

Grundfos 98562817

Grundfos SCALA2 3-45 AM CJDF Pressure Boosting Pump User Manual

Model: SCALA2 3-45 AM CJDF (Part No. 98562817)

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1. INTRODUCTION

The Grundfos SCALA2 is a fully integrated water booster pump designed to provide consistent water pressure in all taps, even when multiple taps or showers are in use simultaneously. This compact unit integrates a pump, motor, tank, sensor, drive, and non-return valve. Its intelligent pump control automatically adjusts performance based on inlet pressure and water consumption. The water-cooled motor ensures quiet operation. The SCALA2 features a built-in sensor that continuously monitors discharge pressure, boosting operation immediately if pressure drops below the desired level. This intelligent control ensures optimal water pressure throughout your home.



Figure 1.1: Overview of the Grundfos SCALA2 Pressure Boosting Pump, showing its compact design and integrated power cord.

2. SAFETY INFORMATION

Read all safety warnings and instructions carefully before installing or operating the pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

2.1 General Safety Warnings

- **Electrical Hazard:** Ensure the power supply matches the pump's voltage (230 Volts). Always disconnect power before performing any service or maintenance. The pump must be properly grounded.
- **Water Pressure:** The pump operates under pressure. Ensure all connections are secure and leak-free to prevent water damage.
- **Installation:** Installation should be performed by qualified personnel in accordance with local codes and regulations.
- **Operating Environment:** Do not operate the pump in explosive atmospheres or where flammable liquids or gases are present. Protect the pump from freezing temperatures.
- **Children and Unauthorized Personnel:** Keep children and unauthorized persons away from the pump during operation.



Figure 2.1: Side view of the SCALA2 pump, highlighting important warning labels regarding electrical safety and proper usage. Always read and adhere to all labels on the product.

2.2 Electrical Connection Safety

The Grundfos SCALA2 pump is designed for a 230V AC/DC power supply. It comes with a grounded plug.

- Ensure the electrical outlet is properly grounded and rated for the pump's power requirements.
- Do not use extension cords unless absolutely necessary and ensure they are rated for outdoor use and the pump's power.
- Never operate the pump with a damaged power cord or plug.



Figure 2.2: Detail of the grounded power plug, emphasizing the importance of a proper electrical connection.

3. SETUP AND INSTALLATION

3.1 Package Contents

- Grundfos SCALA2 Pressure Boosting Pump (Model 98562817)
- User Manual (this document)

3.2 Choosing a Location

Select a location that is:

- Protected from freezing temperatures and direct sunlight.
- Well-ventilated.
- Close to the main water supply and a suitable electrical outlet.
- On a stable, level surface to minimize vibration and noise.

3.3 Water Connections

1. **Inlet Connection:** Connect the incoming water supply to the pump's inlet port. Ensure a tight, leak-free connection using appropriate plumbing fittings and thread sealant. It is recommended to install a filter on the low-pressure side of the pump to protect it from sand and silt.
2. **Outlet Connection:** Connect the pump's outlet port to your household's water distribution system. Again, ensure a secure and leak-free connection.
3. **Check Valves:** The SCALA2 has a built-in non-return valve. Additional check valves may be required depending on local plumbing codes.

3.4 Electrical Connection

1. Ensure the power supply is off at the main breaker before connecting the pump.
2. Plug the pump's power cord into a properly grounded 230V electrical outlet.
3. Verify that the voltage matches the pump's requirements as specified on the product label.

3.5 Priming the Pump

The SCALA2 is a self-priming pump, capable of lifting water from a depth of up to 8 meters (26 feet) in less than 5

minutes.

1. Open a tap in your house to allow air to escape the system.
2. Turn on the power to the pump. The pump will start automatically and begin to draw water.
3. Once a steady flow of water comes from the tap, close the tap. The pump will then build pressure and stop.
4. Check all connections for leaks.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview



Figure 4.1: Angled view of the SCALA2 pump, highlighting the user-friendly control panel for easy operation.



Figure 4.2: Detailed view of the SCALA2 control panel, showing the power button, pressure adjustment arrows, pressure indicator lights (1-7), and the reset button.

