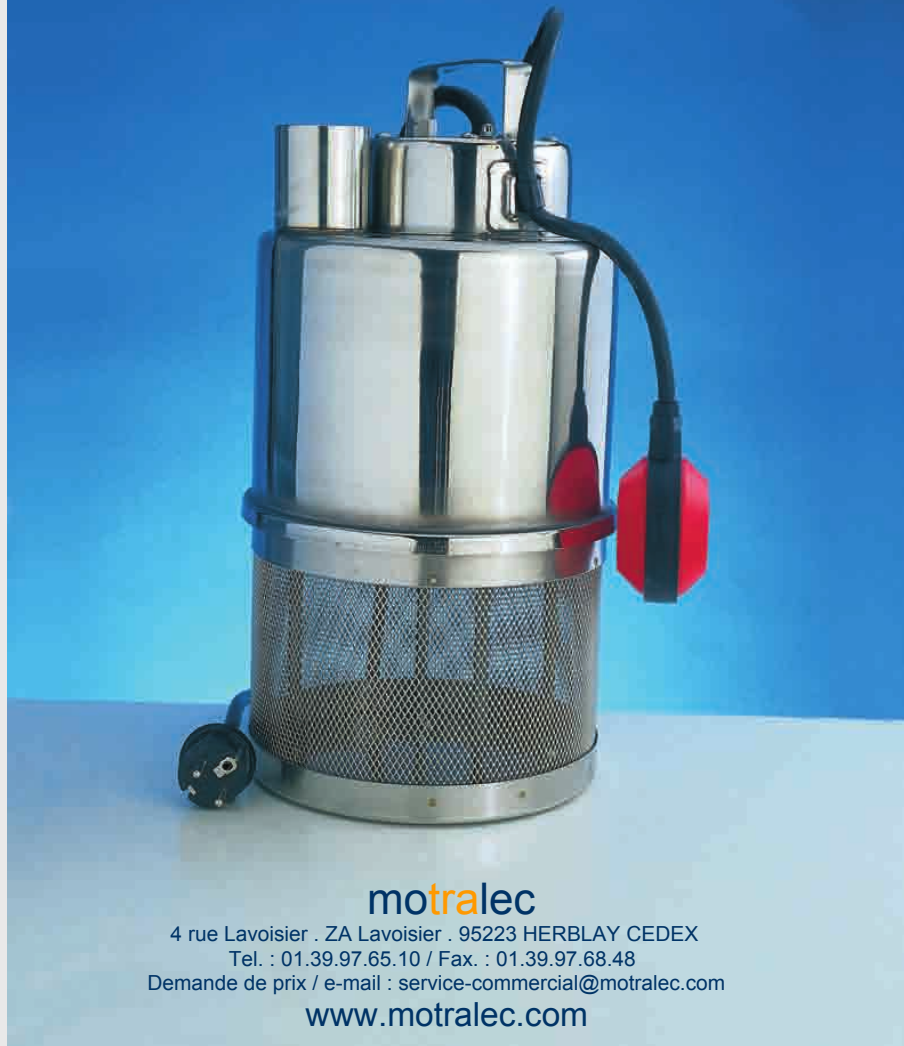


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SPRING



**ELETTROPOMPE SOMMERGIBILI PER FONTANE E SVUOTAMENTO DI PISCINE
SUBMERSIBLE ELECTRIC PUMPS FOR FOUNTAINS AND SWIMMING POOLS EMPTYING OPERATIONS**

SERVIZIO CONTINUO ALTERNATO - ALTERNATED CONTINUE SERVICE

PREVALENZA : 8 mt. ÷ 16,5 mt.
PORTATA : 9 m³/h ÷ 24 m³/h
POTENZA NOMINALE : 0,25 Kw (0,33HP) ÷ 1,1Kw (1,5HP)

PUMP HEAD : 8 m to 16,5 m
DELIVERY : 9 m³/h to 24 m³/h
RATED HORSEPOWER : 0.25 kW (0.33HP) to 1.1 kW (1.5HP)

APPLICAZIONI

- SVUOTAMENTO DI PISCINE.
- GIOCHI D'ACQUA, FONTANE DECORATIVE.

