

No more wimpy showers to conserve water!



SAVES €€€

- Reduced water costs
- Reduced energy for heating water (it is estimated that 75% of all water used in hotel rooms requires heating)
- Reduction in water results in a reduction in electricity for pumping to high floors
- Reduced sewerage effluent costs
- Most customers achieve 100% payback in less than 12 months

Tried, proven and tested in major sites around the world, where water is a valuable commodity!

SES Ltd uses patented vacuum boosted valve technology to provide a shower so powerful no one is aware they are conserving water. Hotels love them and guests even ask if they can buy SES Ltd showerheads!

SES Ltd provides showerheads made to match the specific pressure and flow requirements of your building. With a range to cover most applications – SES Ltd also allows you to choose your own preferred flow rate and matches it to your water pressure.


SmartEnergySystems Ltd.
water, energy, environment save everyday.

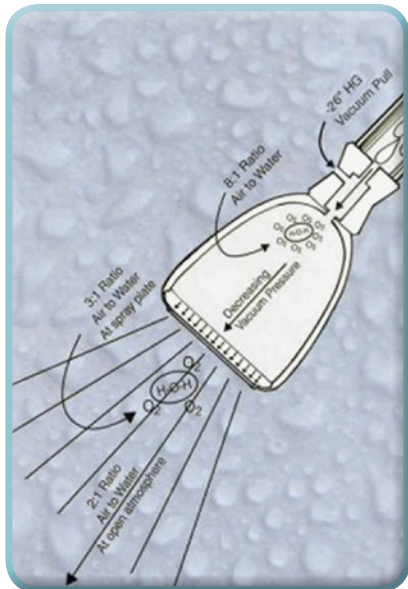
To find out more about the unique patented SES Ltd showerheads contact SES Ltd on:

Tel: **(065) 6895280** • E-mail: **info@smartenergysystems.ie**

Website: **www.smartenergysystems.ie**

How does it work?

Water enters our patented VACUUM flow “booster” valve where it is aerated and compacted under pressure. Due to the intense force of the vacuum chamber, the aerated water “explodes” as it exits the shower head, creating a powerful shower stream at a very low flow rate (4 to 6 litres per minute).



The Vacuum flow technology works in 4 separate ways to offer these levels of performance:

- The vacuum created is much stronger for taking in the air and aerating the water.
- Further air is also added to the water due to the unique and patented flow paths that both the air and water follow.
- The same vacuum used to add air into the water is then also used to “explode” the water out from the showerhead creating a powerful flow stream even at very low flows.
- Performance is optimised for each showerhead by it being engineered to match the pressure conditions of the building with a choice of flow rates.

Advantages of SES Showerheads

1 Improves Shower Performance - The force of the vacuum booster valve increases the shower stream flow impact intensity by 1.75 times greater than other conventional low-flow shower streams.

2 Saves Water and Energy - By reducing the consumption of hot water, our patented aeration technology significantly lowers gas and water expenses as well as electrical costs for pumping. Effluent costs are also reduced. Choosing a 5 Litre/Min showerhead or less saves the most water, energy and money.

3 Helps Solve Low Pressure Problems - The powerful release from the vacuum chamber creates a pressure boosting effect that counters the weak flow stream that accompanies low water pressure.

4 Reduces Scale - When water enters the vacuum chamber, droplets are large and relatively slow-moving (a very undesirable trait in a flow stream). Under the intense vacuum force water droplets are compacted and highly energized. As they exit the vacuum chamber the smaller droplets both expand and vibrate rapidly. This combination of vibration, smaller-sized droplets and increased velocity dramatically reduces the formation of mineral crystals (scaling) by eliminating attachment sites on the front face of the spray plate