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Grundfos GRUNDFOSSCALA23-45

GRUNDFOS SCALA2 3-45 Variable Speed Pump User Manual

Model: GRUNDFOSSCALA23-45

1. PRODUCT OVERVIEW

The GRUNDFOS SCALA2 is a fully integrated, self-priming, compact all-in-one water booster pump designed to provide perfect water pressure in all taps at all times. This intelligent pump system automatically adjusts its performance to match both inlet pressure and water consumption, ensuring consistent water flow even when multiple taps or showers are in use simultaneously. The SCALA2 integrates the pump, motor, tank, sensor, drive, and non-return valve into a single compact unit. Its water-cooled motor contributes to one of the lowest noise levels among booster pumps, comparable to a modern dishwasher (47 dB(A) in typical use).



Image 1.1: The Grundfos SCALA2 3-45 water booster pump, showcasing its compact design and integrated components.

Key Features:

- **Intelligent Pump Control:** Automatically adjusts operation to maintain constant water pressure.
- **Low Noise Operation:** Water-cooled motor ensures quiet performance, approximately 47 dB(A).
- **Compact All-in-One Solution:** Integrates pump, motor, tank, sensor, drive, and non-return valve.
- **Easy Installation:** Designed for plug-and-pump setup.
- **User-Friendly Control Panel:** Simple interface for operation and monitoring.
- **Reliable Operation:** Includes dry-running protection and anti-cycling features.
- **Long Lifetime:** Robust and quality-tested for durability.
- **Versatile Application:** Suitable for boosting water pressure from city mains, roof tanks, break tanks, ground tanks, and can pump water from a depth of 8 meters.
- **Capacity:** Ideal for residential buildings with up to 3 floors and 8 taps.



Image 1.2: An internal cutaway view of the Grundfos SCALA2, illustrating its integrated pump, motor, and control components.

2. SETUP AND INSTALLATION

The SCALA2 is designed for straightforward installation due to its compact, all-in-one nature. It is a "plug-and-pump" solution, meaning minimal assembly is required before operation.

2.1 Unpacking

Carefully remove the pump from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Ensure all components listed in the packing list (if provided separately) are present.



Image 2.1: The Grundfos SCALA2 pump as it appears when unboxed, showing the unit and its immediate packaging.

2.2 Placement Considerations

- The SCALA2 is suitable for both indoor and outdoor installation.
- Choose a stable, level surface for placement.
- Ensure adequate ventilation around the pump.
- Position the pump close to the water source and the main water line to minimize pipe length and pressure loss.

- The pump can draw water from a depth of up to 8 meters.

2.3 Electrical Connection

The pump operates on AC power with a voltage of 160 Volts. Connect the pump to a suitable power outlet. Ensure the electrical supply matches the pump's requirements as specified on the product label.



Image 2.2: The Grundfos SCALA2 pump with protective yellow caps on its inlet and outlet ports, indicating readiness for plumbing connections.

2.4 Plumbing Connections

Connect the inlet and outlet pipes to the pump. Ensure all connections are secure and watertight to prevent leaks. Refer to local plumbing codes and best practices for proper installation.

3. OPERATING INSTRUCTIONS

The GRUNDFOS SCALA2 is designed for automatic and intelligent operation, requiring minimal user intervention once installed correctly.

3.1 Initial Start-up

1. Ensure all plumbing connections are secure and the pump is properly positioned.
2. Verify the power supply is connected.
3. Turn on the power to the pump. The SCALA2 will perform an initial self-check.
4. The pump is self-priming, meaning it can draw water and remove air from the suction line automatically.
5. Open a tap in your home to allow water to flow. The pump will detect the demand and automatically start to maintain the desired pressure.

3.2 Intelligent Pump Control

The SCALA2 continuously monitors the discharge pressure. If the pressure drops below the set level (due to increased water

consumption), the pump will immediately boost its operation to compensate, ensuring a constant and comfortable water pressure throughout your home. Conversely, if water consumption decreases, the pump will reduce its speed to save energy.

3.3 Control Panel

The pump features a user-friendly control panel for monitoring status and making minor adjustments if necessary. Refer to the on-screen indicators for information on pump status, pressure settings, and any alerts.

4. MAINTENANCE

The GRUNDFOS SCALA2 is designed to be a maintenance-free unit, providing reliable operation without the need for regular servicing or lubrication.

4.1 General Care

- Keep the pump area clean and free from debris.
- Ensure proper ventilation around the unit.
- Periodically check for any visible leaks in the plumbing connections.
- Do not attempt to disassemble the pump for internal cleaning or repair, as this may void the warranty.

5. TROUBLESHOOTING

The SCALA2 is equipped with intelligent features to prevent common issues. However, if you encounter problems, consider the following:

5.1 Low or No Water Pressure

- **Check Power Supply:** Ensure the pump is receiving power and the circuit breaker has not tripped.
- **Verify Water Supply:** Confirm that there is an adequate water supply to the pump's inlet.
- **Inspect for Leaks:** Check all plumbing connections for leaks, which can cause pressure drops.
- **Air in System:** The pump is self-priming, but if the water source was interrupted, it might need a moment to re-prime.

