

Tender text

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2025-01-20

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Pos.no	Description	Item no.
	Submersible dirty water motor pumps	
	Amarex D-max 80-170/084F2USG	39110686
	Amarex KSB submersible motor pump for waste water applications, in grey cast iron and special materials	

Vertical submersible motor pump set for wet installation, single-stage, with three-phase motor to IEC standards. Temperature sensor for protection against overheating, optional leakage sensor in the motor space, power cable with resin-sealed, absolutely water-tight cable entry and service-friendly plug-type connection in the motor space.

Pump set:

Make : KSB
 Impeller : Amarex D / 80-170
 type : D-max open two-vane impeller

D-max is an open two-vane impeller of the latest generation. The D-max impeller ensures a non-clogging flow and an excellent hydraulic efficiency.

The D-flector technology is specially designed to drastically reduce the risk of clogging by items such as wet wipes contained in the waste water.

Impeller diameter : 161 mm
 Free passage : 37,7 mm

Operating data:

Fluid handled : Water
 Flow rate :
 Head :
 Power input : 400 V 3~
 Operating temperature : 40 °C max.

Drive:

Nominal voltage : 3~400 V
 Nominal frequency : 50 Hz
 Starting method : DOL / star-delta starting is also

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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	possible Enclosure	: IP68 to EN 60529 / IEC 529, thermal class H			
	Explosion protection	: Without			
	Max. fluid temperature	: 40 °C			
	Thermal motor protection	: Temperature sensor			
	Leakage sensor in the motor space	: no			
	Efficiency class	:			
	Duty type	: S1 submerged / with motor section partly outside the fluid			
	Motor rating P2	: 8,4 kW			
	Motor rating P1	: 9,85 kW			
	Motor efficiency	: 85,3%			
	Nominal current	: 16,80 A			
	Speed	: 2.871 1/min			
	Cable length	: 10 m			
	Cable entry	: Screwed cable entry / cable entry with individually stripped, resin-embedded cores and service-friendly plug-type connection inside the motor			
	Materials:				
	Pump casing Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Handle	: 1.4306			
	Impeller Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Discharge cover 276 Type 420)	: Stainless steel EN-1.4021+QT800 (A			
	Suction cover	: D-flector			
	Shaft Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Cable sheath	: Chloroprene rubber			
	Elastomer seals	: Nitrile-butadiene-rubber NBR			
	Coating	: Two-component epoxy resin High Solid			
	Colour	: RAL 5002			



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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	Shaft seal:				
	2 independent mechanical seals arranged in the oil reservoir				
	Pump end	:		Bellows-type mechanical seal	
	Motor end	:		Bellows-type mechanical seal,	
	Carbon-Al2O3	:			
	Oil fill	:		Environmentally friendly, non-toxic oil	
	Dimensions and connections:				
	Nominal size, discharge side	:		PN 16	
	Nominal size, suction side	:		DN 80	
	Pump weight	:		115 kg	
	Purchase order information:				
	Make	:		KSB	
	Type series / size	:		Amarex D 80-170	
	Material price group	:		18	
	Weight	:		115 kg	
	Item number	:		39110686	
	Motor: 842USG	:			

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Data sheet: technical data

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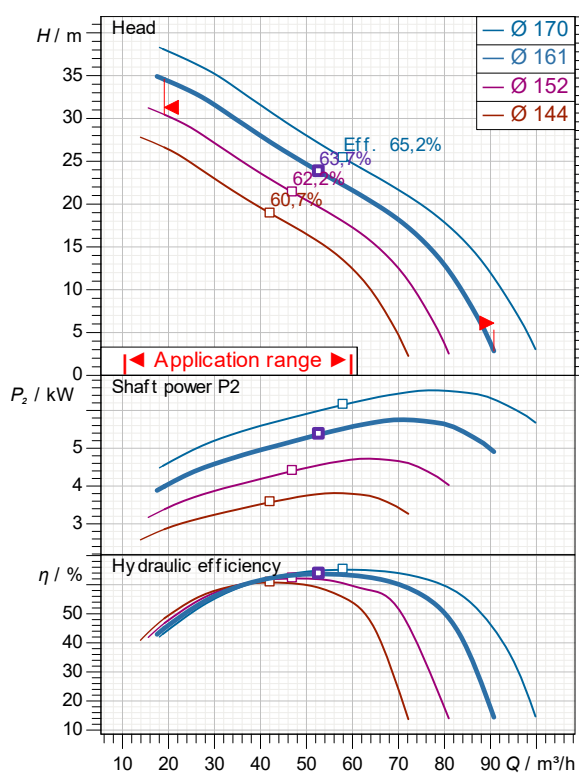
Item-No.
Design **Submersible dirty water motor pumps**
Type / Coding **Amarex D-max 80-170/084F2USG**

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demand data

Flow
Total head
Geodetic head
Media Water
Liquid temperature 20 °C

Pump data

Make KSB
Type Amarex D-max 80-170/084F2USG
Design Submersible dirty water motor p
Specific design Single head pump
No. of pumps 1
Standby pump No
Max. fluid temperature

Hydraulic data (Duty point)

Flow
Head

Material / sealing element

Casing Grey cast iron EN-GJL-250 (A 48 Class 35B)
Cover Grey cast iron EN-GJL-250 (A 48 Class 35B)
Suction cover D-flector
Suction cover material Ductile cast iron EN-GJS-600-3
Discharge cover Grey cast iron EN-GJL-250 (A 48 Class 35B)
Shaft Stainless steel EN-1.4021+QT800 (A 276 Type 420)
O-Rings Nitrile-butadiene-rubber NBR
Impeller Ductile cast iron EN-GJS-600-3

Dimensions

Discharge flange standard DN 80

Rated motor data

Power input (P1) 9,85 kW
Rated power (Pn) 8,4 kW
Speed 2.871 1/min
Rated voltage 400 V
Rated current (In) 16,8 A

Product information

Ident. No./ type key 39110686
Weight loaded 115 kg
Gross price 15.983,82 EUR
PL 2025-01-20
Price group

