

PERIVAC DEAERATOR



- **HIGH PRODUCTION**
- **LOW POWER CONSUMPTION**
- **RELIABLE OPERATION**

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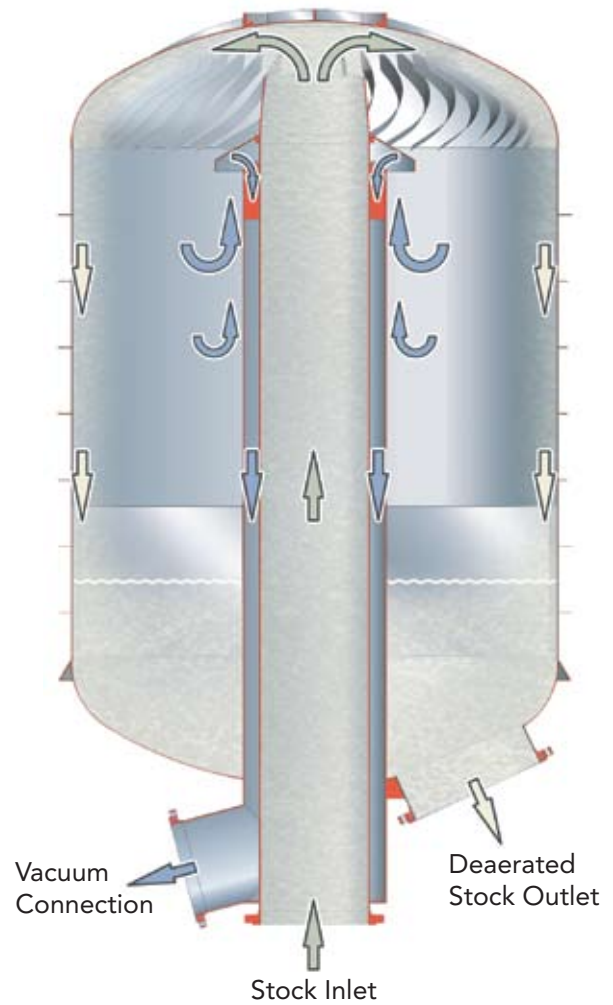
PERIVAC

The PERIVAC deaerator is designed for most efficient removal of both free and dissolved air as well as other gases from paper stock suspensions.

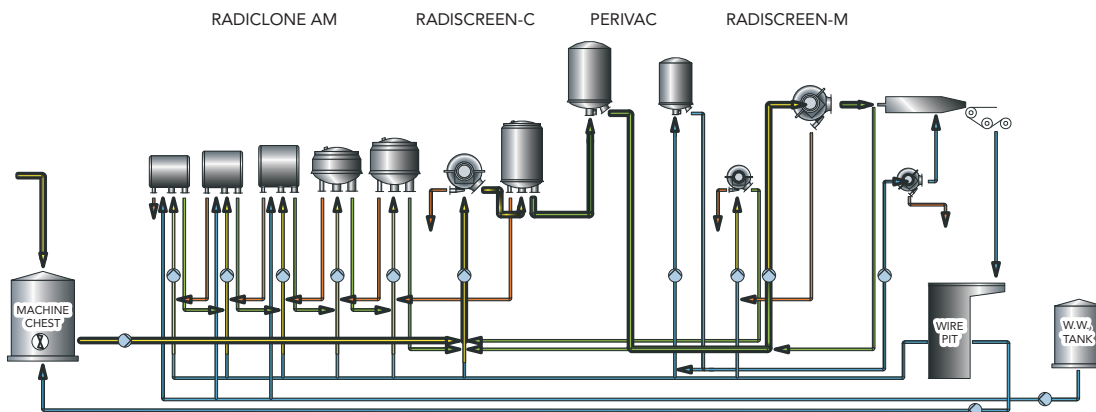
High air contents in pulp suspensions create a number of problems in paper manufacturing, such as increased foaming, pinholes, web breaks caused by sticky material as well as reduced drainage on the wire. High air content also affects the paper quality negatively as in regard to printability and formation.

A deaerated stock flow is required for modern, high-speed paper machines in order to achieve stable and constant pressure conditions for the fan pump and headbox.

SIZE	Capacity		Stock Inlet		Vacuum Connection		Deaerated Stock Outlet	
	l/min	USGPM	mm	in	mm	in	mm	in
1000B	10,000	2,640	250	10	150	6	300	12
1250B	16,000	4,230	300	12	150	6	350	14
1600B	25,000	6,600	350	14	200	8	500	20
2000B	40,000	10,570	500	20	250	10	600	24
2500B	63,000	16,640	600	24	300	12	700	28
2800B	80,000	21,130	700	28	350	14	800	32
3150B	100,000	26,420	700	28	400	16	900	36
3550B	125,000	33,020	800	32	400	16	1000	40
4000B	160,000	42,270	900	36	500	20	1200	48
4500B	200,000	52,840	1000	40	600	24	1400	56



PERIVAC System



The stock to be deaerated enters the PERIVAC through the central pipe and is sprayed through a nozzle against the inside of the top dome. A thin stock film is formed and given a rotational movement by guiding vanes upon encountering the upper section's vertical wall. The highly turbulent stock film flows down the wall of the deaerating compartment. The turbulence and large active surface area in the deaerating zone ensures complete deaeration of the stock.

The vacuum system evacuates the deaerating compartment. Complete deaeration is accomplished by carrying the evacuation so far that the stock boils at the prevailing stock temperature.

When the stock film - now completely deaerated - reaches the pond level, the rotational movement is interrupted and the deaerated stock flows at low velocity down to the outlet.