

# Fine bubble disc diffuser

Ecoflex-520CV (Ø 20")



Performance membrane, made in U.S.A.



The Ecoflex-520CV, a diameter 520mm(20") big diffuser releases 1~3mm fine bubble in the wastewater treatment plant. All materials have been selected for their ability to withstand the effects of the chemical, bio-chemical agents and 0~100°C used in wastewater tank. Air can be easily through the air control orifice and integrated non-return valve into the wastewater. The air orifice design to maintain the diffuser standard airflow input prevented the max. air enter to damage diffuser membrane. The membrane is secured onto the support dish with a stainless steel retaining ring designed to increase the tension on the point of engagement as the diffuser air rate increases.

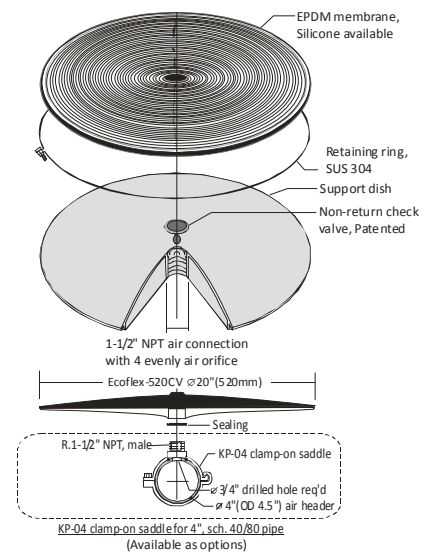
The materials of construction for both support dish and membrane diaphragm are non-corrosive and UV resistant. The upward facing convex plastic support dish for working without any acid dosing requirements and **patented integrated non-return valve with air control orifice, designed for back-flow prevention while airflow is interrupted.** The membrane which covers the dish is made of high grade EPDM or Silicon resistant to the usual sewage ingredients. The membrane further fastened to the support dish with a stainless steel retaining ring, without special tools for fastening or replacement the membrane.

The Ecoflex-520CV membrane diffuser makes them suitable for high strength industrial and municipal applications. They have a wide turndown capability and are ideal for timed, intermittent applications or for applications with auto dissolved oxygen control.

**Because of their larger diffusion area compared to others, fewer diffusers are needed, reducing both diffuser costs and installation costs.**



Clamp saddle for 4" & OD 110mm air header



## Technical Data

Diffuser type & Description	Ecoflex-520CV-EP	Ecoflex-520CV-SL
Membrane	High Grade EPDM	Silicon
Support dish	Glass Filled Reinforced Nylon™	
Retaining ring	Stainless steel 304	
Total diameter	520mm(20")	
Effective slots area	0.18m <sup>2</sup>	
Air connector threaded	R 1-1/2" NPT, Female	
Best Continuous & Intermittent airflow	12.0 – 24.0 Nm <sup>3</sup> /h	
Max. Overload/Maintenance (<15min./day)	32.0 Nm <sup>3</sup> /h	32.0 Nm <sup>3</sup> /h