

Technical datasheet. Efficpool HI Filters

1. General description

Efficpool HI filters are specially designed for public pools and aquatic facilities with large volumes of water. Their regenerative filtration technology using perlite provides high filtration quality, water savings, and energy efficiency.

2. Models and capacities

Table of models and capacities

Model	CANDLES	Filtering area (m2)			Flow rate depending on speed (m3/h/m2)								
					HI (Lc 1000)			HI-L (Lc 1300)			HI-XL (Lc 1600)		
		HI	HI-L	HI-XL	V=1,3	V=3,3	V=4,8	V=1,3	V=3,3	V=4,8	V=1,3	V=3,3	V=4,8
HI-450	73	7,9	10,3	12,6	10,3	26,0	37,9	13,3	33,8	49,2	16,4	41,6	60,6
HI-600	139	15,0	19,5	24,0	19,5	49,6	72,1	25,4	64,4	93,7	31,2	79,3	115,3
HI-800	254	27,4	35,7	43,9	35,7	90,6	131,7	46,4	117,7	171,2	57,1	144,9	210,8
HI-1000	421	45,5	59,1	72,8	59,1	150,1	218,3	76,9	195,1	283,8	94,6	240,2	349,3
HI-1200	570	61,6	80,1	98,5	80,1	203,2	295,6	104,1	264,2	384,3	128,1	325,2	473,0
HI-1400	792	85,6	111,2	136,9	111,2	282,4	410,7	144,6	367,1	533,9	178,0	451,8	657,2
HI-1600	1044	112,8	146,6	180,5	146,6	372,2	541,4	190,6	483,9	703,8	234,6	595,6	866,3

Candles ref. 36.2

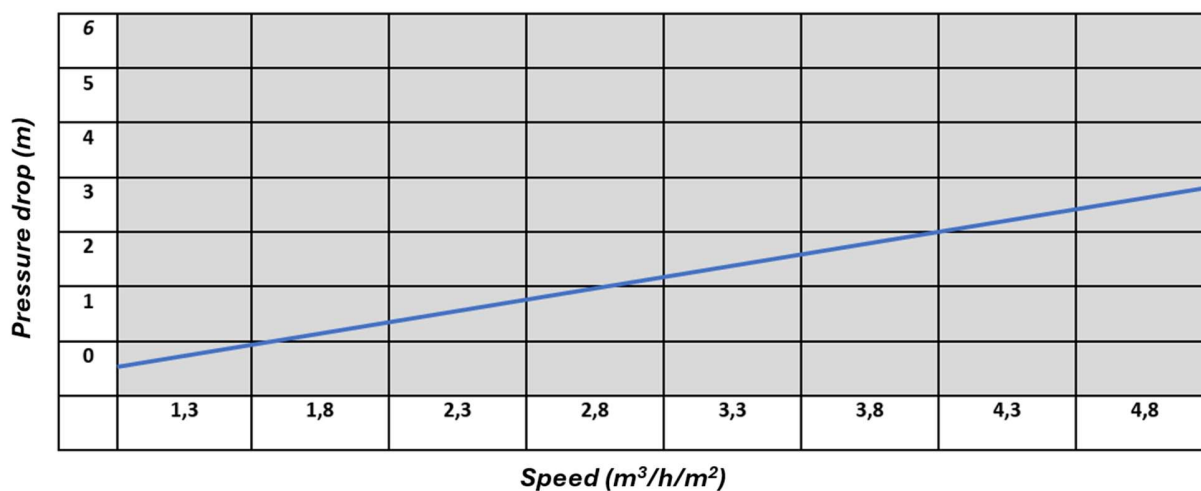
3. Technical Characteristics

Common features of all Efficpool HI models.

