### PUMPS

#### XCS SERIES – SCREW CENTRIFUGAL SOLIDS HANDLING PUMPS

**Tandem Seal Design**

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**DIMENSIONS**

**NOT FOR CONSTRUCTION USE.**

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### PERFORMANCE RANGE

- **Capacity – (m³/hr):**
- **Capacity – USGPM:**
- **Head – feet:**
- **Head (m):**

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### PUMPS

- **XCS4-A/B**
- **XCS4-C**
- **XCS4-HA/HB**
- **XCS5-A/B/C**
- **XCS5-HA/HC**
- **XCS6-A/B/D**
- **XCS8-C/D**
- **XCS10-B/C**
- **XCS12-B/C**
- **XCS16-C**

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### Dimensions

- **Dimensions shown in blue are millimeters, others are in inches.**

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**Pump Model | Suction and Discharge Size | Wt. (Lb) | Wt. (Kg.)**
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**XCS4-A/B** | | | |
**XCS4-C** | | | |
**XCS4-HA/HB** | | | |
**XCS5-A/B/C** | | | |
**XCS5-HA/HC** | | | |
**XCS6-A/B/D** | | | |
**XCS8-C/D** | | | |
**XCS10-B/C** | | | |
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INTRODUCTION

Hayward Gordon was founded in 1952 as a distributor of industrial process pumps. Since that time the Company has evolved into an international manufacturer of industrial pumps, mixers, and engineered systems. With over 60 years in the business of engineering, designing, manufacturing and distribution of pumps and mixers, we offer sound solutions backed by solid experience.

The XCS series of Screw Centrifugal pumps was first introduced by Hayward Gordon in the early nineties and has subsequently grow into a full hydraulic offering with all mounting and drive configurations available. In addition to offering virtually any seal brand and arrangement available on our standard series, this particular design uses a tandem mechanical seal configuration with an oil bath between the two seals.

The inboard seal is specially designed with longevity in mind, utilizing heavy duty components. The sealing faces are Silicon Carbide with the spring shielded from the process by a protective 316SS sleeve to prevent fouling, ensuring unimpeded operation of the seal. The outboard seal has carbon vs. ceramic faces and runs in a clean oil bath for long, trouble free operation. The oil bath also protects the seals when accidental dry start-ups occur and also ensures that adequate cooling and clean lubrication is always provided to each seal.

This seal arrangement has proven to be highly effective on moderately severe sludge applications without the need of a clean water seal flush. For extremely severe applications, a connection is provided for flushing the seal cavity behind the impeller.

Applications Include:
- Digester Recirculation
- Waste Activated Sludge
- Sludge Transfer
- Lift Stations
- Return Activated Sludge

XCS SERIES – TANDEM SEAL SCREW CENTRIFUGAL SOLIDS HANDLING PUMPS

Refer to our XCS Series general brochure for the hydraulic advantages and performance features of this line of screw centrifugal pumps.

F SEAL

- Tapered seal housing promotes expulsion of solids and ensures there is no build-up of solids in the seal area
- Hard seal faces (Silicon Carbide) ensures maximum seal life in the most severe applications
- Seal spring is shielded from pumpage to ensure unimpeded function