

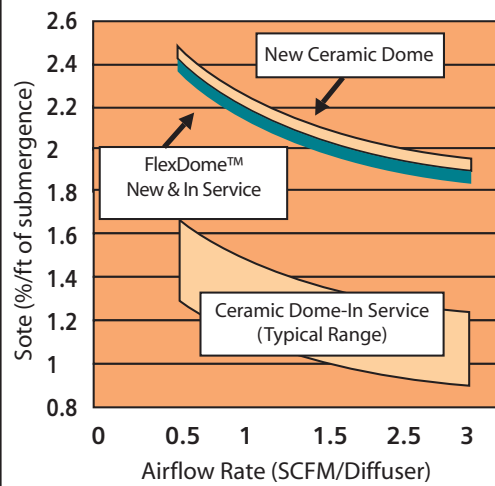


Retrofit Ceramic Domes With FlexDome™ Fine Bubble Diffusers

Water Technologies

SIEMENS

FlexDome™ Vs Ceramic Dome Comparison



The chart above demonstrates that the excellent performance properties of FlexDome™ diffusers exceed in-service ceramic domes.

FlexDome™ Air Diffuser – The Innovative Retrofit Solution

Moving to the latest membrane technology once meant starting from scratch. But FlexDome™ diffusers changed that. Its innovative, bolt-on design allows you to replace just your ceramic dome media – keeping the rest of the piping systems intact. No modifications required... a first in membrane diffuser engineering. In fact, installation of the

FlexDome™ assembly is so simple, it actually takes less time than cleaning your existing ceramic dome system. We'll be glad to send samples for your review.

Precisely resist to clean when closed stoppe



FlexDome™ membrane replaces ceramic style dome diffuser

Threaded lock ring is screwed down to hold the membrane firmly in place

Environmentally resistant and durable base is constructed of molded polypropylene





Typical FlexDisc™ system installation.

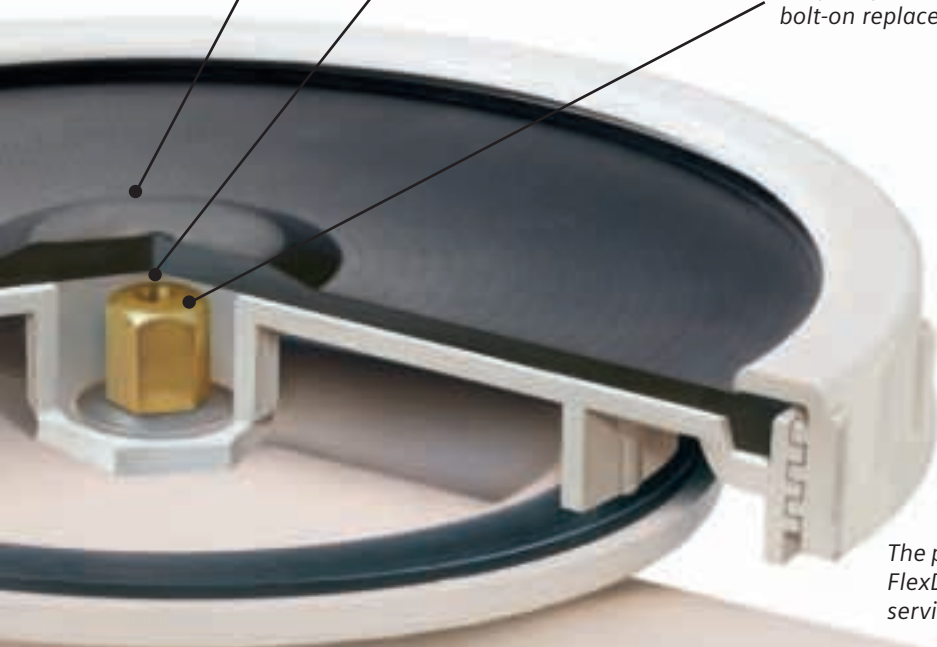
on perforated "I" slits
tearing and stay
r, longer...open
airflow is present,
when airflow is
ed

Thickened center
prevents ballooning and
tapered membrane
guarantees equal, fine
bubble distribution
across entire surface

