


# Specifications CX-Series

## FEATURES

1. **Explosion proof according to ATEX 94/9/EC**  
 **II 2G Ex d II B T4.**
2. Cast iron impeller with tungsten carbide tip and separated, adjustable cutter plate, reduces solids to impeller thulet size, providing for highly efficient and trouble free pumping of raw sewage and waste water.
3. Double inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber, equipped with an oil lifter, and further protected by an exclusionary oil seal - provides for the most durable seal design available.
3. Highly efficient, continuous duty air filled, copper wound motor with class F or E insulation minimizes the cost of operation.
4. Built-in thermal and amperage protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60.000 hours provide for extended operational life.

## APPLICATIONS

1. Residential, commercial, industrial sewage, effluent, wastewater and drainage
2. Food and poultry, waste processing
3. Dairy and hog waste handling
4. Problem sump applications with unpredictable solids incursion



Impeller



Cutter plate

## SPECIFICATIONS

Discharge Size.....	80mm - 100mm
Power output range.....	1,6kW - 3,8kW
Performance range.....	0,05m <sup>3</sup> /min - 1,7m <sup>3</sup> /min 2m - 16m

Maximum water temperature... 40°C

### Materials of construction

Impeller.....	Grey iron casting with sintered tungsten carbide alloy tip
Casing.....	Grey iron casting
Suction Cover.....	Ductile iron casting
Motor Frame.....	Grey iron casting
Shaft.....	Stainless steel SUS420J2 (EN-X30Cr13)
Fasteners.....	Stainless steel SUS304 (EN-X5CrNi18-10)
Elastomers.....	NBR (Nitril Buna Rubber)
Mechanical Seal	
Primary Seal.....	Silicon carbide on silicon carbide
Secondary Seal.....	Ceramic on carbon

Impeller Type..... Channel impeller, non-clogging type with cutter mechanism

Solids handling capability..... 43mmx60mm to 70mmx81mm

Bearings..... Pre-lubricated, double shielded ball bearings

Motor..... Air filled, 2850 rpm, 1450 rpm  
400V / 50Hz, 3-phase  
Insulation class F

Accessories..... Guide rail fitting (TOS)



Oil Lifter

1,6kW - 3,8kW