POWER &COOL TECH LTD.

Electrical & Cooling System Expert

019 40 41 35 35

017 00650091

Head Office:Board bazar, Gazipur

Mail: powerandcooltech@gmail.com

Call: 019 40 41 35 35

017 00 65 00 91

Web Visit: powerandcooltech.com

All Type of Electrical & Cooling System Emporter and Spplier

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Exhaust fan :

MODEL	BODY SIZE (MM)	BLADE ROTATING DIA(Inc)	BODY MATERIAL	BLADE MATERIAL	SHUTTER MATERIAL	CAPACITY (m^3/hr.)	ROUND SPEED (RPM)	MOTOR SPEED (RPM)	NOISE (db)	POWER	FAN WEIGHT (kg)
QCHS1250 (54"Fan)	1380X1380X400	50"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	44000	439	1400	⩽=70	1.1/1.5Kw,3PH 380Volt. 50Hz	65
QCHS1110 (48"Fan)	1220X1220X400	44"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	37500	439	1400	⩽=70	1.1/1.5Kw,3PH/1PH 380Volt. 50Hz	58
QCHS1000 (44"Fan)	1100X1100X400	40"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	35000	439	1400	⩽=70	0.75Kw,3PH 380Volt. 50Hz	50
QCHS950 (42"Fan)	1050X1050X400	38"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	32500	439	1400	⩽=70	0.75Kw,3PH 380Volt. 50Hz	48
QCHS900 (40"Fan)	1000X1000X400	36"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	30000	439	1400	⩽=70	0.75Kw,3PH 380Volt. 50Hz	46
QCHS760 (36"Fan)	900X900X400	32"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	25000	439	1400	⩽=70	0.55Kw,3PH 380Volt. 50Hz	38
QCHS750 (32"Fan)	820X820X400	30"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	22000	960	1400	⩽=70	0.55Kw,3PH 380Volt. 50Hz	33
QCHS550 (24"Fan)	600X600X380	23"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	9500	1400	1400	⩽=70	0.38Kw,3PH/1PH 380Volt. 50Hz	22
QCHS375 (19"Fan)	480X480X350	15"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	5000	1400	1400	⩽=70	0.18Kw,3PH/1PH 220/380Volt. 50Hz	15
QCHS300 (16"Fan)	400X400X350	12"	Galvanized Steel / Stainless Steel	Stainless Steel Aluminium Alloy Galvanized Steel	Stainless Steel Aluminium Alloy Galvanized Steel	1500	1400	1400	⩽=70	0.12Kw,1PH 220/380Volt. 50Hz	12

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Cooler :

Down Discharge

Top Discharge

Side Discharge

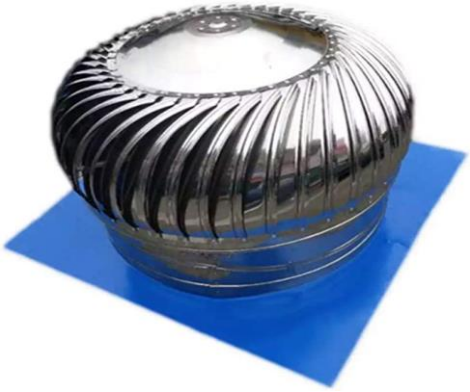
Evaporative Air Cooler, Specification / Parameters

