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Recirculation Pump AXP-I

An axial propeller pump designed to pump large amounts of liquids with low back pressure. The pump is most often used at sewage treatment plants for recirculating sludge, but it can also be used in, for example, drainage and for recirculation in fish farming facilities.

APPLICATION EXAMPLES

- Recirculation in active sludge processes
- ◆ Aqua culture, recirculation

PROPELLER RPM

360 rpm – gear 1:4.5 or 1:5 480 rpm – gear 1:3.5



MATERIAL OF CONSTRUCTION

Cast iron AISI A48-40B
Stainless steel AISI 304
Cast iron AISI A48-40B
Shaft steel AISI 9840 (no contact with liquid)
Steel AISI 316
1 oil sealing ring made of nitrile Wear bush made of stainless steel AISI 304 (ceramic coating optional) Mechanical shaft seal: silicon carbide/silicon carbide
Mechanical shaft seal: silicon carbide/silicon carbide
Liquid temperature 32–86 °F SP 100 Liquid temperature 86–140 °F GS 220 GS 220 (with moisture detection)
High temperature grease



SERVICE AND MAINTENANCE

Recommended service interval/oil change	Maximum 4,300 operating hours/minimum once a year			
Motor	Lifetime lubricated bearings			
Gear	Periodic oil change Calculated service life >100,000 operating hours			
Propeller	Periodic grease lubrication			

SURFACE TREATMENT

2-component coating: RAL 7005 (Mouse Grey)	Mouse Grey
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ELECTRICAL CABLE

Resistant to abrasion, oil and UV radiation.



Number of conductors:

SOOW 7AWG14

SOOW 10AWG10

23' (other lengths available upon request)

MONITORING FUNCTIONS

Bimetal thermal sensors 248 °F Moisture detection system (optional)



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ELECTRICAL DATA

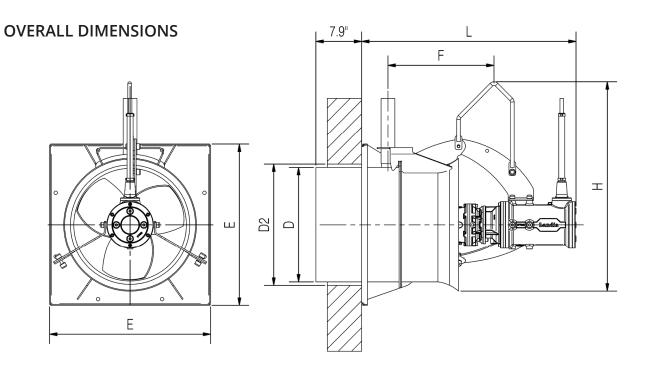
3-phase AC motor
460 V
415 V
60 Hz
Yes
IP 68
F
Class I, Groups C & D (option for selected models)
Inverter Duty Rated

Model	Nominal power	Motor	Full load current (460 V)	Connection		Start current (DOL)	cos phi	Efficiency (100%)
	[HP]	[rpm]	[A]	[V]	Υ/Δ	[A]		[%]
AXP-I 500 3.6 HP-360 rpm	3.6	1720	5.3	460	Υ	34	0.75	81.0
AXP-I 500 6.5 HP-360 rpm	6.5	1735	9.0	460	Δ	66	0.78	85.0
AXP-I 500 9.0 HP-480 rpm	9.0	1745	11.0	460	Δ	72	0.88	86.0
AXP-I 500 17.9 HP-480 rpm	17.9	1755	22.0	460	Δ	152	0.84	88.4
AXP-I 800 17.9 HP-360 rpm	17.9	1755	22.0	460	Δ	152	0.84	88.4
AXP-I 800 30.2 HP-360 rpm	30.2	1760	36.0	460	Δ	241	0.85	90.0



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Model	D		D2 [inch]	E [inch]	F [inch]	H [inch]	L [inch]	Weight [lb]		
	[mm]	[inch]								
AXP-I 500 3.6 HP-360 rpm	ø500	ø19.7	ø20.9	27.8	15.9	37.2	33.7	201		
AXP-I 500 6.5 HP-360 rpm	ø500	ø19.7	ø20.9	27.8	18.3	35.6	37.8	238		
AXP-I 500 9.0 HP-480 rpm	ø500	ø19.7	ø20.9	27.8	20.3	35.4	39.6	251		
AXP-I 500 17.9 HP-480 rpm	ø500	ø19.7	ø20.9	27.8	22.6	35.6	40.9	364		
AXP-I 800 17.9 HP-360 rpm	ø800	ø31.5	ø32.7	40.7	20.5	57.1	43.5	562		
AXP-I 800 30.2 HP-360 rpm	ø800	ø31.5	ø32.7	40.7	22.8	57.1	45.7	683		

We reserve the right to make technical alterations.

