



※ **High-quality materials and robust construction ensure superior performance and reliability**



PERFORMANCE RANGE

- Flow rate up to **550 l/min** (33 m³/h)
- Head up to **38 m**

INSTALLATION AND USE

DC submersible pumps are constructed from thick cast iron, offering exceptional robustness, abrasion resistance, and longevity. Perfect for **draining both clear and slightly dirty water**, their durability and reliability set them apart. Designed for automated fixed installations, the **DC** series guarantees continuous operation, even in conditions where they are not fully submerged.

INCLUDES

- ※ Power cable length **10 m**
- ※ Float switch (exclusive to single-phase models)
- ※ Switchbox compatible with DCm42, DCm43 (exclusive to single-phase models)

APPLICATION LIMITS

- Maximum operating depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 10 mm**
- Draining capability up to 25 mm
- Minimum immersion for continuous service: **300 mm**

AVAILABLE UPON REQUEST

- ※ Different voltage requirements 60 Hz frequency

WARRANTY

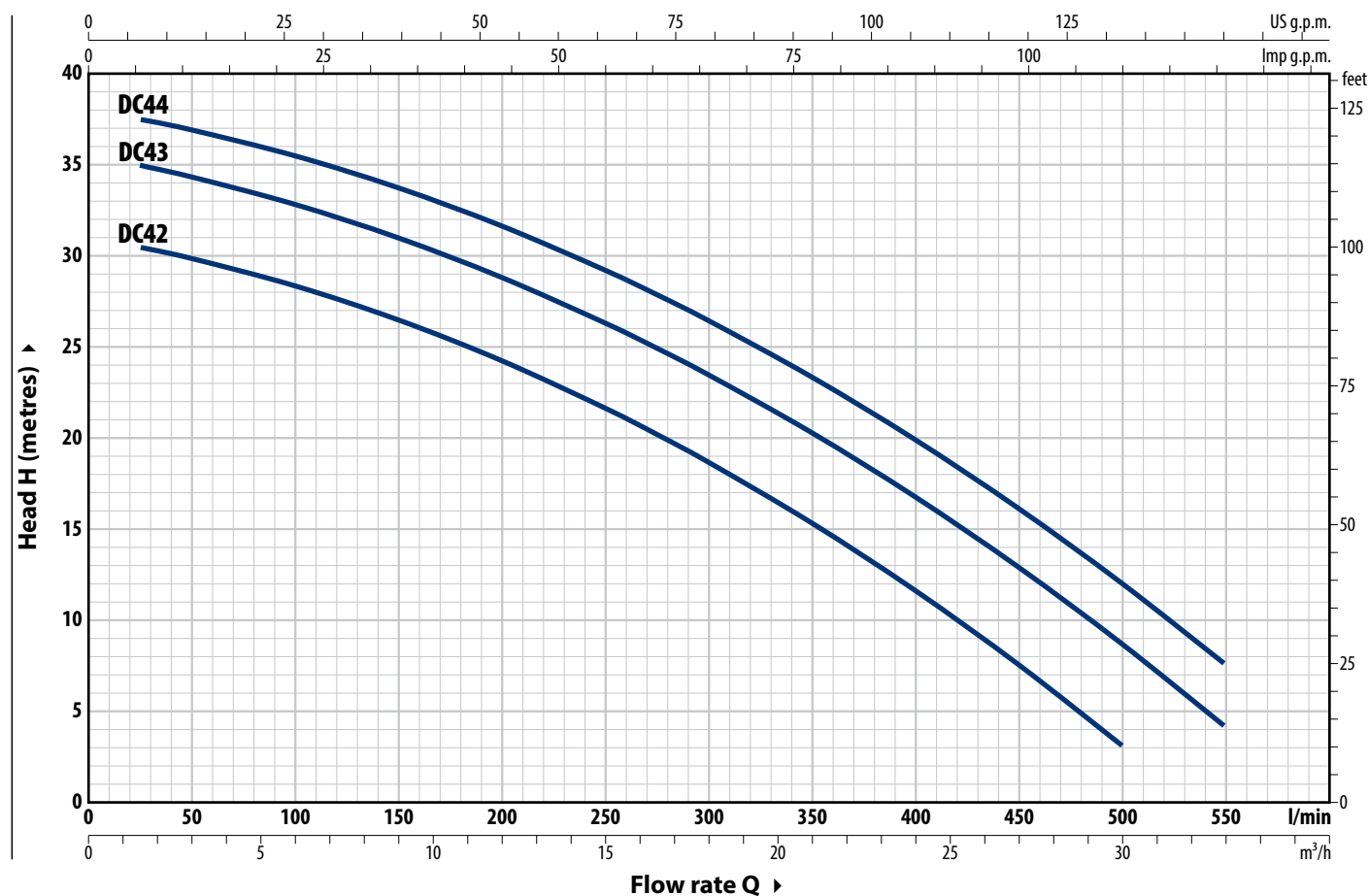
- ※ **The warranty for the three-phase models remains valid only if the motor's built-in thermal protector is properly connected to the control panel. This connection is essential for the warranty's applicability**

