



## MODEL RSD-270 &350





## **SINGLE MEMBRANE DISC DIFFUSER**

1.01 :MODEL : RSD

1.02 :QUANTITY : PC

### **2.01 MATERIAL OF DIFFUSER**

- A. High quality EPDM membrane
- B. The membrane must close quickly when stop air supply , The self-cleaning design prevents clogging and highly resistant to fouling, The physical characteristic is as follows:

Tensile strength	2000 PSI
Tear strength	110 Lb/linear inch
Ozone resistance	Pass
UV resistance	Pass
Durometer	60
Ultimate elongation	700%

- C. The disc base and retaining ring shall be molded high quality ABS( POLYLAC) .  
The physical characteristic is as follows::

Specific Gravity	1.06
IZOD Impact Strength	2.6 ft-lb/in
Tensile Strength	7090 PSI
Tensile Elongation	15%
Maximum Temperature	85°C

- D. Connection to the air header : 3/4" NPT threads

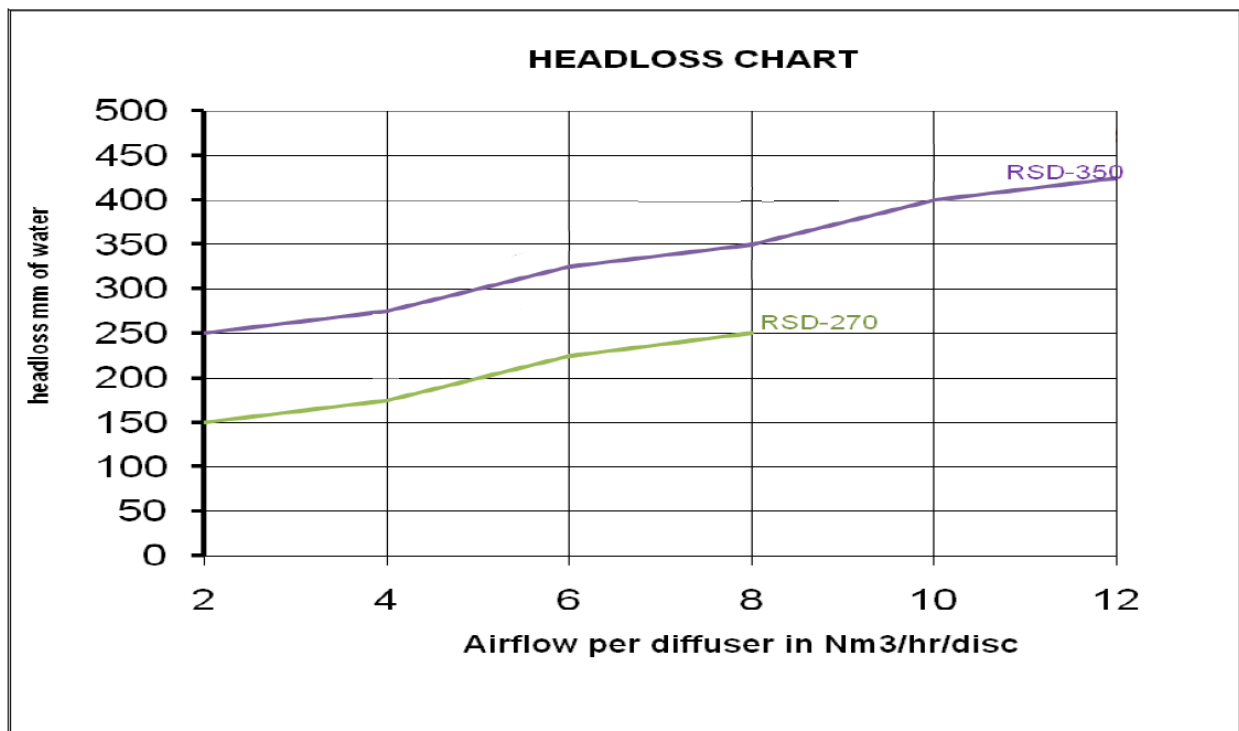
### **2.02 Features:**

- ☐ Low operating costs  
Reduced energy consumption when we operated the membrane diffuser brings considerable cost savings
- ☐ Constant back valve  
The self-cleaning design prevents clogging and highly resistant to fouling
- ☐ High oxygen transfer rate  
Equally distributed micro pores on the diffuser membrane.  
Consistently produce 1-3 mm fine air bubbles that increase the surface contact area with water, greatly increasing the oxygen transfer efficiency.



