

Submersible drainage pumps

-  Clear water
-  Domestic use
-  Civil use



PERFORMANCE RANGE

- Flow rate up to **300 l/min** (18 m³/h)
- Head up to **26 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of suspended solids up to **Ø 10 mm**
- Suction down to **17 mm** above ground level
- Minimum immersion depth for continuous service: **220 mm**

CONSTRUCTION AND SAFETY STANDARDS

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

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



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.

PATENTS - TRADE MARKS - MODELS

- Patent Pending n. BO2015A000116
- Registered EU Design n. 002501486-0001

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

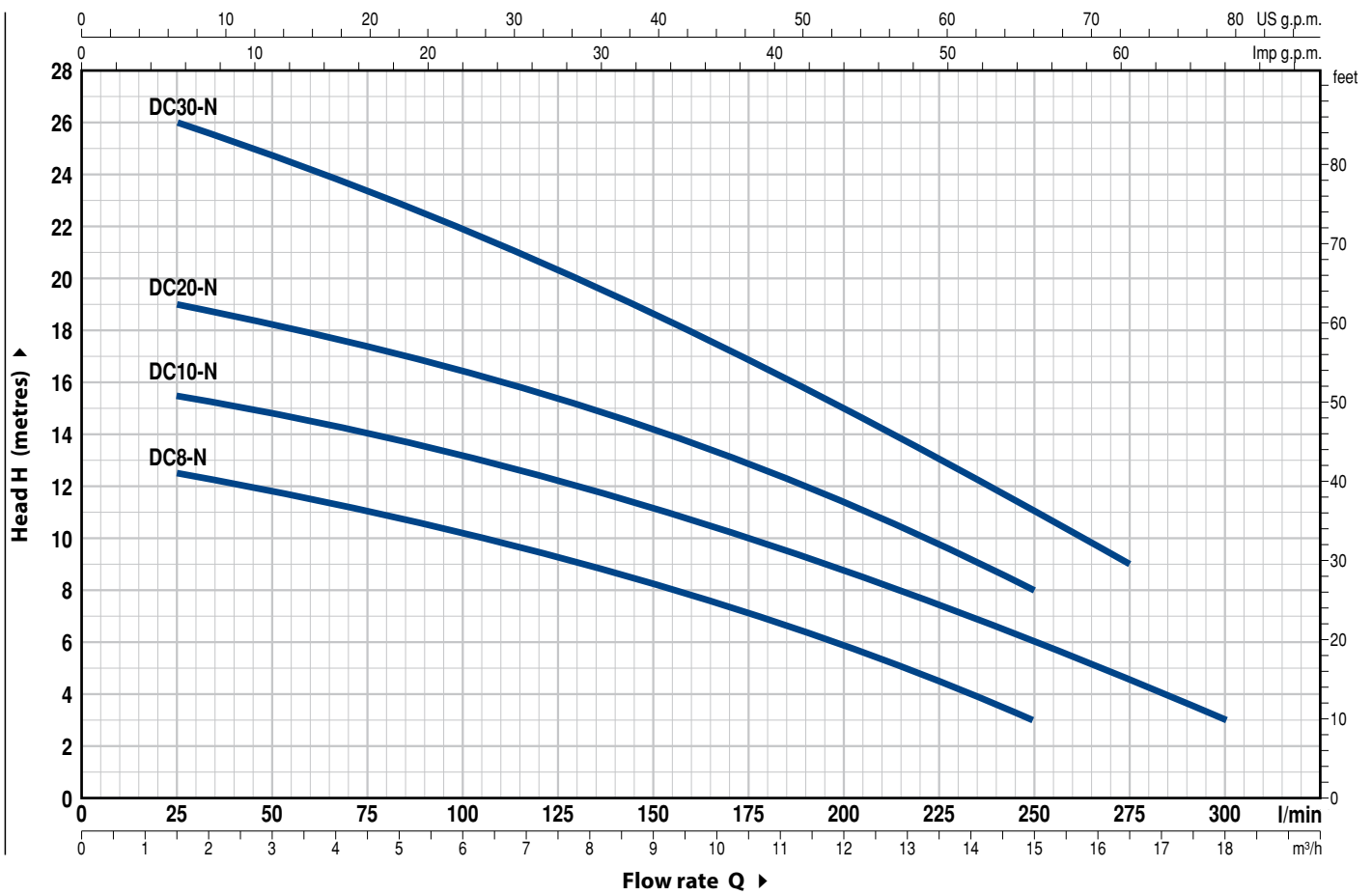
CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT AND SAFETY



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL		POWER (P ₂)		Q	Flow rate																	
Single-phase	Three-phase	kW	HP		m ³ /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	DC 8 -N	0.55	0.75	H metres	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 20-N	DC 20-N	0.75	1		20	19	18.5	17.5	16.5	15.5	14.3	13	11.5	10	8							
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 3B.

POS. COMPONENT

CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron with an Epoxy Electro Coating 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 with an Epoxy Electro Coating 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	Position	Materials		
				Stationary ring	Rotational ring	Elastomer
DC8 -N	MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
DC10-N			Pump side	Silicon carbide	Silicon carbide	NBR
DC20-N						
(Double seal on shaft with a ring seal Ø 16 x Ø 24 x H 5 mm)						
DC30-N	ST1-14 SIC	Ø 14 mm		Ceramic	Silicon carbide	NBR

9 BEARINGS 6203 ZZ / 6203 ZZ

10 CAPACITOR

Pump Model	Capacitance	(110 V)
Single-phase	(230 V or 240 V)	(110 V)
DCm8 -N		
DCm10-N	20 µF 450 VL	30 µF - 250 VL
DCm20-N		
DCm30-N	25 µF 450 VL	-

