

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 (m ²)			Flow rate depending on speed (m ³ /h/m ²)								
					HPE (Lc 1000)			HPE -L (Lc 1300)			HPE -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	26,0	37,9	-	-	-	-	-	-
HI-600	139	15,0	19,5	-	19,5	49,6	72,1	25,4	64,4	93,7	-	-	-
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

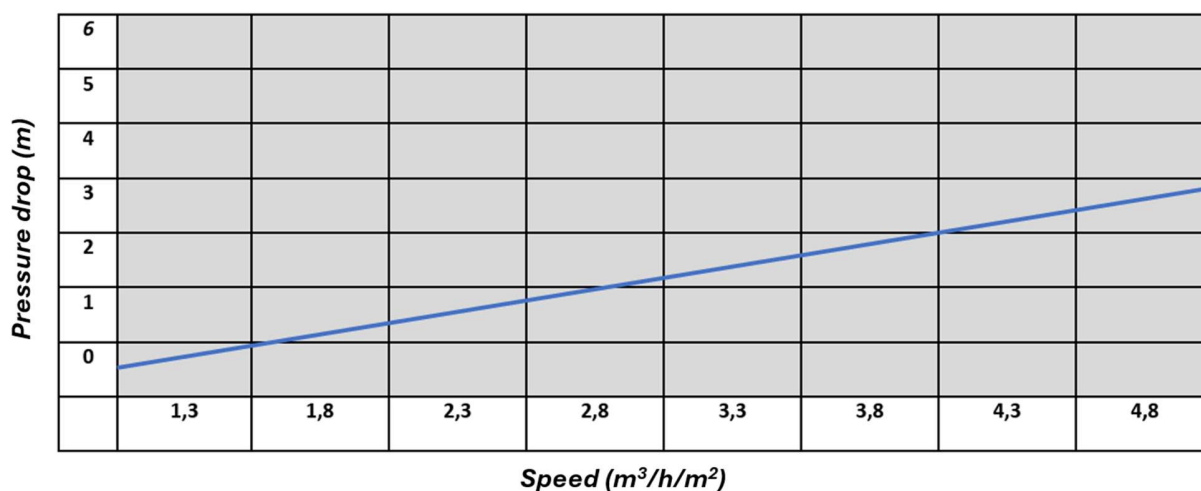
3. Technical Characteristics

Common features of all Efficpool HI models.

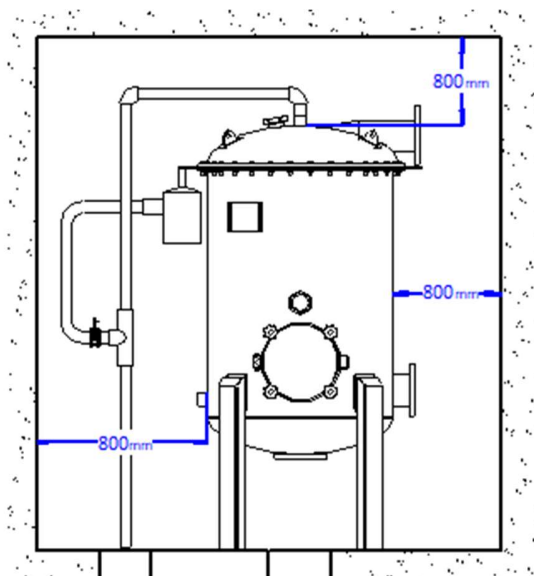
- Regenerative perlite filter, retains particles down to 1 micron.
- No backwashing required.
- Body, nozzles, and supports made of AISI-316L stainless steel.
- Removable collector plate with screws.
- Candles with threaded collectors, individually replaceable.
- Side access port Ø500 mm operable without 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 and perlite vacuum.
- Bottom drain valve for complete emptying.
- Filtration speed rate from 1.3 to 4.8 m³/h/m².