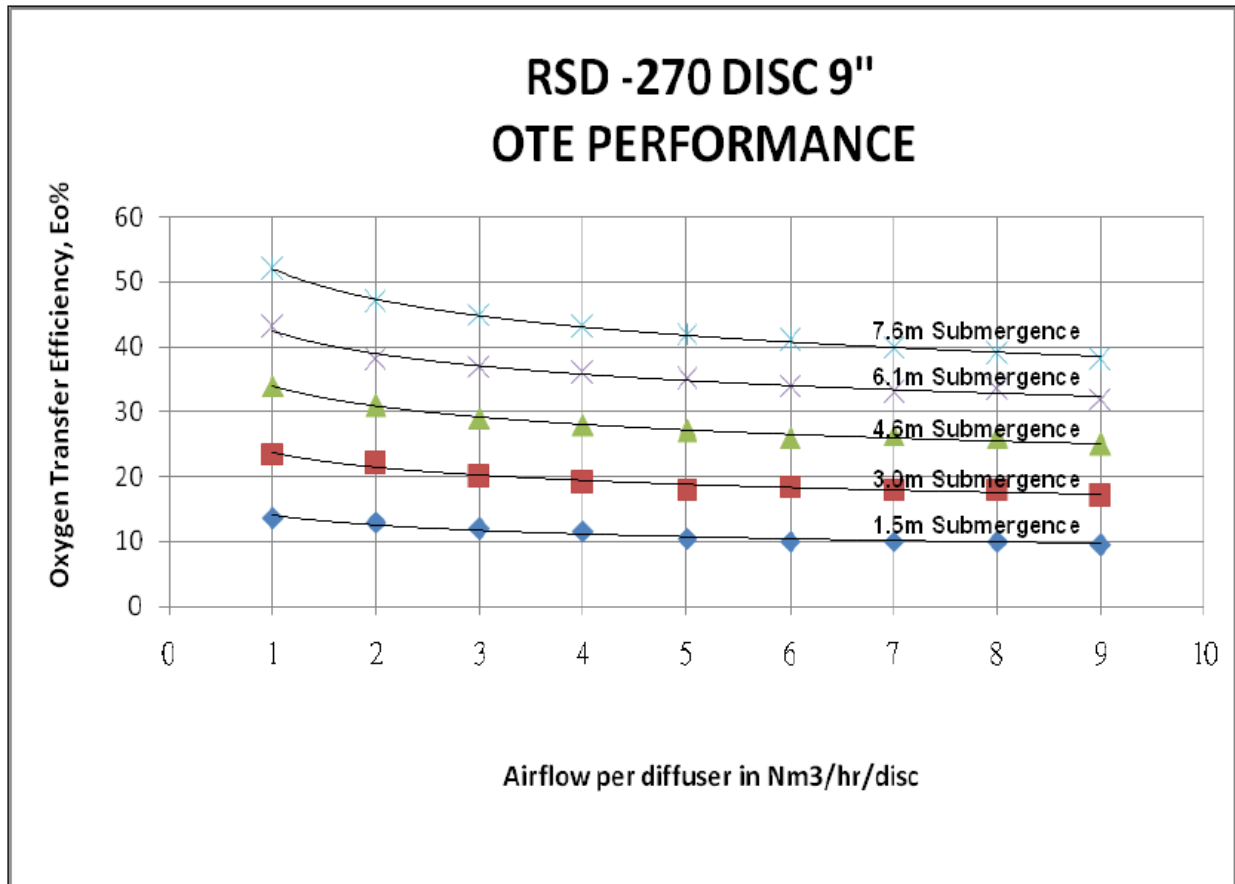
- Simple installation procedures  
Diffuser range to be installed on most existing air header systems without special tools required.
- Extended lifetime expectancy  
EPDM membrane maintains elasticity and is resistant to even the most aggressive wastewater components
- Reliable intermittent aeration operation  
An integral check-valve system makes the diffuser ideally suited for air-on/air-off operations such as SBR's.

