600
HT-NL2000	2000	2420	1350	600
HT-NL1200C	1200	1420	900	360
HT-NL1400C	1400	1620	1100	450
HT-NL1400C	1400	1620	1100	450
HT-NL1600C	1600	1870	1100	450
HT-NL1800C	1800	1950	1300	600
HT-NL2000C	2000	2420	1350	600

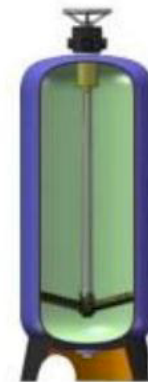
Model	Flange Size	Filter Area	0.5-0.8mm Sand Weight	1-2mm Gravel Weight	Flow Rate	Remark
HT-NL1200	3"/90mm	1.13m <sup>2</sup>	1560Kg	300Kg	51m <sup>3</sup> /h - 860lmp	With Oil gauge, without butterfly valve.
HT-NL1400	4"/110mm	1.54m <sup>2</sup>	1900Kg	450Kg	69m <sup>3</sup> /h - 1150lmp	
HT-NL1400	4"/110mm	1.54m <sup>2</sup>	1900Kg	450Kg	69m <sup>3</sup> /h - 1150lmp	
HT-NL1600	4"/110mm	2m <sup>2</sup>	2600Kg	700Kg	90m <sup>3</sup> /h - 1500lmp	
HT-NL1800	4"/110mm	2.7m <sup>2</sup>	3240Kg	900Kg	120m <sup>3</sup> /h - 2000lmp	
HT-NL2000	6"/160mm	3.14m <sup>2</sup>	4000Kg	1100Kg	141m <sup>3</sup> /h - 2350lmp	
HT-NL1200C	3"/90mm	1.13m <sup>2</sup>	1560Kg	300Kg	51m <sup>3</sup> /h - 860lmp	With Oil gauge, manhole & sight glass, without butterfly valve.
HT-NL1400C	4"/110mm	1.54m <sup>2</sup>	1900Kg	450Kg	69m <sup>3</sup> /h - 1150lmp	
HT-NL1400C	4"/110mm	1.54m <sup>2</sup>	1900Kg	450Kg	69m <sup>3</sup> /h - 1150lmp	
HT-NL1600C	4"/110mm	2m <sup>2</sup>	2600Kg	700Kg	90m <sup>3</sup> /h - 1500lmp	
HT-NL1800C	4"/110mm	2.7m <sup>2</sup>	3240Kg	900Kg	120m <sup>3</sup> /h - 2000lmp	
HT-NL2000C	6"/160mm	3.14m <sup>2</sup>	4000Kg	1100Kg	141m <sup>3</sup> /h - 2350lmp	

\*Maximum Operating Pressure: 36psi/2.5bar

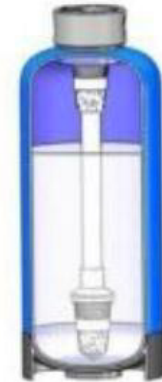
\*Maximum Operating Water Temperature: ≤43°C

**Note:** For reference only. Suggested sand weights vary with different filter media sizes.

## DB Series



Interior with laterals for the tank HT-DB21



Interior of the tanks HT-DB12 / HT-DB16

Hidrotermal's Deep Bed & Multimedia Filters are designed for filtering water used in water wells or any other water supply for domestic and commercial use. Undesired particles such as rust, sand, dirt & other impurities found in common water sources are trapped by the filter bed, offering crystal clear water & outstanding performance.

Our filters can be filled with various media such as sand, gravel, activated carbon or resin. They can also operate with combined media in the same tank offering superior filtration and desirable water qualities.

