

EKOTON DIFFUSERS AT TESLA

Shanghai, China

EQUIPMENT	Tube Air Diffusers
SITE	Tesla (Shanghai) Co., Lingang Development Zone, Pudong New Area, Shanghai
YEAR OF COMMISSIONING	May 2019

INTRODUCTION:

On May 10th 2018 Tesla (Shanghai) Co., Ltd. was established in Lingang Development Zone, Pudong New Area, Shanghai. The company is engaged in technology development, technical services in the fields of electric vehicles and parts, batteries, energy storage equipment and photovoltaic products. Electric vehicles, technology, wholesale, consulting, commissioning as well as import and export business of the above-mentioned products and supporting services constitutes the business of the company.

Tesla Gigafactory is the largest foreign manufacturing project in Shanghai to date, and it is also Tesla's first Gigafactory outside of the United States. Tesla has invested over 2 billion USD in the components plant in China in order to localize the supply chain and is preparing to expand the factory's production capacity.

As EKOTON diffusers has the advantages of stable performance, strong aeration capacity and low energy consumption, the owner decided to use EKOTON tube air diffusers for the local WWTP.

EKOTON DIFFUSER PARAMETERS

OUTER DIAMETER	120 mm (Threaded to DN100)
MODEL	APKV-1 / APKV-2
TOTAL LENGTH	1020/2025 mm
DISPERSER LENGTH	940/1945 mm
DRY WEIGHT	4/8 kg
DESIGN AIR FLOW	8-25/16-50 Nm ³ /h



ON-SITE

After detailed investigation of the on-site data, aeration tank conditions and blowers, we recommended arrangement of the diffusers accordingly. The installation of Ekoton tube air diffusers was completed on the 30th of May 2019. The equipment operates smoothly since then.

EKOTON TUBE AIR DIFFUSERS ON-SITE

AERATION SYSTEM LENGTH	64 r.m.
AIR VOLUME OF THE BLOWERS	1200 m ³ /h (2 blowers, each blower: 20m ³ /min)
AIR VOLUME PER DIFFUSER	18.75 m ³ /h/m
TANK BOTTOM COVERAGE	10,7% (percentage of the diffuser active area in relation to the bottom area of the tank)
DISTRIBUTION OF AERATORS:	33.5 % (SSOTE 6.7% depth 5m)
SOTE	0.6 m of aerator per 1 m ² of the tank bottom
PRESSURE LOSS	140 mm H ₂ O

EKOTON TUBE AIR DIFFUSERS LAYOUT

