Datablad

# BC 15/50-N kanalhjul avloppspump

| Artikelnr | Beteckning |
|---|---|
| 104141 | BC 15/50-N:1,1/3x400/G50 |

| Installation | |
|---|---|
| Höjd | 446 mm |
| Bredd | 250 mm |
| Längd | 190 mm |
| Vikt | 15,2 kg |
| Styrning | Manuell |
| Ansl. ut | G50 inv |

| Elektrisk Data | |
|---|---|
| Effekt | 1,10 kW |
| Märkström | 3,2 A |
| Spänning | 3x400 |

| Övrigt | |
|---|---|
| Max Tryck | 15 mVp |
| Max Flöde | 12,5 l/sek |




PEDROLLO BC-N är en serie högeffektiva, dränkbara avloppspumpar med pumphus tillverkad i gjutjärn och motorkåpa av rostfritt stål, samt horisontellt utlopp.

Pumphjul av dubbelkanal typ säkerställer problemfri hantering av svart-, BDT-, gråoch dränvatten med fritt genomlopp på upp till 50 mm som tillåter passage av stora partiklar.

BC-N-serien lämpar sig väl till pumpning från dräneringsbrunn, restaurangkök eller hushållsavlopp, under kortare sträckor.

Dubbla axeltätning i kiselkarbid säkerställer en lång livslängd.

Snabbfakta:

- Stort genomlopp – Stora partiklar.
- Gjutet pumphus i gjutjärn.
- Pressat motorhus av rostfritt stål.
- Tillverkad i Italien.