Model	Max Airflow (m^3/hr)	Fan style	VOLTAGE (V/Hz)	Motor Power (Kw)	Working current (A)	Water tank Capacity (L)	Water Consumption rate (L/hr)	Dimension L×W×H (mm)	Size of air outlet L×H(mm)	Noise DB(A)	Net weight (kg)	Effective area (m^2)
FAD18-ER	18000	Axis-flow	380/50	1.1	2.7	25	20	1080×1080×980	700×690	≤72	71	100-150
FAB18-EQ	18000	Axis-flow	220/50	1.1	5	25	20	1080×1080×980	700×690	≤72	71	100-150
FAB18-IQ	18000	Axis-flow	220/50	1.1	5	25	20	1080×1080×980	700×690	≤72	71	100-150
FAU18-ER	18000	Axis-flow	380/50	1.1	2.7	25	20	1080×1080×1040	670×670	≤72	78	100-150
FAU18-EQ	18000	Axis-flow	220/50	1.1	5	25	20	1080×1080×1040	670×670	≤72	78	100-150
FAU18-IQ	18000	Axis-flow	220/50	1.1	5	25	20	1080×1080×1040	670×670	≤72	78	100-150
FAD23-ER	23000	Axis-flow	380/50	1.3	3.1	25	25	1080×1080×980	670×670	≤79	69	100-150
FAD23-EQ	23000	Axis-flow	220/50	1.3	6.2	25	25	1080×1080×980	670×670	≤79	69	100-150
FAD23-IQ	23000	Axis-flow	220/50	1.3	6	25	25	1080×1080×980	670×670	≤79	69	100-150
FAB23-ER	23000	Axis-flow	380/50	1.3	3.1	25	20	1080×1080×980	700×690	≤79	71	100-150
FAB23-EQ	23000	Axis-flow	220/50	1.3	6.2	25	20	1080×1080×980	700×690	≤79	71	100-150
FAB23-IQ	23000	Axis-flow	220/50	1.3	6	25	20	1080×1080×980	700×690	≤79	71	100-150
FAU23-ER	23000	Axis-flow	380/50	1.1	3.3	25	20	1080×1080×1040	670×670	≤79	78	100-150
FAU23-EQ	23000	Axis-flow	220/50	1.1	6.2	25	20	1080×1080×1040	670×670	≤79	78	100-150
FAU23-IQ	23000	Axis-flow	220/50	1.1	6	25	20	1080×1080×1040	670×670	≤79	78	100-150
FCD18-ER	18000	Centrifugal	380/50	1.5	3.5	25	25	1080×1080×980	450×420	≤79	104	150-200
FCD18-I Q	18000	Centrifugal	220/50	1.5	8	25	25	1080×1080×980	450×420	≤79	104	150-200
FCB18-ER	18000	Centrifugal	380/50	1.5	3.5	25	25	1080×1080×980	450×420	≤79	110	150-200
FCB18-IQ	18000	Centrifugal	220/50	1.5	8	25	25	1080×1080×980	450×420	≤79	110	150-200
FCU18-ER	18000	Centrifugal	380/50	1.5	3.5	25	25	1080×1080×950	450×420	≤79	114	150-200
FCU18-IQ	18000	Centrifugal	220/50	1.5	8	25	25	1080×1080×950	450×420	≤79	114	150-200
RL30A	30000	Axis-flow	380/50	2.2	5.6	65	65	1500×1500×1350	800×800	≤78	175	200-250
RL30B	30000	Axis-flow	380/50	2.2	5.6	65	65	1500×1500×1350	800×800	≤78	175	200-250
RL36A	36000	Axis-flow	380/50	3	6.5	65	85	1500×1500×1350	800×800	≤83	160	200-300
RL36B	36000	Axis-flow	380/50	3	6.5	65	85	1470×1470×1470	930×930	≤83	160	200-300
RL25B	25000	Centrifugal	380/50	5.5	11.6	65	60	1470×1490×1400	620×570	≤82	360	200-250
RL35B	35000	Centrifugal	380/50	7.5	15.4	70	80	1770×1800×1420	782×700	≤84	450	200-300
RL45B	45000	Centrifugal	380/50	11	25.4	100	120	2090×1970×1630	858×766	≤88	585	300-450
RL60B	60000	Centrifugal	380/50	15	30.3	100	150	2090×1970×1630	926×834	≤90	650	350-550

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Natural Ventilation/ Non –power roof Fan :



Type	Blade quantity (Pcs)	Turbine diameter (Pcs)	Air vent diameter (mm)	Net height (mm)	Packing size (mm)
MST-500/22"	32	630	500	500	630x630x500
MST-600/24"	34	800	600	650	800x800x650

FRP (Roof Mountain power fan)

