EN

NEW

DC

40TH

PEDROLLO®

... the spring of life

NEW

New version of the DC series, totally redesigned, made more reliable with the introduction of double mechanical seals and Epoxy Electrocoating Treatmentof all cast iron parts. This treatment guarantees high resistance to oxidation.

TECHNICAL CHARACTERISTICS

- Double mechanical seals
- All cast iron parts subjected to Epoxy Electrocoating Treatment
- Precision cast stainless steel handle
- New capacitor housing with stainless steel cover for easier maintenance
- Float switch equipped with patented tilting system (patented)

INSTALLATION AND USE

DC submersible pumps, made from heavy gauge cast iron offering exceptional sturdiness, abrasion resistance and durability, are suitable for draining **clear or slightly dirty water**. They distinguish themselves for their sturdiness and reliability under automatic operating conditions in fixed installations.

APPLICATION LIMITS

- **10 m** maximum immersion depth
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 10 mm**

STANDARD SUPPLY

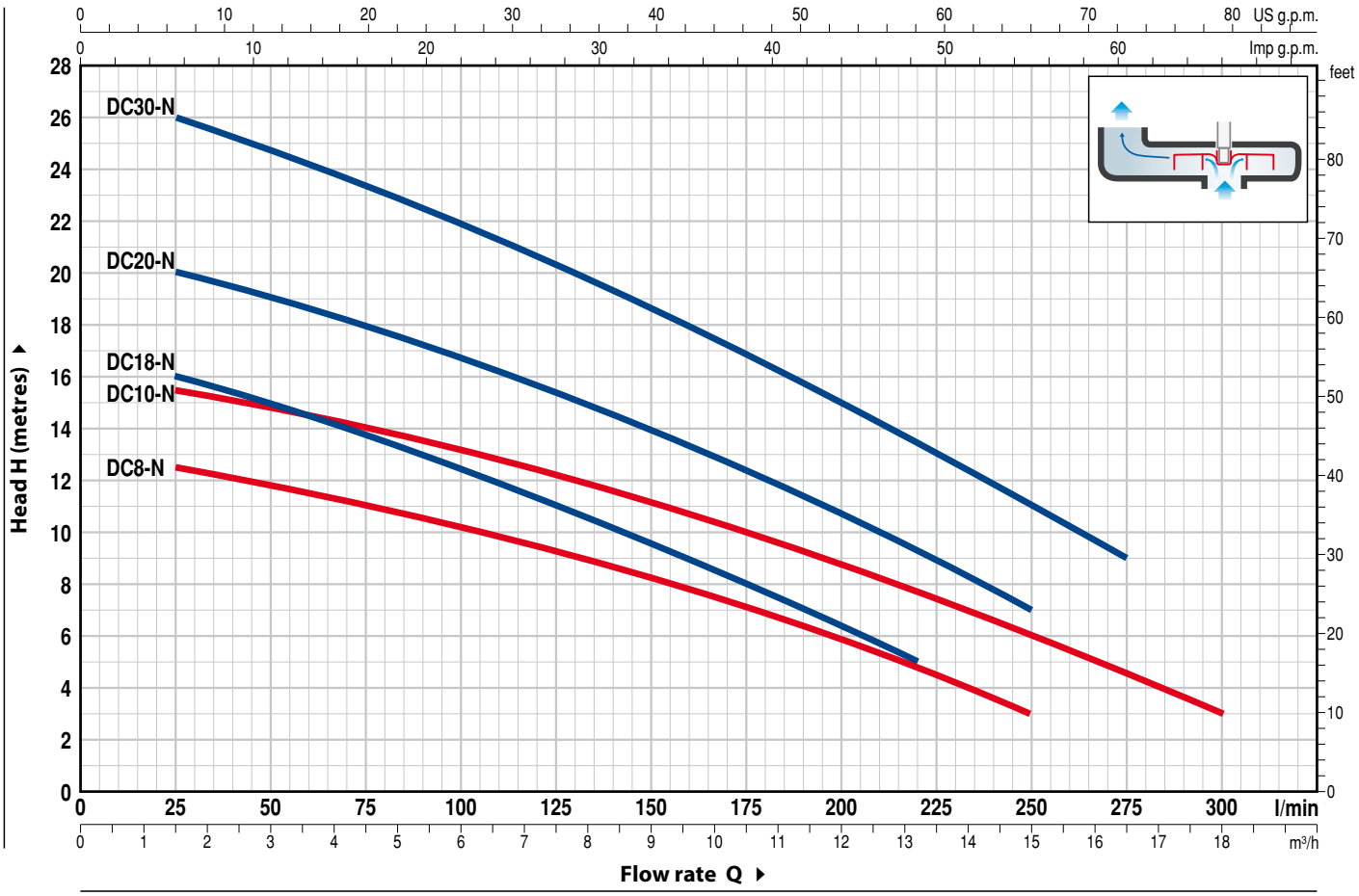
- Complete with **10 m** long power cable
- Float switch for single-phase versions

PATENTS - MODELS

- Float switch equipped with patented tilting system (patented)
- Model registered

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min



MODEL		POWER		Q													
Single-phase	Three-phase	kW	HP	m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.2	15.0	16.5	18.0
				l/min	**0**	**25**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**220**	**250**	**275**	**300**
DCm 8 -N	–	0.55	0.75		13	12.5	11.8	11	10.2	9.2	8.2	7	5.8	4.7	3		
DCm 10-N	**DC 10-N**	0.75	1		16	15.5	14.8	14	13.2	12.2	11.2	10	8.8	7.8	6	4.5	3
DCm 18-N	–	0.55	0.75	**H** metres	16	16	15	13.7	12.5	11	9.5	8	6.5	5			
DCm 20-N	**DC 20-N**	0.75	1		20	20	19	18	16.8	15.5	13.9	12.3	10.7	9.2	7		
DCm 30-N	**DC 30-N**	1.1	1.5		26	26	24.8	23.5	22	20.4	18.7	16.9	15	13.5	11	9	

Q = Flow rate **H** = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3.

