

Cresset & Weir Cresset Distributors

The success of the Cresset/Weir Cresset distributor is down largely to the Airlock Seal that is formed between the fixed outer tank and the rotating inner tank. The Airlock Seal is almost frictionless and makes the machine ideal for installation in very low hydraulic head situations whilst still maintaining the ability to achieve jet reaction.



Key Features:

- Suitable for beds up to 60m diameter
- Flows from 3 to 1500 m³/hour
- Cast iron centre column, crosshead and duckfoot base for maximum life
- 'Airlock' Tanks which create an almost frictionless seal which requires a low driving head.
- Reduced wear and extended working life, in excess of 50 years
- Drive and overflow (Weir Cresset) arms to give curtain flow with spreader plates (jet reaction) or top centre nozzles (powered drive).

The Weir Cresset is simply an extension to the Standard Cresset, which gives the option of a very efficient flow split through the machine, to give optimum distribution at minimum and maximum flows.

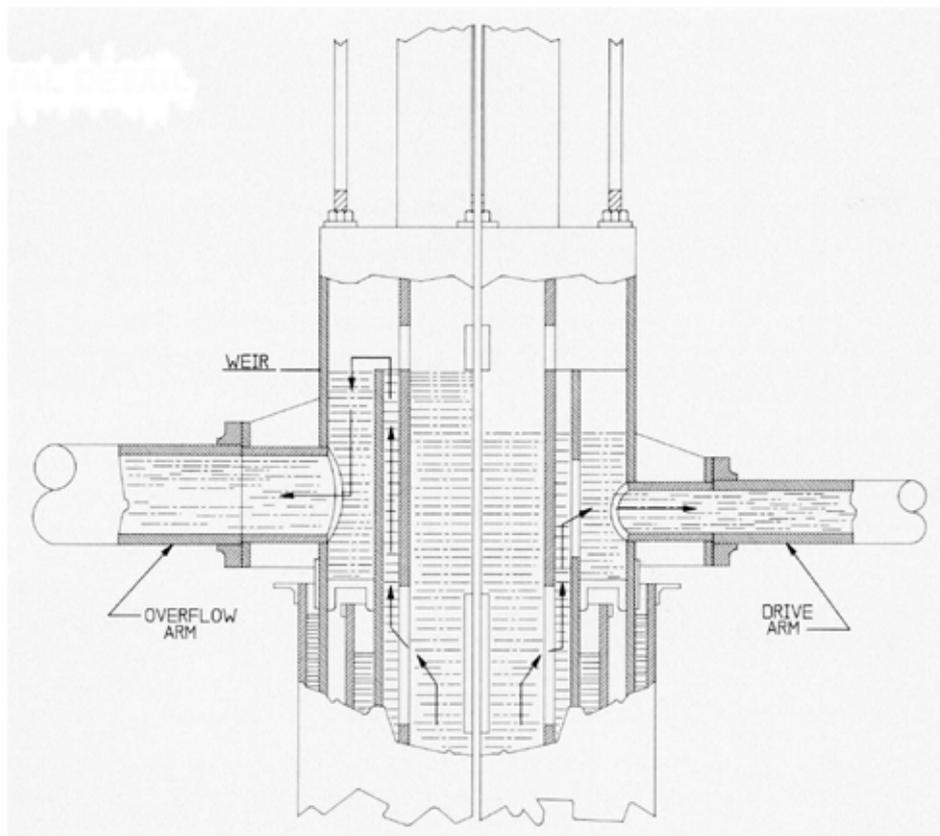
The "Weir Cresset" Distributor is similar in construction to the Cresset Distributor except that inside the revolving inner tank there are weir plates to stop the flow reaching the two overflow arms. The initial flow passes directly to the two drive arms and as the flow increases it passes to the two overflow arms over the weir, as shown above. The two overflow arms are usually larger than the two drive arms in order to give as large a volume variation as possible.

Whilst recirculation is often used to maintain a constant flow through a sewage works and obviating the need for syphons, it is often found that the flow is not constant to use standard Distributors and the additional flexibility of the "Weir Cresset" is most useful.



The design of the "Weir Cresset" provides a long weir length which enables this type of distributor to pass a large increase in volume with very little increase in head.

The drawing here shows a section through an overflow arm and a section through a drive arm of the Weir Overflow "Cresset" Distributor. With the four-arm machine the two drive arms are set at right angles to the two overflow arms.

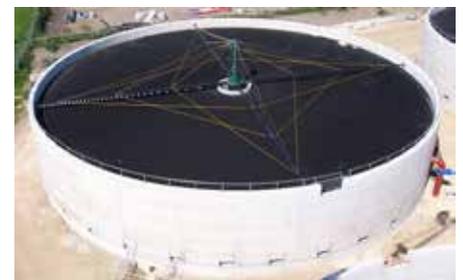


As the water rises in the centre of the machine it first passes into the drive arms. The drilling of these two arms is so arranged that when the inflow to the machine is down to the predetermined minimum rate, sufficient head is created on the spray holes to ensure satisfactory rotation of the machine.

As the inflow increases it continues to discharge via the drive arms until it rises to the weir level when it passes into the overflow arms. Any further increase in flows is passed to these arms.

The combined drilling of the spray holes in the two sets of arms is such that the maximum head created in the centre column operating on all four arms will pass the maximum total volume with little alteration in speed.

Standard Weir Overflow "Cressets" pass up to 3 x D.W.F. through the drive arms and up to 6 x D.W.F. with the overflow arms. We can also supply high rate machines for a variation in flow between maximum and minimum of up to 8/10: 1.



Process Equipment Division

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