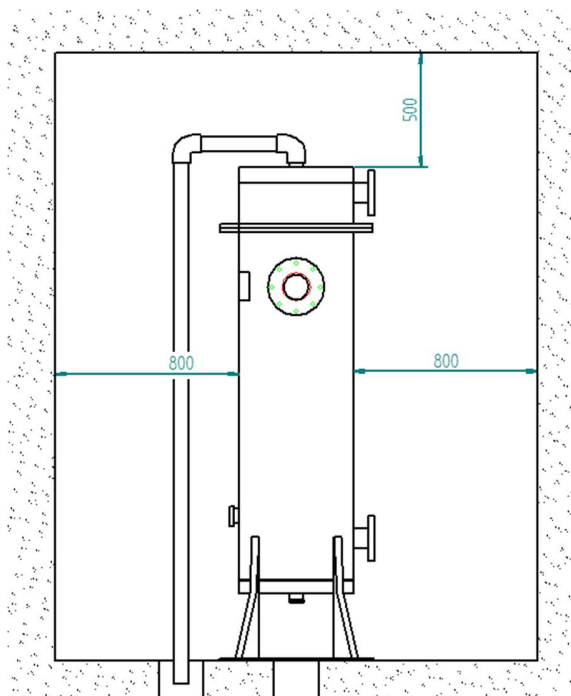
- Regenerative perlite filter, retains particles down to 1 micron.
- No backwashing required.
- Body, nozzles, and supports made of AISI-316L stainless steel.
- Removable collector plate with screws.
- Candles with threaded collectors, individually replaceable.
- Side access port Ø400 mm operable without screws from model HI800 for maintenance.
- Automatic regeneration by vibration (patented).
- Automatic collector cleaning by Vortex system (patented).
- Semi-automatic perlite loading by suction.
- Top cover with the same diameter as the filter (full access to the filter interior).
- Panel with inlet and outlet glycerin pressure gauges.
- Includes manual purge kit, automatic purge, and perlite vacuum.
- Bottom drain valve for complete emptying.
- Filtration rate from 1.3 to 4.8 m³/h/m².
- Operating temperature: 0 - 50 °C.
- Working (test) pressures: 3 (4.29) barg, optional 5 (7.15) barg.

- Three inspection windows/viewports (candles, collector plate, and vortex access) depending on model.
- Horizontal water inlet and outlet connections.
- Electrical supply: 400V III 50Hz.
- Maximum consumption: 1.5 kWh.
- Maximum daily consumption: 0.7 kWh/day.