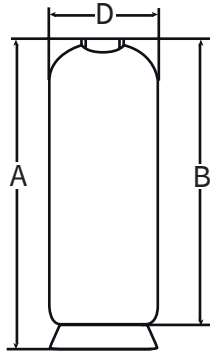
### Features

- » Max. operating pressure: 150psi/10 bar
- » Max. operating water temperature: 50°C (122°F)
- » Simple & easy to use operation
- » Automatic & Manual Valve options
- » Suggested media sizes: 0.5mm – 0.8mm
- » Easy set up, slim design

Model	Tank Size	Valve Connections	Filter Media (kg)			Volume	Top Opening	Flow Rate (m <sup>3</sup> /h)
			Sand	Carbon	Cation Resin			
HT-DB12	Φ12" x 48"	1" / 32mm	92	30	50	83L	2.5" thread	1.6~2.2
HT-DB13	Φ13" x 54"	1" / 32mm	110	37	63	99L	2.5" thread	2. ~2.5
HT-DB14	Φ14" x 65"	1" / 32mm	150	50	90	113L	2.5" thread	2.5~3
HT-DB16	Φ16" x 65"	1" / 32mm	200	65	116	179L	2.5" thread	3.2 ~4.5
HT-DB21	Φ21" x 62"	2" / 63mm	325	108	270	270L	4" thread	4.5 ~6

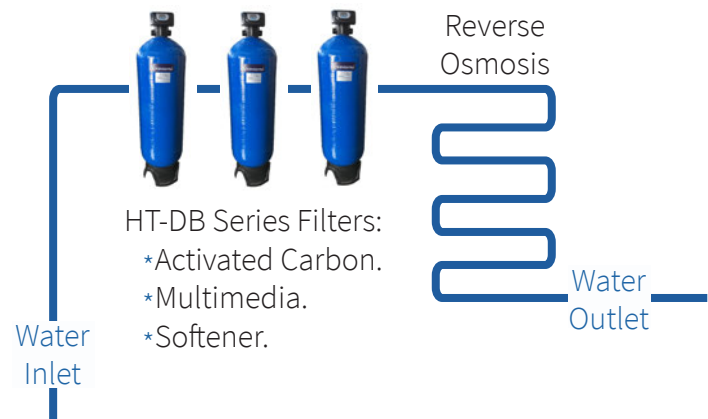
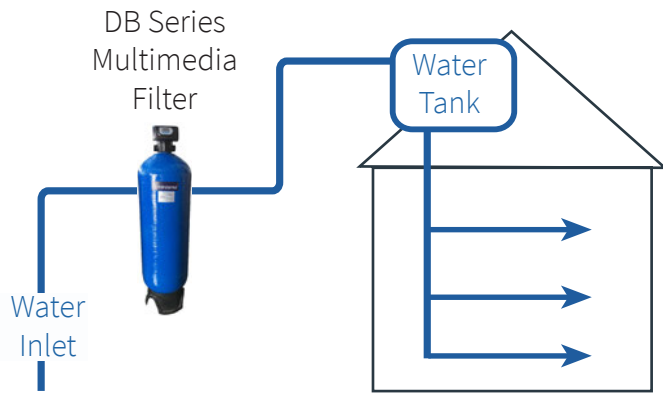
\*Maximum Operating Pressure: 150psi/10 bar

\*Maximum Operating Water Temperature: ≤50°C



Model	Dimensions (mm)		
	A	B	D
HT-DB12	1205	1005	300
HT-DB13	1390	1350	325
HT-DB14	1650	1625	350
HT-DB16	1650	1625	400
HT-DB21	1842	1500	525

## Suggested System Designs



## Manual Filter Valves



**HT-F56A**  
1" (32mm) Valve.



**HT-F56D**  
2" (63mm) Valve.

Model	Inlet/Outlet	Drain	Flow Rate	Base	Center Pipe	Suitable Tank
HT-F56A	1" F / 32mm	1" F / 32mm	4m <sup>3</sup> /h	2.5" - 8 NPSM	1.05" OD	6" - 12"
HT-F56D	2" F / 63mm	1.5" F / 50mm	10m <sup>3</sup> /h	4" - 8 UN	1.5" D-GB	10" - 24"



# AUTOMATIC FILTER VALVES

Filtration

## Automatic Filter Valves

Specially designed for our Multimedia Filters (DB Series). Automatic Valves will satisfy all your needs.

### Features

- » Input Voltage: AC100-240V/50Hz-60Hz.
- » Output Voltage: DC12V, 1.5A.
- » Input temperature: 5°C-50°C.
- » Input turbidity: <20FTU.

### Filtration Valves



**HT-F71B**

3/4" (25mm) Water treatment valve, 3/4" drain. Suitable for models HT-DB12 / HT-DB16. (from 6"-10" filter tank).



