

Technical Datasheet - Efficpool HPE filters

1. General description

Efficpool filters are designed for residential pools (HPE-200 and HPE-250) and collective/public pools (other models). Regenerative filtration technology with perlite provides high filtration quality, water savings, and energy efficiency.

Models are manufactured with materials resistant to seawater and are compatible with salt chlorination systems.

2. Models and capacities

Models and capacities table

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)		
		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-200	14	1,5	1,8	2,2	2	5,1	7,4	2,4	6	8,7	2,9	7,4	10,8
HPE-250	19	2,1	2,5	3	2,7	6,9	10	3,2	8,2	11,9	4	10	14,6
HPE-350	48	5,3	6,2	7,7	6,9	17,4	25,3	8,1	20,6	30	10	25,3	36,9
HPE-450	76	8,4	9,9	12,2	10,9	27,6	40,1	12,8	32,6	47,4	15,8	40,1	58,4
HPE-550	126	13,9	16,4	20,2	18	45,7	66,5	21,3	54,1	78,6	26,2	66,5	96,8
HPE-700	211	23,2	27,4	33,8	30,2	76,6	111,4	35,7	90,5	131,7	43,9	111,4	162
HPE-900	336	37	43,7	53,8	48	122	177,4	56,8	144,1	209,7	69,9	177,4	258

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.
- Candles with threaded collectors for easy replacement.
- Two removable candle sight glasses for HPE-700 models, 1 for smaller diameters.
- Filter media clogging control by inlet and outlet manometers.

Specific features for HPE-200 / HPE-250 vs. Others models

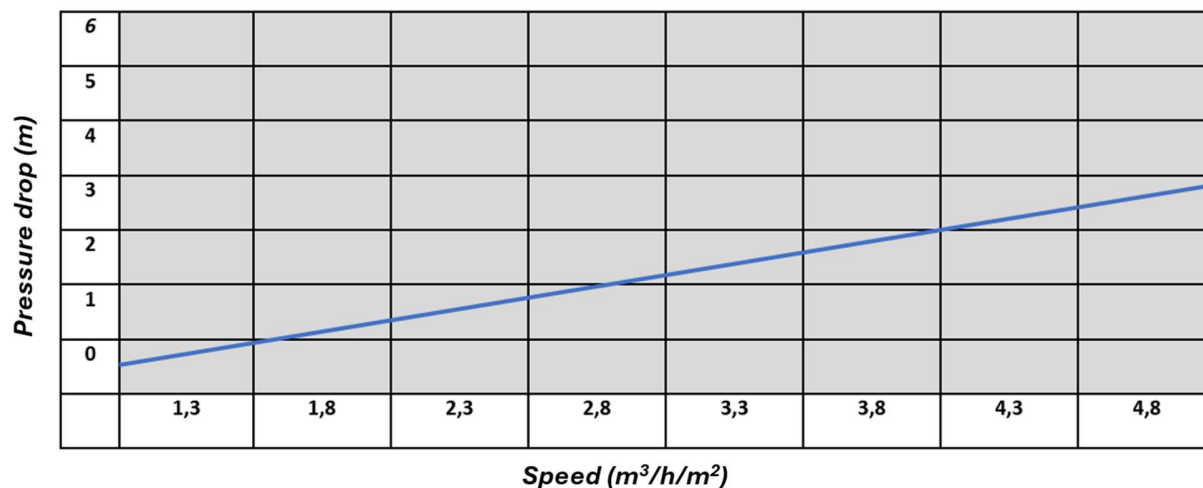
HPE-200 / HPE-250:

- Perlite loading via pump pre-filter or skimmer.
- Maximum consumption 0.2 kWh.

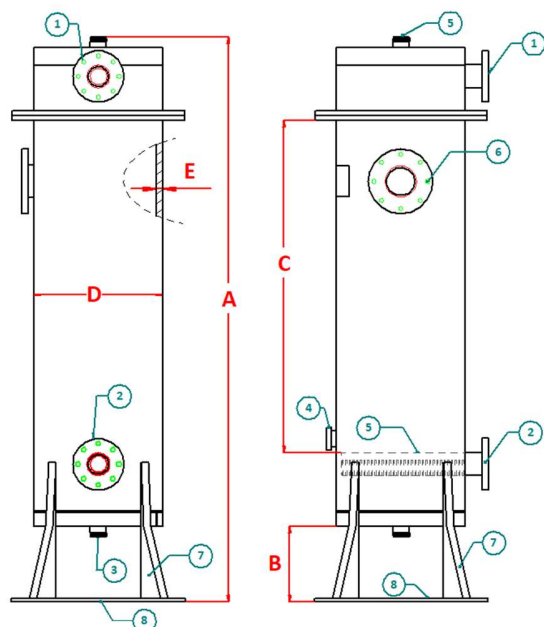
Other HPE models:

- Perlite loading via vacuum system.
- Maximum consumption during perlite change: 1.6 kWh.
- Minimum consumption during regeneration: 0.2 kWh.

