



# **TURBOTEX TURBO BLOWER AIR FOIL BEARING**

**Turbotex**

## TurboTex Turbo Blower

TurboTex turbo blower is high speed centrifugal blower, which is specially designed and developed for water treatment and shrimp farming, it has been the the most efficient blower by saving 50% more electricity bill than traditional roots blower.

Disc diffuser is microporous diffuser, which release fine bubble uniformly from the wall of disc diffuser at the bottom of of pond.

Turbo blower supply clean air through pipe to disc diffuser and clean air pass through diffuser wall and transform into fine bubble, fine bubble rise slowly from the pond bottom to the surface which makes fine bubble have higher surface contact area and longer contact period with water, which ensure oxygen of fine bubble efficiently dissolved into the water, under the oxygen dissolution process, dissolved oxygen effect is remarkable and dramatically improve the oxygen content in the water.

**TURBOTEX**  
**TURBO BLOWER**  
 โบลเวอร์ความเร็วรอบสูง  
 (HIGH-SPEED TURBO)



## TurboTex Turbo Blower

### High Efficient Impeller

TurboTex turbo blower adopt forged aluminum alloy material and machined by five axis CNC machine, which ensure impeller higher rotation speed and higher efficiency.



### High Efficient VFD

TurboTex turbo blower is controlled by high efficiency VFD with working frequency range 0-2000Hz to adjust air flow and pressure.



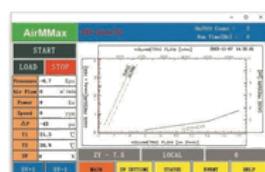
### Permanent-magnet Synchronous Motor

TurboTex turbo blower is high efficient permanent magnet synchronous motor rotating maximum at 100.000rpm with efficiency reach 98%.



### Touch Screen Control Panel

TurboTex turbo blower is equipped with touch screen, which is easy to operate.

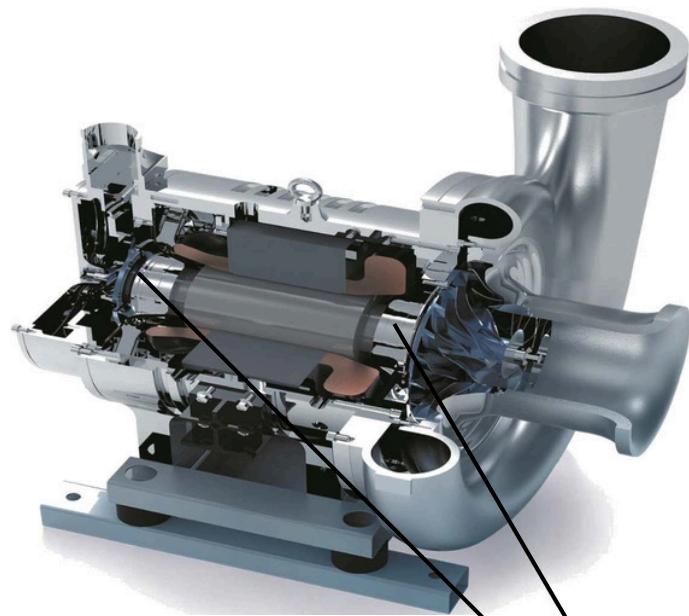


### Mobile Phone Remote Control

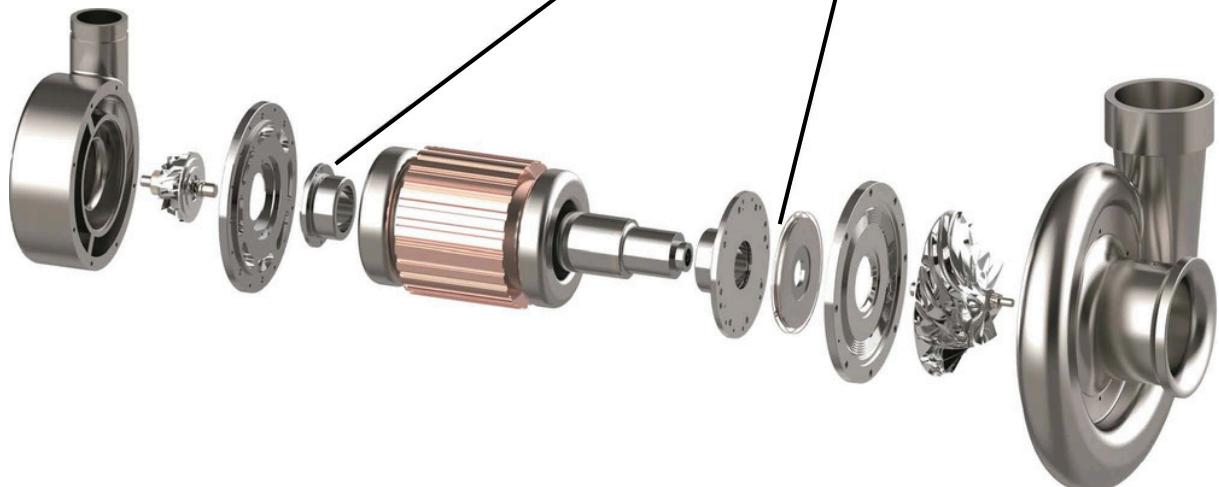
TurboTex turbo blower can be monitored and operated by mobile phone wherever you are.