The SCALA2 features an intuitive control panel with the following main elements:

- **Power Button ():** Turns the pump on or off.
- **Pressure Adjustment Arrows (▲ / ▼):** Adjusts the desired discharge pressure.
- **Pressure Indicator Lights (1-7):** Displays the current pressure setting.
- **Reset Button:** Used to clear error messages or restart the pump after a fault.
- **Constant Pressure Indicator:** Illuminates when the pump is maintaining a constant pressure.
- **Status Indicators:** Lights indicating various operational statuses or warnings (e.g., dry running, leak detection).

4.2 Initial Start-up and Pressure Setting

1. After priming, ensure all taps are closed.
2. Press the Power Button () to turn on the pump.
3. Use the Pressure Adjustment Arrows (▲ / ▼) to select your desired pressure level. The indicator lights (1-7) will show the selected setting. Start with a middle setting (e.g., 4 or 5) and adjust as needed.
4. The pump will automatically maintain this pressure.

4.3 Normal Operation

The SCALA2 operates automatically. When a tap is opened, the pump detects the pressure drop and starts to maintain the set pressure. When all taps are closed, the pump will stop after a short delay.

5. MAINTENANCE

The Grundfos SCALA2 pump is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

5.1 Regular Inspections

- **Visual Check:** Periodically inspect the pump and connections for any signs of leaks, corrosion, or damage.
- **Noise Level:** Listen for any unusual noises during operation, which could indicate a problem.
- **Performance:** Monitor water pressure consistency. If performance degrades, refer to the troubleshooting section.

5.2 Cleaning

Clean the exterior of the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure ventilation openings are clear of dust and debris.

5.3 Inlet Filter

While the pump itself does not have a user-serviceable internal filter, it is highly recommended to install an external inlet filter (e.g., a 50 PPM filter) on the low-pressure side of the pump. This protects the pump from sediment and debris, especially in well water applications. Regularly inspect and clean or replace this external filter according to its manufacturer's instructions.

5.4 Winterization

If the pump is installed in an area subject to freezing temperatures, it must be drained to prevent damage.

1. Disconnect power to the pump.
2. Close the inlet and outlet valves.
3. Open the drain plugs on the pump (refer to the product diagram for locations) to allow all water to escape.
4. Store the pump in a warm, dry place if possible, or ensure it is completely drained and protected from freezing.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Grundfos SCALA2 pump.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not start or run.	No power supply; tripped breaker; pump in fault mode.	Check power connection and circuit breaker. Press the Reset button on the control panel.
No water pressure or low pressure.	No water supply to pump; air in system; clogged inlet filter; incorrect pressure setting.	Check water supply. Re-prime the pump. Clean or replace external inlet filter. Adjust pressure setting using the control panel arrows.
Pump runs continuously or cycles frequently.	Leak in the plumbing system; open tap; faulty non-return valve.	Check all plumbing for leaks (the SCALA2 has a leak detection feature, indicated by a specific light). Ensure all taps are closed. If problem persists, contact a qualified plumber.
Unusual noise or vibration.	Air in pump; pump not securely mounted; foreign object in pump.	Re-prime the pump. Ensure pump is on a stable surface. Disconnect power and inspect for obstructions (if safe to do so).
Leak light illuminated on control panel.	System leak detected.	Thoroughly inspect all plumbing connections and fixtures for leaks. Repair any identified leaks.

If you are unable to resolve an issue using this troubleshooting guide, please contact Grundfos customer support or a qualified service technician.

7. SPECIFICATIONS

The following are the technical specifications for the Grundfos SCALA2 3-45 AMCJDF Pressure Boosting Pump.



Figure 7.1: Product label displaying detailed technical specifications and model information.

Feature	Detail
Manufacturer	Grundfos
Part Number	98562817
Model Number	SCALA2 3-45 AMCJDF
Item Weight	22 pounds
Product Dimensions	15.9 x 7.6 x 11.9 inches

Feature	Detail
Power Source	AC/DC
Voltage	230 Volts
Max Head (Hmax)	148 ft.
Min Head (Hmin)	53 ft.
Nominal Flow (Qnom)	8.8 gpm
Max Ambient Temperature (Tamb.max)	113°F
Max Liquid Temperature / Max System Pressure (Tliq.max/Psyst.max)	113°F / 145 psi
Enclosure Type	Type 3

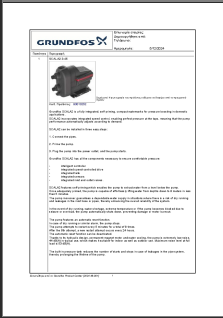
8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your purchase or visit the official Grundfos website.

