

AIRFLOW 270/350

FINE BUBBLE DIFFUSER



Diffuser Feature

Characteristic of fine-bubble diffuser

1. High Oxygen transport effort (OTE)

There are 4000 air holes spread averagely on EPDM membrane. This generates fine bubble (around 1-3mm). Due to those small bubble have great contact surface, low speed and long time reaction can be performed. Therefore, high OTE makes whole aeration process operates well even under small flow rate, it will have high performance.

2. Save Energy

High effort on transfer oxygen and it can select economical PD blower to achieve aeration require DTR. The ability to prepare oxygen is up to 25% in 4 meter deep water with wind capacity 2CMH.

3. Prevent Backflow

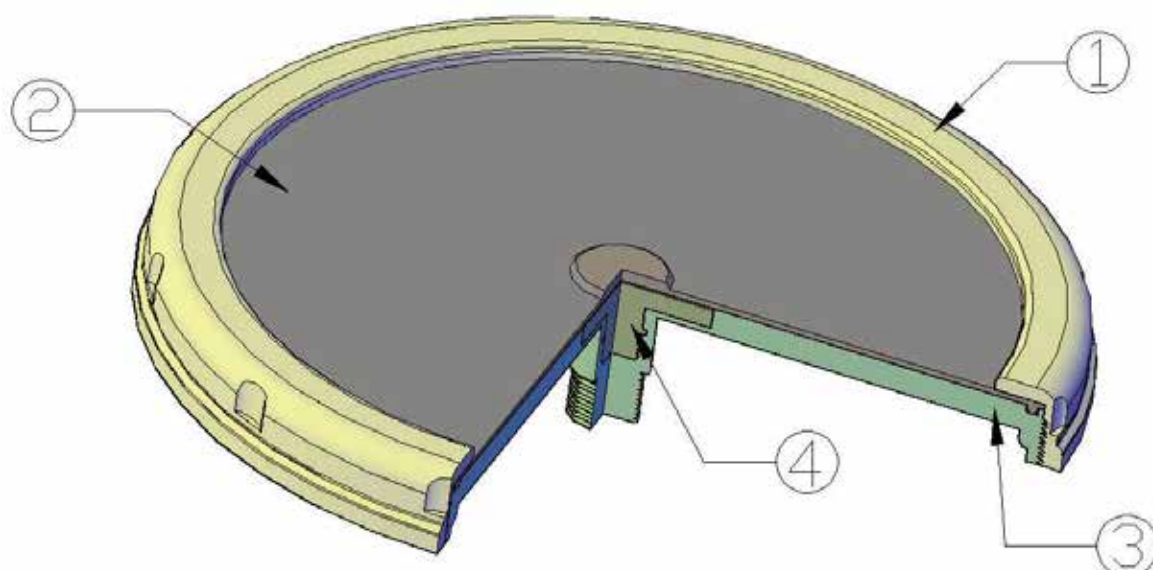
In order to prevent backflow happened, all air holes can turn on and off automatically.

4. Extended Life

EPDM membrane is made of special flexible polymer. This material is flexible and not easy to become deformed. Production method for EPDM membrane is not by normal infusion, but by extrusion. The advantage of extrusion is whole membrane can afford same compression and cause less damage when used.

Single Membrane Construction

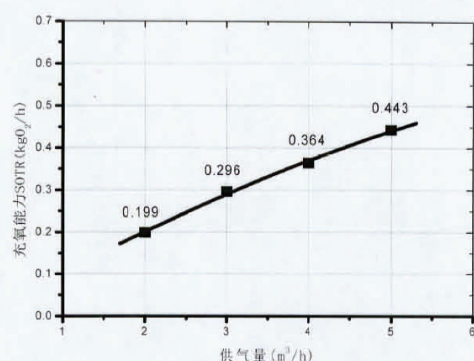
Item no.	1	2	3	4
Description	Ring	Membrane	Base	Plug/check valve
Material	P.P	EPDM	P.P	P.P



