



Hayward Gordon

Pumps • Mixers • Strainers

Engineered Systems and Controls

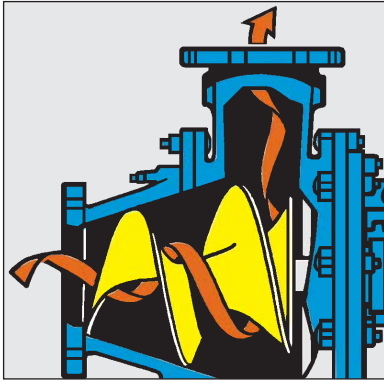
XCS SERIES – SUBMERSIBLE AND IMMERSIBLE SCREW CENTRIFUGAL



**For large or stringy solids,
shear sensitive fluids and
delicate materials.**

www.haywardgordon.com

PUMPS



INTRODUCTION

The Hayward Gordon XCS open channel screw centrifugal impeller design combines gentle, clog-free pumping action with high efficiency and non-overloading characteristics.

XCS Series pumps are ideally suited for handling thick sludges, large or stringy solids, shear sensitive fluids, and delicate materials. For abrasive solids, Hayward Gordon's clamp type construction permits the manufacture of wet-end components in wear resistant hard metals.

The primary performance advantages of the XCS design are:

- High Hydraulic Efficiency (up to 80%)
- Clog-Free Operation
- Abrasion Resistant Construction
- Non-Overloading Power Curve

- Low NPSH Requirements
- Gentle Pumping action
- Positive Suction Flow

Hayward Gordon screw centrifugal pumps can be provided with either continuous-in-air immersible or standard submersible motors.

Standard submersible and immersible motors meet NEMA and IEEE standards and are suitable for inverter duty up to a maximum 3:1 turndown ratio. Larger ratios are available upon request.

All pumps are fitted with moisture probes and thermostats for optimum motor protection.

SUBMERSIBLE MOTORS

Submersible motors used on XCS pumps are air-filled and designed for continuous duty submerged in liquid. No external cooling is required and standard motors are rated for a 40°C ambient environment. Custom versions are available for temperatures up to 99°C.

CONTINUOUS-IN-AIR (IMMERSIBLE) MOTORS

Immersible motors from Hayward Gordon incorporate a self-contained, independent, cooling system that dissipates heat and allows continuous-in-air operation without submergence in a liquid.

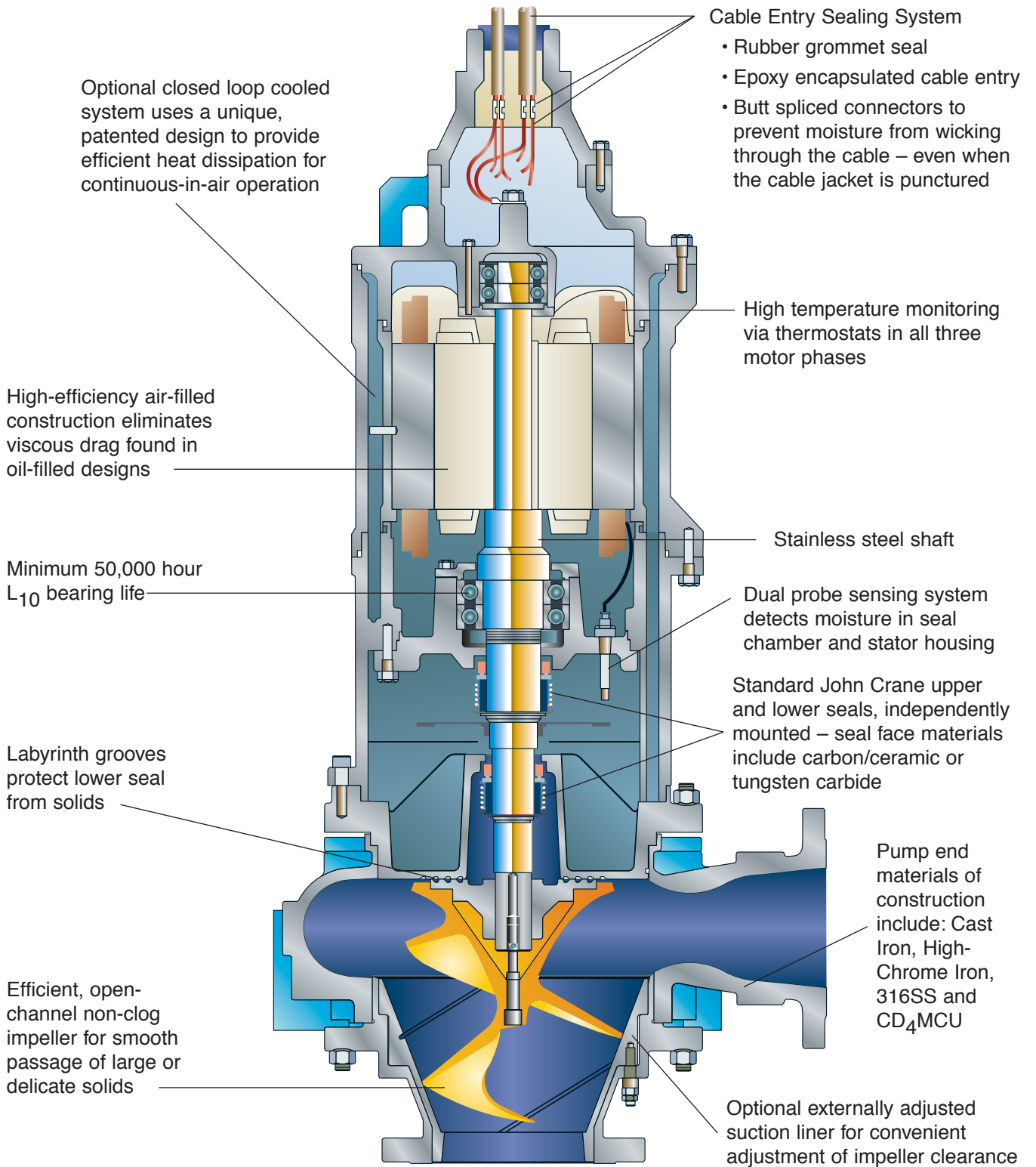
A patented closed-loop system circulates oil through jackets adjacent to the air-filled stator housing to pull away heat.