If you require technical assistance, spare parts, or service, please contact Grundfos customer support or your authorized Grundfos dealer.

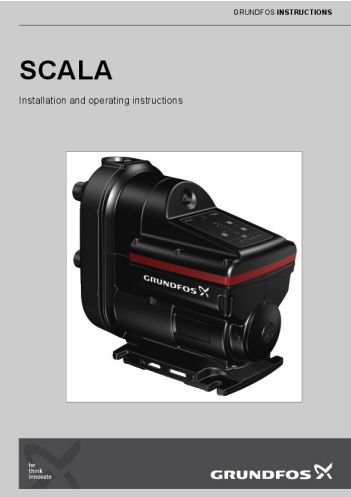
Official Product Page: For additional resources and information, visit grundfos.com/scala2.

Related Documents - 98562817

	Grundfos SCALA2 Installation and Operating Instructions 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.
	Grundfos SCALA2 3-45: Integrated Waterworks for Domestic Pressure Boosting 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.

	Grundfos SCALA2 Domestic Water Booster Pump Installation and Operation Guide Comprehensive guide for installing and operating the Grundfos SCALA2 domestic water booster pump, detailing features, specifications, operational procedures, and troubleshooting.
	Grundfos SCALA Installation and Operating Instructions This document provides comprehensive installation and operating instructions for the Grundfos SCALA domestic water supply pumps. It covers general information, receiving and inspecting the product, installation procedures, startup, operation, control functions, servicing, fault finding, and disposal. Designed for professional installers, it ensures safe and efficient use of the SCALA pump.
	Grundfos SCALA Multistage Centrifugal Boosters Data Booklet This data booklet provides comprehensive information on Grundfos SCALA multistage centrifugal boosters, including product ranges, installation, operation, selection guides, technical data, and accessories for SCALA1 and SCALA2 models.
	Grundfos SB, SBA, SB HF Submersible Pumps: Installation and Operating Manual Comprehensive installation and operating manual for Grundfos SB, SBA, and SB HF submersible pumps, covering safety, setup, electrical connection, commissioning, maintenance, troubleshooting, and technical specifications for efficient water pressure boosting and rainwater harvesting.

Documents - Grundfos – 98562817



[Grundfos SCALA Installation and Operating Instructions](#)

Comprehensive installation and operating instructions for the Grundfos SCALA domestic water supply pump, covering unpacking, installation, startup, maintenance, and troubleshooting.

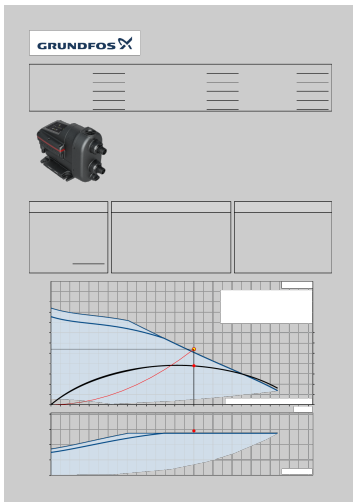
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[Grundfos SCALA2 Data Sheet: Integrated Pressure Boosting Pump](#)

Comprehensive data sheet for the Grundfos SCALA2, an integrated, self-priming waterworks designed for domestic pressure boosting. Details applications, performance, technical specifications, and installation.

lang:en score:34 filesize: 574.07 K page_count: 2 document date: 2017-11-14



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PROJECT: REPRESENTATIVE: ENGINEER: CONTRACTOR: Submittal Data UNIT TAG: TYPE OF SERVICE: SUBMITTED ... mperature: Approvals: Pipe connection: Product number: 10 bar 0 .. 45 C 45 C cULus NPT 1 Composite **98562817** Motor Data Rated voltage: Mains frequency: Enclosure class: Insulation class: 208-230 V ... lang:en score:33 filesize: 1.69 M page_count: 13 document date: 2018-02-22



