KTY污水節能曝氣溶氧機
SUPER-SAVE AERATOR

恭賀榮獲國科會全國發明展優良獎
Awarded with National Innovative Medal



KTY888ST2.5負壓式高效率溶氧曝氣及攪拌雙功能機型

KTY888ST2.5 Negative Pressure High-Efficient Aerator with Mixer Function



台塑六輕海豐污水廠測試實景

Real Test Scene at Haifong Sewage Treatment Plant of Formosa Plastics Corp's Sixth Naphtha Cracker Complex

高效率負壓式曝氣溶氧機系列
High-Efficient Negative Pressure Aerator Series



桶槽式生物池



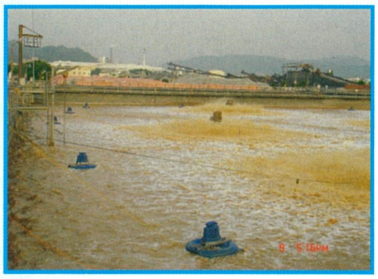
▶ 型號 (Model)：
KTY888ST 2.5

產品效能 Product Performance

1. 特殊高轉速樘線負壓馬達設計，特殊角度負壓葉片可自水中提供高速極細微化之噴射氣流。
   Special design of high speed rifling negative pressure motor, negative-pressure blade with special angle to increase extremely fine high speed jet stream under water.
2. 低馬力低耗能，可於特定區域提高污水溶氧量降低BOD及COD。
   Low horse power, low energy consumption; raise sewage oxygen dissolved volume to reduce BOD and COD at specific area.
3. 負壓原理強制將空氣帶入水中逆沖洗增氧，離心式負壓轉盤設計不會產生阻塞現象。
   Take use of negative-pressure principle to force air into water for oxygen reverse flush. Centrifugal negative-pressure turntable design will not cause blocking phenomenon.
4. 利用負壓葉片分割空氣分子，使其空氣更為細緻化，達成高溶氧效率，無須使用大馬力鼓風機就可達到高溶氧之目的。
   Take use of negative-pressure blades to cut air molecular to make air more meticulous to achieve high oxygen dissolution effect, no need of large horse power blower to achieve the purpose of high dissolved oxygen.
5. 曝氣轉軸360度運轉設計，曝氧效率更佳，溶氧面積寬廣無死角，溶氧效率更佳。
   360° aeration rotary shaft design makes better aeration effect, broader aeration area, no dead corner, and better oxygen dissolution efficiency.

桶槽式安裝效益 Effect of Tank-type Installation

1. 免配曝氣盤及風管
   No need to be equipped with aeration disc and air hose.
2. 省電、維修簡單
   Save energy, easy maintenance.
3. 曝氣效率高，降低溫度
   High aeration effect, reduce temperature.
4. 攪拌曝氣均勻360度無死角
   360 ° mix the aeration, no dead corner.
5. 不產生溫升
   Temperature will not rise.





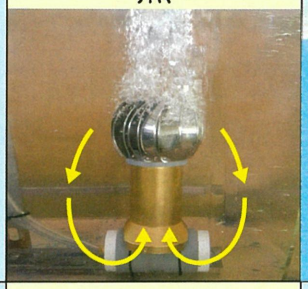
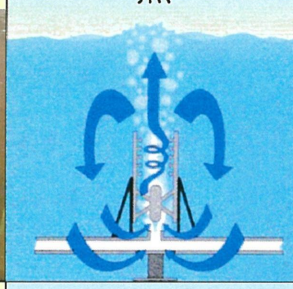
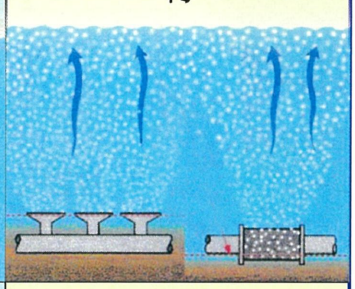
正隆造紙后里廠 KTY888ST3. 2 溶氧測試表 Cheng Loop Corp., Houli Plant KTY888ST3. 2 Oxygen Dissolution Test List

