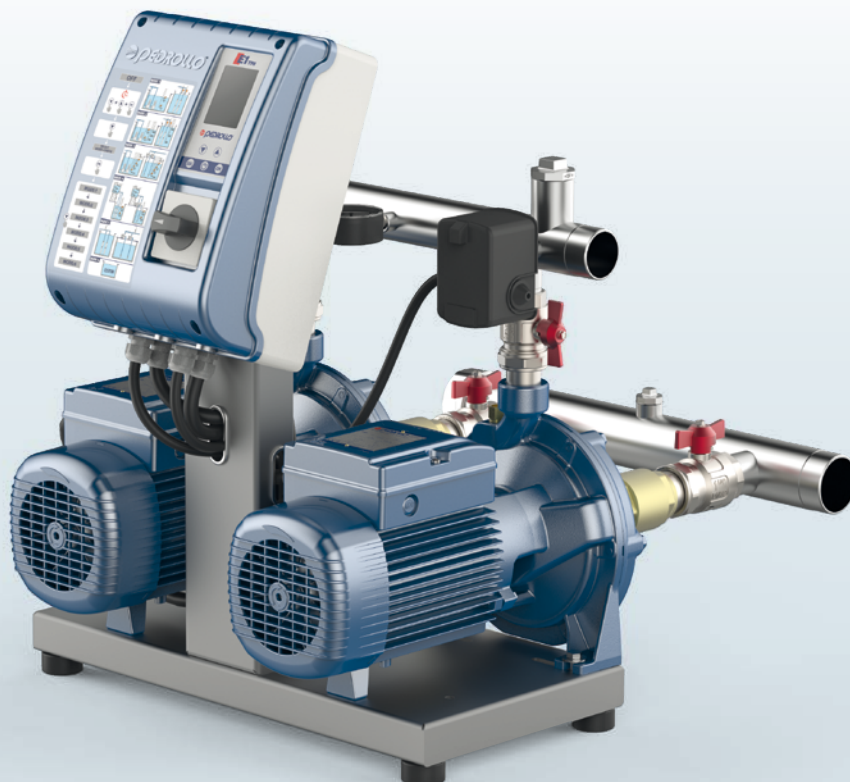




 Domestic use

 Civil use

 Industrial use

 Agricultural use

### INSTALLATION AND USE

**CB2** is a pre-assembled pumping system comprising two pumps, designed for water supply and pressurization in residential, commercial, public buildings, hotels, hospitals, as well as for garden and agricultural irrigation.

**CB2** is suitable for pumping clean water or aqueous solutions that do not chemically or mechanically damage the materials used and do not contain abrasive or fibrous substances.

### PRODUCT DESCRIPTION

**CB2** is a pressurization system featuring two pumps assembled in a unit, ready for connection to the water mains or a primary collection tank.

Controlled by mechanical pressure switches, **CB2** ensures automatic activation of one or both pumps in response to increased user demand, optimizing water supply and minimizing electricity consumption. The system's electronic circuitry facilitates automatic pump switching during start/stop cycles and provides protection against potential faults.

### COMPONENTS

- ※ **Pumps** connected in parallel via suction and discharge manifolds. Each unit is equipped with ball valves on the discharge and suction side, non-return valves on the suction side (with 2CP, 3-5CR, FCR, MK pumps) or on the discharge side (with HT pumps).
- ※ **BASE** made of metal profile and fitted with adjustable vibration-damping feet.
- ※ **PRESSURE SWITCHES** mounted on the delivery manifold and connected to the control panel for switching the pumps on and off according to regulation.
- ※ **ELECTRONIC CONTROL PANEL** (model **E2**) provides protection against dry running by monitoring electrical parameters and allows advanced users to adjust settings to tailor the operation of the pressure unit to specific system requirements.
- ※ Power supply:
  - **CB2m**: single-phase 230 V - 50 Hz
  - **CB2**: three-phase 400 V - 50 Hz



### CB2 – 2CP

Pressurization units comprising two twin impeller centrifugal pumps, designed to enhance water pressure. Ideal for both residential and commercial water supply applications, they are well-suited for large-scale garden and agricultural irrigation. They also excel at handling clean water in various industrial settings.

#### TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+60 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in the pump body **10 bar** (6 bar for 2CP25/130)
- Continuous running duty **S1**



### CB2 – FCR

Pressurization units comprising two horizontal multistage centrifugal pumps.

Especially well-suited for residential and commercial water supply, industrial pressure boosting, and garden and field irrigation.

#### TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+60 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar** (for FCR 80-100 7 bar)
- Continuous running duty **S1**



### CB2 – MK

Pressurization units comprising two vertical multistage centrifugal pumps.

