

Installation checklist

SCALA2

SCALA2 is a compact, fully integrated, self-priming water booster pump that delivers perfect water pressure and maximum reliability in homes and apartments with up to 3 floors and 8 different taps.



Pre-installation

1. Ensure the incoming water volume is sufficient to meet the home's demand. Domestic boosters cannot compensate for an undersized water meter and/or supply line. Increasing pressure does not increase volume.
2. Verify electrical requirements, and utilize a dedicated electrical circuit with the correct voltage. Not recommended for most GFCI outlets (exception: see I&O). Where required by code, a professional electrician may hardwire.
3. Verify supply and demand: measure static inlet pressure. To check for pressure spikes, use a red-line gauge.
4. SCALA2 has a maximum differential of 51psi. 29psi of positive pressure is required to reach max discharge of 80psi.
5. Reverse osmosis (RO) systems must reside downstream of the booster. Do not pump RO water through the SCALA2.
6. Choose the proper location: horizontal, level surface, service accessible.
7. Tank water heating systems require thermal expansion protection. Verify the tank is present and precharge to 100% of boosted pressure.
8. To enable suction lift, locate the white pin behind the drain cap and remove it before startup.

Mechanical installation

1. Allow 12"-15" of open space directly in front and behind the SCALA2 unit.
2. The SCALA2 unit must be mounted securely to a horizontal, flat surface. Vibration pads are recommended.
3. Avoid hard 90° elbow near pump. 1" x 24" full-port flexible hoses are recommended. Do not kink.
4. Supply a minimum of 10" straight pipe into the suction port (with or without flex connectors).
5. Do not reduce pipe diameter or use pex insert fittings near the pump. Before reducing, allow a minimum of 24".
6. When using PTFE tape, threads must be visible. Do not overwrap. Do not use hard sealants.
7. Hand-tighten composite threads. Do not use tools on the suction/discharge unions or priming port.
8. Prime pump with a minimum of .5 gal / 1.7L if the water source is below the pump.

Commissioning

1. Open the furthest tap; power on; set desired discharge setpoint.
2. Stop pump. Shut off incoming water supply and depressurize by opening a tap.
3. Set internal tank pressure to 70% of setpoint and ensure no air escapes when removing compressor.
4. Open water supply and restart the SCALA2, verify quiet operation, and full stop when the taps are closed.
5. To lock the panel and prevent unintended adjustments, press and hold the control panel's up/down arrows for 3 seconds.

Further considerations

- SCALA2 requires annual maintenance to ensure the internal tank pressure remains consistent.
- Install a bypass valve to enable manual system isolation while maintaining water flow to the house.
- Water hammer protection may be necessary due to increased velocity.
- Protect pump from extreme cold and heat conditions. Avoid freezing and direct sunlight.
- Consult I&O for other helpful information.



SCALA2 I&O

GRUNDFOS 

Possibility in every drop