

Data Sheet of Fans				版本 Rev	日期 Date	备注 Remarks	编制 by
KTSC File Number : 14156A							
KTSC 位号 - KTSC Item	A01	B01	2016-4-14	B	2016-4-14	D01	WLL
用户位号-Customer Item	AE-2026	AE-3002	AE-5004	AE-5005	AE-5006	AE-5007	E01
版本号-Revision Number	B	B	B	B	B	B	B
用户风机型号 - Fan Type of Manufactory	Y-TF48.8L8-n45	Y-TF45.7L8-n45	Y-TF45.7L8-n45	Y-TF42.7L6-n37	Y-TF15.2L6-n5.5	Y-TF42.7L6-n37	Y-TF15.2L6-n5.5
进风形式 / 驱动形式 - Draft / Speed Reducer	Induced/HTD	Induced/HTD	Induced/HTD	Induced/HTD	Induced/HTD	Induced/HTD	Induced/HTD
数量 - Quantity	12/MAP	24/MAP	16/MAP	88/MAP	2/MAP	2/MAP	2/MAP
海拔高度 - Elevation (m) 最小环境温度 - Min.Ambient temp. (° C)	25/5	25/5	25/5	25/5	25/5	25/5	25/5
进出风温度 - Temp.in/out, Forced (F) Induced (I) draft. (° C)	50/79.8(I)	50/78.2(I)	50/63.4(I)	50/61.4(I)	50/71.2(I)	50/61.4(I)	50/71.2(I)
实际流量 - Actual flow (m3/s)	142.7	138.8	148.9	120.3	18.6	120.3	18.6
实际静压差 - Actual static pressure (Pa)	156	149	124	142	120	142	120
叶片材料 - Blade material	AL6005	AL6005	AL6005	AL6005	AL6005	AL6005	AL6005
D = 直径 - Diameter (ft)	16	15	15	14	5	14	5
N = 叶片数量 - Number of blades	8	8	8	6	6	6	6
C = 叶片宽度 - chord (mm)	350	350	350	460	220	460	220
N.C/I.T.D = 叶根及叶尖系数 - Solidity at blade root and tip	0.18/1.62	0.19/1.62	0.19/1.62	0.21/1.62	0.27/1.05	0.21/1.62	0.27/1.05
动压值 - Dynamic pressure (mm H2O)	2.95	3.65	3.65	3.8	5.42	3.8	5.42
叶片角度 - Pitch angle (°)	12.5	13	12.5	13	12.5	13	12.5
最大允许叶片角度 - Maxi allowable pitch angle (°)	19	19	19	19	19	19	19
风机转速 / 叶尖速度 - RPM fan / Tip speed (m/s)	191/48.8	204/48.8	204/48.8	214/47.7	618/49.3	214/47.7	618/49.3
轴功率 - Absorbed power (kw)	33.0	33.2	32.2	27.9	4.1	27.9	4.1
允许最大轴功率-Maximum allowed power (kw)	33	33.2	34.7	28.7	4.1	28.7	4.1
电机转速 Motor RPM	1500	1500	1500	1500	1500	1500	1500
电机功率 Motor Power (kw)	45	45	45	37	5.5	37	5.5
流量/压力裕量 - Flow/Pressure margin >=10%/15%	10%/15%	10%/15%	10%/15%	10%/15%	10%/15%	10%/15%	10%/15%
位于下 1 米处声压级噪声 - SPL at 1 m below bundle dB(A)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)	81±2 for single fan (单台风机)
叶片固有频率 - Blades nat. frequency (Hz)	11.8	13	13	26.4	118	26.4	118
风机频率裕量 - F. margin (natural/blades pass) > 10%	>= 10%	>= 10%	>= 10%	>= 10%	>= 10%	>= 10%	>= 10%
临界转速 - Critical speed (RPM)	708	820	820	1584	**	1584	**
PD² 转动惯量 (kg. M²)	1385	912	912	716	43	716	43
重量 - Weight (kg)	244	203	203	172	62	172	62
空气动力载荷 - Aerodynamic load (kg)	352.3	309.4	279.7	261.4	32.2	261.4	32.2
叶片断裂载荷 - Load in case of blade breakage (kg)	1799(2 片)	1394(2 片)	1394(2 片)	1458(2 片)	717(2 片)	1458(2 片)	717(2 片)
不平衡载荷 - Load due to residual unbalance (kg)	2.4	2.4	2.4	2.3	2.5	2.3	2.5