

Technical Datasheet - Efficpool HPE filters

1. General description

Efficpool filters are engineered for commercial and public swimming pools. They use regenerative perlite-based filtration technology that delivers exceptionally high filtration quality, reduced water consumption, and improved energy efficiency. They are compatible with saltwater chlorination systems and seawater applications.

2. Models and capacities

Models and capacities table

Model	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)		
	HPE	HPE-L	HPE-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
HPE-315	3,3	4,4	5,4	4,4	11,1	16,1	5,7	14,4	20,9	7,0	17,7	25,7
HPE-400	5,2	6,7	8,3	6,7	17,1	24,9	8,8	22,2	32,4	10,8	27,4	39,8
HPE-500	8,2	10,7	13,1	10,7	27,1	39,4	13,9	35,2	51,2	17,1	43,4	63,1
HPE-630	13,6	17,7	21,8	17,7	44,9	65,3	23,0	58,4	84,9	28,3	71,9	104,5
HPE-800	22,8	29,6	36,5	29,6	75,2	109,4	38,5	97,8	142,2	47,4	120,4	175,1
Candles ref. 36.2												



3. Technical characteristics

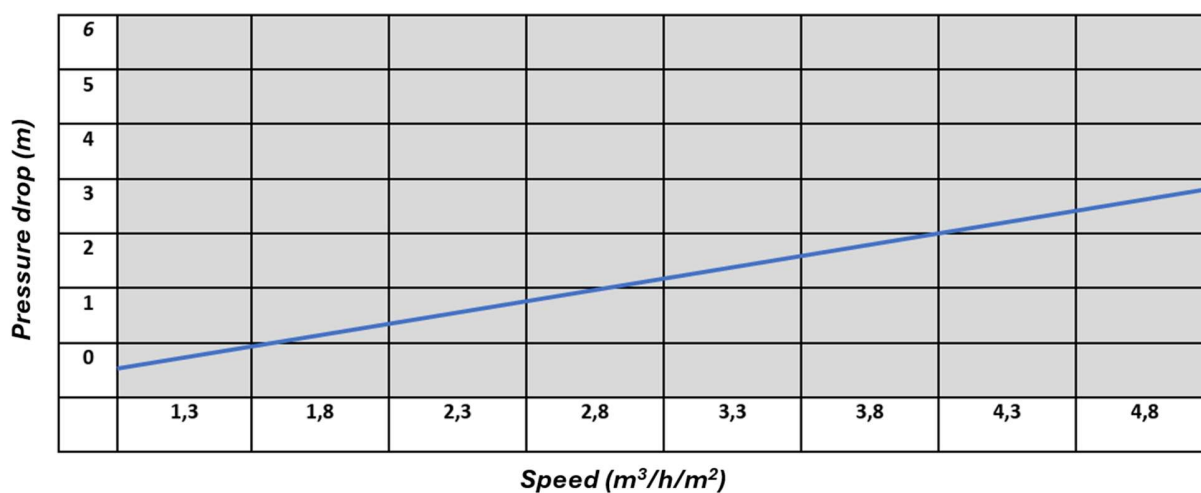
Common characteristics of all HPE models:

- Regenerative filtration with perlite (up to 1 micron).
- No backwashing required.
- Filter fully manufactured in polyethylene (PE).
- Full-diameter top cover for easy access.
- Patented vibration regeneration system.
- Maximum working pressure: 2.5 bar.
- Working temperature: 1-40 °C.
- Filtration rate: 1.3 to 4.8 m³/h/m².
- Power supply: 240V II 50Hz / 400V III 50Hz.
- Candles with threaded collectors for easy replacement.
- Removable candle sight glass.
- Filter media clogging control by inlet and outlet manometers.
- Man hole. Ø400 for HPE-800 & 630. Ø315 for HPE-500.

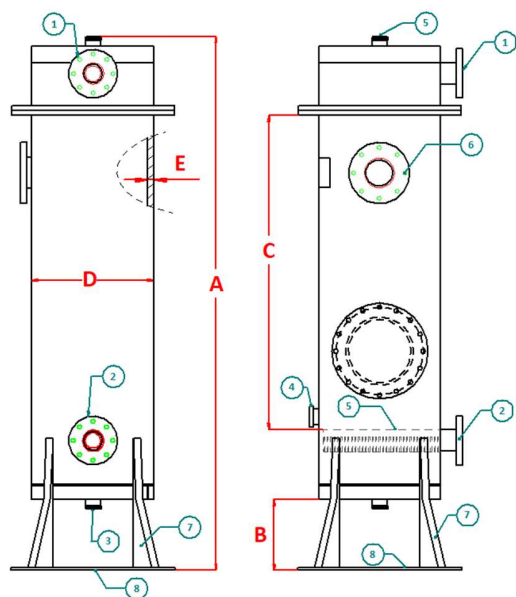


- Perlite loading via vacuum system.
- Maximum consumption during perlite change: 1.5 kWh.
- Minimum consumption during regeneration: 0.2 kWh.

