

CLEANING & WASHING

Quick STUDY

Hydra-Cell®
Seal-less Pumps

www.Hydra-Cell.com

Location:	Canada
Application:	High-pressure spray guns
Media:	• Water
Model No.:	D15XABTHFEHA
Flow Rate:	13 gpm (50 l/min)
Pressure:	1508 psi (104 bar)
Hydra-Cell Advantages:	• High-pressure capability • Linearity of pump outlet flow • High pumping efficiency (saving energy)



Clean-in-place Package for Chicken Hatcheries

A Canadian chicken hatchery was using individual pressure wash units in each of five rooms for cleaning work. High maintenance costs were incurred and the arrangement was not energy efficient. It also wasted water. The use of portable carts was not practical because of the risk of cross contamination between hatching rooms.

The Hydra-Cell distributor designed a clean-in-place package based on the D15 pump feeding hand-held spray guns in each of the five locations. The new system is energy-efficient and reduces waste of power and water. Pressure is maintained at 1508 psi (104 bar) at each gun, no matter how many of the other guns are in use.

The system includes a C23 pressure regulating valve set to regulate outlet pressure to 1508 psi (104 bar) while a pressure transducer monitors line pressure. Pump speed and flow are matched to the capacity of the spray guns. As another gun is turned on, motor speed increases to the next setting - an arrangement that works because the output of the Hydra-Cell pump is precisely related to motor speed.

Characteristics of Fluid Pumped:

☐ Contains Abrasives ☐ Corrosive ☐ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☒ Non-lubricating ☐ High-viscosity (>500 cPs)