

-  Sewage
-  Domestic use
-  Civil use
-  Industrial use

※ BC: The Ultimate Pump for Demanding Conditions and Maximum Performance



PERFORMANCE RANGE

- Flow rate up to **850 l/min** (51 m³/h)
- Head up to **17 m**

INSTALLATION AND USE

BC submersible pumps are designed to drain **dirty and sewage water** in **domestic, civil, and industrial settings**. Featuring a **TWO-CHANNEL** stainless steel impeller, they can efficiently pump liquids containing suspended solids up to **50 mm in diameter** with short fibers and handle wastewater, sewage, surface water, and sludge-mixed water in residential properties.

※ The **TWO-CHANNEL** impeller provides excellent performance and high energy efficiency, generating increased pressure for pumping solids up to **50 mm in diameter**, making it the best choice for wastewater drainage.

INCLUDES

- ※ Power cable length:
 - **5 m** for BC 10
 - **10 m** for BC 15 and BC 20
- ※ Float switch (exclusive to single-phase models)

APPLICATION LIMITS

- Depth below water level up to **5 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Capable of processing suspended solids up to **Ø 50 mm**
- **Minimum immersion for continuous service:**
 - **290 mm for BC 10/50**
 - **330 mm for BC 15/50**
 - **360 mm for BC 20/50**

AVAILABLE UPON REQUEST

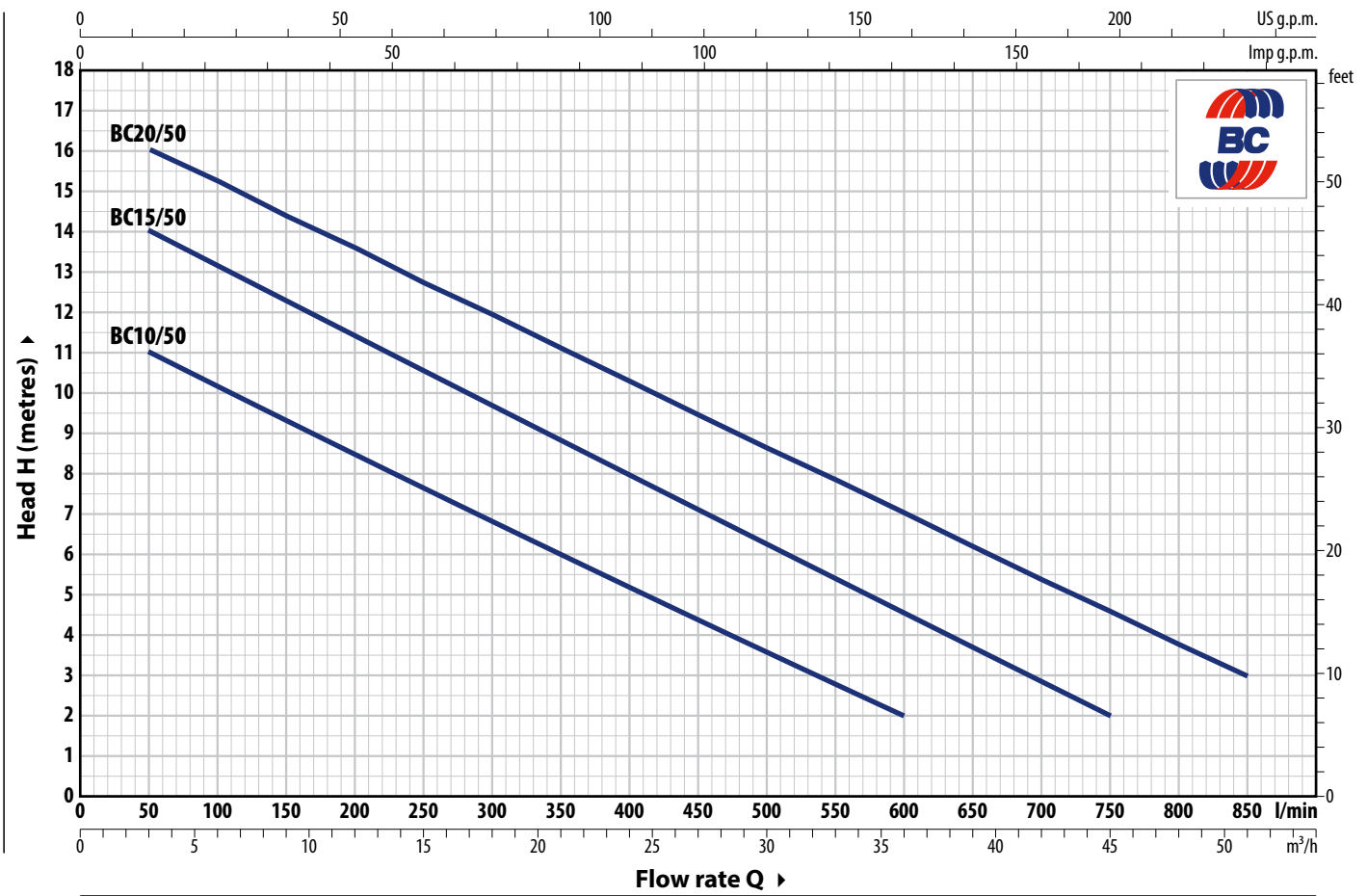
- ※ Pumps with **10 m** power cable for BC 10
- ※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P ₂)		Q	Flow rate														
Single-phase	Three-phase	kW	HP		m ³ /h	0	3	6	12	18	24	30	36	42	45	51			
				l/min	0	50	100	200	300	400	500	600	700	750	850				
BCm 10/50	BC 10/50	0.75	1	H metres	12	11	10	8.5	7	5	3.6	2							
BCm 15/50	BC 15/50	1.1	1.5		15	14	13	11.5	9.7	8	6.3	4.6	3	2					
BCm 20/50	BC 20/50	1.5	2		17	16	15.3	13.5	12	10.3	8.6	7.0	5.3	4.5	3				