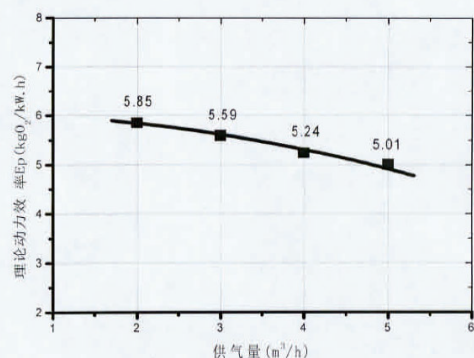
Date Sheet

Model	EAD-270	EAD-350
Membrane	EPDM	EPDM
Base	PP/ABS	PP/ABS
Diameter of Disc	269±3mm	345.5±3mm
Air Flow	1.0~6.0(m³/h)	1.0~12.0(m³/h)
Bubble Size	1~3(mm)	1~3(mm)
Service Area	0.0375m²	0.0638m²
Recovery Rate	5~15(%)	5~15(%)
Weight	0.75 kg	1 kg
Operation Temp.	< 95°C	< 95°C
Connection	20mm(3/4")	20mm(3/4")

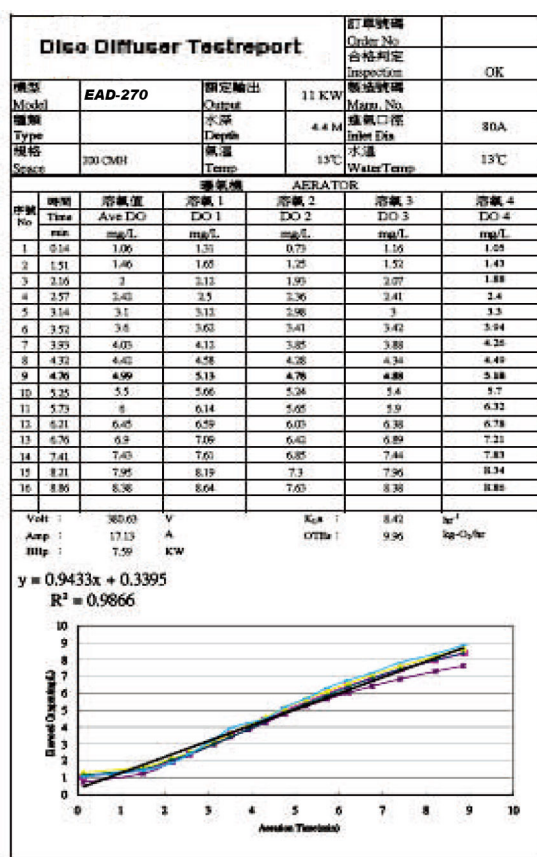
Test Report



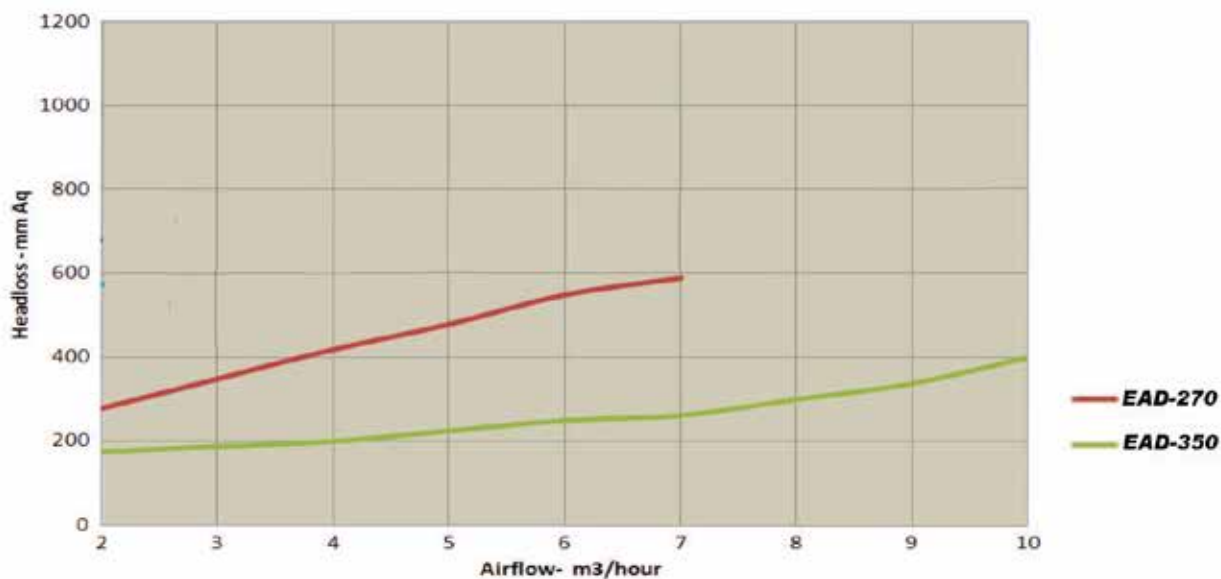
图一 充氧能力随供气量变化趋势



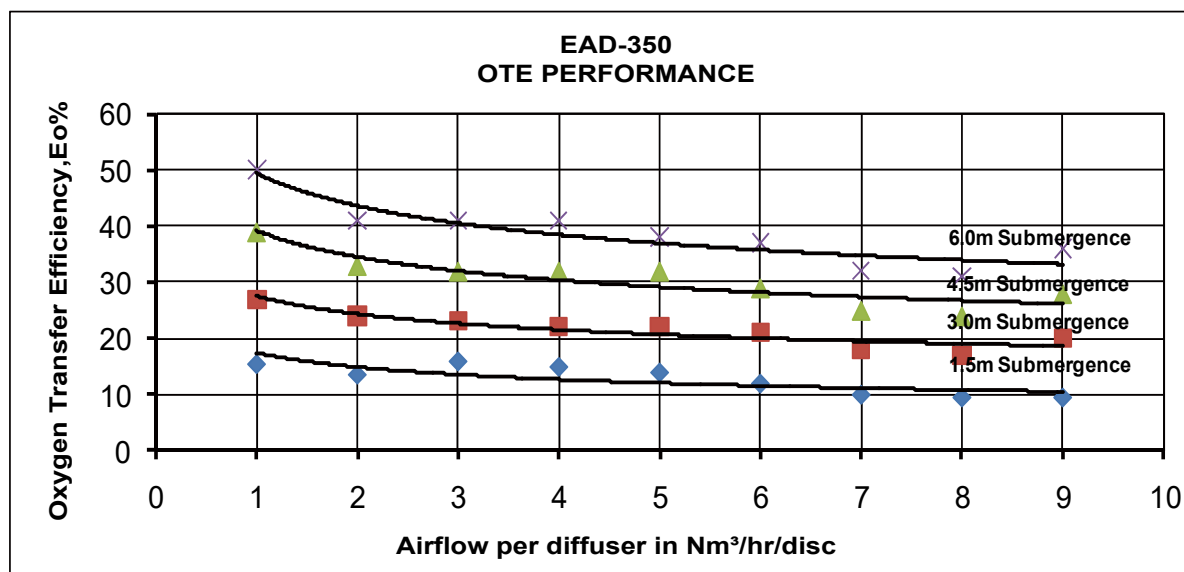
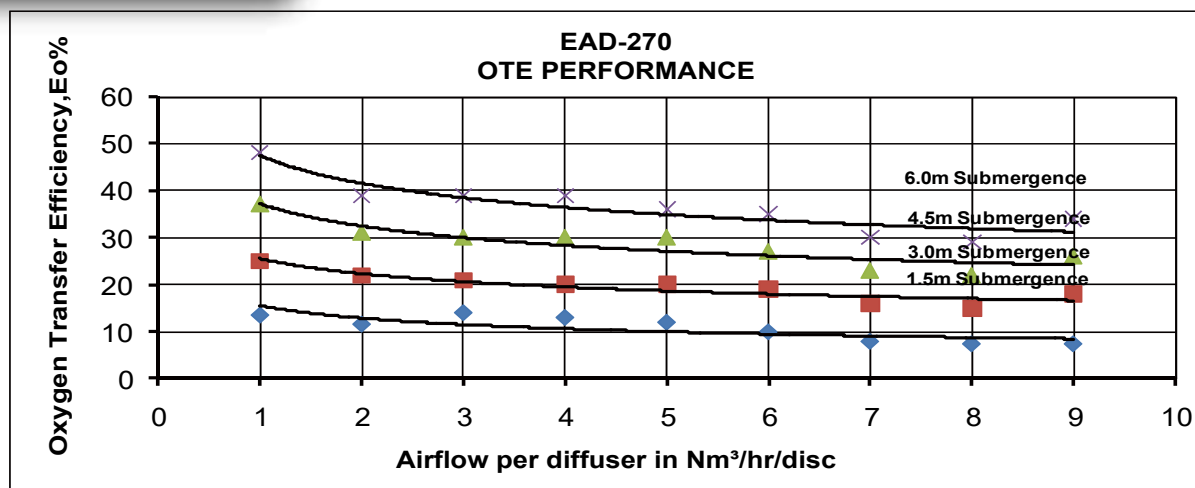
图二 理论动力效率随供气量变化趋势