APPLICATIONS

- SWIMMING POOLS EMPTYING OPERATIONS.
- WATER-PLAY AND DECORATIVE FOUNTAINS.



CARATTERISTICHE DI COSTRUZIONE

- ELETTPOMPA A DOPPIA CAMERA (MOTORE, TENUTA MECCANICA).
- MOTORE A BAGNO D'OLIO (BIODEGRADABILE E DIELETTICO) PER RAFFREDDAMENTO E LUBRIFICAZIONE CUSCINETTI.
- ANELLO DI TENUTA LATO MOTORE.
- TENUTA MECCANICA A BAGNO D'OLIO.
- IMMERSIONE MASSIMA: mt. 5.
- GRADO DI PROTEZIONE IP 68.
- CLASSE DI ISOLAMENTO: F
- TEMPERATURA MAX.LIQUIDO POMPATO: 50°C
- VERSIONI: Monofase: 220 - 277V/50Hz e 220 - 277V / 60 Hz con protettore termico incorporato e condensatore permanentemente inserito.
Trifase: 220 - 277V/50Hz o 380 - 480V / 50Hz e 220-277V o 380 - 480V / 60Hz con protezione da sovraccarico a cura dell'utente.
- POTENZA MOTORE:
DA 0,25Kw (0,33 Hp) a 0,45 Kw (0,6Hp) solo versioni monofase.
DA 0,6Kw (0,8 Hp) a 1,1Kw (1,5Hp) versioni monofase e trifase.
- VERSIONI MONOFASI AUTOMATICHE CON GALLEGGIANTE O MANUALI SENZA GALLEGGIANTE
- CAVO STANDARD:
Monofase: 10 metri H07RN-F per versione normale (aut.-man).
5 metri H07RN-F solo per versione automatica.(escluso SPRING 150)
- Trifase: 10 metri H07RN-F
- SPECIALI VOLTAGGI E FREQUENZE A RICHIESTA.

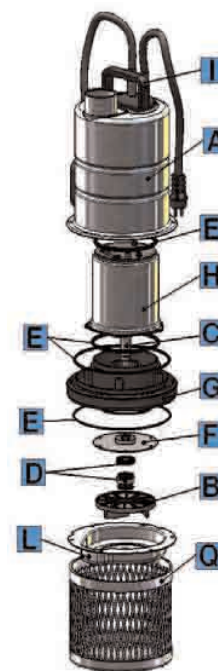
DESIGN ENGINEERING

- *DOUBLE CHAMBER ELECTRIC PUMP (MOTOR, MECHANICAL SEAL)).*
- *OIL BATH MOTOR (BIODEGRADABLE AND DIELECTRIC) FOR COOLING AND BEARING LUBRICATION.*
- *SEALING RING - ENGINE FACE.*
- *OIL BATH MECHANICAL SEALS.*
- *PERMISSIBLE DRAUGHT OF WATER: 5 m*
- *IP 68 PROTECTION CLASS.*
- *CLASS "F" INSULATION.*
- *MAX. PUMPED LIQUID TEMPERATURE: 50°C*
- *VERSIONS: Single Phase: 220 - 277V / 50 Hz or 220 - 277V / 60 Hz with built in thermal protection and permanent capacitor.*
Three Phase : 220 - 277 V / 50 Hz or 380 - 480V / 50Hz and 220-277V or 380 - 480V / 60Hz with overload protection care of the User.
- *MOTOR POWER:*
From 0.25kW (0.33 HP) to 0.45 kW (0.6HP)only single phase versions.
From 0.6kW (0.8 HP) to 1.1kW (1.5HP) single phase and three phase versions.
- *AUTOMATIC SINGLE PHASE VERSIONS WITH FLOATER OR MANUAL SINGLE PHASE VERSIONS, WITHOUT FLOATER*
- *STANDARD CABLE FEATURES:*
Single phase: 10 metres H07RN-F for the standard version (automatic-manual).
5 metres H07RN-F only for the automatic version (excluded SPRING 150)
- Three phase: 10 metres H07RN-F*
- CUSTOMISED VOLTAGE AND FREQUENCY RATING AVAILABLE ON DEMAND.*