Q = Flow rate H = Total manometric head

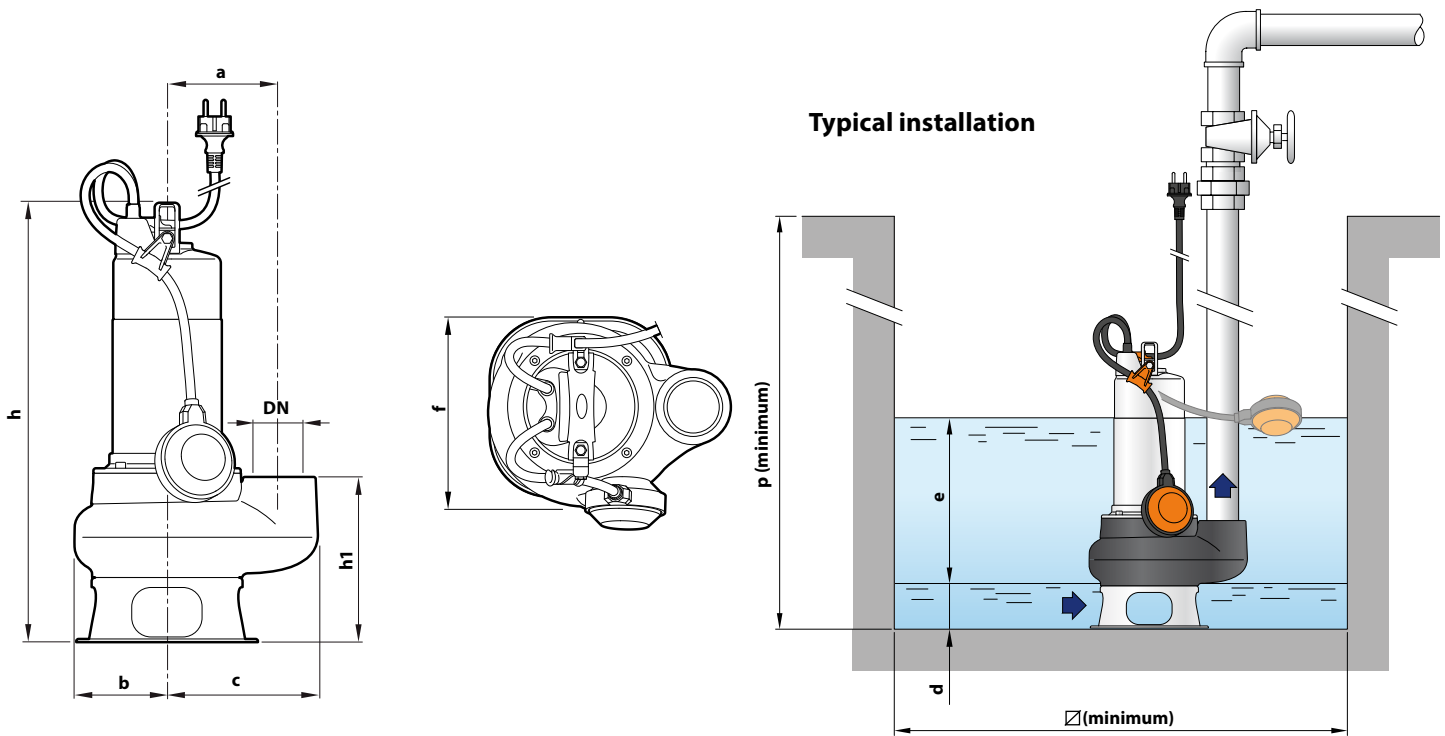
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
BCm 10/50	5.5 A
BCm 15/50	8.0 A
BCm 20/50	10.0 A

