

Pressure Problem?

Find the perfect solution.

GRUNDFOS 

Possibility in every drop

RESIDENTIAL BOOSTING SOLUTIONS

For sustainable homes and comfortable lives

Grundfos' range of booster pumps offer a variety of water pressure solutions, from irrigation and water transfer to intelligent pump control that will automatically adapt to varying inlet pressure and overall water consumption in the home. So, you can ensure optimal comfort for your customers with the pump that best suits their needs.

The best homes are Grundfos homes.



JP

The pressure boosting workhorse, ideal for the garden and irrigation

- Self-priming and ideal for transferring water from wells or ground tanks
- Single-phase models have built-in thermal and current protection
- Stainless-steel construction for a robust design and excellent corrosion resistance
- The hydraulic construction ensures excellent suction capacity and stable operation

Max Flow: 22 gpm | Max Head: 187 ft



SCALA1

Water on demand has never been easier, ideal for the house and garden

- Complete all-in-one booster unit with built-in Bluetooth communication
- Fast and easy commissioning directly from the pump control panel or your smart device
- Remote guided configuration, monitoring, control and pump diagnostics
- Easy twin-pump connection with joint pump control

Max Flow: 32 gpm | Max Head: 185 ft

**Twin configuration is available for increased flow or system redundancy.*

Note: the SCALA1 is the replacement pump for the MQ.



SCALA2

Perfect water pressure, ideal for the kitchen and bathroom

- Intelligent pump control adjusts operation to ensure perfect water pressure
- A noise level of 47 dB(A) in typical use – one of the quietest boosters in its class
- Easy to select, install, and operate – one variant for all residential applications
- Dry run protection

Max Flow: 21 gpm | Max Head: 148 ft



CMBE

Constant water pressure, ideal for residential and commercial water supply, pressure boosting, irrigation and dewatering applications

- All-in-one solution including pump, motor, tank, pressure and flow sensor, controller and check valve
- Highly efficient ECM motor reduces operating costs
- Low noise operation (55dB or less in typical use)
- Drinking water NSF 61/UL 372 approved

Max Flow: 70 gpm (141 gpm CMBE Twin) | Max Head: 329 ft (159 ft CMBE Twin)



Hydro Multi-B

Constant pressure booster system, ideal for domestic water pressure such as apartments, large homes, and multi-story buildings

- Industrial quality and quiet horizontal multi-stage pump
- Compact – achieved due to the CME pump's unique combination of size and performance
- Simple control, all VFD 2-3 pump system
- Utilizes CME 3-15 pump (A-version CI/304SS)

Max Flow: 480 gpm | Max Head: 250 ft






Hydro Multi-E

Innovative boosting solution, ideal for variable water flow applications such as pressure boosting, process, and hydronic water circulation

- Delivered as a ready-to-install 2-3 CRE pump system with integrated VFD and permanent magnet motors
- Integrated control panel in one of the motors and single point power connection
- Two pumps on system are capable of being master pumps to ensure complete redundancy

Max Flow: 463 gpm | Max Head: 520 ft

| CHALLENGE | SOLUTION | WHY THIS IS YOUR SOLUTION |
|---|--|---|
| <p>– Low water pressure in a residential setting for:</p> <ul style="list-style-type: none"> • Inside the home • Irrigation systems* • Rainwater harvest • Cisterns • Domestic greenhouses • Hobby farms • Dock/boat washdown • Water transfer <p>*Includes timer function (useful for scheduling when you irrigate your lawn)</p> | <p>SCALA1</p>  | <p>Water on demand has never been easier, ideal for the house and garden.</p> <ul style="list-style-type: none"> • Complete all-in-one booster unit with built-in Bluetooth communication for Grundfos GO app • Fast and easy commissioning directly from the pump control panel or your smart device • Remote guided configuration, monitoring, control and pump diagnostics • Easy twin-pump connection with joint pump control • Replacement pump for MQ |
| <p>– Higher flow – Back-up pump</p> | <p>SCALA1 Twin</p>  | <p>SCALA twin accessories kit</p> <ul style="list-style-type: none"> • When greater flow is needed, a twin pump setup is available with the twin accessories kit that includes baseplate, cable and inlet, and outlet manifolds. Configuration is easy with the Grundfos GO app. <p><i>SCALA1 twin accessories sold separately</i></p> |
| <p>– Low or varying water pressure in a residential home less than 2,500 sq ft.</p> <p>– Supply water for seasonal residences near water source (inlet filter necessary)</p> | <p>SCALA2</p>  | <p>Perfect water pressure, ideal for the kitchen and bathroom.</p> <ul style="list-style-type: none"> • Intelligent pump control adjusts operation to ensure perfect water pressure • A noise level of 47 dB(A) in typical use – one of the quietest boosters in its class • Easy to select, install, and operate – one variant for all residential applications • Dry run protection |
| <p>– Harmful particles entering the SCALA1 or SCALA2 system</p> | <p>Inlet Filter</p>  | <p>The Grundfos Inlet filter is a recommended accessory to protect the pump from sand, gravel or other debris, when pumping rainwater or well water.</p> |
| <p>– Low water pressure in:</p> <ul style="list-style-type: none"> • large domestic homes • multi-family dwellings • small apartment buildings | <p>CMBE</p>  | <p>Constant water pressure, ideal for residential and commercial water supply, pressure boosting, irrigation, and dewatering applications.</p> <ul style="list-style-type: none"> • All-in-one solution including pump, motor, tank, pressure and flow sensor, controller, and check valve • Highly efficient ECM motor reduces operating costs • Low noise operation (55dB or less in typical use) |

