

COMPARISON SHEET PLATE VS. DISC DIFFUSER

OXYFLEX® MF1100



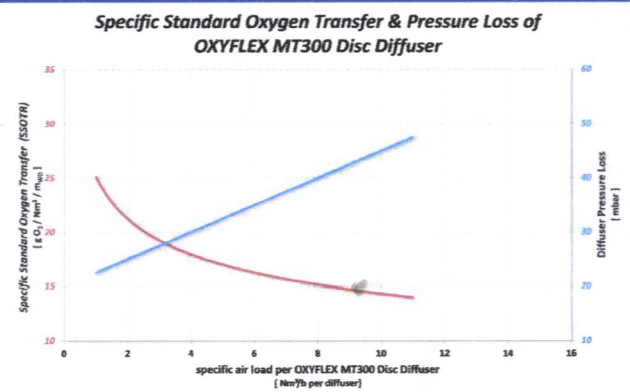
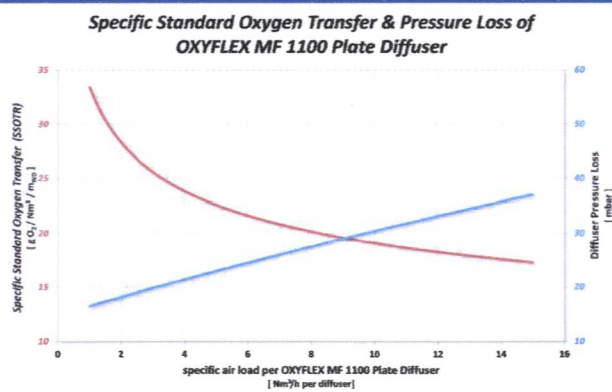
OXYFLEX® MT300/12"



Efficiency & Pressure Loss Plate Type Disc Type

OXYFLEX® plate diffuser realizes higher oxygen transfer rate and lower pressure loss compared to any disc diffuser.

(Values cannot be directly transferred to other systems – they vary dependent on numerous boundary conditions. We gladly prepare technical datasheets for any case upon request)

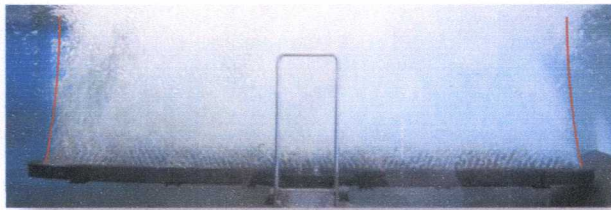


Bubble Pattern

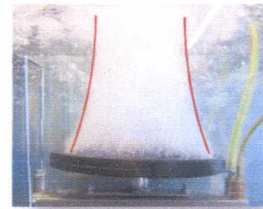
Plate Type

Disc Type

Minimizing of the „Candle Flame Effect“ with Plate Diffusers.



Better saturation caused by minimized constriction of ascending bubbles, resulting in higher oxygen transfer efficiency.



Constriction of the ascending bubble flow

Active Working Area

Plate Type

Disc Type

OXYFLEX® MF1100 has 300% of active area compared to 12" - even 500% of gassing area compared to 9" disc diffuser.

OXYFELX® MF1100



The special shape of the active working area ensures:

- ✓ low specific load of membrane
- ✓ good oxygen entry
- ✓ low opening pressure
- ✓ low pressure loss over the whole life time

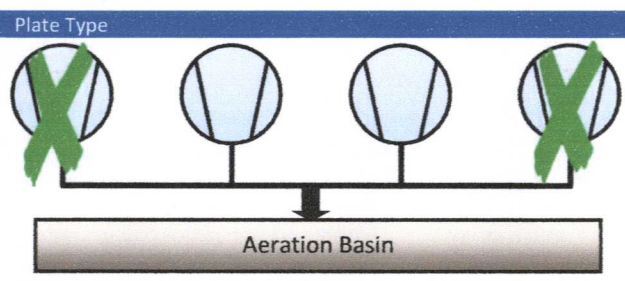
12" disc diffuser



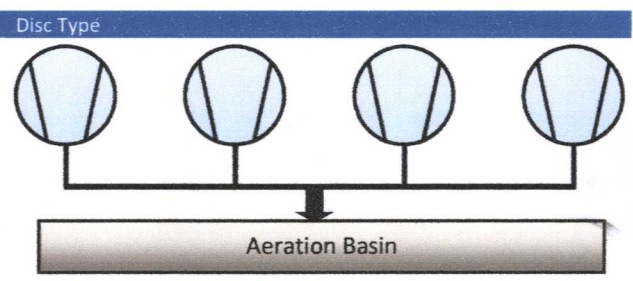
9" disc diffuser



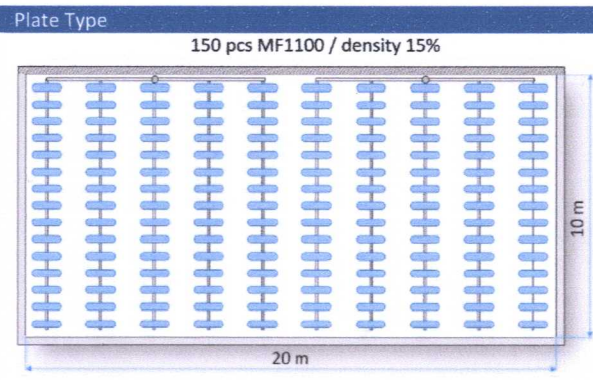
Air Savings
 Air savings up to 40% caused by energetic optimized aeration help to reduce investment cost for blower capacity and operation costs significantly.



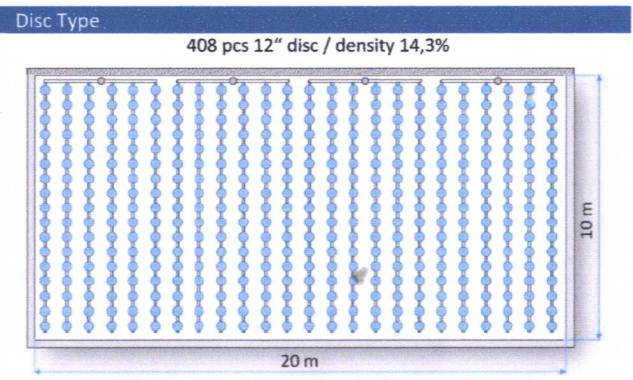
Higher oxygen transfer efficiency, helps to reduce required air amount, i.e. savings in invest- and operation costs are possible!



Pipe Savings
 The special shape of plate diffuser results in pipe savings and less installation work for reaching same diffuser densities. These savings can compensate the higher cost for plate diffuser type. Even higher diffuser density, i.e. higher oxygen transfer is possible with plate diffusers.



Grid needs around 106 pipe meters with OXYFLEX® MF1100



Grid needs around 233 pipe meters with 12" disc

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