POS. COMPONENT — CONSTRUCTION CHARACTERISTICS

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron subjected to Epoxy Electrocoating Treatment, with threaded port in compliance with ISO 228/1
2	**SUCTION FILTER**	Stainless steel AISI 304
3	**SUCTION PLATE**	Stainless steel AISI 304
4	**IMPELLER**	Technopolymer open type
5	**MOTOR CASING**	Cast iron subjected to Epoxy Electrocoating Treatment
6	**MOTOR CASING PLATE**	Stainless steel AISI 304
7	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104
8	**SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER**	

Pump ***Model***	***Seal*** ***Model***	***Shaft*** ***Diameter***	*Materials* *Stationary ring*	*Rotational ring*	*Elastomer*
DC8-10-18-20-N	**MG1-14D SIC**	**Ø 14** mm	Silicon carbide	Silicon carbide	NBR
DC30-N	**MG1-14 SIC**	**Ø 14** mm	Ceramic	Silicon carbide	NBR

(Shaft with double seal with lip seal Ø 16 x **Ø 24** x **H 5** mm)

9	**BEARINGS**	**6203 ZZ / 6203 ZZ**	
10	**CAPACITOR**		

Pump ***Single-phase***	***Capacità*** ***(230 V or 240 V)***	***(110 V)***
DCm8-10-18-20-N	**20** µF 450 VL	**30** µF 250 VL
DCm30-N	**25** µF 450 VL	–

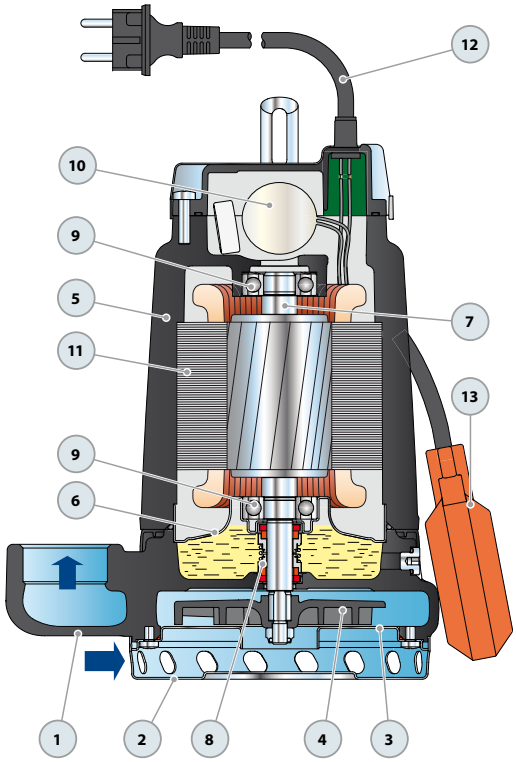
11 ELECTRIC MOTOR

– Single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding
– Three-phase 400 V - 50 Hz
– Insulation: F class
– Protection: IP X8

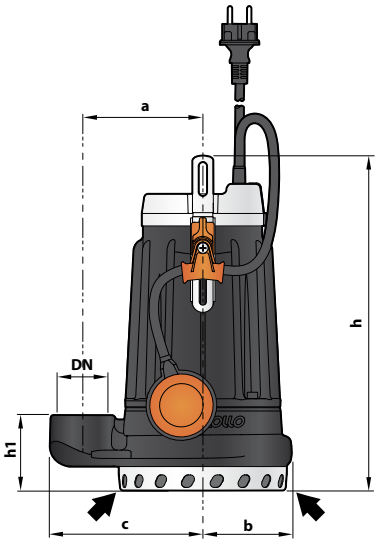
12 POWER CABLE

10 metre long "H07 RN-F" cable
(with Schuko plug on single-phase versions only)

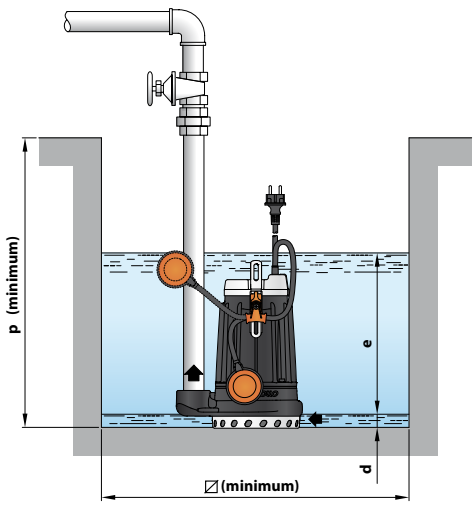
13 FLOAT SWITCH
(only for single-phase versions)



DIMENSIONS



Typical installation



MODEL		PORT	DIMENSIONS mm								
Single-phase	Three-phase	DN	a	b	c	h	h1	d	e	p	⍁
DCm 8 -N	–	1½"	115	85	147	322	72	17	variable	500	500
DCm 10-N	DC 10-N										
DCm 18-N	–										
DCm 20-N	DC 20-N										
DCm 30-N	DC 30-N			93		337	84	15			

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