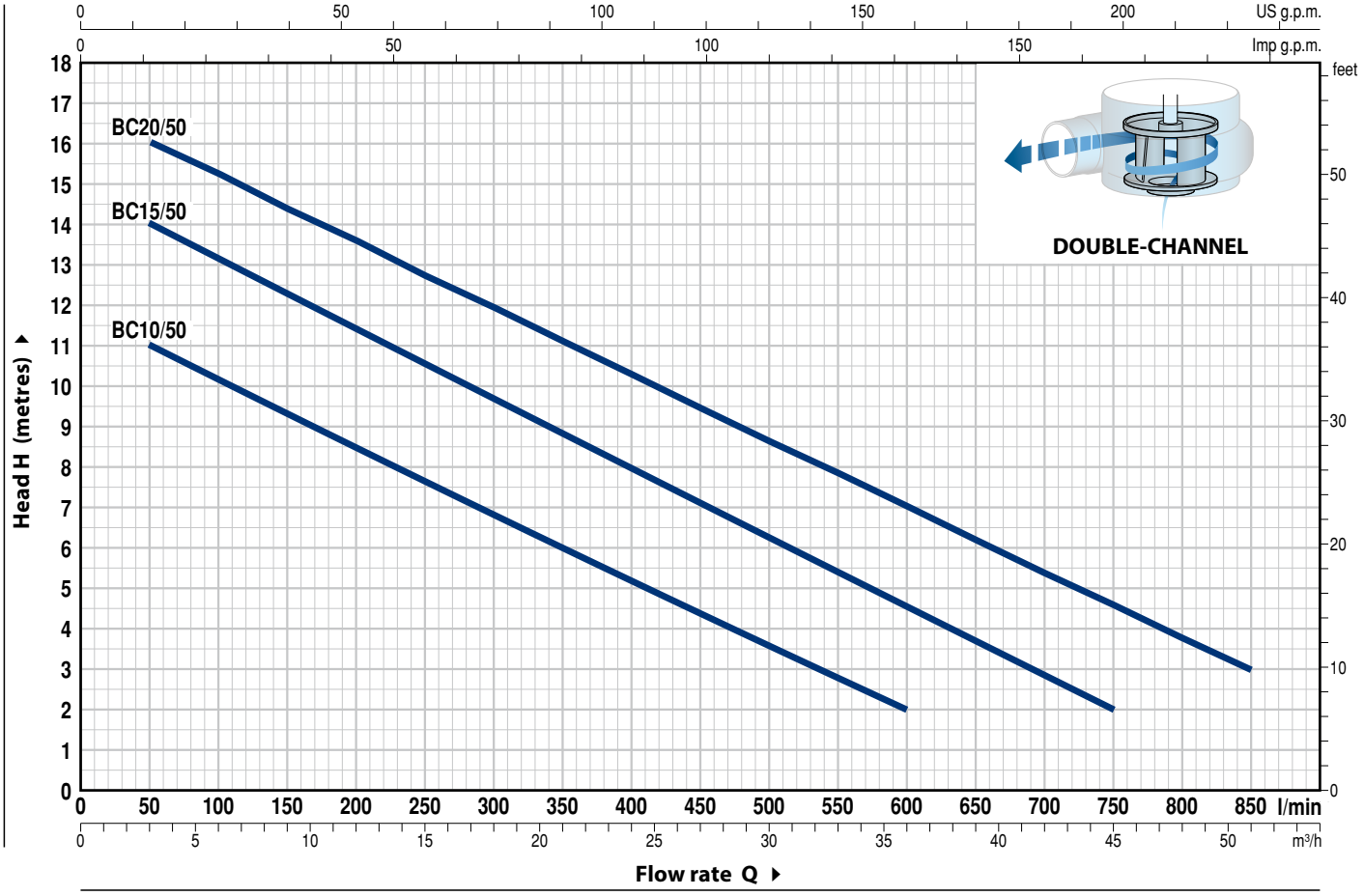

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## CHARACTERISTIC CURVES AND PERFORMANCE DATA

**50 Hz n= 2900 min$^{-1}$**




| MODEL | | 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 | 2.9 | 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

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 for a greater resistance to corrosion, with threaded port in compliance with ISO 228/1 |
| 2 | **BASE** | Stainless steel AISI 304 |
| 3 | **IMPELLER** | DOUBLE CHANNEL type AISI 304 micro-cast stainless steel.<br>The DOUBLE CHANNEL impeller permits one to obtain an excellent performance and a high energy efficiency, developing a greater pressure and guaranteeing the pumping of solid bodies with a diameter of up to 50 mm. Undoubtedly the best solution for the drainage of waste water. |
| 4 | **MOTOR CASING** | Stainless steel AISI 304 |
| 5 | **MOTOR CASING PLATE** | Stainless steel AISI 304 for **BC 10/50**<br>Cast iron with an Epoxy Electro Coating treatment for **BC 15/50, BC 20/50** |
| 6 | **MOTOR SHAFT** | Stainless steel AISI 431 |

**7 DOUBLE MECHANICAL SEAL IN OIL CHAMBER**

| ***Seal*** | ***Shaft*** | *Position* | | *Materials* | |
|---|---|---|---|---|---|
| ***Model*** | ***Diameter*** | | *Stationary ring* | *Rotational ring* | *Elastomer* |
| **MG1-14D SIC** | **Ø 14** mm | Motor side | Silicon carbide | Graphite | NBR |
| | | Pump side | Silicon carbide | Silicon carbide | NBR |

Double mechanical seal with an intermediate oil chamber, with silicon carbide chute slides for a greater resistance to abrasion and wear and for a longer life of the pump.

**8 BEARINGS**

| ***Pump*** | ***Model*** |
|---|---|
| **BC 10/50** | **6203 ZZ / 6203 ZZ** |
| **BC 15/50, BC 20/50** | **6303 2RS - C3 / 6203 ZZ** |

**9 CAPACITOR** **EN 60252-1/A1**

(only for single-phase versions)

**10 ELECTRIC MOTOR**

Electric motors produced to a high quality standard, subjected to the most rigorous checks to ensure excellent insulation. The impregnation of the winding, achieved with high quality resins, is followed by treatment in an oven for up to eight hours, thus ensuring the long working life of the motor.

**BCm**: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
**BC**: three-phase 400 V - 50 Hz

– Insulation: class F
– Protection: IP X8

**11 POWER CABLE**

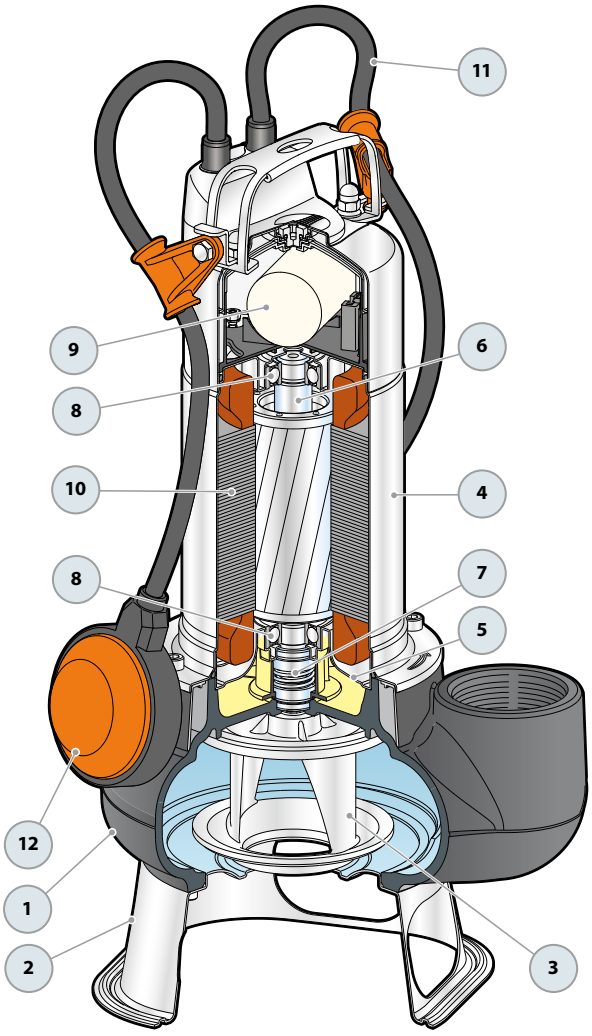
Power cable encapsulated in epoxy resin both in the area of the grommets and at the point where the wires exit the sheath, resulting in an absolute insulation from moisture and water infiltration.

