

CANDLE Polishing Filter

Steri CANDLE filters are a comprehensive enclosed system designed to effectively remove solids as small as 0.2 microns. These advanced back-pulse filters are particularly suitable for refining liquids to meet strict standards and demanding specifications.

The vertical orientation of the vessel and filter elements allows for greater filtration surface area relative to footprint. Steri's designs, manufacturing and process engineers are located in the USA.

ADVANCED FILTRATION FOR HIGH-GRADE LIQUID CLARITY

The CANDLE is particularly suitable for refining liquids to meet strict standards and demanding specifications. With filter elements that can be constructed from a variety of materials, the CANDLE makes it simple to filter effectively.

LOWER COSTS THROUGH SIMPLIFIED DESIGN

The CANDLE reduces complexity, cuts energy consumption and maintenance expenses, while maximizing surface area utilization ensuring the lowest cost per unit of filtration space.

NO MOVING PARTS

Operating without any moving components, the CANDLE uses only static seals to maximize efficiency, minimize maintenance costs, and support a wide range of applications.

AUTOMATIC OPERATION WITH BACK-PULSE FILTRATION

The CANDLE enables high-pressure filtration, guaranteeing adherence of the filter cake to the cloth. Solids within the slurry are efficiently separated through the traditional outside-in filtration process. Discharging of the collected solids is accomplished using the back-pulse technique, using either gas or a compatible liquid.

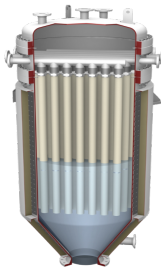
ENGINEERED, MANUFACTURED, AND DESIGNED IN THE USA

Steri produces all of our products in the United States, with dedicated design and process engineers ready to assist with your project specific requirements.

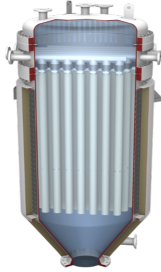


*CANDLE Filter made for pharmaceutical application

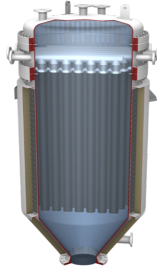
STEP-BY-STEP FOR QUALITY PERFORMANCE



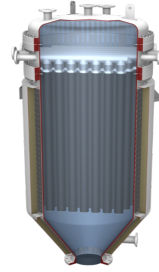
1 Filling
Slurry enters bottom of CANDLE; upward flow suspends solids for even filter element coating.



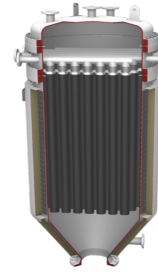
2 Pre-Coating
Suspension circulates, forming a porous pre-coat layer on the filter elements.



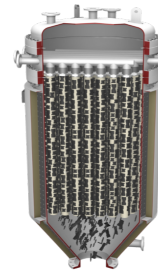
3 Filtration
Filter cake builds on outside of CANDLE; clear filtrate exits through header, discharging the filtrate from interior of the filter.



4 Cake Washing
Wash liquid follows same path as filtration, cake washed or reslurried in stages



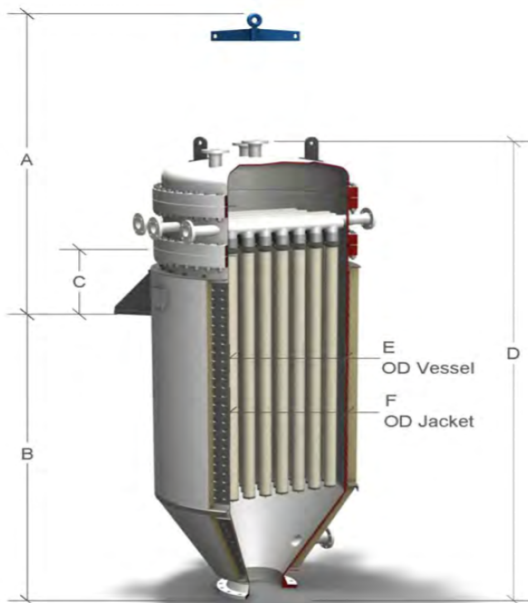
5 Cake Drying
Cake heated and dried in vessel using hot gases like steam, air, or nitrogen.



6 Cake Discharge
Gas is purged backwards through the CANDLE filter, pushing the dry cake off the filter surface. This gentle gas expansion allows for smooth and effective cake removal.

CAPACITIES

Your CANDLE filter is custom-configured to your specifications from standard components that have been proven effective many times over. It's the surest way to bring a new system on-line quickly and without problems. With a complete range of off-the-shelf options plus engineering applications know how, the CANDLE by Steri can meet your special needs.



Size	# of CANDLES	CANDLE Length	CANDLE Area	CANDLE OD	A	B	C	D	E	F
m ²	Qty	mm	m ²	mm	mm	mm	mm	mm	mm	mm
1.0	3	1200	0.34	90	1800	1300	250	1900	420	460
2.5	7	1200	0.34	90	1800	1700	250	2300	510	550
6.5	19	1200	0.34	90	1950	2050	300	2800	800	850
3.5	7	1800	0.51	90	2400	2000	250	2600	510	550
10.0	19	1800	0.51	90	2550	2350	300	3100	800	850
19.0	37	1800	0.51	90	2800	2800	400	3800	1100	1150
25.0	49	1800	0.51	90	3300	2500	600	4000	1300	1350
31.0	61	1800	0.51	90	3300	2700	600	4200	1500	1550
29.0	49	2100	0.60	90	3600	2800	600	4300	1300	1350
36.0	61	2100	0.60	90	3600	3000	600	4500	1500	1550
46.0	77	2100	0.60	90	3600	3100	600	4600	1600	1650
54.0	91	2100	0.60	90	3700	3200	700	4800	1800	1850
66.5	112	2100	0.60	90	3700	3400	700	5000	2000	2050

* Larger size units can be designed, contact factory.

** Vessel height can be extended to increase batch volume.

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