

Water Technologies

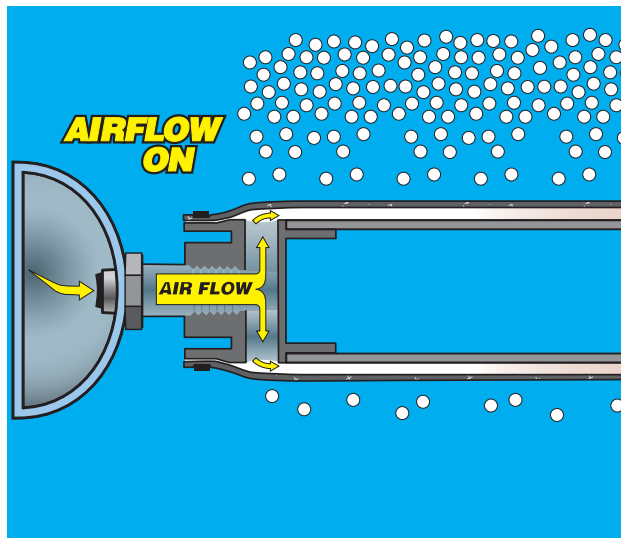
FlexLine™
Nonbuoyant
Tubular Diffuser

SIEMENS

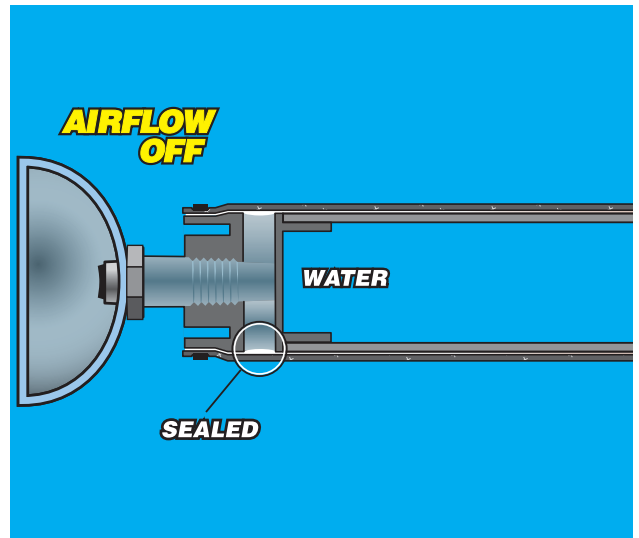


The FlexLine™ Fine Bubble Air Diffuser

FlexLine™ tubular fine bubble diffusers have many operating advantages over coarse bubble type diffusers. The FlexLine™ diffuser produces micro-fine bubbles that increase the bubble surface contact area with the water, greatly increasing the oxygen transfer efficiencies resulting in lower air volume requirements. The higher transfer efficiencies assure lower energy costs and improved effluent quality. While other diffusers emit a narrow column of air, the FlexLine™ diffuser produces a broad envelope of bubbles that greatly increases transfer efficiency and improves mixing.



When airflow is present, sleeve inflates around exterior of support tube, creating uniform air distribution over entire membrane surface. Larger perforated surface area greatly increases transfer efficiency.



The FlexLine™ support tube is open at both ends, allowing water to completely fill the tube; thus eliminating buoyancy and bounce that weakens joints and causes leakage that affect most other systems. When airflow is off, membrane contracts and seals off distribution chamber, eliminating chance of backflow.