## TurboTex Turbo Blower Core Technology



TurboTex turbo blower is equipped with dynamic air bearing with NO contact between motor shaft and bearing and NO need lubricant.



# TurboTex Turbo Blower Advantage

## High Efficient and Energy Saving

TurboTex turbo blower save 50% more electricity bill than traditional roots blower.

## Easy Installation

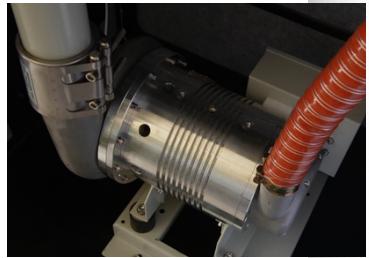
TurboTex turbo blower is highly integrated, low weight and easy to move, user only need to connect power cable.

## Plug and Play

TurboTex turbo blower is operated by the touch screen to adjust frequency and reach required air flow and pressure.

## Easy Maintenance

TurboTex turbo blower is no lubricant oil type design, which keep away from the troubles brought by lubricant oil in traditional roots blower and centrifugal blower.



## TurboTex Turbo Blower

- **Sewage Water Treatment Plant**



Parameter	Turbo Blower	Roots Blower
Rated Power (kW)	75	90
Rated Flow(m3/min)	58.5	58.38
Pipe Pressure (kPa)	65	60
Average ( 15 days)	1530.8 kw/day	2108.8 kw/day
Total 360 hours (15 days)	63.78 kw/hour	87.86 kw/hour
Electricity saved per day	578 kw/day	
Power saving rate	27.4%	

- **Penaeus Vannamei Shrimp Farm**



Parameter	Turbo Blower	Roots Blower
Rated Power (kW)	3*15kw	3*30kw
Rated Flow (m3/min)	118	85
Pipe Pressure (kPa)	20	31
Average (29 days)	888 kw/day	2064 kw/day
Electricity saved per day	1176 kw/day	
Power saving rate	56.98%	

## TurboTex Turbo Blower Parameter Table

Model	3HP	5.5HP	7HP	10HP	15HP	20HP	30HP	40HP	50HP	75HP	100HP
<b>Discharge Pressure kpa</b>	Air Flow(m <sup>3</sup> /min). 20°C, Humidity60%, 1atm										
30	/	/	7	10	12	18	29	43	52	88	107
40	2.5	5	6	9	11	16	27	38	47	76	95
50	/	/	5	8	10	14	24	33	40	59	77
60	/	/	4.5	7	9	12	21	28	35	53	69
70	/	/	4	6	8	9	19	25	31	46	63
80	/	/	3	5	7	8	18	22	28	41	55
90	/	/	/	/	/	/	15	19	25	37	50
100	/	/	/	/	/	/	13	17	22	34	45
110	/	/	/	/	/	/	/	/	/	29	41
120	/	/	/	/	/	/	/	/	/	/	38
Shaft Power(kw)	2.2	4	5	7.5	11	15	23	30	38	58	75
Blower Power(kw)	3	5.5	6.5	9	12.5	17.5	28	37	44	68	83
Model	125HP	150HP	175HP	200HP	250HP	300HP	350HP	400HP	500HP	600HP	800HP
<b>Discharge Pressure kpa</b>	Air Flow(m <sup>3</sup> /min). 20°C, Humidity60%, 1atm										
30	142	173	196	222	261	288	334	371	/	/	/
40	120	150	172	190	228	256	296	335	430	540	747
50	95	115	129	156	196	225	270	311	384	490	622
60	87	105	110	140	170	210	246	280	334	420	552
70	78	92	106	120	155	181	208	235	298	378	477
80	70	85	98	110	136	160	190	220	260	336	429
90	62	70	79	94	122	138	163	186	240	302	380
100	56	65	75	88	110	126	150	174	224	282	357
110	50	59	70	82	101	120	140	161	202	268	330
120	45	53	65	75	90	116	131	148	188	250	309
Shaft Power(kw)	94	114	130	150	185	225	262	300	375	450	557
Blower Power(kw)	102	124	142	175	208	244	295	320	400	500	600

