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 m^3/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

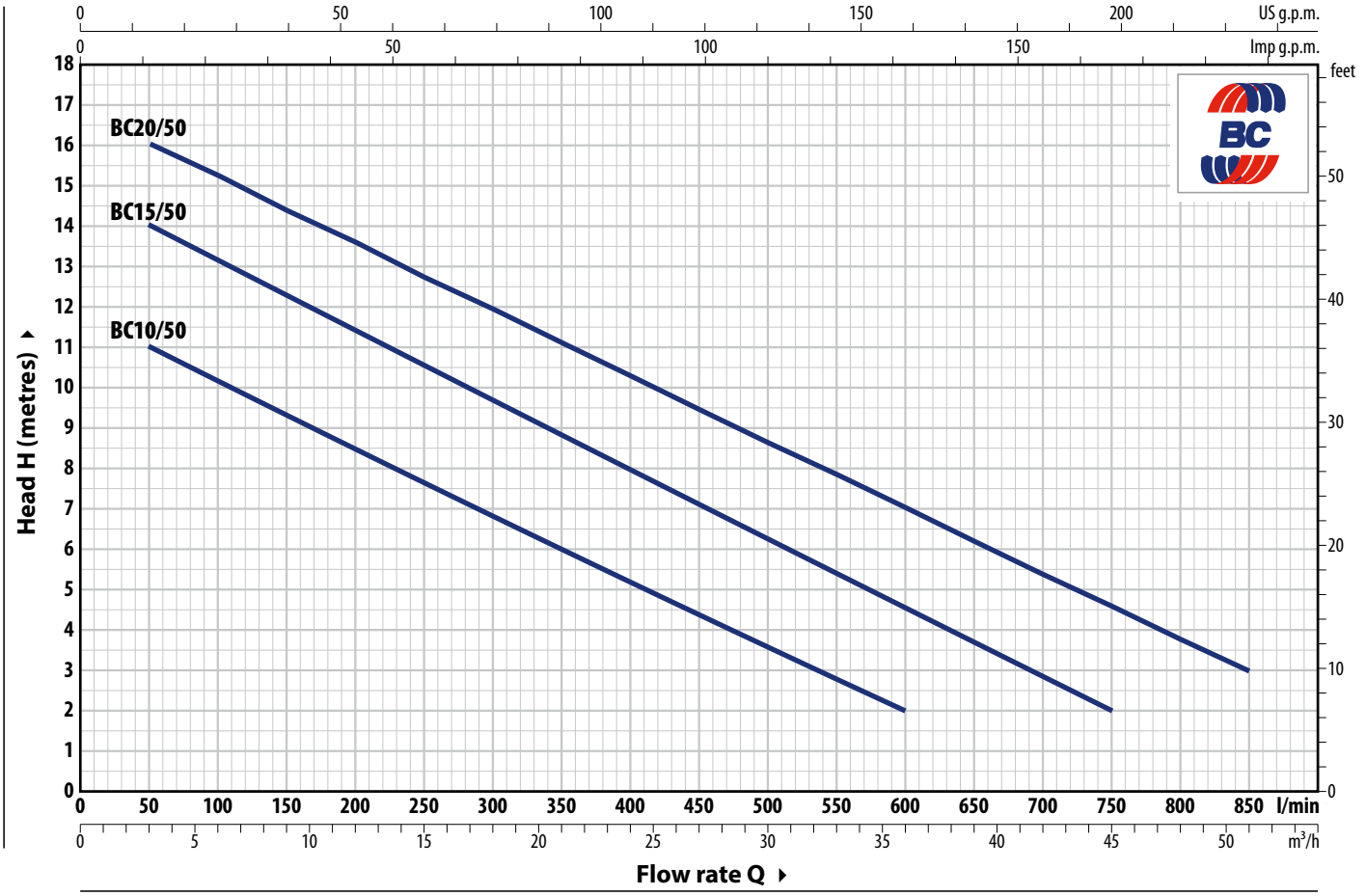
※ Pumps with **10 m** power cable for BC 10
※ Different voltage requirements 60 Hz frequency