Pressure drop curve – Efficpool HPE



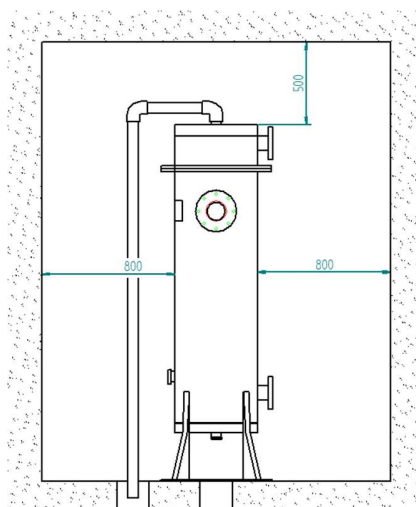
4. Connection & dimensions table.



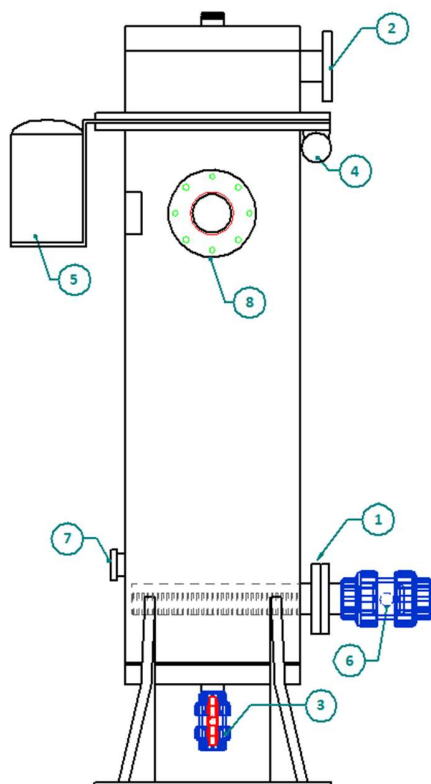
MODEL	(A)mm.	(B)mm.	(C)mm.	(D) ext. mm.	(E) mm.	Øint
HPE-200	1870	200	1300	225	8,6	207,8
HPE-250				280	10,7	258,6
HPE-350	1873	290	1000	400	15,3	369,4
HPE-350L	2173		1300			
HPE-350XL	2473		1600			
HPE-450	1888		1000	500	19,1	461,8
HPE-450L	2188		1300			
HPE-450XL	2488		1600			
HPE-550	2141		1000			
HPE-550L	2441		1300			
HPE-550XL	2741	1600				
HPE-700	2190	400	1000	800	30,6	738,8
HPE-700L	2490		1300			
HPE-700XL	2790		1600			
HPE-900	2190	500	1000	1000	38.2	923.6
HPE-900L	2490		1300			
HPE-900XL	2790		1600			

POS.	DESCRIP.	HPE-200	HPE-250	HPE-350/L/XL	HPE-450/L/XL	HPE-550/L/XL	HPE-700L/XL	HPE-900/L/XL
1	Filtered water outlet	2"RH	2"RH	75	90	110	125	160
2	Unfiltered water inlet	2"RH	2"RH	75	90	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
5	Slotted pipe	75	75	75	90	110	125	160
6	Sight glass candles	-	-	125	125	125	125	125
7	Legs	-	-	-	-	-	-	-
8	Base	-	-	-	-	-	-	-

Recommended free space



5. Composition of the EFFICPOOL HPE system



Position	Component
1	Threaded inlet connection for unfiltered water
2	Threaded outlet connection for filtered water
3	Threaded drain outlet with valve
4	Electric vibrator
5	Perlite Vacuum (not for HPE-200/250 models)
6	Water inlet check valve
7	Perlite inlet (via skimmer and/or pre-filter for HPE-200/250; vacuum system for others)
8	Sight glasses (1 for models smaller than HPE-700, 2 for HPE-700 and above)

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.