

Feed capacity per cleaner

Pressure drop	Feed capacity at 0.7% conc.		Min.accept pressure*
	CLEANPAC 700	CLEANPAC 700 LD	
120	555	563	35
150	620	630	40
175	670	680	50

* LD versions require a minimum accept pressure of 80 kPa (12 psi).

Feed capacity per satellite

Satellite type	Maximum feed capacity, standard type cleaners at 0.7% conc.					
	l/min			USgpm		
	Pressure drop, kPa			Pressure drop, psi		
	120	150	175	17	21	25
2 units	1110	1240	1340	294	326	356
4 units	2220	2480	2680	588	652	712
8 units	4440	4960	5360	1176	1304	1424

Feed capacity per bank unit

Number of satellites	Maximum feed capacity with standard type cleaners at 0.7% conc., 8 unit satellites						Bank types available	
	l/min			USgpm				
	Pressure drop, kPa			Pressure drop, psi			Horizontal	Vertical
	120	150	175	17	21	25		
2	8880	9920	10720	2352	2608	2848		●
3	13320	14880	16140	3528	3912	4272		●
4	17760	19840	21504	4704	5216	5696	●	●
5	22200	24800	26920	5880	6520	7120		●
6	26640	29760	32352	7056	7824	8544	●	●
7	31080	34720	37800	8232	9128	9968		
8	35520	39680	43264	9408	10432	11392	●	
9	39960	44640	48744	10584	11736	12816		
10	44400	49600	54240	11760	13040	14240	●	

Maximum feed pressure

Temperature 20-50 °C (68-122 °F)

Feed: 450 kPa (65 psi)
 Accept: 300 kPa (43 psi)
 Reject: 300 kPa (43 psi)

Temperature 50-85 °C (122-185 °F)

Feed: 350 kPa (50 psi)
 Accept: 200 kPa (29 psi)
 Reject: 200 kPa (29 psi)

Standard material

Inlet head: fiberglass-reinforced Polypropylene (PP)
 Upper cone: fiberglass-reinforced Polyamide (PA12)
 Lower cone: Polyamide (PA12)
 Upper/lower shell: fiberglass-reinforced Polypropylene (PP)
 Reject chamber: TR 55 (transparent)
 Cleanout plug: fiberglass-reinforced Polypropylene (PP)

Patents

The design is protected by patents and patents pending.

Celleco Cleanpac 700™ Satellite Cleaner System



GL&V Pulp and Paper Group

GL&V Sweden AB, POB 100, SE-129 22 Stockholm, Sweden. Tel.: +46 (8) 522 444 00. Fax: +46 (8) 522 444 99. E-mail: info.stockholm@glv.com
 POB 161, FIN-02631 Espoo, Finland. Tel.: +358 (9) 5766 5600. Fax: +358 (9) 5766 5656. E-mail: info.espool@glv.com
 GL&V St-Petersburg, Zhukovskogo str. 63, St. Petersburg, 193036 Russia. Tel.: +7 (812) 324 7277. Fax: +7 (812) 324 7278. E-mail: info.st.petersburg@glv.com
Internet: www.glv.com

GL&V Pulp and Paper Group

Albia • Beloit-Jones • Beloit-Lenox • Black Clawson-Kennedy • Celleco
 Dorr-Oliver • Hedemora • Impco • LaValley • National Refiner Plate

The Celleco Cleanpac 700™ Satellite Cleaner System

The Cleanpac 700 is a high efficiency, large-diameter cleaner, featuring an innovative system design based on satellite assemblies.

Mill operators can rely on the high efficiency, low reject rates and good runnability of the Cleanpac 700 system.

Mill owners can invest in a Cleanpac 700 plant that offers the flexibility to adapt capacity to current and future demands. The innovative satellite design concept permits installation in virtually any available space, for any range of current and future capacity. Isolation valves can be easily installed in the system at any time, at installation or at a later date.

The Cleanpac 700 incorporates all the reliability features of the twin-wall design, with easily replaceable wear parts.

Unmatched plant flexibility

The unique satellite system concept provides flexibility unmatched by other cleaner systems. The satellites are manufactured in standard configurations of 2, 4 or 8 cleaners. A number of space-saving assembly alternatives are available.

Plants can be easily expanded through the addition of new satellites. Isolation valves permit easy adaptation of capacity to production throughput.

High cleaning efficiency

The Cleanpac 700 cleaner is designed for highly efficient removal of sand, bark and shives. Despite its large diameter, the Cleanpac 700 can outperform the cleaning efficiency of many cleaners with smaller diameters, in certain applications. This has been achieved with a totally new inlet head design, a long cone and a new reject outlet.

The feed flows into the upper cone through two inlets in the cleaner head. This design feature, combined with an accelerated flow created in the head and a longer retention time, contributes to the development of a high separation effect. Mounting of the satellite directly to the feed pipe also facilitates a smooth and balanced flow. This design ensures a minimum loss of energy in the piping. As a result, input energy is applied effectively for the separation of fiber from contaminants. The established flow and pressure drop are constantly maintained. The design also ensures that no air pockets are created in the feed pipe.

Fig. 1



Lower reject rates

Due to the high separation efficiency and reject outlet design, the Cleanpac 700 cleaner can be operated at a significantly lower reject rate than comparable large-diameter cleaners.

As a result of the low volumetric reject rate, subsequent cleaner stages can be equipped with fewer cleaners, or a stage can be eliminated, with no loss in plant efficiency. This advantage can significantly reduce investment costs in a new cleaning plant.

Better runnability

The Cleanpac 700 is a large-diameter cleaner that offers the same cleaning efficiency as smaller cleaners, with the added advantage of better runnability and exceptionally low clogging. Smooth runnability is also ensured by the specially designed



Fig. 2 Cleanpac 700 reject chamber with large cleanout plug.

reject chamber which permits use of a large outlet. The large outlet also minimizes the risk of clogging caused by oversized particles.

Single-satellite isolation

The satellites connected to the main feed pipe can be equipped with a cut-off valve to isolate the satellites from the cleaner plant. This offers the flexibility to adapt capacity to changes in production, as well as permitting cleaner replacement and service during operation. Stand-by satellites can be easily installed.

Easy to maintain

The Cleanpac 700 is based on the proven twin-wall design. The upper and lower inner cones can be easily replaced. Leakage cause by excessive wear from highly abrasive contaminants are detected through the vent on the upper or lower shell. The vents can be sealed to prevent further leakage and the cones can later be replaced during a scheduled shutdown.

Cleaner replacement can be accomplished quickly and easily. All that is required is a screwdriver to loosen the rejects hose. The cleaner is removed from the bank by loosening the mounting flange lever nut.

Each cleaner is equipped with a large cleanout plug for troublefree removal of oversized particles.