They are suitable for residential and commercial water supply, garden irrigation and general clean water handling.

#### TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+60 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in pump body **11 bar**
- Continuous running duty **S1**



### CB2 – HT

Pressurization units comprising two vertical multistage centrifugal pumps.

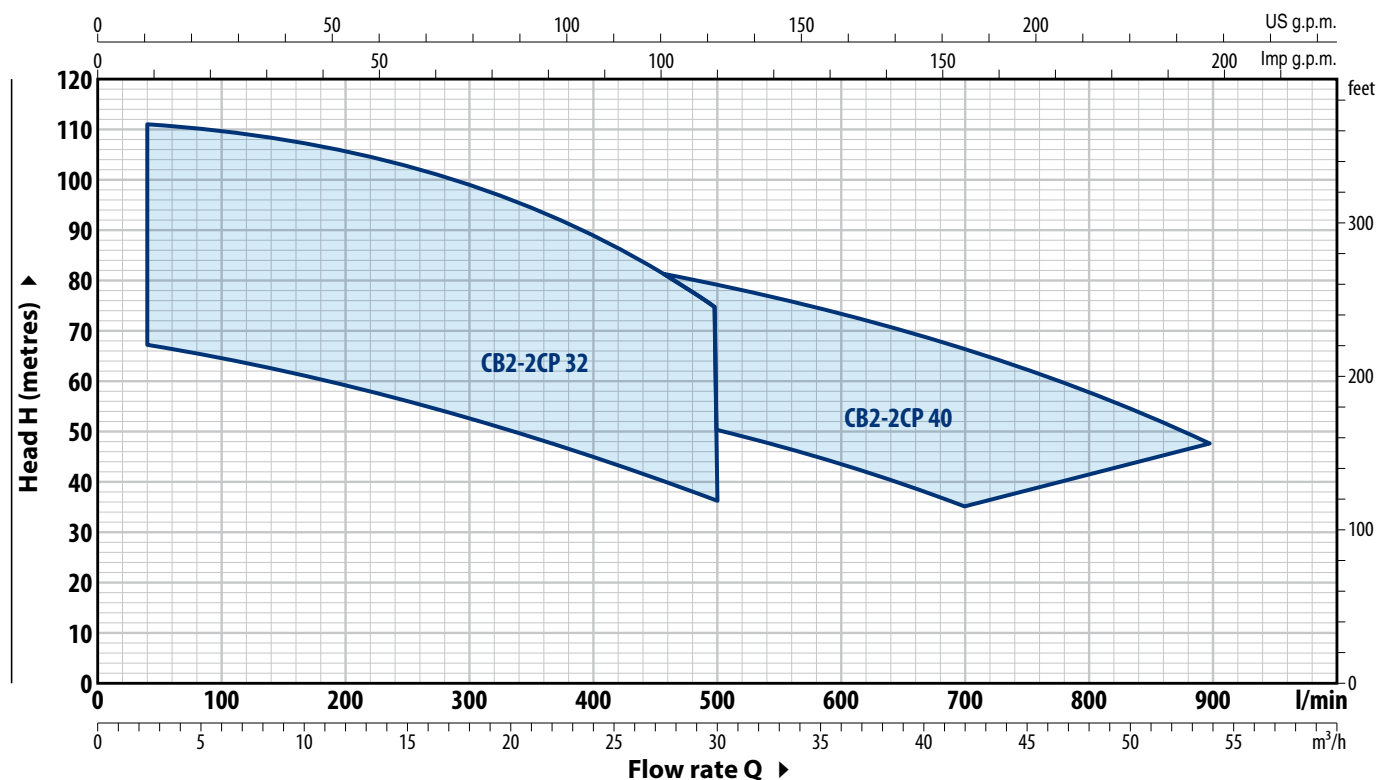
They are well-suited for residential and commercial water supply, irrigation, and general clean water handling, including industrial applications

#### TECHNICAL DATA

- Liquid temperature between **+5 °C** and **+60 °C**
- Ambient temperature between **+5 °C** and **+40 °C**
- Max. pressure in the pump body **16 bar**
- Continuous running duty **S1**