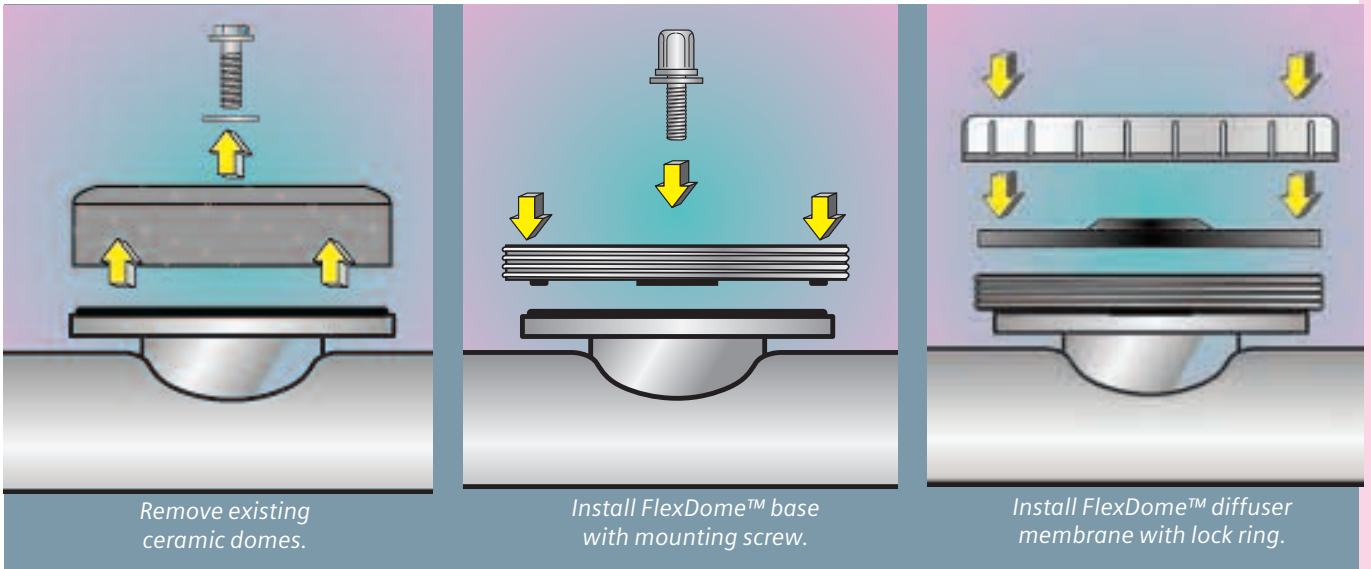
Specially formulated
and molded, EPDM
compound has 100%
rebound memory and
will last 5 to 10 years,
even at low airflow
rates

Orifice bolt sized
for controlled
airflow rate

Simple, quick,
bolt-on replacement



The performance properties of
FlexDome™ diffusers greatly exceed in-
service ceramic domes.



Remove existing ceramic domes.

Install FlexDome™ base with mounting screw.

Install FlexDome™ diffuser membrane with lock ring.

FlexDome™ Air Diffuser – A Better Choice

Cuts Maintenance And Downtime

FlexDome™ diffusers offer dramatically decreased maintenance and downtime as compared to ceramic dome systems, which require regular cleaning to maintain performance. Cleaning ceramic domes requires draining the tanks, hose cleaning and spraying with dangerous acids or gases. The FlexDome™ membrane with its smooth outer surface, uniform bubble distribution and continuous flexing eliminates build-up of any type.

The FlexDome's unique sealing action when the airflow is stopped eliminates plugging and filling of the headers with water which is common with ceramic domes, assuring a lifetime of efficient, maintenance free performance.

Converting your existing ceramic coarse bubble domes to FlexDome™ fine bubble diffusers is as simple as 1-2-3.

Improves Performance

When compared to ceramic domes, the highly efficient FlexDome™ system will cut your electric utility costs by 25% to 40% (see Comparison Chart). Ceramic dome diffusers with their rough surfaces and non-uniform air distribution encourage biogrowth which results in reduced oxygen transfer efficiency and plugging. The higher oxygen transfer efficiencies maintained over the long term by FlexDome™ will improve effluent quality and permit greater process flows.



WideBand™ Stainless Steel Coarse Bubble Diffuser



FlexDome™ Fine Bubble Diffuser
(Ceramic dome replacement)



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



FlexDisc™ Fine Bubble Diffuser
(Threaded connection)



SED™ Coarse Bubble Diffuser



DualAir® Fine Bubble Diffuser



VariAir™ Coarse Bubble Diffuser



Snap-Cap™ Coarse Bubble Diffuser



AirSeal™ Coarse Bubble Diffuser

Your One Source For Air Diffusers

Siemens offers the most complete line of fine and coarse bubble, plastic, stainless steel and membrane/ceramic air diffusers of any company in the industry, guaranteeing you'll find the right diffuser for your application. We also offer full technical support to assist you with everything from air diffuser selection to complete aeration piping systems design. For new installations, retrofit, or replacement, we're your one source.



AirBand™ WideBand Plastic Coarse Bubble Diffuser

FlexDisc SED, FlexDome, VariAir, Snap-Cap, AirSeal, WideBand, AirBand, DualAir, FineAir and FlexLine are trademarks of Siemens, its subsidiaries or affiliates.

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

Tel: 262.547.0141
Fax: 262.547.4120

EN-RETDOMdr-BR-0409
Subject to change without prior notice.

©2009 Siemens Water Technologies Corp.