

Application Report - No.29



Sludge & Rags



Since 2005, Selwood pumps have been working in partnership with Wessex Water on developing a pump that is reliable, efficient, maintenance friendly and with reduced lifetime costs.

Working closely with Senior Engineers and Co-ordinators within Wessex Water has enabled Selwood to trial pumps on different applications and on various sites.

One particular site that was continually causing problems for Wessex Water was the Ratfyn S.T.W. The existing pumps were continuously blocking up with rag. This could happen up to 3 or 4 times a day and on occasions 6 times, resulting in a great deal of down time for the site operator, who had to check every couple of hours to see if the pumps were still running. Further more, every time the pumps were

blocked, it could take up to 40 minutes to strip and clean each one before bringing them back into service.

Selwood provided a diesel driven demonstrator Chopper pump (C150) with the unique Selwood Selprime priming system. This helped in two ways. Firstly, the improved Selwood Chopper pump was 100% reliable in terms of blockages. This meant that the Site Operator only had to visually check the pump once a day. Secondly, as the pump had its own automatic priming system fitted (standard on all the Selwood Seltorque pumps) it was able to draw down the sludge in the "Import Sludge Tank" to virtually zero level. The Site Operator stated that in all the years he had worked at Ratfyn, he did not think it was possible to empty this tank. Wessex Water were so impressed with this demo unit that Selwood have since provided a diesel C150 on hire and quoted for new pumps to replace the existing units at the S.T.W.

Selwood have replicated these demos at Trowbridge, Poole and Petersfinger sewage treatment works with 100% satisfactory results. This resulted in Selwood tendering to be a supplier for the 'Sludge Reception, Thickening & Storage' framework for Amp5.

Selwood genuinely believe the C150 Chopper Pump has an advantage over its competitors in both its performance and day to day maintenance, resulting in the reduction of the users life time costs.

C150

	Electric Selprime	Electric	Diesel Selprime
Power Requirement	7.5-15kW	11-18kW	20kW
Pump Speed	1450rpm	1450rpm	1600rpm
Capacity	300m ³ /h	300m ³ /h	225m ³ /h
Suction Lift	9.1m	-	9.1m
Air Handling	24 l/s	-	24 l/s
Inlet / Outlet Port	100/150mm	100/150mm	100/150mm
Delivery Head	25m	25m	37m



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