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Installation and Operating Instructions Grundfos SCALA2 Water Pressure Booster Pump 230v 98562817 601099 znNN0F xrefs2 plumbersstock product 6 0 |||

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[Grundfos SCALA Multistage Centrifugal Boosters Data Booklet](#)

This data booklet provides comprehensive information on Grundfos SCALA multistage centrifugal boosters, including product ranges, installation, operation, selection guides, technical data, and accessories for SCALA1 and SCALA2 models.

lang:en score:29 filesize: 6.57 M page_count: 29 document date: 2020-05-22



[Grundfos SCALA Multistage Centrifugal Boosters Data Booklet](#)

This data booklet provides comprehensive information on the Grundfos SCALA range of multistage centrifugal booster pumps, including SCALA1 and SCALA2 models. It covers product introduction, selection guides, installation and operation details, technical data, performance curves, accessories, and product numbers. The SCALA series is designed for domestic and light commercial water supply applications, offering features like self-priming, dry-run protection, and easy installation.

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[\[pdf\] User Manual Guide](#)

Grundfos Scala2 Manual Pdf SCALA2 SCALA Data Booklet Englisch aga tech at assets 2019 11 ||| GRUNDFOS DATA BOOKLET SCALA Multistage centrifugal boosters, 50/60 Hz Table of contents 1. Produc ... erbia Serbia Serbia Serbia Serbia Serbia Serbia Product number 98562872 99342334 99371163 99471149 **98562817** 98562818 99027074 99027075 99240350 22 SCALA 8. Accessories SCALA twin accessory set 8 ...

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GRUNDFOS DATA SHEET

SCALA2



General description

Grundfos SCALA2 is a fully integrated, self-priming, compact all in one water pump for pressure boosting in domestic applications.

SCALA2 incorporates integrated speed control, ensuring perfect water pressure at all times, meaning that in any performance will increase with increasing demand.

SCALA2 can be installed in three easy steps:

1. Connect the pipe.
2. Prime the pump.
3. Plug the pump into the power outlet and the pump will start.

Grundfos SCALA2 has all the components necessary to ensure a comfortable pressure:

- Integrated on/off filter
- Integrated speed controller & drive
- Integrated tank
- Integrated sensors
- Integrated non-return valve

Features

- Adjustable constant pressure
- Low noise < 47 dBA(1) (in typical use)
- Compact
- Robust and reliable
- Easy installation and self-priming
- Dry running protection

Applications

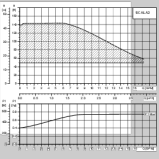
Grundfos SCALA2 is designed for pressure boosting in domestic houses and apartments:

- pressure boosting of city water supply
- pressure boosting of water from tank
- pressure boosting of water from tank tank
- pressure boosting of water from ground tank
- water supply from shallow wells (< 20 m (65 ft) w)

Performance

SCALA2 is suitable for houses with up to three floors and eight bathing units.

Maximum rating of the pump can be based on the pump curve below and local norms and standards.



Control panel



GRUNDFOS

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Grundfos is a fully integrated self priming compact all in one water pump for pressure boosting

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Max. ambient temperature: 113F 45C 131F 55C for 1 x ...

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GRUNDFOS DATENBLATT

SCALA2 Hauswasserwerk mit Konstantdruckregelung



Produktbeschreibung

Grundfos SCALA2 ist ein vollintegriertes, selbst-ansaugendes und Effizientes Hauswasserwerk mit Konstantdruckregelung und Konstantdruckregelung. Beim Öffnen einer Zapfstelle schaltet die SCALA2 automatisch zu. Soles garantiert eine konstanten Hausdruck und bewahrt den Druckbehälter vor zu hohem Druck.

Eigenschaften und Vorteile

Aufgrund der Konstantdruckregelung kann bei der SCALA2 auf einen großen Membrandruckbehälter verzichtet werden. Mit weiteren Vorteilen: sehr kompakter Design. Mit nur 500 Watt maximalem Leistungsbedarf ist die SCALA2 eine der effizientesten Hauswasserwerke, die jemals hergestellt wurden. Durch den wesentlichen Überfluss Motor und der Konstantdruckregelung erreicht die SCALA2 eine sehr geringe Geräuschleistung von nur 47 dBA, welches mit einer modernen Geräuschabschirmung verglichen ist.