11 ELECTRIC MOTOR

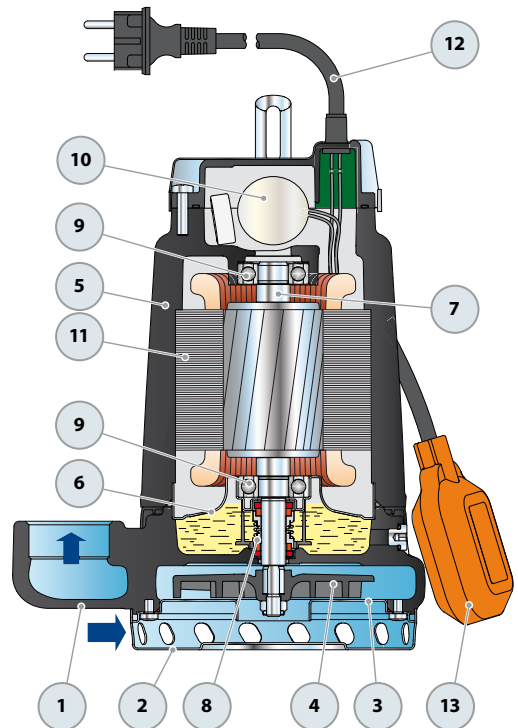
DCm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
DC: three-phase 400 V - 50 Hz
– Insulation: class F
– Protection: IP X8

12 POWER CABLE

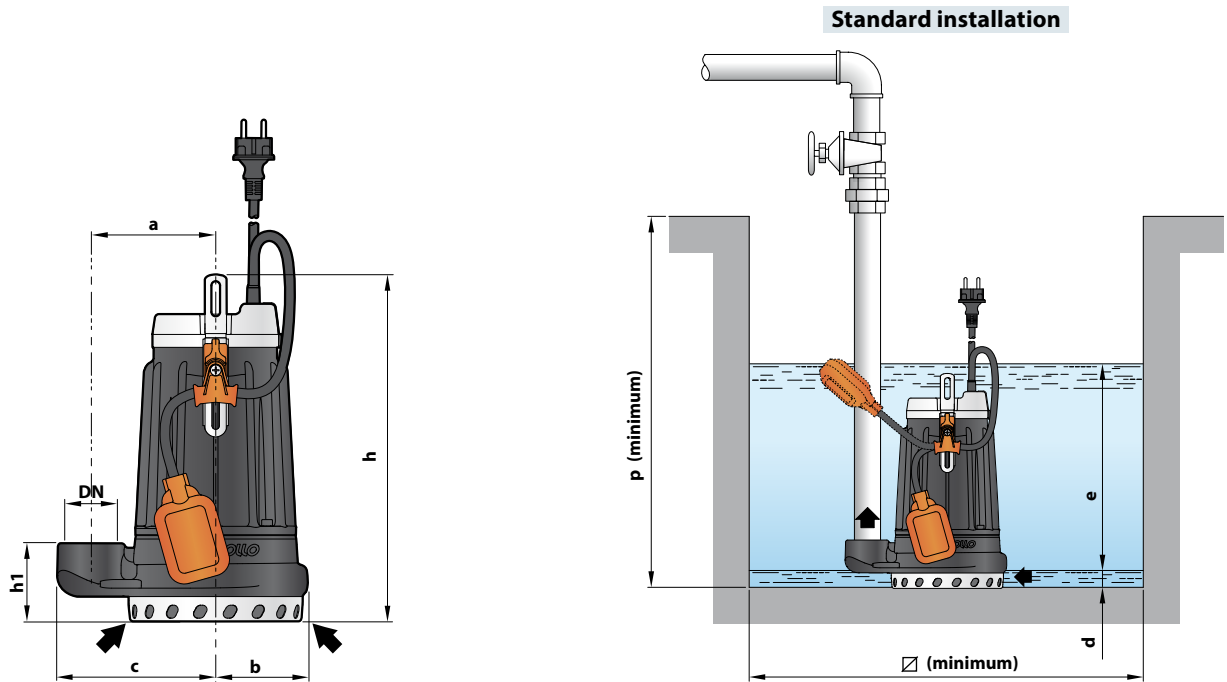
"H07 RN-F" type
(with Schuko plug for single-phase versions only)
Standard length 10 metres

13 FLOAT SWITCH

(only for single-phase versions)



DIMENSIONS AND WEIGHT



MODEL		PORT DN	DIMENSIONS mm									kg	
Single-phase	Three-phase		a	b	c	h	h1	d	e	p	∅	1~	3~
DCm 8 -N	DC 8 -N	1½"	115	85	147	322	72	17	variable	500	500	16.1	15.8
DCm 10-N	DC 10-N											17.2	16.1
DCm 20-N	DC 20-N											17.2	16.1
DCm 30-N	DC 30-N			93		337	84					18.8	17.8

ABSORPTION

MODEL	VOLTAGE		
	Single-phase	230 V	240 V
DCm 8 -N	3.2 A	3.1 A	6.4 A
DCm 10-N	4.7 A	4.5 A	9.4 A
DCm 20-N	5.7 A	5.5 A	11.4 A
DCm 30-N	7.2 A	6.9 A	-

MODEL	VOLTAGE			
	Three-phase	230 V	400 V	240 V
DC 8 -N	2.8 A	1.6 A	2.7 A	1.55 A
DC 10-N	3.5 A	2.0 A	3.4 A	1.95 A
DC 20-N	4.2 A	2.4 A	4.0 A	2.3 A
DC 30-N	5.2 A	3.0 A	5.0 A	2.9 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
DCm 8 -N	DC 8 -N	60	80
DCm 10-N	DC 10-N	60	80
DCm 20-N	DC 20-N	60	80
DCm 30-N	DC 30-N	60	80