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

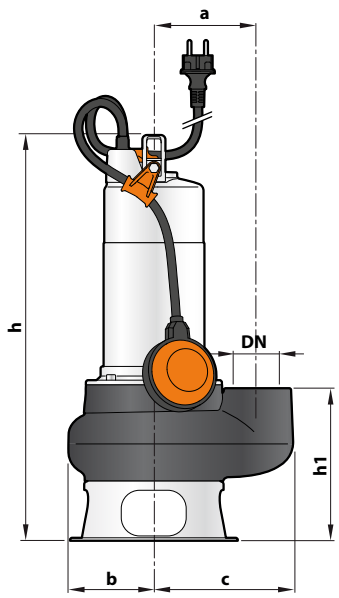
**Standard length:**
– **5 metri** for BC 10/50,
– **10 metri** for BC 15/50, BC 20/50

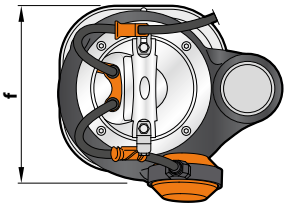
**12 FLOAT SWITCH**

(only for single-phase versions)

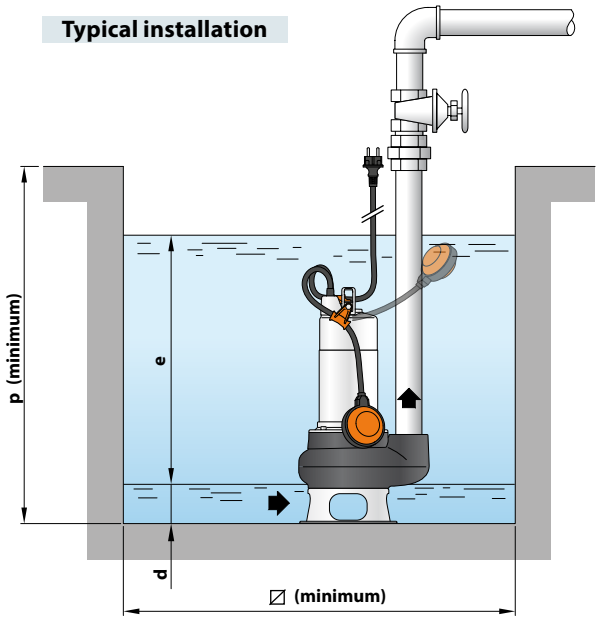


## DIMENSIONS AND WEIGHT




**Typical installation**




| MODEL | | PORT | Passage of solids | 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** | | | | | | | 451 | | | | | | **16.2** | **15.0** |
| **BCm 15/50** | **BC 15/50** | **2"** | Ø 50 mm | 115 | 95 | 155 | 200 | 484 | 169 | 60 | variable | 500 | 500 | **18.8** | **17.2** |
| **BCm 20/50** | **BC 20/50** | | | | | | | 514 | | | | | | **21.0** | **18.8** |

## ABSORPTION

| MODEL | VOLTAGE | |
|---|---|---|
| Single-phase | 230 V | 240 V |
| **BCm 10/50** | **5.5** A | **5.4** A |
| **BCm 15/50** | **8.0** A | **7.8** A |
| **BCm 20/50** | **10.0** A | **9.8** A |

| MODEL | VOLTAGE | | | |
|---|---|---|---|---|
| Three-phase | 230 V | 400 V | 240 V | 415 V |
| **BC 10/50** | **3.8** A | **2.2** A | **3.6** A | **2.1** A |
| **BC 15/50** | **5.3** A | **3.1** A | **5.1** A | **2.9** A |
| **BC 20/50** | **6.7** A | **3.9** A | **6.5** A | **3.7** A |

## CAPACITORS

| MODEL | CAPACITANCE |
|---|---|
| Single-phase | (230 V or 240 V) |
| **BCm 10/50** | **25** µF 450 VL |
| **BCm 15/50** | **35** µF 450 VL |
| **BCm 20/50** | **35** µF 450 VL |


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