

# **AWA200 2 layer and AS-25 diffuser**



# How to use

AWA200 2 layer unit includes AS-25 diffuser and one LTF producing cup. This LTF aerator balances dissolved gas ratio the same as input air. Unnecessary dissolved gas will be removed thus leave room for new air to come in. Use necessary nipples to attach to 1" female thread.

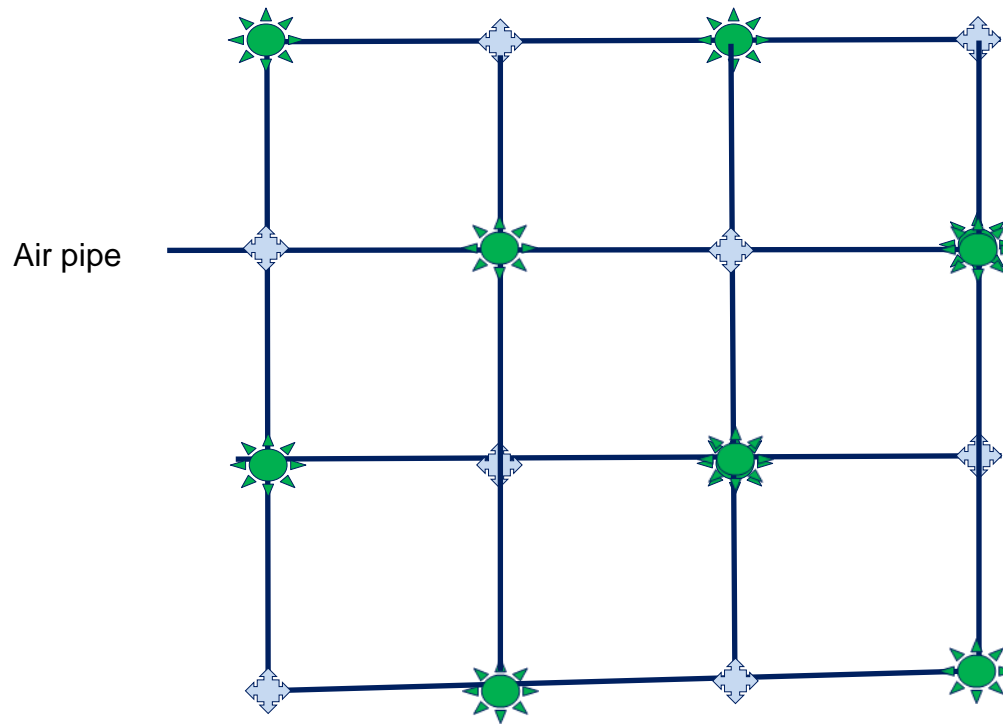
AS-25 is pulse air diffuser that act like agitator to mix water and sludge.

For aeration basin, mixed use of AWA200 2 layer and AS-25 is recommended. 1:1 or 1:2 mixed use.

The air volume requirement through each device for wastewater treatment is 100 to 200L per minute.

You can replace existing fine bubble diffusers with AWA200 2 layer and AS-25 units without any other change to enjoy immediate improvement of aeration efficiency.

# AWA200 Single LTF and AS-25 diffuser Placement example



# A case study of AWA200(2 layer) aerator DO increase

Original conditions : 11 units of fine bubble diffusers

**DO : < 0.2ppm**

Improved conditions : Replaced all diffusers with 5 x AWA200 and 6 x new pulse diffusers(mixing of sludge)

**DO : > 3ppm**



Fine bubble diffuser



AS-25 Pulse diffuser



AWA200 (Two layer)



Inside of aeration tank

# DO increase by AWA200

Just placing AWA-200 units at the surface of aeration basin, DO of treated water increased from 0.3ppm to 3.6ppm.



No other change is made but covering the surface of basin with AWA200. Even partial covering will increase DO level.