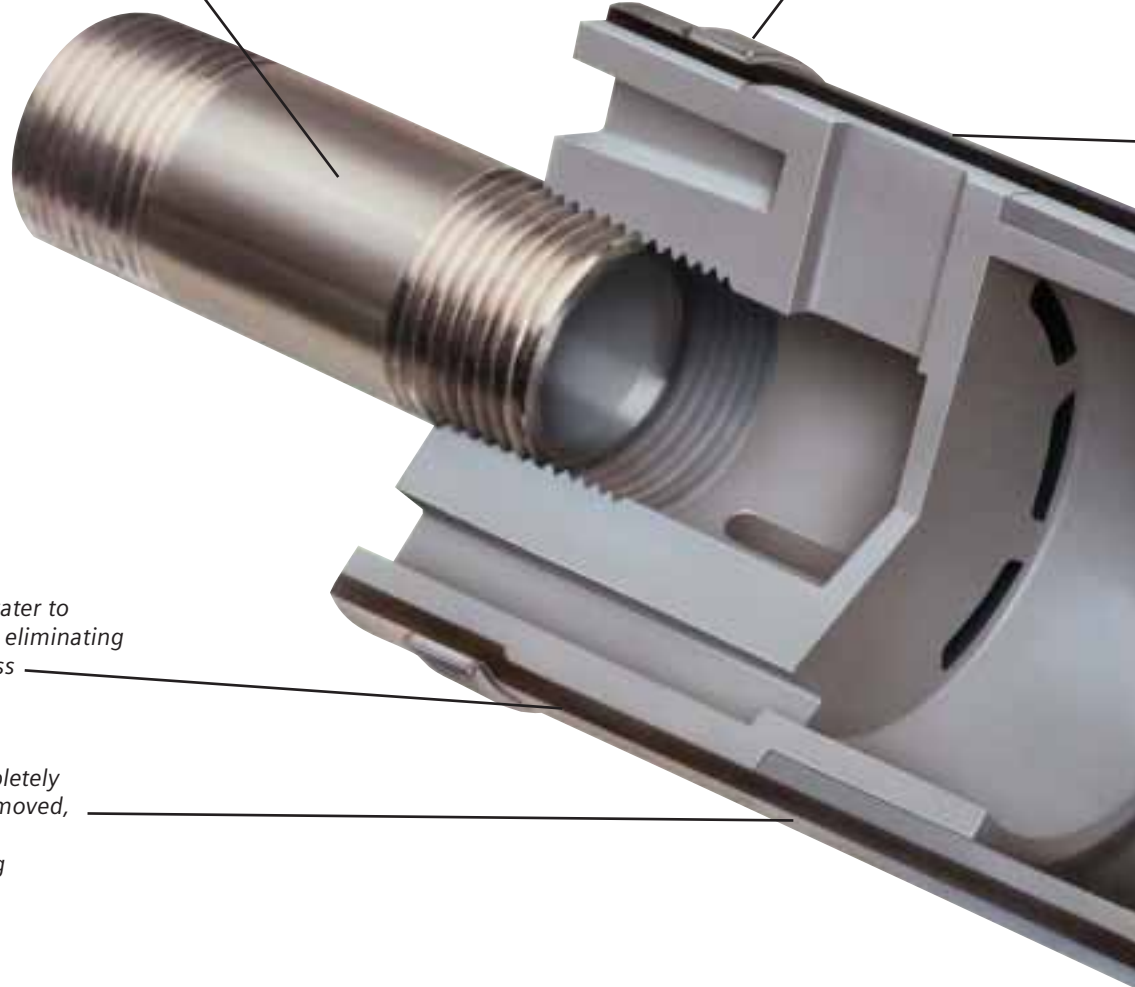


HIGHER AIRFLOW, BETTER PERFORMANCE

FlexLine™ diffusers can often outperform disk type fine bubble diffusers. Because FlexLine™ diffusers are 24" long and have 8400 bubble producing "I" slits, you can realize flow ranges up to 7 CFM and still maintain high oxygen transfer efficiencies and low headloss. This could substantially reduce the number of diffusers required thereby providing a more economical installation. The FlexLine™ flexible membrane sleeve with precision perforated "I" slits expands to produce fine bubbles then contracts immediately sealing itself when the air supply is stopped. This feature dramatically reduces the chance for backflow or solids to clog the diffuser.

3/4" stainless steel nipple ensures strong connection between diffuser and header, eliminating chance of breakage

simple, stainless steel clamp on both ends of the support tube holds the membrane firmly in place



channeled passageways allow water to completely fill the support tube, eliminating diffuser buoyancy and joint stress

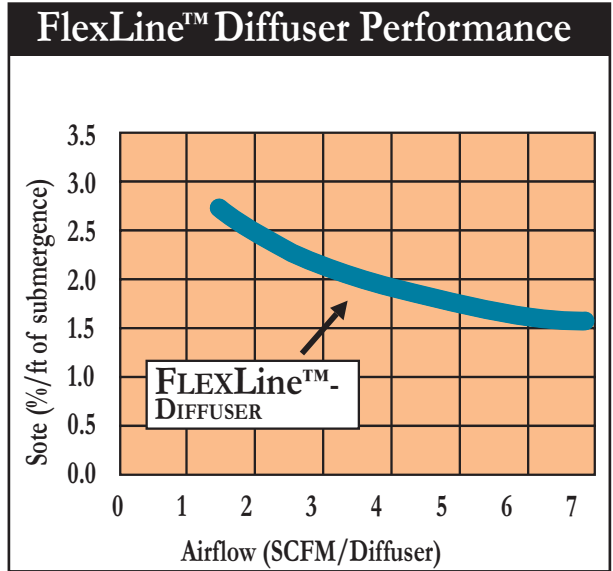
two air channels fill sleeve completely with air; when air pressure is removed, sleeve contracts, sealing off air distribution chamber eliminating backflow

NON-BUOYANT DESIGN IMPROVES RELIABILITY

The FlexLine™ assembly's unique open end tube design allows water to completely fill the diffuser support tube. This eliminates diffuser buoyancy and resulting diffuser bounce during operation, the major cause of nipple end connection failure.

ALWAYS THE SMART CHOICE.

The FlexLine™ diffuser is just the latest example of Siemens' commitment to the wastewater treatment industry. In addition, Siemens offers you full technical assistance and complete piping systems for new or retrofit installations.



FlexLine™ Diffusers provide superior oxygen transfer efficiency over a wide range of airflow rates.

rugged PVC molded distribution hub lasts a lifetime

heavy-duty membrane is specially formulated and molded, EPDM compound with 100% rebound memory and will last 5 to 10 years



Your One Source For Air Diffusers

BIGGEST SELECTION

Siemens Water Technologies offers the most complete line of fine and coarse bubble, plastic, stainless steel and membrane air diffusers of any company in the industry. Our broad selection guarantees you'll find the right diffuser for your application.

BEST QUALITY; BEST SUPPORT

Our air diffusers are unsurpassed for efficiency, low cost and performance. We also offer full technical support to assist you with everything from air diffuser selection to complete aeration piping systems design.

FASTEST DELIVERY

Most of our diffuser products are stocked and ready for immediate shipment. We'll also send FREE samples for your review. Our toll free order and service number guarantees fastest answers, fast product and no costly delays. For new or replacement air diffusers, just call your source!



WideBand™ Stainless Steel Coarse Bubble Diffuser



*FlexDome™ Fine Bubble Diffuser
(Ceramic dome replacement)*



*FlexLine™ Fine Bubble Diffuser
(Tubular membrane replacement sleeves also available)*



SED™ Coarse Bubble Diffuser



VariAir™ Coarse Bubble Diffuser



Snap-Cap™ Coarse Bubble Diffuser



AirSeal™ Coarse Bubble Diffuser



DualAir® Fine Bubble Diffuser



AirBand™ WideBand Plastic Coarse Bubble Diffuser



*FlexDisc™ Fine Bubble Diffuser
(Threaded connection)*

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