ETN EVO



Plastic and Fluoroplastic Lined Magnetic drive Horizontal - Single Stage - Centrifugal pumps Sub-ISO designed Lining: PP (Polypropylene), ETFE (Ethylene tetrafluoroethylene) Close-coupled execution



Comply to : 2006/42/CE

Design to : sub - ISO 2858 ATEX 100 Ex Directive 2014/34/EU Flanged UNI 1092-2 (ISO 7005-2) PN10RF type B slotted ANSI 150RF



ETN EVO

Mag drive concept

The synchronous drive configuration is based on an outer magnet ring assembly built to magnetically couple with an inner magnet ring assembly.

These two magnet rings are locked together by the flux of attracting magnet poles flowing th ough the containment isolation shell.



ETN Evo STANDARD EXECUTION

The ETN offer a wide range of materials for the wetted parts :

• PP (Polypropylene)

Versatility

Reliability

Design

• ETFE (Ethylene tetrafluo oethylene)

ETN Evo WITH MOTOR New internal circualtion path for top reliability, even under stress conditions

Made with a reliable quality as the UTN but designed for smaller applications (low duty)





3D VIEW

Inner and Outer magnet are equipped with NdFeB (neodymium iron boron) or SmCo (samarium cobalt) permanent magnets. Patented cage magnet attachment guarantees stability during the operation of the pump. Top centerline discharge for air handling, self-venting.

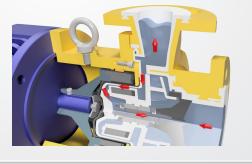
All wetted parts have an high chemical resistance employing a performing material as ETFE of at least 3 mm thickness. Alternative available materials for the Wetted parts: PP.

ETFE Non-metallic double Isolation Shell configuration standard on all ETN series.

Vacuum resistant housing ETFE lining is made through Transfer Moulding process.

Sealless design Total containment, essential for hazardous, aggressive or valuable product.

ETN Evo: new internal circulation path to improve flushing and lubrication of bushes, to keep bushes and shaft cooled and lubricated, even under stress conditions, i.e. end of curve and/or cavitation conditions



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FEATURES



CASING

The ductile cast iron armour protects the fluoroplastic peripheral surfaces of the pump from pipe strain, vibration, external shocks and during the handling; moreover it allows the casing to be Vacuum resistant.



IMPELLER ASSEMBLY

The integral design of the impeller and inner magnet prevents any misalignment problem, reducing also the production cost.

Standard back vanes reduce axial thrust and seal chamber pressures to guarantee an extraordinary bearing and seal life.



ISOLATION SHELL

- ETFE on wet side externally reinforced by Polycarbonate reinforcement.
- Zero Eddy Current losses thanks to non-metallic execution.
- Generous flushing canals on shaft support.

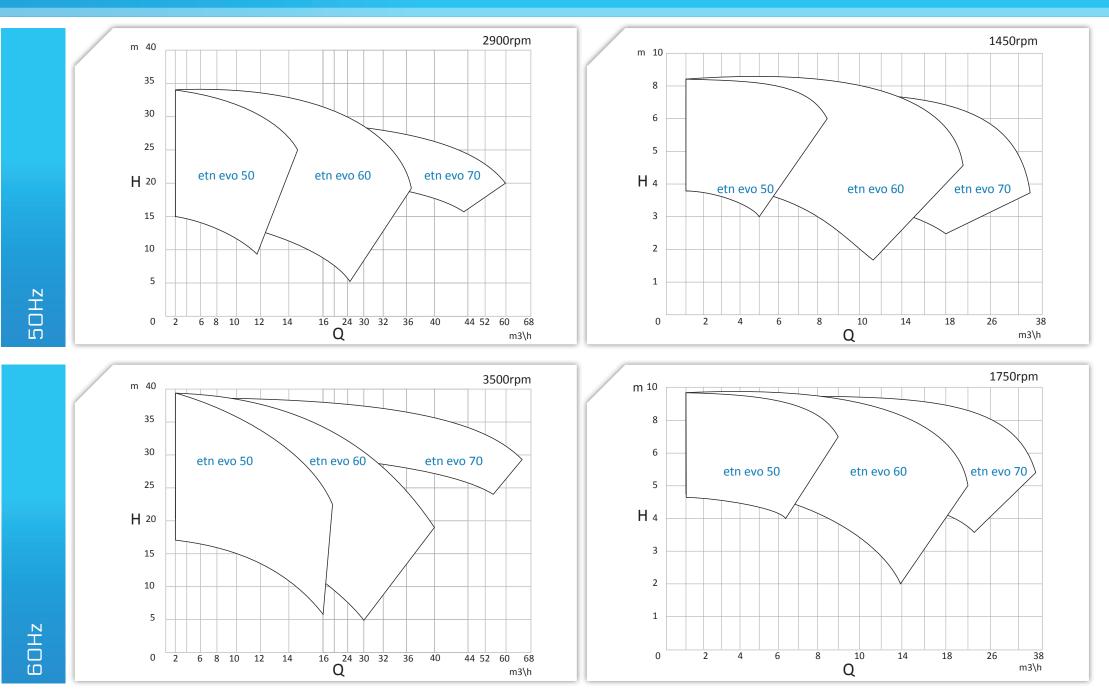
NEW SHAFT AND SUCTION COVER

New execution with central and secondary paths, for optimal bushes lubrication and heat removal.