PATENTS - TRADE MARKS - MODELS

- Patent No. IT0001428923
- Registered Community Model No. 002501486-0001

CURVES AND PERFORMANCE DATA

50 Hz



MODEL		POWER (P2)		Q	m³/h	0	1.5	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0
Single-phase	Three-phase	kW	HP		l/min	0	25	50	100	150	200	250	300	350	400	450	500	550
DCm 42	DC 42	1.5	2	H m	31	30.5	30	28.4	26.5	24.3	21.6	18.6	15.3	11.6	7.5	3		
DCm 43	DC 43	2.2	3		35.5	35	34.4	33	31	28.8	26.3	23.5	20.3	16.7	12.8	8.5	4	
–	DC 44	3	4		38	37.5	37	35.5	33.7	31.6	29.2	26.4	23.3	20	16	12	7.5	

Q = Flow rate H = Total manometric head

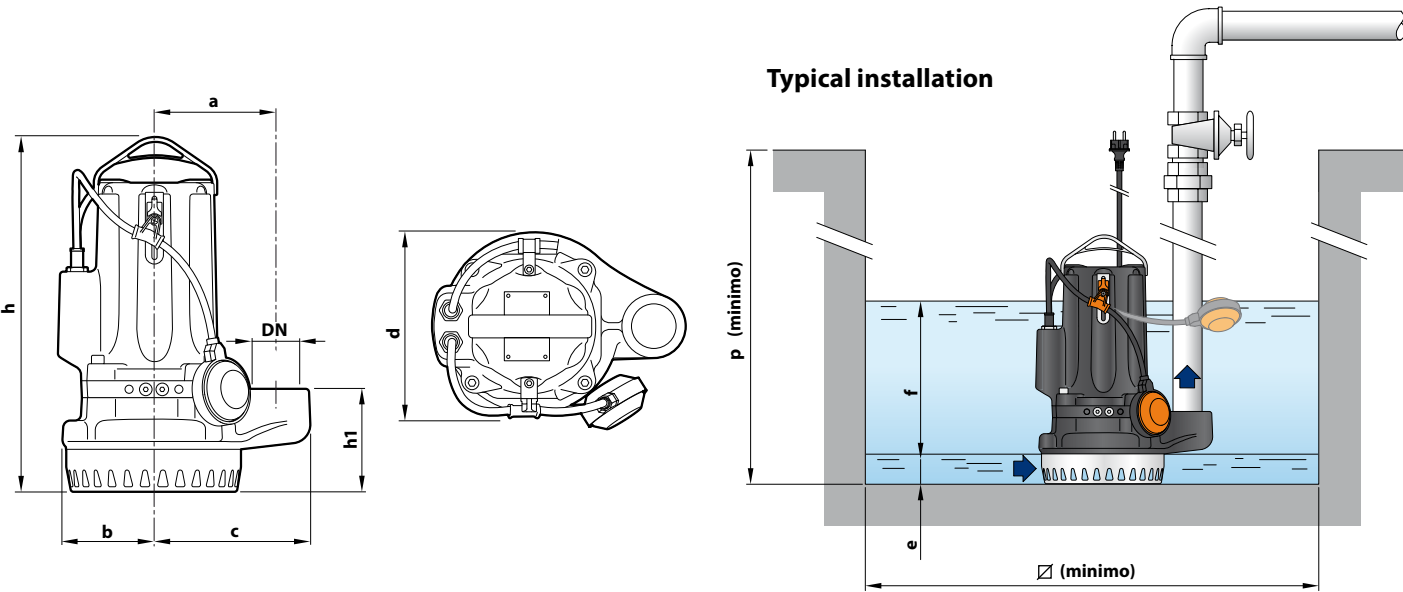
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
DCm 42	13.0 A
DCm 43	16.0 A

MODEL	VOLTAGE
Three-phase	400 V
DC 42	5.2 A
DC 43	6.2 A
DC 44	6.8 A

DIMENSIONS AND WEIGHT



MODEL		PORT DN	DIMENSIONS mm										kg	
Single-phase	Three-phase		a	b	c	d	h	h1	e	f	p	Ø	1~	3~
DCm 42	DC 42	2"	150	112	190	230	434	125	25	adjustable	800	800	42.0	41.0
DCm 43	DC 43						460 434						47.0	42.0
-	DC 44						460						-	47.0

PALLET CAPACITY

MODEL		NO. OF PUMPS n. of pumps
Single-phase	Three-phase	
DCm 42	DC 42	16
DCm 43	DC 43	16
-	DC 44	16

CONSTRUCTION FEATURES

1 Pump body	Cast iron with cataphoresis			
2 Grid	Stainless steel AISI 304			
3 Cover	Cast iron with cataphoresis			
4 Impeller	Stainless steel AISI 304 micro-cast			
5 Motor holder	Cast iron with cataphoresis			
6 Motor cover	Cast iron with cataphoresis			
7 Motor shaft	Stainless steel AISI 431			
8 Double mechanical seal with interposed oil chamber	Seal	Shaft	Location	Materials
	STA-24	Ø 24 mm	Motor side	Ceramic / Graphite / NBR
	STA-22 SIC	Ø 22 mm	Pump side	SiC / SiC / NBR
9 Electric motor	DCm :single-phase 230 V - 50 Hz with thermal motor protection DC: three-phase 400 V - 50 Hz <u>with winding integrated thermal motor protection to be connected to the control panel</u> – Insulation: class F – Protection rating: IP X8			
10 Power cord	Type "H07 RN-F" (Schuko plug exclusive to single-phase models) ※ Standard length 10 metres			
11 Float switch	(exclusive to single-phase models)			
12 Switch cabinet	(exclusive to single-phase models)			
13 Tilting device for the float cable	(exclusive to single-phase models) Patent n. IT0001428923			

Switch cabinet
(exclusive to single-phase)