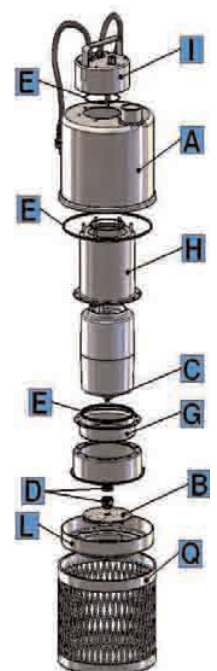
TABELLA MATERIALI / MATERIALS TABLE:

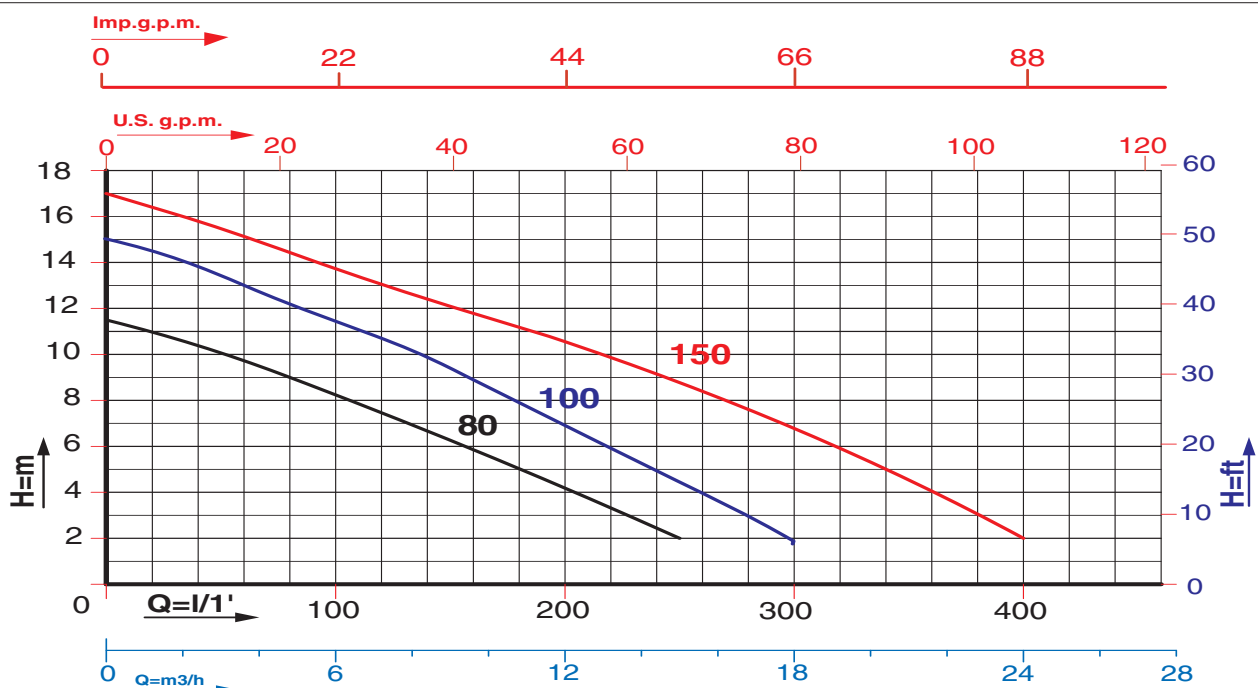
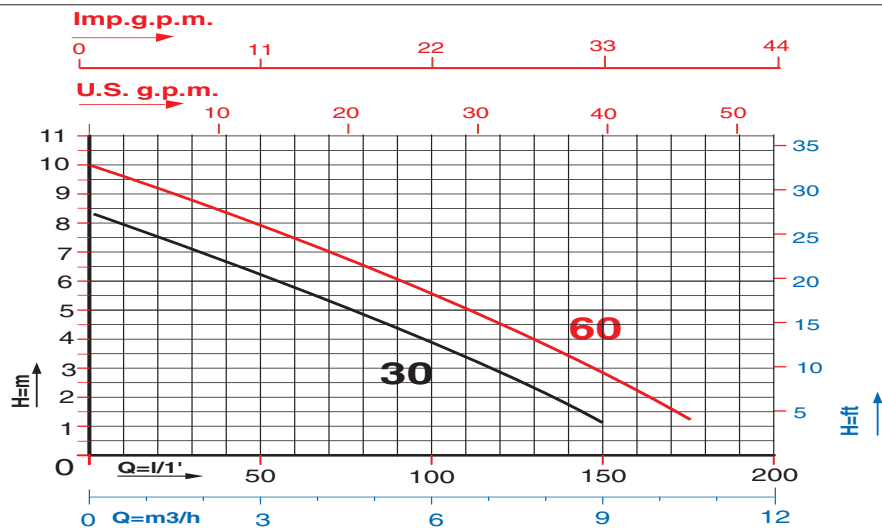
Pos.	Componente / <i>Component</i>		Materiali / <i>Materials</i>
A	Carcassa esterna / <i>External housing</i>		ACCIAIO INOX AISI 304 - DIN 1.4301 STAINLESS STEEL
B	Girante / <i>Impeller</i>	SPRING 80-100-150	TECNOPLIMERO TECNOPOLYMER
		SPRING 30-60	
C	Albero (lato pompa) / <i>Shaft (pump side)</i>	SPRING 30-60	ACCIAIO INOX AISI 303 DIN 1.4305 / STAINLESS STEEL
		SPRING 80-100-150	ACCIAIO INOX AISI 316 DIN 1.4401 / STAINLESS STEEL
D	Tenuta meccanica <i>Mechanical seal</i>	Lato pompa / <i>Pump face</i>	CARBURIO DI SILICIO-CARBURIO DI SILICIO <i>SILICON CARBIDE - SILICON CARBIDE</i>
		Lato motore / <i>Motor face</i>	
E	O-ring		NBR
G	Porta motore / <i>Motor holder</i>		ACCIAIO INOX AISI 304 - DIN 1.4301 STAINLESS STEEL
H	Carcassa motore / <i>Motor housing</i>		
I	Coperchio + maniglia / <i>Cover + handle</i>	SPRING 30 - 60	TECNOPLIMERO TECNOPOLYMER
		SPRING 80 - 100 - 150	
Q	Filtro / <i>Filter</i>		ACCIAIO INOX AISI 304 - DIN 1.4301 STAINLESS STEEL
L	Diffusore / <i>Diffuser</i>		