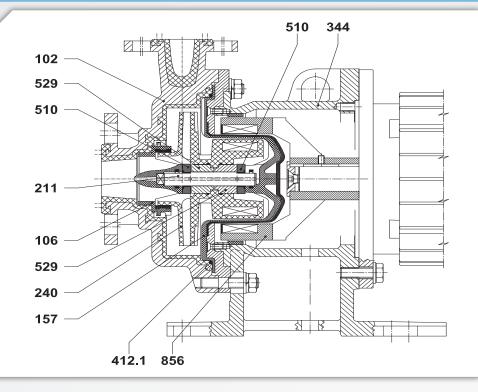
PERFORMANCE FIELDS



Not binding data refers to water at room temperature. For specific performance curve contact CDR Pompe S.r.l.

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SECTIONAL DRAWING



Part list	DIN	Components	Materials	
	102	Casing	PP lined / ETFE lined	
	106	Suction casing	ETFE+CF	
	157	Isolation shell	ETFE+PC+PP	
	211	Shaft	SSiC / Al2O3 / RunSafeSSiC	
	240	Impeller	PP / ETFE	
	344	Lantern	GS400	
	412.1	O-Ring (Casing)	EPDM / FPM / FPM-FEP	
	510	Thrust Bearing	SSiC / Al2O3 /RunSafeSSiC	
	529	Bearing sleeve	SSiC / Al2O3 / Graphite /RunSafeSSiC	
	856	Outer magnet	GS400+Ryton	

SU	Performances 2900 rpm	Q max = 60 m3/h -> H max = 34 mcl			
Ę.	Electric motors	0.75 kW (motor size 80) -> 7,5 kW motor size 132)			
ecificatio	Temperature range	 PP: - 10 °C -> + 60 °C ETFE: - 15 °C -> + 90 °C 			
	Allowable pressure range	 PP: from 6 bar (20 °C) to 4 bar (60 °C) ETFE : from 6 bar (20 °C) to 4 bar (95 °C) 			
l Sp	Suction / Delivery	 ETN EVO 50: DN40/DN25 ETN EVO 60 : DN65/DN40 ETN EVO 70: DN80/DN50 			
echnica	Flange connecections	UNI 1092-2 / ISO 7005-2 PN 16, type B slotted to ASME /ANSI class 150			
- L	Viscosity	0,5 cSt min - 60 cSt max			
Te	Allowable solids	Max concentration 2 % by weight Max particles size 0,10 mm			

PAINTING COATING QUALITY

The metal surfaces are protected by a high performance three layers coating (240 micron total)

Epoxy zinc paint

Quality

Painting Coating

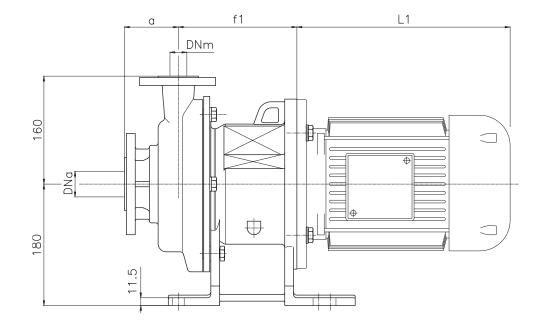
- Epoxy amidic modified viny
- Epoxy enamel paint or aliphatic acrylic polyurethane

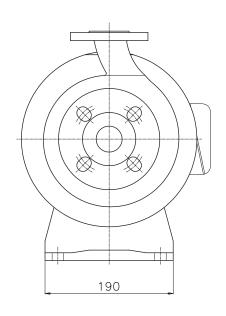
Available upon request :

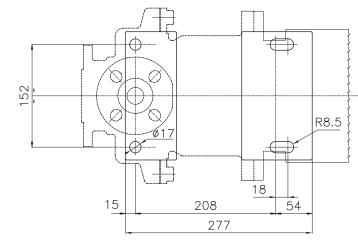
EN ISO 12944-5 C5M and C5I protecting paint system grades



OVERALL DIMENSIONS







	Model	DNa**	DNm**	a (mm)	B5 MOTOR	FRAME
		40	25	80		80
	ETN EVO 50 PP / ETFE	40	25	80		90
		65	40	80		
	ETN EVO 60 PP / ETFE	65	40	80		90
		65	40	80		100
		80	50	100		112
	ETN EVO 70 PP / ETFE	80	50	100		132

(mm) 175.5 175.5 175.5 175.5 175.5 193.5

f1

*L1 dimension is according to installed motor manufacturer

** Flanges dimensions according to UNI 1092-2 slotted ANSI 150 RF

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For further info, please visit www.cdrpompe.com





C.D.R. Pompe S.R.L.

Via R. Sanzio, 57 - 20021 Bollate (MI) - Italy

Tel. +39029901941

Fax +39029980606

www.cdrpompe.com

rdo@cdrpompe.com

Technical Characteristics

The technical data and characteristics stated in this General Catalogue are not binding. CDR Pompe S.r.l. reserves the right to make modifications without notice. Therefore data, dimensions, performances and any other stated issues are indicative only and not binding. Anyway for any technical details you must require an up-to-date product technical card.

TB - ETN - 2018_05