- Operating temperature: 1 - 50 °C.
- Working (test) pressures: until 3 (4.29) barg, optional until 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 HI



Recommended free space

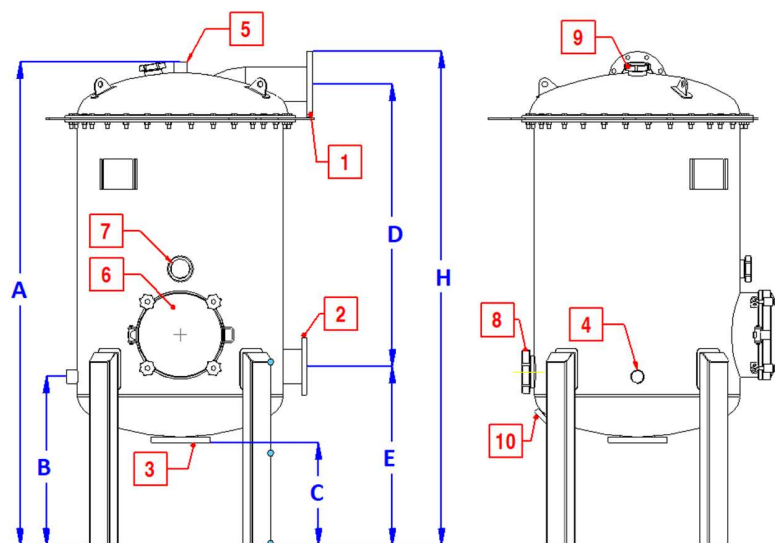


4. Connections and measurements

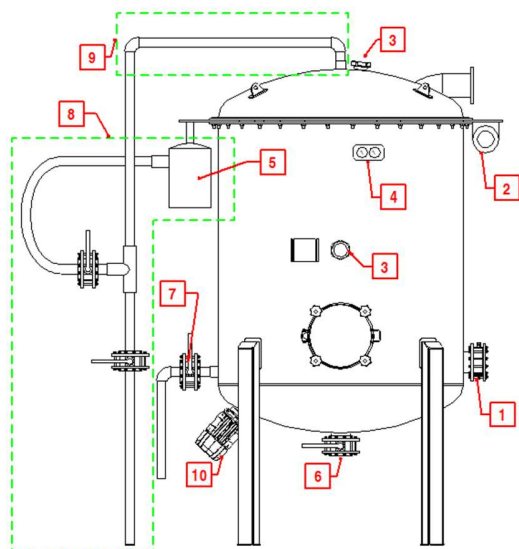
MODEL	Water outlet (flange)	Water inlet (flange)	Drain (flange)	Perlite inlet (flange)	Purge (threaded)	Manhole (Access)	Filter tubes sight glass (threaded Ø)	Vortex sight glass (threaded Ø)	Collector plate sight glass (threaded Ø)
	POS 1	POS 2	POS 3	POS 4	POS 5	POS 6	POS 7	POS 8	POS 9
HI-450	90	90	80	2" RH	2" RH	-	80	150	80
HI-600	110	110	80	2" RH	2" RH	-	80	150	80
HI-600L	125	125	80	2" RH	2" RH	-	80	150	80
HI-800	160	160	100	2" RH	2" RH	D.500	80	150	80
HI-800L	160	160	100	2" RH	2" RH	D.500	80	150	80
HI-800XL	200	200	100	2" RH	2" RH	D.500	80	150	80
HI-1000	200	200	150	2" RH	2" RH	D.500	80	150	80
HI-1000L	250	250	150	2" RH	2" RH	D.500	80	150	80
HI-1000XL	250	250	150	2" RH	2" RH	D.500	80	150	80
HI-1200	250	250	200	2" RH	2" RH	D.500	80	150	80
HI-1200L	250	250	200	2" RH	2" RH	D.500	80	150	80
HI-1200XL	315	315	200	2" RH	2" RH	D.500	80	150	80
HI-1400	315	315	250	2" RH	2" RH	D.500	80	150	80
HI-1400L	315	315	250	2" RH	2" RH	D.500	80	150	80
HI-1400XL	315	315	250	2" RH	2" RH	D.500	80	150	80
HI-1600	315	315	300	2" RH	2" RH	D.500	80	150	80
HI-1600L	315	315	300	2" RH	2" RH	D.500	80	150	80
HI-1600XL	400	400	300	2" RH	2" RH	D.500	80	150	80

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

Approximate dimensions. Due to the kloppers manufacturing tolerances, a drawing of the equipment is always sent for the customer's approval.



5. Composition of the EFFICPOOL HI systems



Pos.	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

For information requests, additional documentation, prescription calculations or drawings, please contact:

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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.