## TurboTex Turbo Blower Parameter Table

### ● TurboTex Turbo Blower Aeartor (For Shrimp Farming)

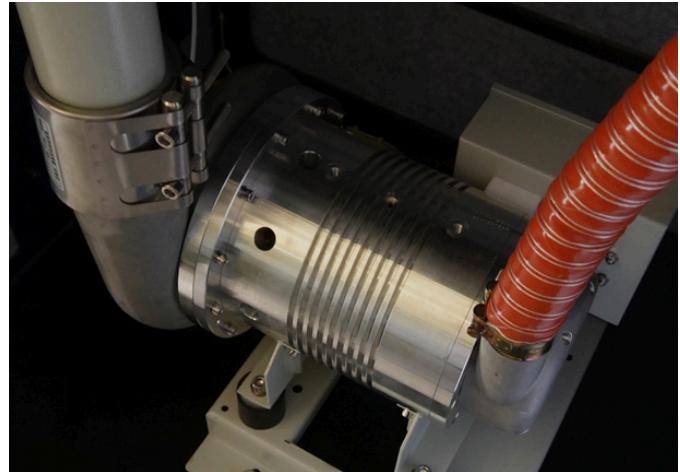
Model	3HP	5.5HP	7.5HP	10HP	15HP	20HP	30HP	40HP	50HP	60HP	75HP
Pressure KPA	Air Flow M3/MIN										
10	/	/	12	22	29	42	56	79	103	120	130
15	/	/	11	21	28	38	53	75	99	110	122
20	/	/	10	18	26	36	49	71	95	106	118
25	/	/	9	14	21	29	41	58	71	95	105
30	/	/	8	12	19	26	38	48	65	83	95
40	2.5	5	7	9	15	17	26	36	45	54	65

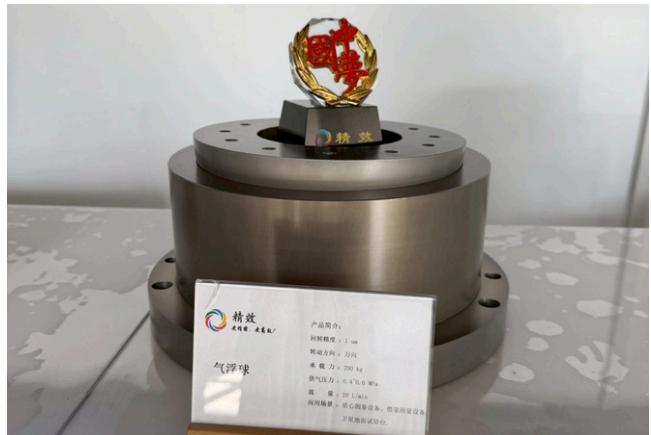
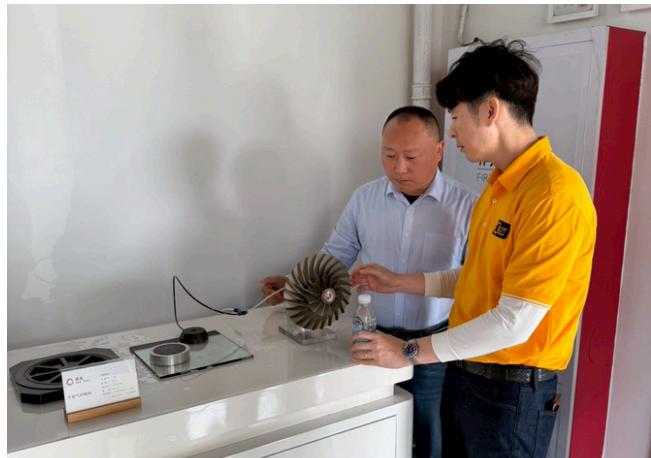
### ● TurboTex Turbo Compressor Parameter Table

Model	100HP	125HP	150HP	200HP	250HP	300HP	400HP
Discharge Pressure kpa	Air Flow(m3/min), 20°C, Humidity 60%, 1atm						
150	32	48	60	69	81	121	/
200	25	/	37	65	71	75	100
300	/	/	/	/	/	105	/
350	20	/	/	37	/	/	/
400	/	/	/	36	/	55	/
500	/	/	/	/	/	46	58

# TurboTex

## Air Bearing Turbo Blower







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