SPRING 30 - 60



SPRING 80 - 100 - 150

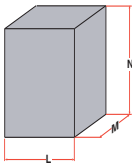
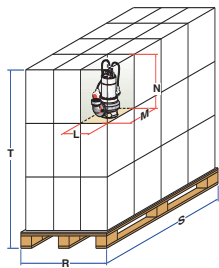
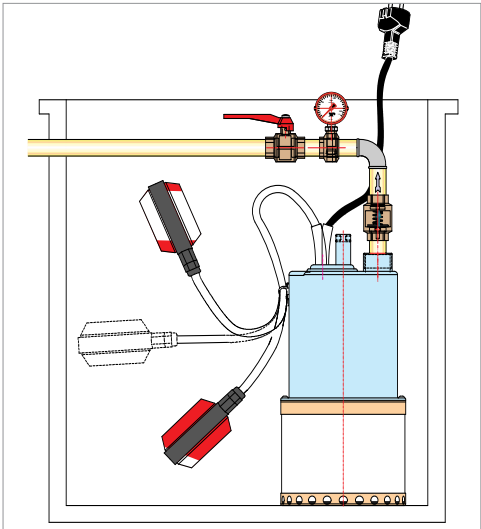
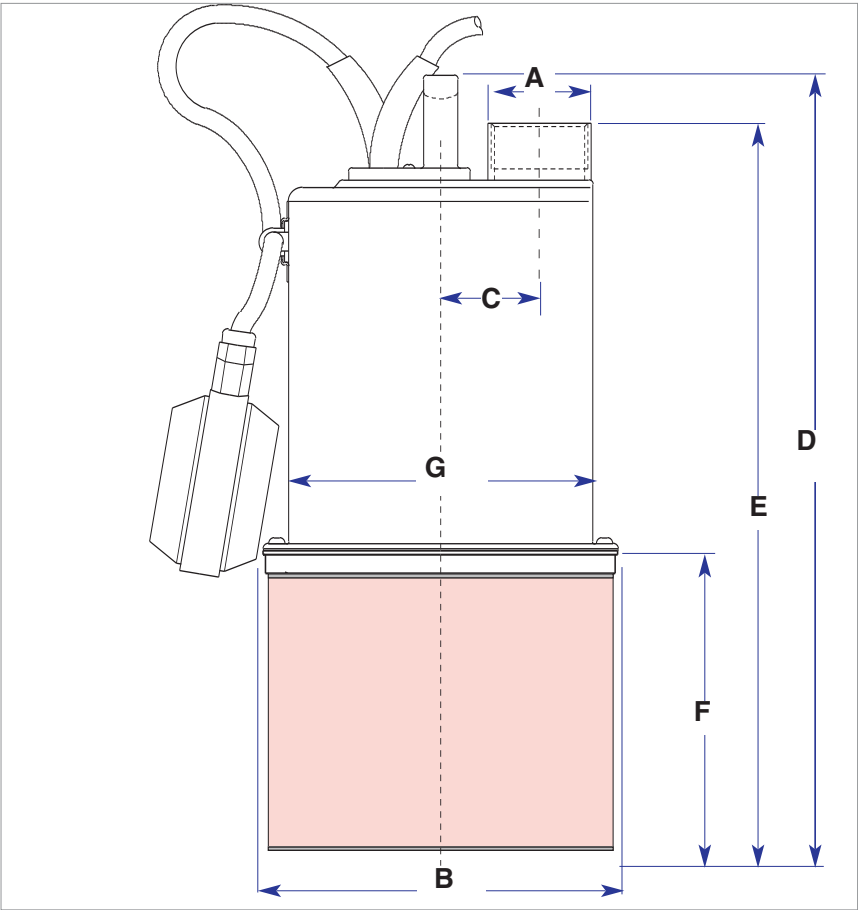




Caratteristiche di funzionamento a 2800 rpm 50Hz e 3450 rpm 60Hz - Performances at 2800 rpm 50 Hz and 3450 rpm 60 Hz

Le prestazioni valgono per liquidi con densità $\rho = 1,0 \text{ kg/dm}^3$ ed una viscosità $\nu = 1 \text{ mm}^2/\text{s}$ / The performance data holds true for liquids with a $\rho = 1,0 \text{ kg/dm}^3$ density and a $\nu = 1 \text{ mm}^2/\text{s}$ viscosity.

