

T E C H N I C A L D A T A S H E E T

SSI™ COARSE BUBBLE DIFFUSERS

STAINLESS STEEL WBCB



Our Stainless Steel WBCB diffusers are available in 304L or 316L stainless steel. The diffuser is made with cast endcaps welded all around. A typical piping system utilizing SSI WBCB diffusers is made from Stainless Steel pipe with 3/4" FNPT gusseted tees or elbows welded to the bottom center line. Deflectors are supplied with each diffuser but can be removed. The coarse bubble diffuser is intended to be a clog-free design, with oxygen transfer rates of 0.5 to 0.8% per foot of submergence (1.7 to 2.5% SOTE/m).

They have a reliable alpha value and are designed to economically cover the tank floor. This diffuser is most often applied for mixing in aerobic digesters, channels, equalization tanks and grit chambers.

- Design Flow: 10-40 SCFM (17-67 Sm³/hr)
- Flow Range: 0-40 SCFM (0-67 Sm³/hr)
- Hole Quantity: 24 Holes
- Length: 24" (600mm)

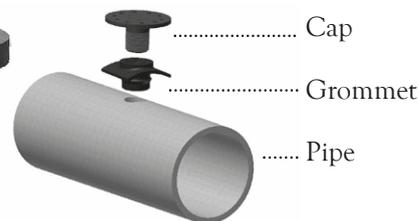


THE SSI™ RELIA-BILL™ COARSE BUBBLE JET DIFFUSER

This excellent diffuser from SSI is a non-clog type that automatically closes and seals completely when air is turned off. Unlike stainless steel wideband-type diffusers, this model will not be clogged by rags in the tank.

CAP AFC75

Caps are most commonly used in aerobic digesters and equalization tanks where high rate oxygen transfer efficiency is not required. They are manufactured from black Acrylic plastic containing UV protection and membranes are made from the same EPDM compound that SSI uses in fine bubble disc diffusers. Caps have a 3/4" MNPT thread. SSI's Cap diffuser is a non-clog design and operates well under intermittent and continuous conditions. A typical piping system utilizing SSI AFC75 diffusers is made from PVC, CPVC or Stainless Steel pipe, with Grommets, Drilled and Tapped pipe, or welded 3/4" FNPT SS bosses to the top center line.



- Design Flow: 3-6 SCFM (7-10 Sm³/hr)
- Flow Range: 0-10 SCFM (0-17 Sm³/hr)
- Hole Quantity: 10 x 5mm Ø holes

Please see reverse for additional technical data

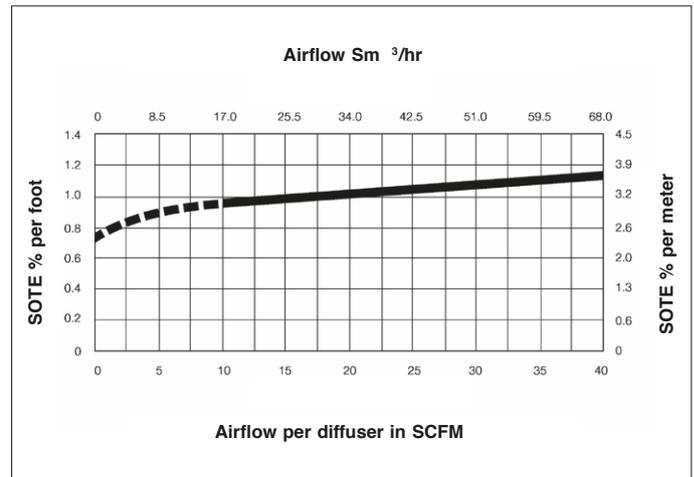
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SSI™ COARSE BUBBLE DIFFUSERS

continued

STAINLESS STEEL WBCB

| Airflow in SCFM | Airflow in m ³ /hr. | Orifice Size in Inches | Headloss in Inches WC | Headloss in mm WC |
|-----------------|--------------------------------|------------------------|-----------------------|-------------------|
| 5 | 8.5 | 5/16" | 10" WC | 254 mm WC |
| 10 | 17 | 7/16" | 10" WC | 254 mm WC |
| 15 | 25.5 | 9/16" | 10" WC | 254 mm WC |
| 20 | 34 | 11/16" | 10" WC | 254 mm WC |
| 25 | 42.5 | 3/4" | 10" WC | 254 mm WC |
| 30 | 51 | 3/4" | 14" WC | 355.6 mm WC |
| 35 | 59.5 | 3/4" | 19" WC | 482.6 mm WC |
| 40 | 68 | 3/4" | 25" WC | 635 mm WC |



CAP AFC75