Mit 7 verschiedenen integrierten Schutzmaßnahmen ist die SCALA2 einer der sichersten Hauswasserwerke. Sie schützt sich gegen eine Vielzahl von möglichen Gefahren, wie z. B. (1) Über- und Unterdruck, (2) Überdruck, (3) Abschaltung bei geringer Leistung, (4) Temperatur und Wassermenge, (5) Überdruck bei hoher Leistung, (6) Überdruck bei hoher Leistung, (7) Überdruck bei hoher Leistung, (8) Überdruck bei hoher Leistung, (9) Überdruck bei hoher Leistung, (10) Überdruck bei hoher Leistung.

Anwendungen

Grundfos SCALA2 ist ein vollintegriertes Hauswasserwerk und eignet sich für folgende Anwendungen:

- Wasserentzug aus Brunnen
- Innen- und Außenwasser
- Wasserentzug aus Zisternen
- Druckentlastung mit max. 8 bar Vordruck (gemäß DIN EN 12201) oder (abhängig von der Trichterhöhe, die Pumpe selbst anheben kann)
- Druckentlastung von Wasser aus Wasser
- Keine Umwälzpumpe

Konstante

Der Konstantdruck (Enddruck am Druckbehälter) kann von 1,5 - 6,5 bar (0,5 - 8 bar) eingestellt werden. Um ein schnelles Abschalten der SCALA2 zu gewährleisten, empfehlen wir folgende Konstantdruckwerte:

Druckentlastung (1 bar)	max. 3,5 bar (0,5 bar)	max. 6,5 bar (0,5 bar)
max. 3,5 bar (0,5 bar)	max. 6,5 bar (0,5 bar)	max. 6,5 bar (0,5 bar)

Bediendisplay



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98562818 Betriebsbedingungen Max. 45 C Umgebungstemperatur: 55 C fr Modelle 1 x 200-24...

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[Grundfos SCALA2 Water Pressure Booster Pump - Technical Data Sheet](#)

Explore the Grundfos SCALA2, a fully integrated, self-priming, compact all-in-one water pump designed for pressure boosting in domestic applications. Learn about its features, applications, performance, and technical specifications.

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GRUNDFOS - KATALOGOV LIST SCALA2 Obecn popis Grundfos SCALA2 je pln integrovan, samonasvac, kompaktní ... , BS1363 IEC typ I, IRAM 2073 NEMA 6-15P

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Integrated Water Boosting Pump
GRUNDFOS SCALA2

SCALA2 is a fully integrated water booster pump providing perfect water pressure at any of all three – one, two or three floors – and ensuring covering at the same time. It pumps, meters, starts, senses stop and runs when water runs out of the container and, with its intelligent pump control, SCALA2 automatically adjusts performance to both stop pressure and water consumption in the house. Thanks to water-saved motor, SCALA2 was often one of the lowest noise levels of any booster on the market.

SCALA2 features a built-in sensor, which constantly measures the boosting pressure. If the pressure drops below the desired level, SCALA2 boosts its operation immediately to compensate for the loss of pressure. The built-in intelligent pump control and the result is perfect water pressure.

SCALA2 is designed to deliver trouble-free operation and ensure a long lifetime. It has been built with high-quality materials, achieving perfect longevity. It also guarantees the best possible performance and quality.