◎正隆造紙后里廠使用實績
◎Real Use Performance at Cheng Loop Corp., Houli Plant

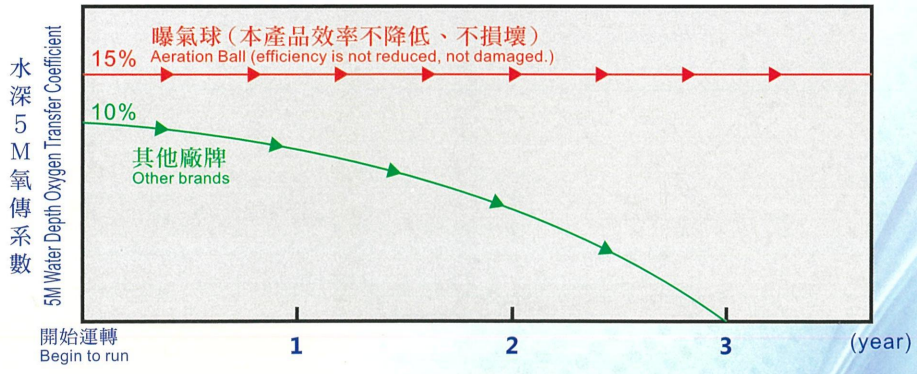
項目 Item	日期 Date	5M 溶氧平均值 Average Value	6M 溶氧平均值 Average Value	日期 Date	污水進水量 Sewage into Water M^3/HR	廢水入口 Waste Water Inlet			放流水 Discharge Water		
						COD	SS	PH	COD	SS	PH
未安裝前數據 Data before install	20/2	未測量 Not measured	0.638mg/L	06/8	400	1595	1394	6.96	132	24	7.42
	20/3	未測量 Not measured	0.372mg/L	14/8	400	1671	1552	7.03	250	88	7.54
	21/4	未測量 Not measured	0.375mg/L	21/8	400	1614	2088	7.40	164	41	7.58
	20/5	未測量 Not measured	0.244mg/L	31/8	400	1785	2315	7.34	138	36	7.66
	18/6	未測量 Not measured	0.134mg/L	01/9	400	1709	2043	7.12	138	24	7.70
	23/7	未測量 Not measured	0.174mg/L	08/9	400	1785	1269	7.74	138	26	7.25
安裝後數據 Data after installed Model: KTY888ST 3.2 Aerator	15/9	1.174mg/L	0.438mg/L	15/9	400	1557	1261	6.85	87	20	7.30
	16/9	1.173mg/L	1.010mg/L	16/9	400	1595	1795	7.26	98	21	7.60
	17/9	1.390mg/L	0.990mg/L	17/9	400	1519	2037	7.29	98	22	7.61
	18/9	1.420mg/L	1.110mg/L	18/9	400	1671	1622	7.23	98	20	7.60
	接觸池原開啟300HP鼓風機2部，本公司規劃關閉300HP鼓風機1部 Contact Pool initially started 300HO Blower x 2 sets Our company planned to shut down 300HP Blower x 1 set 節省300HP鼓風機1部 Save 300HP Blower x 1 set			曝氣池原開啟75HP表曝機9台，本公司規劃關閉75HP表曝機7台 Aeration Pool initially turned on 75HP Surface Aerator x 9 sets Our company planned turned on 75HP Surface Aerator x 7 sets 節省75HP表曝機2台 Save 75HP Surface Aerator x 2 sets						
	3馬力KTY888ST 3.2曝氣機15台 3HP KTY888ST 3.2 Aerator 15 sets			總馬力輸出：870馬力 Total HP Output: 870 HP		本案節省450HP電力成本，每月節省電費支出$604,260 This case saves 450HP power cost; save electricity cost $604,260 per month					

機型 Model	馬力 HP	相數 Phase	極數 Pole	電壓 Voltage	頻率 Frequency	馬達轉速 Motor RPM	進氣流量 Intake Flow	攪拌深度 Mixing Depth	配置面積 Allocated Area	電流 Current	重量 Weight
單位 Unit	HP	ϕ	P	V	HZ	RPM	L/min	M	m^2	A	KG
KTY888ST 2.5	2.5	3	4	220~460	50/60	1550/1720	315	3	3x3	3.4~6.6	54

各種產品功能比較表
Functions Comparison List for Some Models

比較 Compare / 產品 Product	龍捲式曝氣球 Aeration Ball	OHR 式（日製） OHR Type	一般散氣盤及散氣管 Normal Air Dispersing Disc
壓損 Pressure Loss	無 No	無 No	壓損約1000mmaq以上易造爆裂 Over 1000mmaq of pressure loss is easy to crack
污泥囤積 Sludge Accumulation	無 	無 	有 
壽命 Service Life	15年以上 Over 15 years	15年以上 Over 15 years	1～3年 1 ~ 3 years
價格 Price	3500元/組 NT 3500 / set	20000-30000元/組 NT 20000 ~ 30000 / set	800-1200元/組 NT 800 ~ 1200 / set
節能 Energy Saving	25%～75%	25%～75%	無（有壓損） No (with pressure loss)
配管工事 Piping Construction	易施工 easy construction	不易施工 not easily constructed	振動高、易損壞 high vibration, easy damage