Pressure drop curve – Efficpool HPE



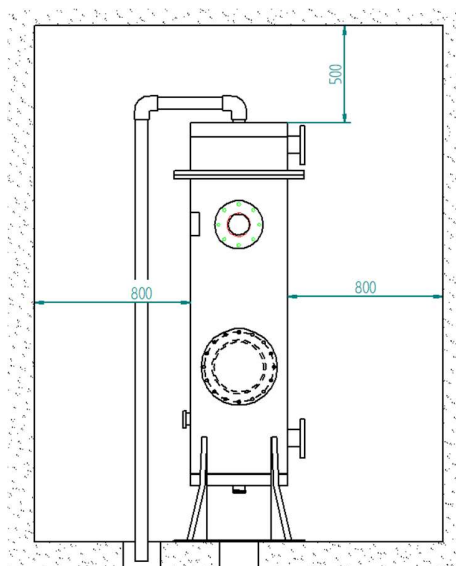
4. Connection & dimensions table.



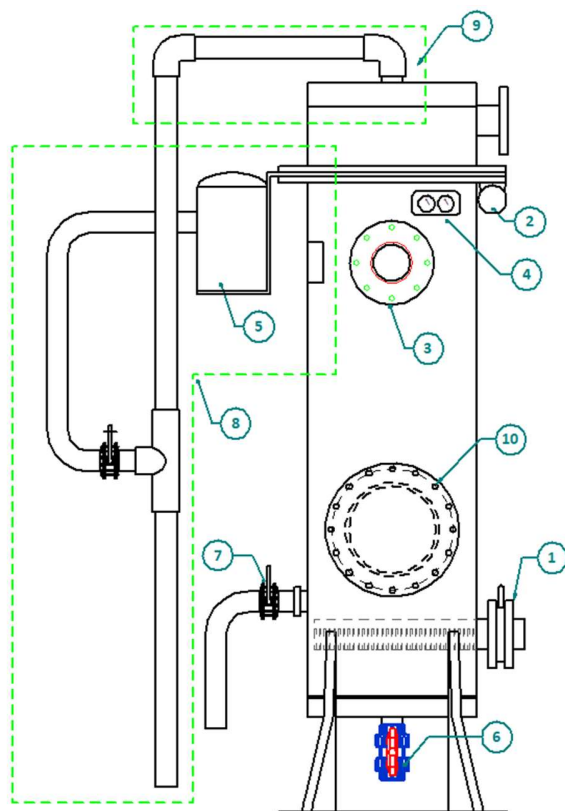
MODEL	(A)mm.	(B)mm.	(C)mm.	(D) ext. mm.	(E) mm.	Øint
HPE-315	1870	200	1000	315	12,12	290,76
HPE-315L			1300			
HPE-315XL			1600			
HPE-400	1873	290	1000	400	15,3	369,4
HPE-400L	2173		1300			
HPE-400XL	2473		1600			
HPE-500	1888	290	1000	500	19,1	461,8
HPE-500L	2188		1300			
HPE-500XL	2488		1600			
HPE-630	2141	300	1000	630	24,1	581,8
HPE-630L	2441		1300			
HPE-630XL	2741		1600			
HPE-800	2190	400	1000	800	30,6	738,8
HPE-800L	2490		1300			
HPE-800XL	2790		1600			

POS.	DESCRIP.	HPE-315/L/XL	HPE-400/L/XL	HPE-500/L	HPE-500XL	HPE-630/L/XL	HPE-800/800L	HPE-800XL
1	Filtered water outlet	63	75	90	110	110	125	160
2	Unfiltered water inlet	63	75	90	110	110	125	160
3	Drain	2"RH	2"RH	2"RH	2"RH	90	90	90
4	Perlite feed	2"RH	2"RH	2"RH	2"RH	2"RH	2"RH	2"RH
5	Slotted pipe	63	75	90	110	110	125	160
6	Sight glass candles	125	125	125	125	125	2 x 125	2 x 125
7	Man hole	-	-	D.315	D.315	D.400	D.400	D.400

Recommended free space



5. Composition of the EFFICPOOL HPE system



Position	Component
1	Inlet check valve (water entry)
2	Electric vibrator
3	Sight glass
4	Pressure gauge assembly
5	Perlite vacuum system (not on HPE-200/250)
6	Water drain valve
7	Perlite inlet (via skimmer and/or prefilter on HPE-200/250L; vacuum system on others)
8	Suction header assembly
9	Inlet check valve (water entry)
10	Man hole

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

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Note: The information provided in this datasheet is referential, corresponds to the current product characteristics, and may change without notice. The manufacturer is not responsible for improper use or errors. Please check the updated datasheet before use