

A GUIDE FOR UAE VILLA HOMEOWNERS

Why Water Pressure Drops.

Six problems, how to spot yours, and how to fix it.

Weak pressure in a UAE villa almost always comes down to one of a few causes. This guide helps you notice the problem, match what you see to the likely cause, and shows you honestly where a Grundfos SCALA2 booster fixes it, and where the answer is something simpler.



Where some see a problem, we see a possibility to make things better.

[HOW TO NOTICE IT](#)[SIX CAUSES](#)[FIND YOURS FAST](#)[A 2-MINUTE CHECK](#)GRUNDFOS 

How to notice a pressure problem

You are not imagining it. Weak pressure leaves clear signs, and the way it behaves usually points straight to the cause. Start by noticing which of these sound like your home.

YOU MAY HAVE A PRESSURE ISSUE IF

- Your shower feels weaker than it used to.
- Taps take longer to fill sinks or containers.
- Upper-floor bathrooms get less water than the ground floor.
- Outdoor taps and irrigation run weakly.
- Pressure drops the moment another tap opens.
- Pressure changes at different times of day.



Kitchen

The tap fades when an appliance fills.

Showers

Flow drops when a second shower runs.

Upper floor

Weaker the higher up you go.

Garden

Irrigation competes with the house.

What is actually going wrong

Each cause behaves differently. Read what you notice, what is causing it, what to check, and what to do, then see honestly whether a booster is the answer.

01 Demand is outgrowing the system

SCALA2 FIXES IT

Does your shower fade the moment the washing machine or a second tap starts?

WHAT YOU NOTICE

- Pressure drops when several taps run at once.
- Showers weaken while the laundry or irrigation is on.

WHAT TO CHECK

- How many taps, showers and appliances run at the same time.
- Any recent renovation or villa extension.
- New appliances or systems that use water regularly.

WHAT CAUSES IT

Your household water demand has grown past what the existing pressure system was built to deliver. Multiple bathrooms, a pool, irrigation and laundry all pulling together is more than a basic supply can hold.

WHAT TO DO

Upgrade to a pressure booster that adapts to demand automatically, so pressure holds however many outlets are open.

02 Clogged filters and strainers

FIX AT SOURCE

Has your pressure faded slowly over months rather than dropping overnight?

WHAT YOU NOTICE

- Pressure has reduced gradually over time.
- Flow feels weaker than it used to, across several outlets.

WHAT TO CHECK

- Inspect filters for dirt or sediment build-up.
- Check when filters were last cleaned or replaced.
- Review the maintenance schedule for your system.

WHAT CAUSES IT

Sand, sediment and rust slowly collect in filters and strainers. As they clog, they restrict flow and cut the water reaching your fixtures.

WHAT TO DO

Clean or replace filters on the manufacturer's schedule. Regular filter maintenance keeps flow up and protects the pump.

03 A hidden water leak

FIX AT SOURCE

Is your pump running when no one has a tap open?

WHAT YOU NOTICE

- Water bills higher than usual.
- The pump runs when no water is being used.
- Damp patches on walls or floors.

WHAT TO CHECK

- Look for visible dampness.
- Watch the water meter with every tap closed.
- Listen for the sound of running water.

WHAT CAUSES IT

Water is escaping from hidden pipework underground or inside a wall, bleeding pressure out of the system before it reaches your taps.

WHAT TO DO

Arrange a professional leak detection inspection as early as possible. A booster cannot fix a leak, but a sudden drop is an early warning that one has started.

What is actually going wrong

Three more causes. Notice that most of these are not pump jobs at all, and we say so plainly.

04 A partially closed valve

FIX AT SOURCE

Did the pressure fall right after maintenance or servicing work?

WHAT YOU NOTICE

- A sudden pressure drop after work on the system.
- One area of the villa affected more than the rest.

WHAT CAUSES IT

A valve was not fully reopened after servicing, so it is throttling the flow through part of the system.

WHAT TO CHECK

- The main shut-off valve to your home.
- Valves connected to your pressure boosting system.
- Any control valves serving specific areas.

WHAT TO DO

Check that every system valve is fully open and working. This is often the quickest fix of all.