5.2 Pump Not Running

- **Power Connection:** Ensure the power cord is securely plugged in and the outlet is functional.
- **Dry-Running Protection:** The pump has built-in dry-running protection. If the water source runs dry, the pump will stop to prevent damage. Restore water supply and the pump should restart automatically.
- **Overload Protection:** If the pump has been subjected to an overload, it may shut down. Allow it to cool down before attempting to restart.

5.3 Unusual Noise

- While the SCALA2 is designed for low noise, unusual sounds might indicate an issue.
- **Air in System:** Air trapped in the system can cause gurgling or rattling noises. Allow the pump to run to clear the air.
- **Debris:** Check if any debris might have entered the pump (though unlikely with proper filtration).

For persistent issues not resolved by these steps, please contact Grundfos customer support.

6. TECHNICAL SPECIFICATIONS

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SCALA2 IN MORE DETAIL

INTELLIGENT PUMP CONTROL

THE KEY TO PERFECT WATER PRESSURE

SCALA2 comes equipped with intelligent pump control, which means that it automatically adjusts operation to deliver the water pressure you like. The integrated sensor detects if the inlet pressure varies or if there are several taps open and immediately tells the pump to boost the pressure. And it happens so fast that you won't notice any change in your water pressure at all.

LEARN MORE



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PERFECTWATERPRESSURE



WHY GO WITH SCALA2?

- **Perfect water pressure:** In all taps at all times
- **Affordable:** Great value for money
- **Low noise:** 47 dB(A) in typical use
- **Compact design:** Fits inside a kitchen cupboard
- **All-in-one unit:** No complex installations
- **User-friendly control panel:** Easy to operate

Technical details	SCALA2
Floors	Max. 3
Taps	Max. 8
Dimensions	H: 302 mm, L: 403 mm, W: 193 mm
Weight	10 kg

Applications

SCALA2 is designed for residential buildings with up to 3 floors and 8 taps.

Boosting from mains:

Increases the water pressure delivered by city mains.

Boosting from tanks:

Increases water pressure from roof tanks, break tanks and ground tanks, including rainwater tanks.

Boosting from wells:

Pumps water from a depth of up to 8 metres
Suitable for both indoor and outdoor installation.

For more information contact us:

🌐 in.grundfos.com

☎ **1800-102-2535 (One Office Toll-free), 1800-345-4555 (Toll-free)**

✉ oneoffice.india@sales.grundfos.com, salesindia@grundfos.com,
serviceindia@grundfos.com

GRUNDFOS

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Image 6.1: Dimensions of the Grundfos SCALA2 pump, showing length, width, and height measurements.

Attribute	Detail
Brand	Grundfos
Model Number	GRUNDFOSSCALA23-45
Colour	Black, Grey
Material	Technopolymer
Style	Compact
Product Dimensions (L x W x H)	46.6L x 37.4W x 25H Centimeters
Item Weight	12 Kilograms
Power Source	AC
Voltage	160 Volts
Maximum Lifting Height	8 Metres
Noise Level (typical use)	47 dB(A)
Application Capacity	Up to 3 floors and 8 taps

7. WARRANTY AND SUPPORT

Grundfos provides warranty and after-sales service for all Grundfos pumps purchased through authorized channels, in accordance with company policy.







7.1 Contact Information

For technical assistance, warranty claims, or service inquiries, please contact Grundfos customer support:

- **Manufacturer:** GRUNDFOS, Grundfos Pumps India Pvt Ltd
- **Phone:** 9811128788
- **Email (Sales):** oneoffice.india@sales.grundfos.com, salesindia@grundfos.com
- **Email (Service):** serviceindia@grundfos.com

Please have your product model number (GRUNDFOSSCALA23-45) and purchase details ready when contacting support.



	<p>Grundfos SCALA2 3-45: Integrated Waterworks for Domestic Pressure Boosting</p> <p>Detailed technical specifications and features of the Grundfos SCALA2 3-45, a self-priming, compact waterworks designed for domestic pressure boosting applications. Learn about its integrated speed control, automatic reset function, and low-noise operation.</p>
	<p>Grundfos SCALA2 Installation and Operating Instructions</p> <p>Comprehensive guide for the installation and operation of the Grundfos SCALA2 pump, covering product introduction, installation requirements, mechanical and electrical connections, startup procedures, control functions, troubleshooting, and technical data.</p>
	<p>Grundfos SCALA2 Installation and Operation Manual</p> <p>Comprehensive guide for the Grundfos SCALA2, a compact and intelligent water booster system. This manual covers installation, operation, troubleshooting, and maintenance for optimal performance.</p>
	<p>Grundfos DDA 12-10 FCM-C Digital Dosing Pump - Features and Specifications</p> <p>Detailed overview of the Grundfos SMART Digital DDA-C chemical dosing pump, including its features, operation modes, connectivity, and technical specifications. Model DDA 12-10 FCM-C-PV/T/C-F-31U2U2IG.</p>
	<p>Grundfos SCALA: Installation and Operating Instructions</p> <p>This document provides comprehensive installation, operation, and maintenance instructions for the Grundfos SCALA domestic water supply pump. It covers product features, system sizing, electrical connections, startup procedures, troubleshooting, and technical specifications.</p>
	<p>Grundfos MQ Installation and Operating Instructions</p> <p>Comprehensive guide for the installation, operation, and maintenance of the Grundfos MQ pump. Covers safety, technical specifications, functions, troubleshooting, and disposal.</p>