PATENTS - TRADE MARKS - MODELS

- Patent No. EP2313658
- Patent No. IT0001428923

CURVES AND PERFORMANCE DATA

50 Hz



TYPE		POWER (P2)		Q m³/h	0	3	6	12	18	24	30	36	42	45	51
Single-phase	**Three-phase**	**kW**	**HP**	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

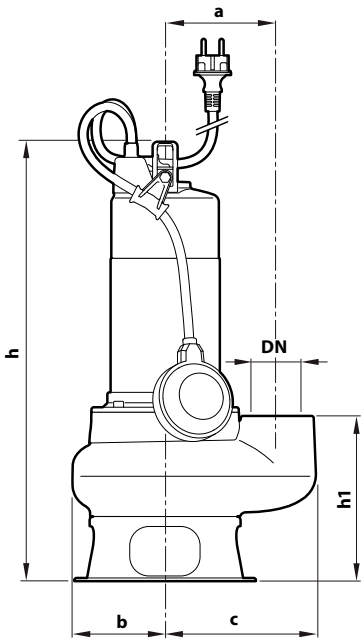
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

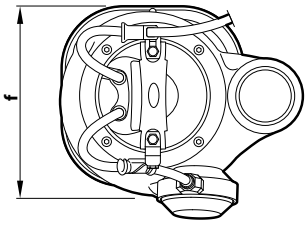
ABSORPTION

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

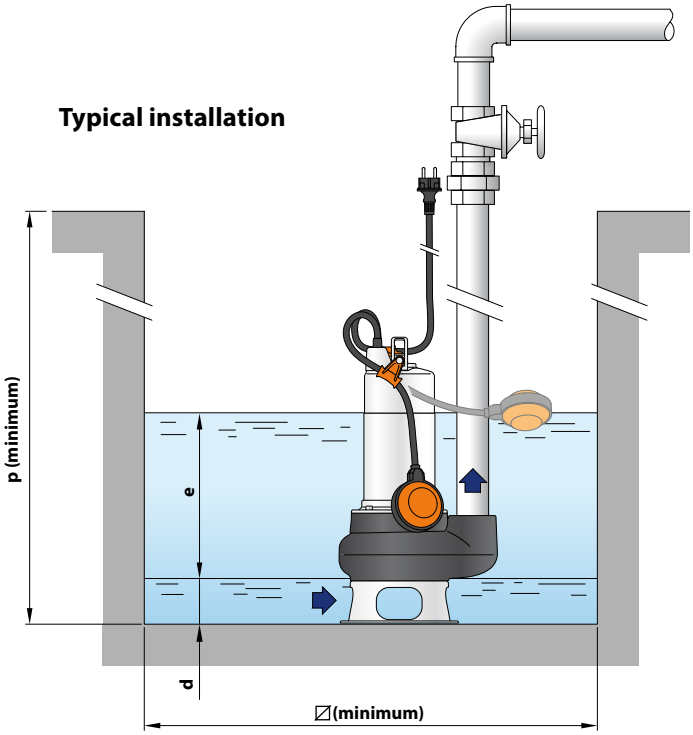
TYPE **Three-phase**	VOLTAGE **400 V**
BC 10/50	2.2 A
BC 15/50	3.1 A
BC 20/50	3.9 A

DIMENSIONS AND WEIGHT





Typical installation



TYPE		PORT	Passage of solid bodies	DIMENSIONS mm										kg	
Single-phase	**Three-phase**	**DN**		a	b	c	f	h	h1	d	e	p	⍁	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 cataphoresis 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 cataphoresis 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	Silicon carbide / Graphite / NBR
		Pump side	Silicon carbide/Silicon carbide/NBR

8 Capacitor (exclusive to single-phase models)

9 Electric motor

BCm: single-phase 230 V - 50 Hz with winding integrated thermal motor protection
BC: three-phase 400 V - 50 Hz
– Insulation: class F
– Protection rating: IP X8

10 Power cord

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.

Type 'H07 RN-F
(Schuko plug exclusive to single-phase models)
※ Standard length 5 metres (10 metres for BC 15 and BC 20)

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