05 Scale built up inside the pipes

FIX AT SOURCE

Have certain bathrooms slowly got worse over several years?

WHAT YOU NOTICE

- A slow decline in pressure over years.
- Some bathrooms or taps affected more than others.

WHAT CAUSES IT

In hard water, mineral deposits build up inside the pipework and narrow it, restricting how much water can pass.

WHAT TO CHECK

- The age of the plumbing system.
- Areas with recurring flow problems.
- Signs of hard water scaling on fittings.

WHAT TO DO

Book a professional pipe cleaning, replacement or plumbing assessment. Scale sits inside the pipe, so a booster cannot clear it.

06 One pipe feeding the whole villa

SCALA2 FIXES IT

Is the upstairs shower always weaker than the one downstairs?

WHAT YOU NOTICE

- Pressure clearly weaker the higher up you go.
- Strong on the ground floor, tired upstairs.

WHAT CAUSES IT

Many villas run one set of pipes to the whole house with nothing to boost the upper floors. Every tap shares the same pressure, so it fades as it climbs.

WHAT TO CHECK

- Whether pressure changes floor by floor.
- How the top floor compares to the ground floor.
- Whether there is any separate boost for upstairs.

WHAT TO DO

A booster that lifts the whole villa to one even pressure and holds it there, so every floor feels the same.

Match what you see to the cause

Start with what you notice. The pattern usually points straight to the likely cause.

WHAT YOU ARE NOTICING	THE LIKELY CAUSE
Low pressure everywhere in the villa	The pump, the tank, or the main supply
Pressure differs from floor to floor	One pipe feeding every floor, no upstairs boost
Pressure drops when several taps run	Demand outgrowing the system, the most common villa issue
Low pressure at one tap only	A blockage or filter at that one spot
Faded slowly over months or years	Clogged filters, or scale inside the pipes
Dropped right after maintenance	A valve left partly closed

SO, CAN A SCALA2 SOLVE IT?

YES	Demand outgrowing the system Holds pressure steady however many taps run.
YES	One pipe, no floor zoning Gives the whole home one strong, even pressure.
NO	Clogged filters Clean or replace them. SCALA2 then holds the rest steady.
NO	Hidden leak Needs a repair. SCALA2 warns you with a sudden drop.
NO	Partially closed valve Reopen the valve. A booster is not the fix.
NO	Scale inside the pipes Descale or replace. Scale sits inside the pipe.

THE SOLUTION

How SCALA2 solves the challenge

Where the cause is a weak or shared supply, this is the part that fixes it. Unlike a conventional pump that runs at one fixed speed, SCALA2 reads your demand continuously and adapts to it.



When demand is low

One kitchen tap open

SCALA2 runs at a lower speed and still holds a comfortable, steady pressure.



When demand increases

Several showers, the kitchen tap and irrigation together

SCALA2 raises its output automatically to keep pressure consistent across the whole villa.

THE RESULT



A consistent shower

No more fade when the family opens other taps.



Reliable upper floors

The top floor finally feels like the ground floor.



Fewer fluctuations

Pressure settles the instant demand changes.



Quiet operation

Around 44 dB(A), you will barely hear it run.



Energy efficient

It draws only the power the moment needs.



One compact unit

Pump, motor, tank, sensor and valve, all in one box.

A 2-MINUTE CHECK, NO TOOLS NEEDED

Test your supply in two minutes

Before you call anyone, you can tell in two minutes whether your supply is the problem.

1

Open one tap and notice how strong the flow is.

2

Open two or three more taps around the house at the same time.

3

Look back at the first tap. Did the flow fall away noticeably?

WHAT IT MEANS

If the flow drops when the house gets busy, your supply cannot keep up with demand, and that is the everyday problem SCALA2 is built to solve.

GOOD TO KNOW

SCALA2 works with the roof or ground tank you already have. For homes larger than three floors or eight taps, Grundfos makes bigger boosters for the same job.

THE HONEST BOTTOM LINE

Find the cause first. If it is your supply, SCALA2 gives every tap one steady, quiet pressure. If it is a blockage, a leak, a valve or scale, fix that at the source, and SCALA2 keeps the rest rock steady.

BOOK A VILLA WATER ASSESSMENT

grundfos.com/ae