Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES

Cleaning with Seawater

Location	New Zealand	**Hydra-Cell model**	G10XLSNHFECA
Type of application	Cleaning Operations on Fishing Vessels	**Flow rate**	29 l/min (8 gpm)
Liquid	Seawater	**Pressure**	60 bar (870 psi)

Application details

The wet environment and the abrasive and corrosive quality of the seawater were two problems affecting the electrically driven plunger pumps used in on-board cleaning systems by fishing vessel operators in New Zealand. The fishing boats are out at sea on a six-week cycle, returning each time with a full load of frozen fillets, already packaged for the wholesalers. Since cleaning and packaging of the fish takes place at sea, the area for this operation must be constantly cleaned and crews can ill afford downtime.

The seawater used for cleaning contains enough abrasive materials to cause the plunger pumps originally in use to fail. Seawater is also corrosive and can attack mechanical seals. Despite efforts to filter and screen the inlet water, the working life of the pumps was short. The hazard and inconvenience of electric motors and connections to drive the plunger pump in the wet environment made things worse.

The Hydra-Cell G10 was the ideal solution for these difficulties. Its seal-less design means it can easily handle the seawater and the minor debris contained in it. Moreover, with the array of apparatus on the boat already being driven by hydraulics (winches, hoists, conveyors etc) there was no shortage of hydraulic power. The Hydra-Cell pumps could be driven by hydraulic motors – eliminating concerns with on-board electrics in a clean and efficient way.

Advantages of Hydra-Cell pump on this application

Ability to handle seawater without special filtration. Reliability in a harsh environment. Space-saving compact design. High pumping efficiency allowing pump to be driven by small hydraulic motor.

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