#### F. HEADLOSS CURVE

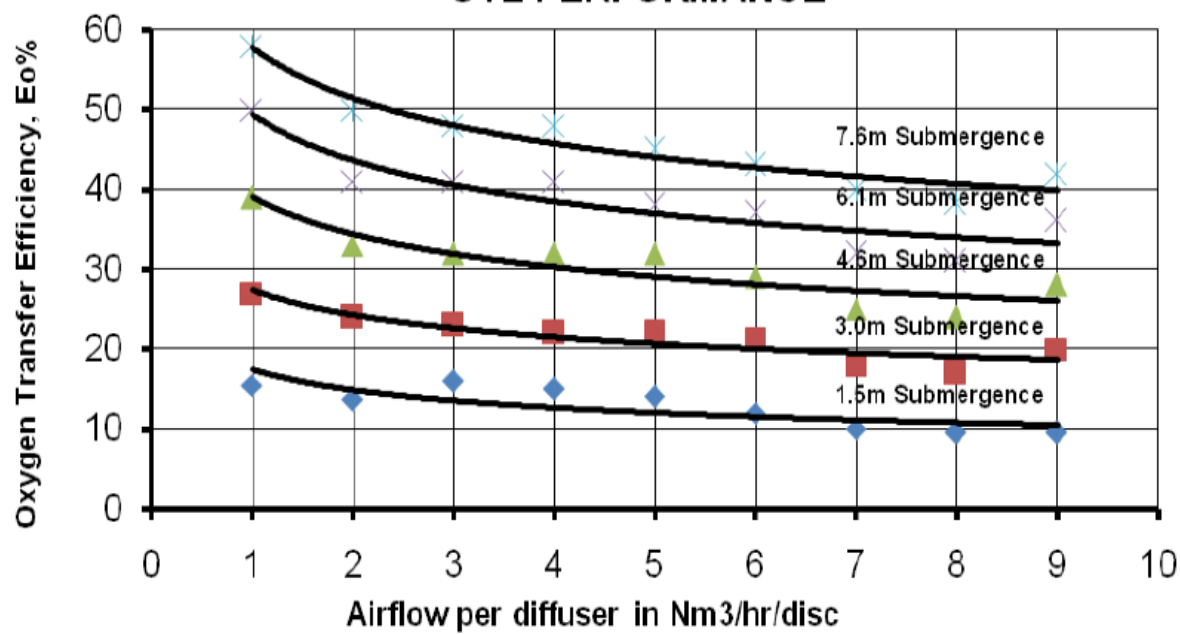




## G. OTE EFFICIENCY CURVE



### RSD-350 DISC 12" OTE PERFORMANCE

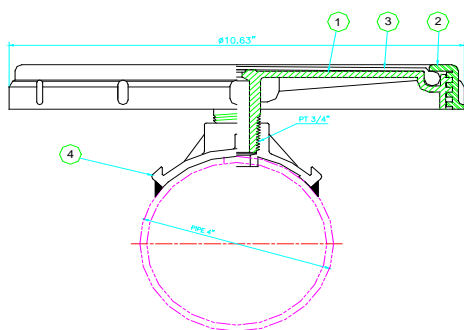




## H. SPECIFICATIONS

MODEL	RSD-270	RSD-350
MATERIAL OF MEMBRANE	EPDM	EPDM
DISC BASE	ABS	ABS
DIA. OF DISC (MM)	270	350
AIR FLOW (NM <sup>3</sup> /H)	1.0-7.2	1.0-12.0
BUBBLE SIZE (MM)	1-3	1-3
FLOOR COVERAGE (m <sup>2</sup> )	0.5~0.7	1.0~1.25
WEIGHT (kg)	0.75	1
OPERATING TEMP (°C)	80	80
CONNECTION (MM) PT	20 (3/4")	20 (3/4")

## I. CONSTRUCTION OF DISC DIFFUSER



## ACCESSORIES

### 80MM QC SADDLE



### 32MM PVC CONNECTOR