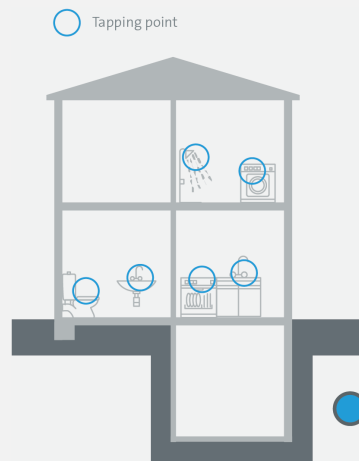
All pump solutions are drinking water NSF 61/UL 372 approved

BOOSTING SELECTION GUIDE

There are many different components involved in designing and building a domestic pressure boosting system. While it may seem obvious, some booster pumps work better than others in specific situations. It can be difficult to know which pump best meets the needs of your application and which components you require to build an optimally sized system. Wrong pump, tank or pressure controller selection can cause up to 4 hours of lost time re-sourcing the correct components.

AN EXAMPLE OF HOW TO SIZE AND SELECT

1. **Required comfort levels:**
 - Adjustable constant pressure
2. **Find the right booster:**
 - How many taps: 6 taps
 - How many floors: 3 floors
3. **Result - Required comfort level:**
 - Constant pressure = **SCALA2 3-45** (variable speed pressure booster)
 - Pressure boosting = **SCALA1 3-45** (fixed speed pressure booster)



FIXED SPEED:

| Number of floors | 1-5 taps | 6-10 taps | 11-20 taps | 21-50 taps |
|------------------|----------------------------|----------------------------|----------------------------|------------------|
| 4 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 5-55 | SCALA1 Twin 5-55 | SCALA1 Twin 5-55 |
| 3 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 5-55 | SCALA1 Twin 5-55 |
| 2 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 5-55 | SCALA1 Twin 5-55 |
| 1 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 3-45 or SCALA2 3-45 | SCALA1 Twin 5-55 |

VARIABLE SPEED:

| Number of floors | 1-5 taps | 6-10 taps | 11-20 taps | 21-50 taps |
|------------------|-----------|---------------------|---------------------|--------------------|
| 4 | CMBE 1-75 | SCALA2 or CMBE 1-75 | CMBE 3-62 | CMBE 3-93 |
| 3 | CMBE 1-44 | SCALA2 or CMBE 1-75 | SCALA2 or CMBE 3-62 | CMBE 3-62 |
| 2 | CMBE 1-44 | SCALA2 or CMBE 1-44 | SCALA2 or CMBE 3-62 | CMBE 3-62 |
| 1 | CMBE 1-44 | SCALA2 or CMBE 1-44 | SCALA2 or CMBE 3-30 | SCALA2 or CMBE3-62 |

- A tap pressure of 43 psi is considered. To achieve pressure of 58 psi, add two floors.
- The inlet is flooded. For suction operation, add a floor for every 10 feet of suction depth.
- A tap flow between 2.4 gpm and 3.2 gpm average usage and half of the taps opened at the same time will be considered.