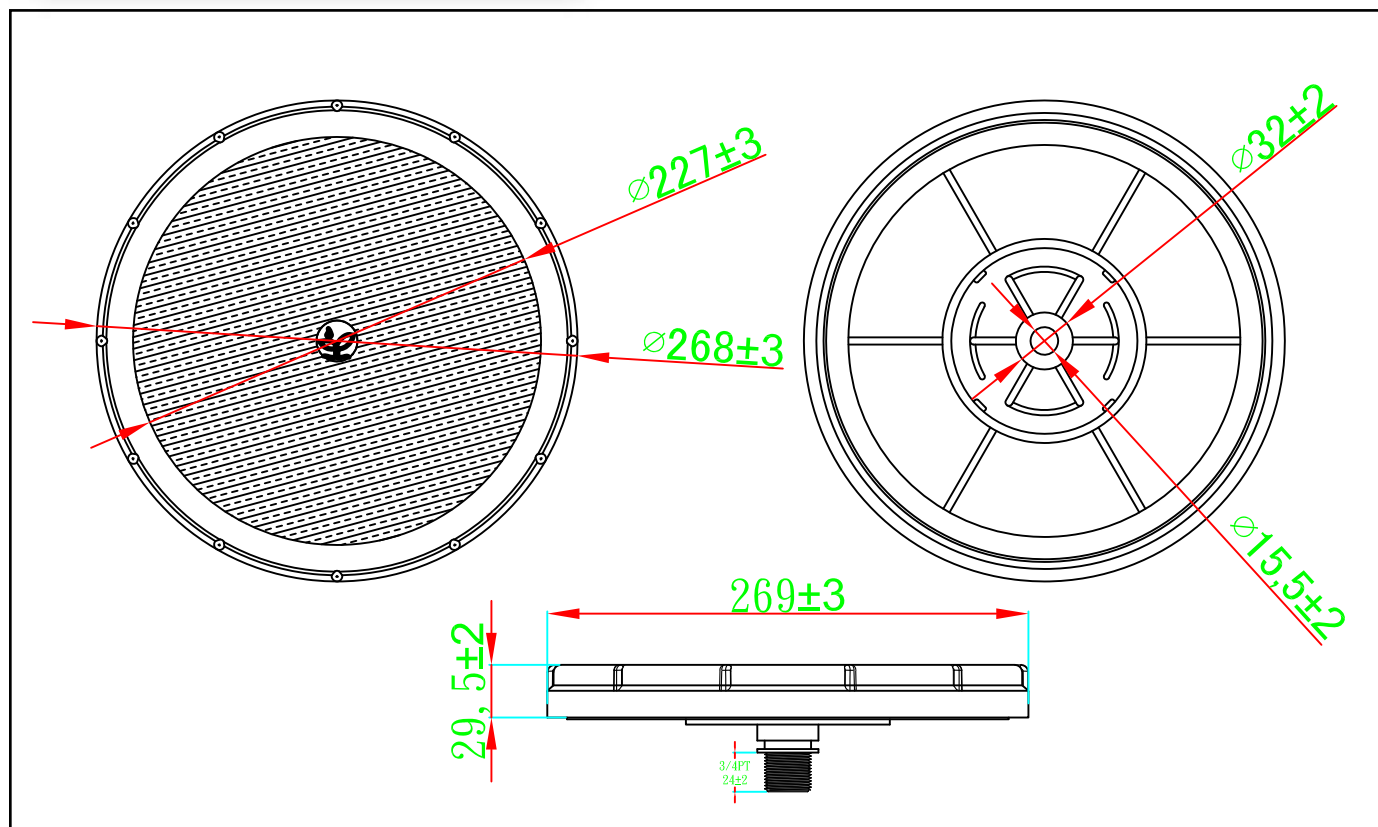
Headloss Curve



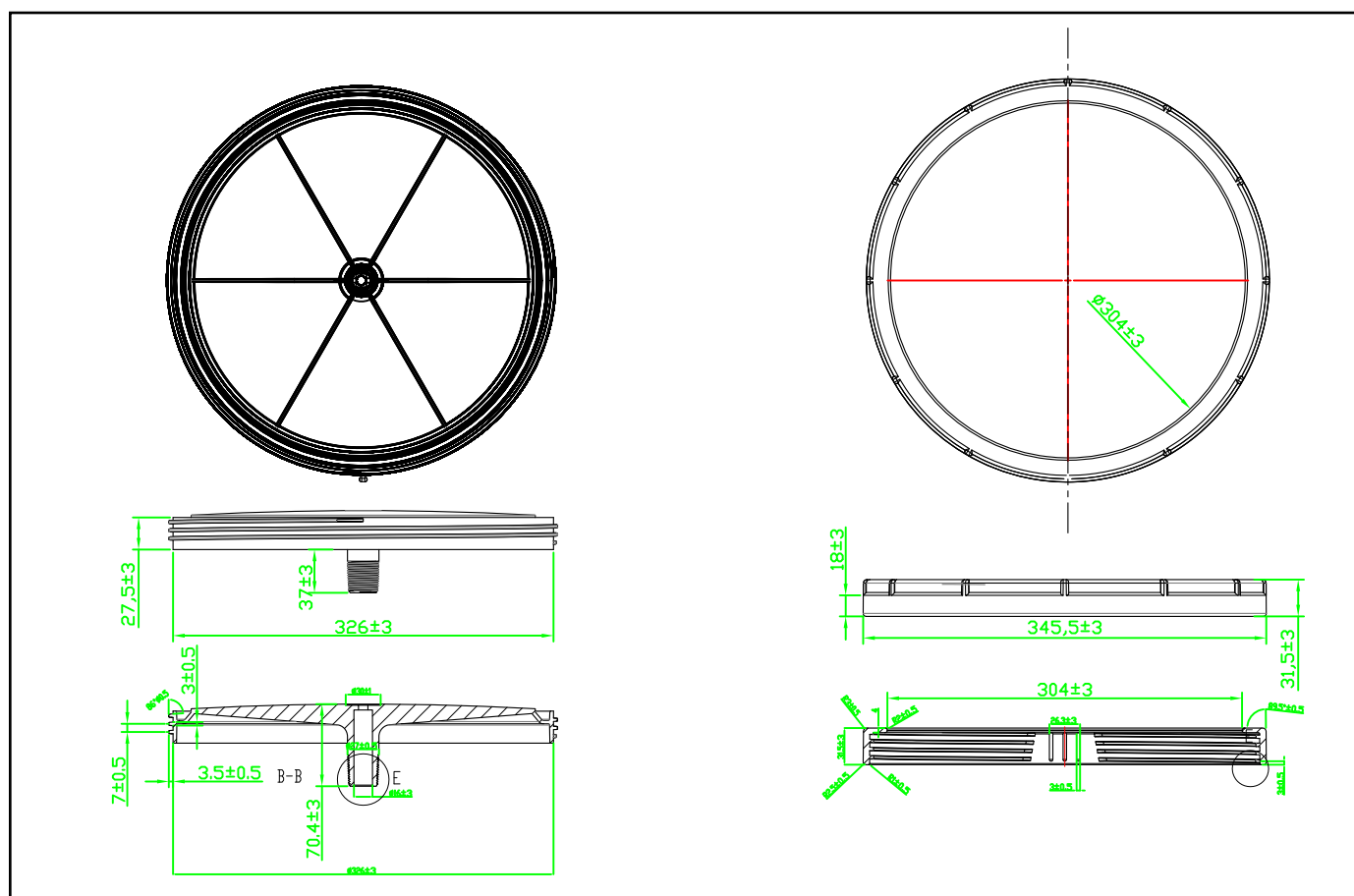
Performance Curve



Dimensions Drawing(mm)



EAD - 270



EAD - 350