長期使用產品之氧傳效率曲線圖比較
Curve Comparison of Oxygen Transfer Efficiencies after Long-term Use



本產品曝氣球規格表
Specification List of Our Aeration Ball

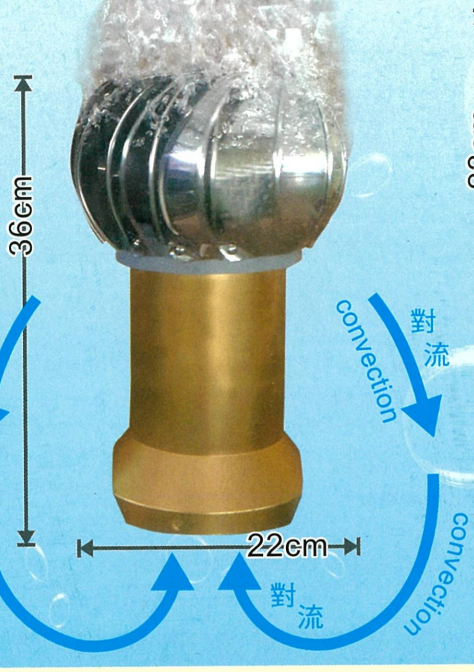
規格 Spec	尺寸 Size 有對流風罩 w/convection hood	尺寸 Size 無對流風罩 w/o convection hood	材質 Material	重量 Weight 有對流風罩 w/convection hood	重量 Weight 無對流風罩 w/o convection hood	風量 Air Volume (cmm)	安裝範圍 Install Range	適合水深 Suitable Water Depth
168ST	外牙 Male 3/4"（內孔 Female Φ8mm）	外牙 Male 3/4"（內孔 Female Φ8mm）	SUS + ABS	1.2kg	0.7kg	0.1～0.2	1Mx1M	50公分以上 Over 50 cm
168ST	外牙 Male 1"（內孔 Female Φ12mm）	外牙 Male 1"（內孔 Female Φ12mm）	SUS + ABS	1.2kg	0.7kg	0.2～0.3	1.5Mx1.5M	50公分以上 Over 50 cm
168	外牙 Male 3/4"（內孔 Female Φ8mm）	外牙 Male 3/4"（內孔 Female Φ8mm）	尼龍+ABS Nylon	1.2kg	0.7kg	0.1～0.2	1Mx1M	50公分以上 Over 50 cm
168	外牙 Male 1"（內孔 Female Φ12mm）	外牙 Male 1"（內孔 Female Φ12mm）	尼龍+ABS Nylon	1.2kg	0.7kg	0.2～0.3	1.5Mx1.5M	50公分以上 Over 50 cm

全球首創 WORLD'S FIRST

龍捲式曝氣球 Tornado Aeration Ball

超耐久
Ultra Durability

免更換
Replacement-free





◀ 既有污水廠改善專用
For the existing water treatment plants
直接更換
可直接套用
Replace to use it directly

牙口
Threaded port

新設廠專用 ▶
For new-established plants
有效改善污泥囤積的功能
Improve the problem of sludge accumulation.

仿冒必究

多國多項專利
台灣、美國、中國、日本...等等
Patented in many countries, such as Taiwan, U.S.A., China, Japan...

安裝效益 Efficiencies:

1. 氧傳效率穩定，不會隨使用時間長而遞減效率。
   Stable efficiencies for oxygen transfer is not reduced along with long time of use.
2. 節省能源可達25％～75％（因無壓損及水深之限制）。
   Saving the energy for 25% ~ 75%
3. 耐用15年以上。
   Service life for more than 15 years
4. 安裝簡便，無需更換任何耗材，永不阻塞。
   Easy installation; no need to replace any consumable material; never clog
5. 全球首創球體會運轉、曝氣、攪拌底泥雙功能。
   The world's first ball with the multi-functions of rotation, aeration and stirring the sediment.







環工技師 陳耿安 強力推薦
Strongly recommended by Environmental Engineering Technician, G. A. Chen

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