## FIELD AND PERFORMANCE DATA

**50 Hz**



| MODEL<br>Three-phase | POWER P <sub>2</sub> |       | Q<br>m <sup>3</sup> /h<br>l/min | 0   | 2.4 | 4.8 | 7.2 | 9.6 | 12.0 | 14.4 | 16.8 | 19.2 | 21.6 | 24.0 | 30.0 |
|----------------------|----------------------|-------|---------------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
|                      | kW                   | HP    |                                 | 0   | 40  | 80  | 120 | 160 | 200  | 240  | 280  | 320  | 360  | 400  | 500  |
| CB2 - 2CP 32/200C    | 2x3                  | 2x4   | H <sub>m</sub>                  | 70  | 67  | 67  | 65  | 63  | 60.5 | 58   | 55   | 52   | 48.5 | 45.5 | 36   |
| CB2 - 2CP 32/200B    | 2x4                  | 2x5.5 |                                 | 85  | 81  | 81  | 79  | 77  | 74.5 | 71.5 | 69   | 66   | 62.5 | 59   | 49   |
| CB2 - 2CP 32/210B    | 2x5.5                | 2x7.5 |                                 | 94  | 94  | 94  | 93  | 91  | 89   | 86   | 83   | 79   | 75   | 70   | 56   |
| CB2 - 2CP 32/210A    | 2x7.5                | 2x10  |                                 | 112 | 111 | 111 | 110 | 109 | 107  | 105  | 102  | 99   | 95   | 90   | 74   |

| MODEL<br>Three-phase | POWER P <sub>2</sub> |       | Q<br>m <sup>3</sup> /h<br>l/min | 0  | 6   | 12  | 18   | 24   | 30   | 36   | 42  | 48  | 54  |
|----------------------|----------------------|-------|---------------------------------|----|-----|-----|------|------|------|------|-----|-----|-----|
|                      | kW                   | HP    |                                 | 0  | 100 | 200 | 300  | 400  | 500  | 600  | 700 | 800 | 900 |
| CB2 - 2CP 40/180C    | 2x4                  | 2x5.5 | H <sub>m</sub>                  | 65 | 63  | 63  | 60   | 55.5 | 50   | 43   | 35  |     |     |
| CB2 - 2CP 40/180B    | 2x5.5                | 2x7.5 |                                 | 80 | 78  | 78  | 75   | 71   | 65.5 | 59   | 51  | 42  |     |
| CB2 - 2CP 40/180A    | 2x7.5                | 2x10  |                                 | 92 | 90  | 90  | 87.5 | 84   | 79   | 73.5 | 66  | 58  | 48  |

Q = Flow rate H = Total manometric head

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

✘ The data shown in the diagram and tables indicate performance with 2 pumps in operation

