


# Specifications BX-Series

## FEATURES

- 1. Explosion proof according to ATEX 94/9/EC**  
 II2G Ex d II B T4.  
an exclusionary oil seal - provides for the most durable seal design available.
2. Semi-open impeller, single vane, cast iron impeller with field adjustable / replaceable shear plate provides for high wear resistance and enhanced solids handling capability.
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 protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
5. 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
6. 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. Commercial, Industrial sewage wastewater, or effluent transfer
2. Agriculture
3. Raw water supply from rivers or lakes
4. Site drainage



## SPECIFICATIONS

Discharge Size.....	80mm - 100mm
Power output range.....	1,6kW - 3,8kW
Performance range.....	0,05m <sup>3</sup> /min - 2m <sup>3</sup> /min 2,0m - 20m
Maximum water temperature...	40°C
Materials of construction	
Impeller.....	Grey iron casting
Casing.....	Grey iron casting
Suction Cover.....	Grey 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
Solids handling capability.....	49mmx41mm to 81mmx53mm
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