**HT-F75A**

2" (63mm) Water treatment valve, 2" drain. Only suitable for HT-DB21 (from 16" - 24" filter tank).

### Softener Valves



**HT-F63**

1" (32mm) Softener Valve, 3/8" salt intake, 1/2" drain. Suitable for models: HT-DB12 / HT-DB16 (from 6"-18" filter tank).



**HT-N74**

2" (63mm) Softener Valve, 1/2" salt intake, 1" drain. Only suitable for HT-DB21 (from 16" -30" filter tank).

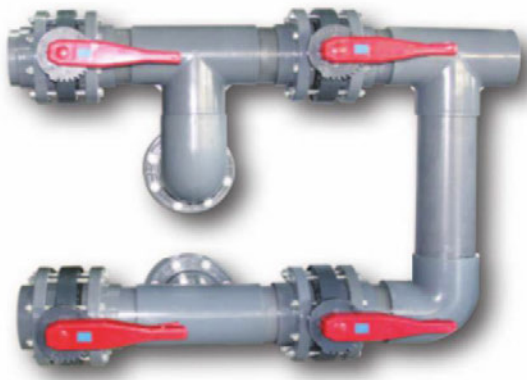
Model	Inlet/Outlet	Drain	Flow Rate	Base	Center Pipe	Suitable Tank
HT-F71B	3/4" F / 25mm	3/4" F / 25mm	2m <sup>3</sup> /h	2.5" - 8 NPSM	1.5" D-GB	6" - 10"
HT-F75A	2" F / 63mm	2" F / 63mm	10m <sup>3</sup> /h	4" - 8 UN	1.5" D-GB	16" - 24"
HT-F63	1" M / 32mm	1/2" M / 12,7mm	4m <sup>3</sup> /h	2.5" - 8 NPSM	1.5" D-GB	6" - 18"
HT-N74	2" M / 63mm	1" M / 63mm	10m <sup>3</sup> /h	4" - 8 UN	1.5" D-GB	16" - 30"

» All Hidrotermal Valves are Metric as standard. Imperial is available on request.

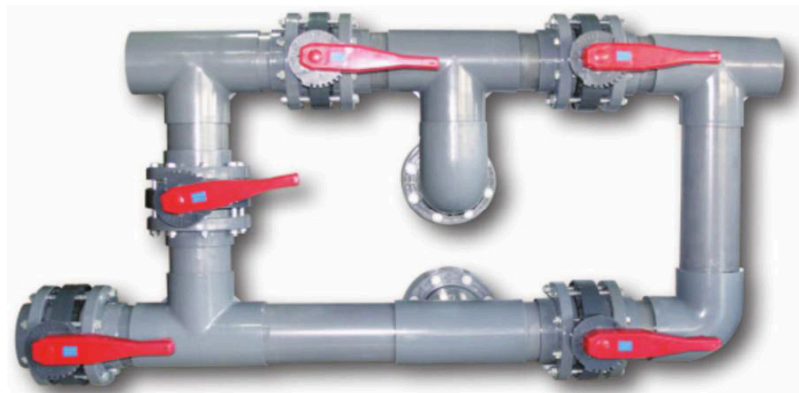
# BUTTERFLY VALVES

Filtration

## Butterfly Valves



4-way Butterfly Valve



5-way Butterfly Valve

### Features

- » Maximum Operating Pressure: 250kPa/36psi/2.5bar
- » Factory Testing Pressure: 400kPa/58psi/4.0bar
- » Maximum Operating Water Temperature: 43°C(109°F)

Model	Description
BVS30-5	5-way Butterfly Valve System with $\Phi 3$ " in/outlet
BVS40-5	5-way Butterfly Valve System with $\Phi 4$ " in/outlet
BVS60-5	5-way Butterfly Valve System with $\Phi 6$ " in/outlet
BVS80-5	5-way Butterfly Valve System with $\Phi 8$ " in/outlet
BVS30-4	4-way Butterfly Valve System with $\Phi 3$ " in/outlet
BVS40-4	4-way Butterfly Valve System with $\Phi 4$ " in/outlet
BVS60-4	4-way Butterfly Valve System with $\Phi 6$ " in/outlet
BVS80-4	4-way Butterfly Valve System with $\Phi 8$ " in/outlet