## ABSORPTION

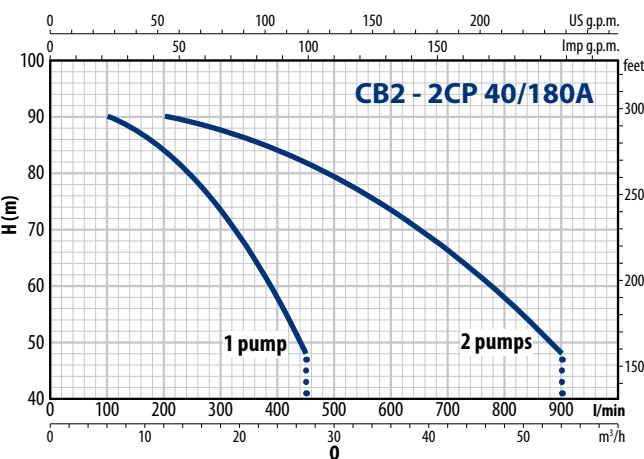
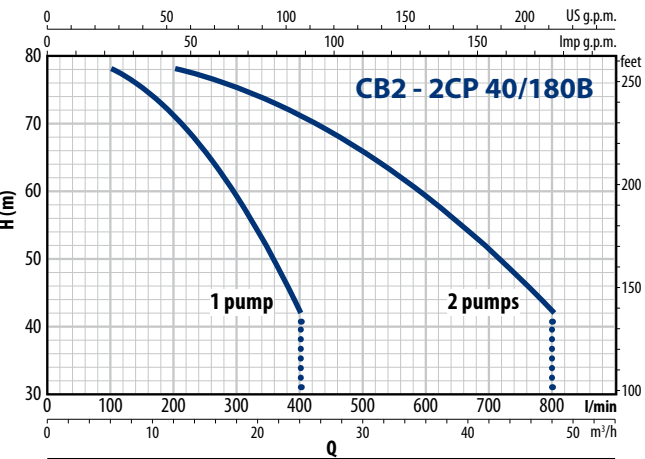
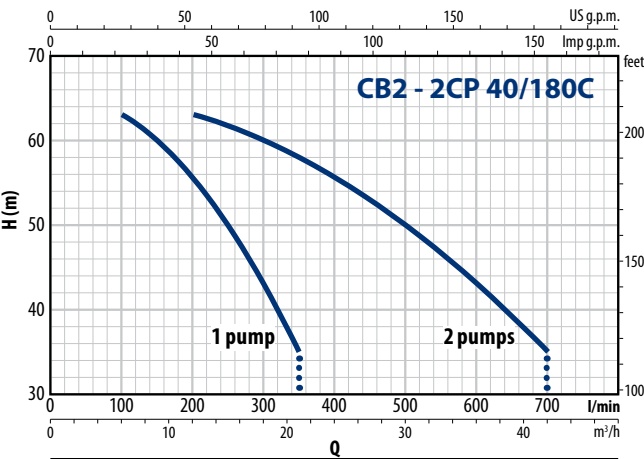
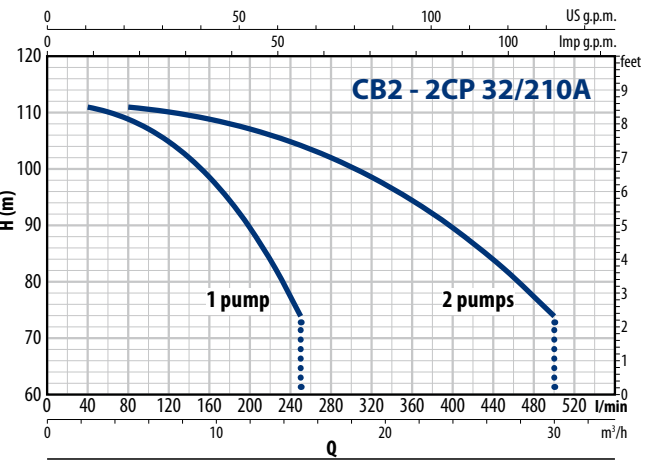
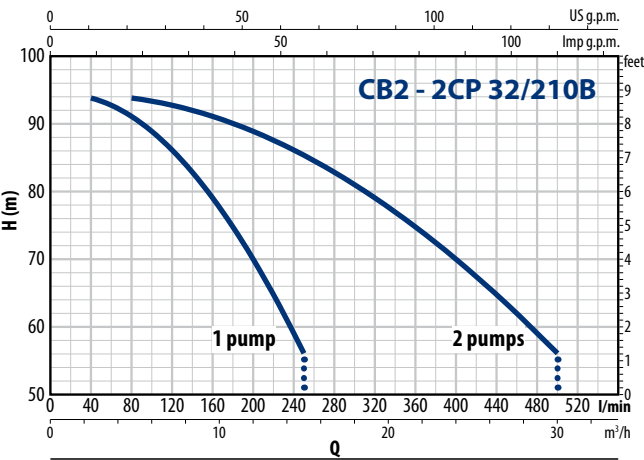
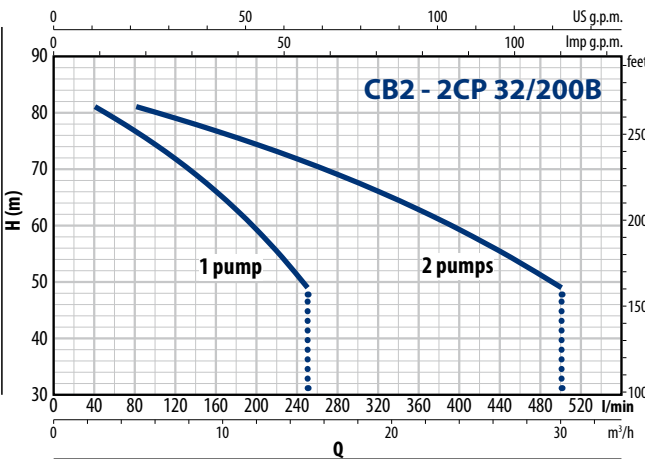
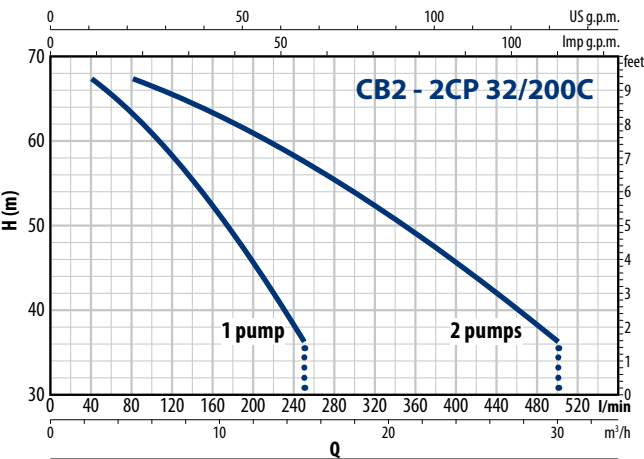
| MODEL<br>Three-phase | VOLTAGE<br>400 V |
|----------------------|------------------|
| CB2 - 2CP 32/200C    | 2 x 7.4 A        |
| CB2 - 2CP 32/200B    | 2 x 10.5 A       |
| CB2 - 2CP 32/210B    | 2 x 12.5 A       |
| CB2 - 2CP 32/210A    | 2 x 16.0 A       |