KEY FEATURES AND BENEFITS

- Perfect water pressure: intelligent pump control adjusts operation automatically
- One noise level: as quiet as a modern dishwasher (37 dB(A) in typical use)
- Easy installation: One variant for all residential building needs
- Easy installation: Compact, all-in-one solution: plug-and-pump
- Easy to operate: User-friendly control panel
- Reliable operation: Dry-running protection, anti-clogging
- Long lifetime: Quality materials, perfect maintenance-free
- Highly efficient with ECER motor
- Self-priming and suitable for both indoor and outdoor applications

APPLICATIONS

- Boosting from mains to increase the water pressure intensity city town
- Boosting from tanks to increase water pressure from roof tanks, basins, cisterns and gravity tanks, including pressure tanks
- Boosting from wells pumps water from a depth of up to 10 m (33 ft)
- Indoor and outdoor installation: NEMA 3

GRUNDFOS

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Integrated Water Boosting Pump GRUNDFOS SCALA2 SCALA2 is a fully integrated water booster pump provi ... ONS: H: 11.9 in 302 mm L: 15.9 in 403 mm W: 7.6 in 193 mm WEIGHT: 22 lbs 10 kg 98562818 **98562817** SCALA2 3-45 1x115V 60 Hz

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GRUNDFOS DATABLAD

SCALA2

Generel beskrivelse

Grundfos SCALA2 er et fuldt integreret, selvansugende, konstant tryk vandpumpe til trykforøgelse i huse med 1-3 etager.

SCALA2 er kompakt og let installeret. Den har en integreret trykregulering, som sikrer, at trykket i hele huset er konstant. Den har en indbygget trykføler, der sikrer, at trykket i hele huset er konstant.

SCALA2 er bygget af høj kvalitet. Den har en lang levetid og er meget effektiv.

Egenskaber

- Integreret trykregulering
- Integreret trykføler
- Integreret trykregulering
- Integreret trykføler
- Integreret trykregulering
- Integreret trykføler

Anvendelse

Grundfos SCALA2 er et fuldt integreret, selvansugende, konstant tryk vandpumpe til trykforøgelse i huse med 1-3 etager.

SCALA2 er kompakt og let installeret. Den har en integreret trykregulering, som sikrer, at trykket i hele huset er konstant. Den har en indbygget trykføler, der sikrer, at trykket i hele huset er konstant.

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Trykforøgelse

Grundfos SCALA2 er et fuldt integreret, selvansugende, konstant tryk vandpumpe til trykforøgelse i huse med 1-3 etager.

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SCALA2 er bygget af høj kvalitet. Den har en lang levetid og er meget effektiv.

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GRUNDFOS DATA SHEET

SCALA2

General description

Grundfos SCALA2 is a fully integrated, self-priming, constant waterworks for pressure boosting in domestic applications.

SCALA2 incorporates integrated speed control ensuring the keeping of the desired pressure at the tap, ensuring that the pump performance will increase with increasing demand.

SCALA2 can be installed in three easy steps:

1. Connect the pipes.
2. Prime the pump.
3. Plug the pump into the power outlet and the pump will start.

Grundfos SCALA2 has all the components necessary to ensure a trouble-free operation:

- intelligent controller
- integrated speed-controlled drive
- integrated tank
- integrated sensors
- integrated non-return valve.

Features

SCALA2

- integrated speed-controlled drive
- integrated tank
- integrated sensors
- integrated non-return valve.

Applications

Grundfos SCALA2 is designed for pressure boosting in one- and two-family houses and apartments. We recommend SCALA2 for the following applications:

- pressure boosting of city mains water
- pressure boosting of water from roof tank
- pressure boosting of water from break tank
- pressure boosting of water from ground tank
- water supply from shallow wells (< 8 m).

Performance

SCALA2 is suitable for houses with up to three floors and eight heating points. Accurate sizing of the pump can be based on the pump curve below and local norms and standards.

Control panel

SCALA2 has a control panel with the following functions:

- Pressure indicator
- Pressure setting button
- On/Off button
- Reset button
- Alarm indicator light

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Integrated Water Boosting Pump GRUNDFOS SCALA2 SCALA2 is a fully integrated water booster pump provi ... ONS: H: 11.9 in 302 mm L: 15.9 in 403 mm W: 7.6 in 193 mm WEIGHT: 22 lbs 10 kg 98562818 **98562817** SCALA2 3-45 1x115V 60 Hz SCALA2 3-45 1x208-230V 60 Hz PERFORMANCE DATA HH m ft 50 16... lang:en score:17 filesize: 1.96 M page_count: 2 document date: 2020-10-07



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NDICE AGUAS RESIDUALES, EFLUENTES, SUMIDERO, USO GENERAL,

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