MODELLO MODEL	VOLTAGGIO VOLTAGE 50 Hz	DATI ELETTRICI / ELECTRICAL DATA						DATI IDRAULICI / HYDRAULIC DATA									
		P1 max	P2 nom.	I max	Condensatore Capacitor												
		Kw	Kw	HP	Ampere	μF	VC	m³/h	0	2,4	4,5	7,2	9	10,5	15	18	24
SPRING 30 M	1 x 220-230V	0,5	0,25	0,33	2,2	8	450	H (m) PRESSIONE TOTALE IN METRI COLONNA ACQUA / TOTAL PUMP HEAD AND WATER COLUMN HEIGHT IN IN.	0	40	75	120	150	225	250	300	400
SPRING 60 M	1 x 220-230V	0,7	0,45	0,6	3,0	10	450		8,0	6,6	5,2	7,4	1,0				
SPRING 60 T	3 x 380-400V	0,7	0,45	0,6	3,14	---	---		10,0	8,0	6,8	4,3	3,0	1,2			
SPRING 80 M	1 x 220-230V	1,1	0,6	0,8	4,5	16	450		10,0	8,0	6,8	4,3	3,0	1,2			
SPRING 80 T	3 x 380-400V	0,9	0,6	0,8	2,1	---	---		11,5	10,5	9,5	7,5	6,2	5,0	2,0		
SPRING 100 M	1 x 220-230V	1,5	0,75	1,0	6,5	20	450		11,5	10,5	9,5	7,5	6,2	5,0	2,0		
SPRING 100 T	3 x 380-400V	1,3	0,75	1,0	2,2	---	---		14,5	13,5	12,0	10,5	9,5	8,0	4,0	1,5	
SPRING 150 M	1 x 220-230V	2	1,1	1,5	10,6	30	450		14,5	13,5	12,0	10,5	9,5	8,0	4,0	1,5	
SPRING 150 T	3 x 380-400V	1,8	1,1	1,5	3,3	---	---		16,5	15,5	14,5	13,0	12,1	11,2	9,0	7,0	2,0
									16,5	15,5	14,5	13,0	12,1	11,2	9,0	7,0	2,0



MODELLO / <i>MODEL</i>	DIMENSIONI POMPA in mm. / <i>PUMP DIMENSIONS in mm.</i>								
	A	B	C	D	E	F	G	H	I
SPRING 30 M	1 1/4"	154	47	249	228	45	132		
SPRING 60 M	1 1/4"	154	47	249	228	45	132		
SPRING 60 T	1" 1/4	154	47	249	228	45	132		
SPRING 80 M	1 1/2"	212,4	89,7	400	369	160	202,4		
SPRING 80 T	1 1/2"	212,4	89,7	400	369	160	202,4		
SPRING 100 M	1 1/2"	212,4	89,7	400	369	160	202,4		
SPRING 100 T	1 1/2"	212,4	89,7	400	369	160	202,4		
SPRING 150 M	2"	212,4	89,7	440,2	408,2	160	202,4		
SPRING 150 T	2"	212,4	89,7	440,2	408,2	160	202,4		

MODELLO / <i>MODEL</i>	DIMENSIONI SCATOLA / <i>PACKING DIMENSIONS</i>				DIMENSIONI PALLET / <i>PALLET DIMENSIONS</i>				
	L mm.	M mm.	N mm.	Peso / Weight Kg.	R mm.	S mm.	T mm.	nr. scatole/cartons	Peso / Weight Kg.
SPRING 30 M	220	190	330	5,5	800	1200	1465	80	450
SPRING 60 M	220	190	330	6,2	800	1200	1465	80	506
SPRING 60 T	220	190	330	6,5	800	1200	1465	80	530
SPRING 80 M	260	300	530	9	800	1200	1220	24	241
SPRING 80 T	260	300	530	9	800	1200	1220	24	241
SPRING 100 M	260	300	530	11	800	1200	1220	24	289
SPRING 100 T	260	300	530	11	800	1200	1220	24	289
SPRING 150 M	260	300	530	18	800	1200	1220	24	457
SPRING 150 T	260	300	530	18	800	1200	1220	24	457

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