Pressure drop curve – Efficpool HPE



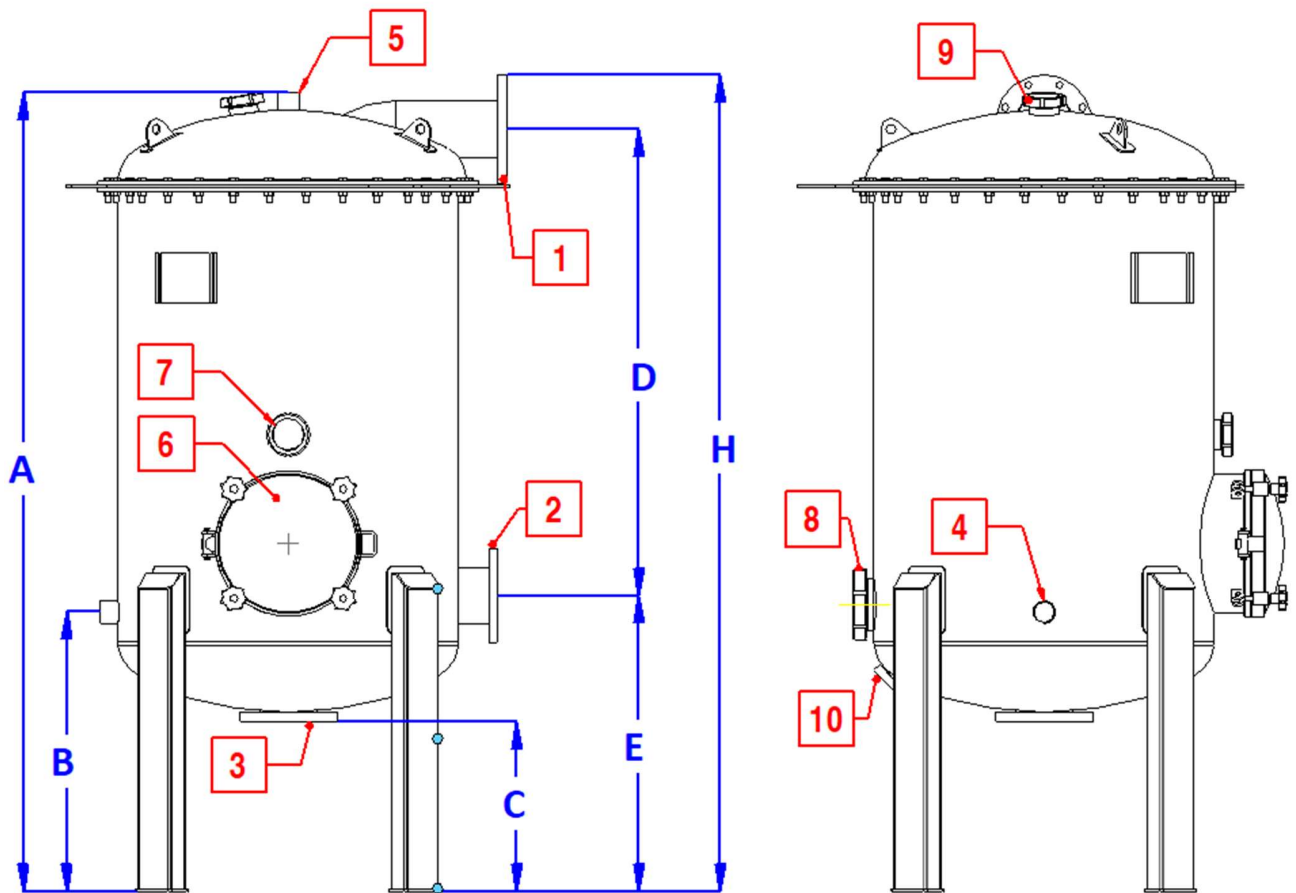
Recommended free space



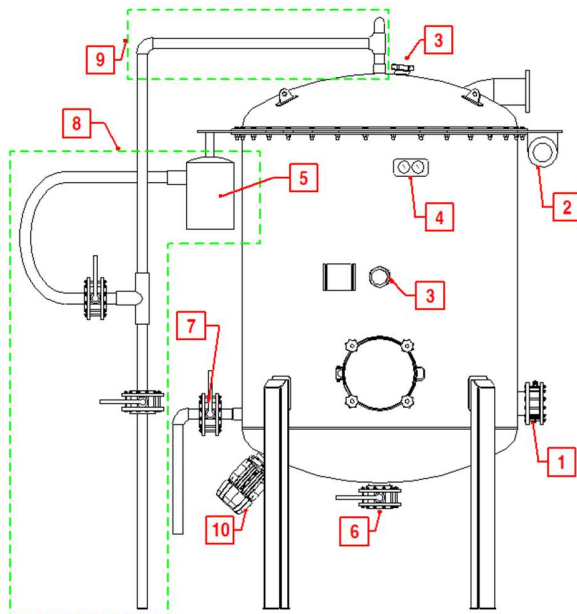
4. Connections and measurements (summary)