The oil is then cooled as it passes over fins on the pump backplate.

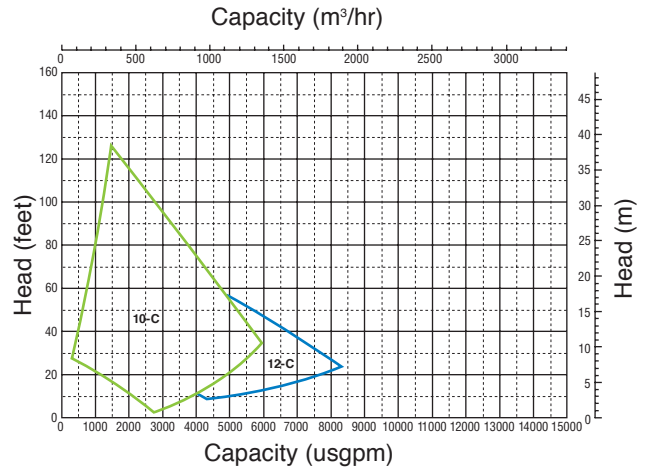
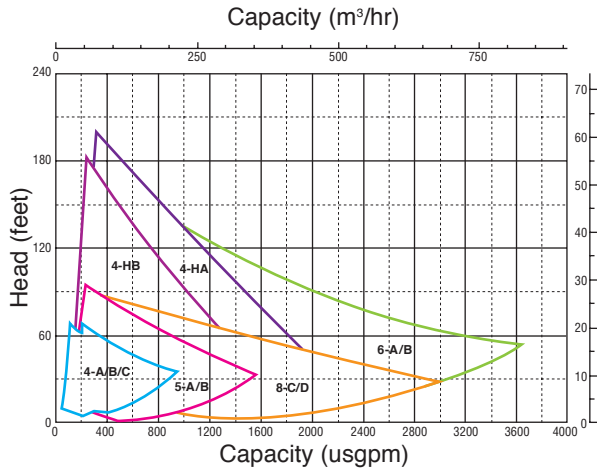
Unlike water jacketed motors, the cooling medium is completely isolated from the pumpage to prevent clogging to the circulation passages. In comparison to oil filled designs, the air filled stator and rotor housing eliminates viscous drag resulting in higher efficiency.



PUMP & MOTOR FEATURES

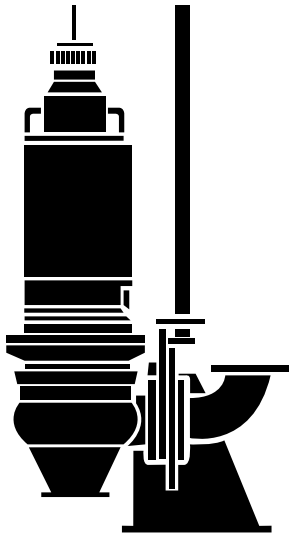


PERFORMANCE RANGE

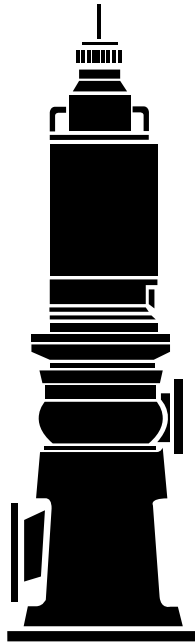


SUBMERSIBLE/IMMERSIBLE CONFIGURATIONS

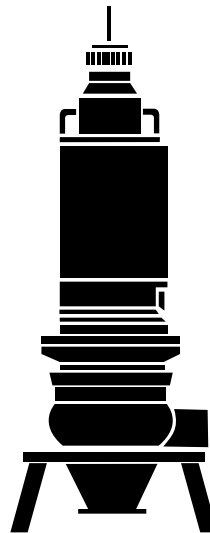
Hayward Gordon XCS submersible and immersible pumps can be provided in the following arrangements:



Slide Rail/Auto-Coupling System



Immersible Dry Pit



Portable



U.S.A.
1051 Clinton Street
Buffalo, New York 14206
(716) 856-4636 Fax (905) 567-1706

CANADA
6660 Campobello Road
Mississauga, ON L5N 2L9
(905) 567-6116 Fax (905) 567-1706

**Western U.S.A./
Western Canada**
(604) 986-8764
Fax (604) 986-8794

haywardgordon.com
info@haywardgordon.com

HGXCSsub12/05rev.1-1M

Printed in Canada