TYPE	VOLTAGE
Three-phase	400 V
BC 10/50	2.2 A
BC 15/50	3.1 A
BC 20/50	3.9 A

DIMENSIONS AND WEIGHT



TYPE		PORT DN	Passage of solid bodies	DIMENSIONS mm										kg	
Single-phase	Three-phase			a	b	c	f	h	h1	d	e	p	Ø	1~	3~
BCm 10/50	BC 10/50	2"	Ø 50 mm	115	95	155	200	451	169	60	adjustable	500	500	16.2	15.0
BCm 15/50	BC 15/50							484						18.8	17.2
BCm 20/50	BC 20/50							514						21.0	18.8

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-phase	Three-phase	
BCm 10/50	BC 10/50	45
BCm 15/50	BC 15/50	30
BCm 20/50	BC 20/50	30

MATERIALS AND COMPONENTS

1 Pump body	Cast iron with cathoporesis treatment for greater corrosion resistance with ISO 228/1 threaded port		
2 Base	Stainless steel AISI 304		
3 Impeller	TWO-CHANNEL type in micro-cast AISI 304 stainless steel.		
4 Motor sleeve	Stainless steel AISI 304		
5 Motor cover	AISI 304 stainless steel for BC 10/50 Cast iron with cathoporesis treatment for BC 15/50, BC 20/50		
6 Motor shaft	Stainless steel AISI 431		
7 Double mechanical seal in oil chamber			
Seal	Shaft	Location	Materials
MG1-14D SIC	Ø 14 mm	Motor side Pump side	Silicon carbide / Graphite / NBR Silicon carbide/Silicon carbide/NBR
8 Capacitor	(exclusive to single-phase models)		
9 Electric motor	<p>BCm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection</p> <p>BC: three-phase 400 V - 50 Hz</p> <p>– Insulation: class F</p> <p>– Protection rating: IP X8</p>		
10 Power cord	<p>Power cable encapsulated with epoxy resin both in the grommet area and where the conductors exit the sheath, for absolute insulation against moisture and water.</p> <p>Type 'H07 RN-F (Schuko plug exclusive to single-phase models)</p> <p>※ Standard length 5 metres (10 metres for BC 15 and BC 20)</p>		
11 Float switch	(exclusive to single-phase models)		
12 Tilting device for the float cable	(exclusive to single-phase models) Patent No. IT0001428923		
13 Power cable strain relief	Patent No. EP2313658		