MODEL	Water outlet (flange)	Water inlet (flange)	Drain (flange)	Perlite inlet (flange)	Purge (threaded)	Manhole (Access)	Filter tubes sight glass (threaded)	Vórtex sight glass (threaded)	Collector plate sight glass (threaded)
	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6	POS 7	POS 8	POS 9
HI-450	DN90	DN90	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-450L	DN110	DN110	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-450XL	DN110	DN110	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-600	DN110	DN110	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-600L	DN160	DN160	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-600XL	DN160	DN160	DN80	2" RH	2" RH	D.150	DN80	DN150	DN80
HI-800	DN160	DN160	DN100	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-800L	DN160	DN160	DN100	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-800XL	DN200	DN200	DN100	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1000	DN200	DN200	DN150	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1000L	DN250	DN250	DN150	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1000XL	DN250	DN250	DN150	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1200	DN250	DN250	DN200	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1200L	DN250	DN250	DN200	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1200XL	DN315	DN315	DN200	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1400	DN315	DN315	DN250	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1400L	DN315	DN315	DN250	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1400XL	DN315	DN315	DN250	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1600	DN315	DN315	DN300	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1600L	DN315	DN315	DN300	2" RH	2" RH	D.400	DN80	DN150	DN80
HI-1600XL	DN400	DN400	DN300	2" RH	2" RH	D.400	DN80	DN150	DN80

MODEL	HI-450	HI-450 L	HI-450 XL	HI-600	HI-600 L	HI-600 XL	HI-800	HI-800 L	HI-800 XL	HI-1000	HI-1000 L	HI-1000 XL	HI-1200	HI-1200 L	HI-1200 XL	HI-1400	HI-1400 L	HI-1400 XL	HI-1600	HI-1600 L	HI-1600 XL
(A)mm	1820	2120	2420	1980	2280	2580	2200	2500	2800	2350	2650	2950	2540	2840	3140	2730	3030	3330	2860	3160	3460
(B)mm	560	560	560	680	680	680	730	730	730	820	820	820	950	950	950	1040	1040	1040	1130	1130	1130
(C)mm	350	350	350	400	400	400	450	450	450	500	500	500	600	600	600	650	650	650	700	700	700
(D)mm	1175	1475	1775	1205	1505	1805	1310	1610	1910	1370	1670	1970	1375	1675	1975	1415	1715	2015	1515	1815	2115
(E)mm	575	575	575	685	685	685	800	800	800	870	870	870	1025	1025	1025	1160	1160	1150	1260	1260	1260
(H)mm	1850	2150	2450	2000	2300	2600	2250	2550	2850	2400	2700	3000	2600	2900	3200	2800	3100	3400	3000	3300	3600



5. Composition of the EFFICPOOL HI systems



Posición	Component
1	Water inlet check valve
2	Electric vibrator
3	Viewing ports
4	Pressure gauge units
5	230 AC 1.2 kW vacuum cleaner
6	PVC water drain valve.
7	63 mm PVC valve kit and perlite feed hose
8	Vacuum collector assembly.
9	Purge collector assembly
10	Filter tuber cleaning vortex system

5. Packaging

MODEL	LENGTH mm	WIDTH mm	HEIGHT mm	Packaging wieght kg	CUSTOMS CODE
HI-450	1400	1400	2050	250	8421 21 90
HI-450L	-	-	-	-	8421 21 90
HI-450XL	-	-	-	-	8421 21 90
HI-600	1400	1400	2200	350	8421 21 90
HI-600L	-	-	-	-	8421 21 90
HI-600XL	-	-	-	-	8421 21 90
HI-800	1500	1500	2300	400	8421 21 90
HI-800L	2500	1500	1650	500	8421 21 90
HI-800XL	-	-	-	-	8421 21 90
HI-1000	1900	1700	2335	600	8421 21 90
HI-1000L	2850	1700	1715	850	8421 21 90
HI-1000XL	-	-	-	-	8421 21 90
HI-1400	2800	2000	2500	950	8421 21 90
HI-1400L	3200	2000	2000	900	8421 21 90
HI-1400XL	-	-	-	-	8421 21 90
HI-1600	3100	2300	2300	2500	8421 21 90
HI-1600L	3500	2300	2300	3450	8421 21 90
HI-1600XL	-	-	-	-	8421 00 90

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Note: The information provided in this technical datasheet is for reference only, corresponds to the current product specifications, and may change without notice. The manufacturer is not responsible for misuse or errors. Please consult the updated datasheet before use.