| MODEL<br>Three-phase | VOLTAGE<br>400 V |
|----------------------|------------------|
| CB2 - 2CP 40/180C    | 2 x 9.8 A        |
| CB2 - 2CP 40/180B    | 2 x 12.3 A       |
| CB2 - 2CP 40/180A    | 2 x 15.4 A       |

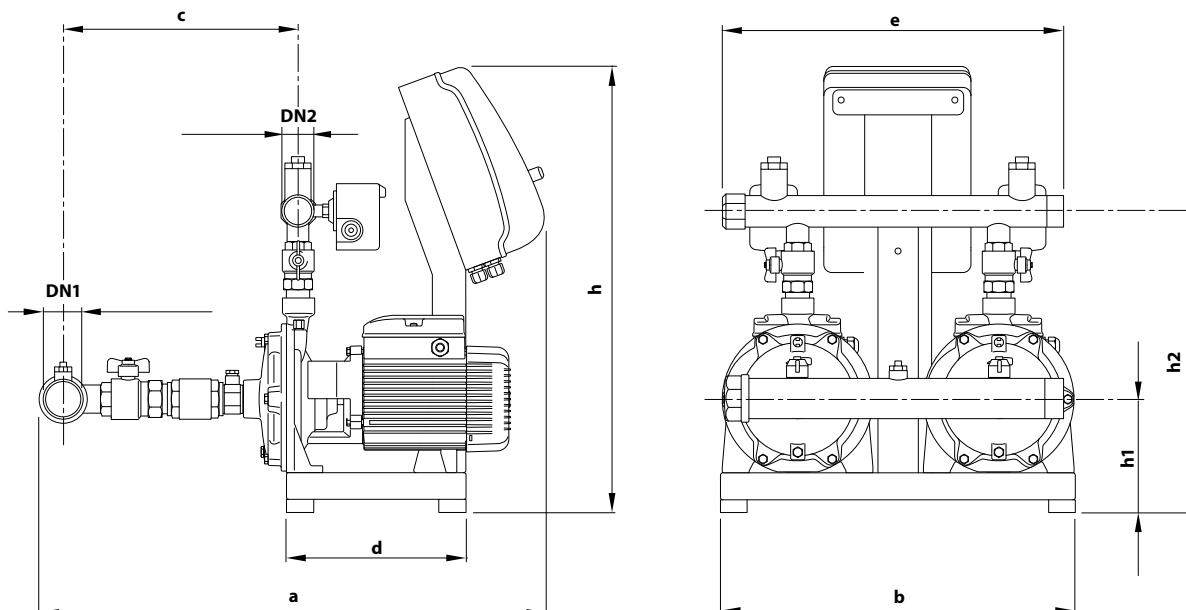
# CB2 – 2CP

## PERFORMANCE CURVES

50 Hz



## DIMENSIONS AND WEIGHT



| MODEL             | PORTS        |             | DIMENSIONS mm |     |     |     |     |     |     |     | kg    |
|-------------------|--------------|-------------|---------------|-----|-----|-----|-----|-----|-----|-----|-------|
| Three-phase       | DN1          | DN2         | a             | b   | c   | d   | e   | h   | h1  | h2  | 3~    |
| CB2 - 2CP 32/200C | 3"           | 2"          | 972           | 700 | 453 | 370 | 712 |     | 192 | 516 | 129.0 |
| CB2 - 2CP 32/200B |              |             |               |     |     |     |     |     |     |     | 135.0 |
| CB2 - 2CP 32/210B |              |             | 977           |     | 456 |     |     |     | 199 | 546 | 161.0 |
| CB2 - 2CP 32/210A |              |             |               |     |     |     |     |     |     |     | 171.0 |
| CB2 - 2CP 40/180C | DN 100<br>4" | DN 80<br>3" | 1048          |     | 468 |     | 774 | 716 | 199 | 590 | 190.0 |
| CB2 - 2CP 40/180B |              |             |               |     |     |     |     |     |     |     | 199.0 |
| CB2 - 2CP 40/180A |              |             |               |     |     |     |     |     |     |     | 211.0 |