MODEL	BODY SIZE (CM)	BLADE (INC)	BODY MATERIAL	BLADE MATERIAL	NO. OF BLADE	ROUND SPEED (RPM)	POWER (Hp)	FAN WEIGHT (kg)	CAPACITY (m^3/hr)
KF 54-2P	240x161x(67,123)	48"	FRP	SMC OR ALUMINIUM	3	630	2	105	45,000
KF - 48	239.6X160(94,70)	48"	FRP	SMC OR ALUMINIUM	3	630	2	91	45,000
KF - 36	120X152(96,55)	36"	FRP	SMC OR ALUMINIUM	3	800	0.75	60	17,000
LR60 - 3A	162X162X92	52"	FRP	SMC OR ALUMINIUM	3	630	2	85	59,000
LR54 - 3A	146X146X80	48"	FRP	SMC OR ALUMINIUM	3	630	1.5	79	45,000

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

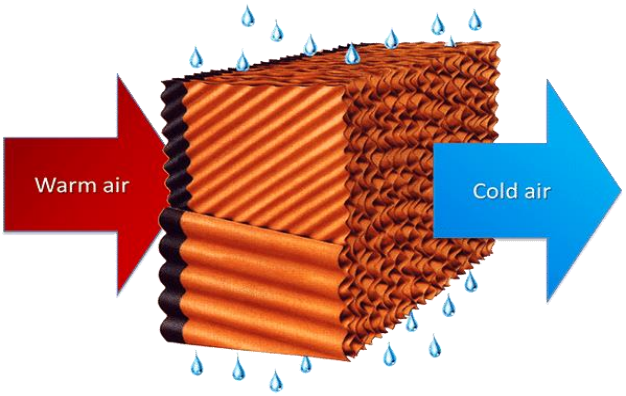
Drum Type / Axial Bolwer:

Model	Dia	Motor Power (Kw)	Motor Speed RPM	Static Pressure	Capacity (m^3/hr)
ECR-12	12"	0.55	1400	150 PA	3000
ECR-16	16"	0.75	1400	150 PA	4000
ECR-18	18"	1.1	1400	150 PA	5000
ECR-20	20"	1.1	1400	150 PA	8000
ECR-24	24"	1.5/2.2	1400	200 / 250 PA	15000
ECR-30	30"	5.5	1400	287 PA	18000
ECR-32	32"	5.5	1400	300 PA	20000
ECR-36	36"	7.5	1400	250 PA	33000
ECR-40	40"	11.1	900 / 1400	250 PA	40000
ECR-48	48"	18.5/15	960 / 1400	250 PA	65000
ECR-50	50"	18.5	960	250 PA	78000

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Cooling Pad :



TYPE	HEIGHT (MM)	WIDTH (MM)	DEPTH (MM)
7090	2000	600	100
	2000	600	150
	1800	600	100
	1800	600	150
	1600	600	100
	1600	600	150
	1500	600	100
	1500	600	150
5090	2000	600	100
	2000	600	150
	1800	600	100
	1800	600	150
	1600	600	100
	1600	600	150
	1500	600	100
	1500	600	150

Centrifugal Type :

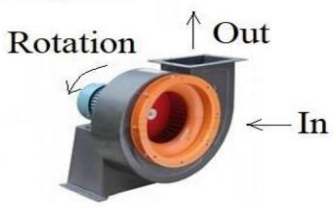


Fig. 01: Existing bower is like as same

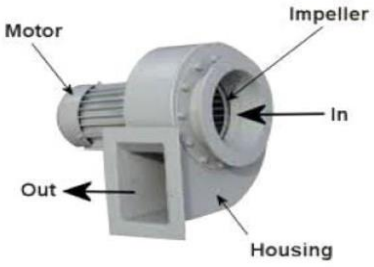


Fig. 02: Existing blower system is like as same

Fig. 03: Existing blower impeller is like as same

Model	Inlet Dia	Outlet Dia	Motor Power (Kw)	Motor Speed RPM	Capacity (m^3/hr)
ECR-6	6"	4" x 6"	1.5/2.2	1400	5,000
ECR-8	8"	6" x 8"	2.2/4	1400	7,000
ECR-10	10"	8" x 10"	4/5.5	1400	12,000
ECR-12	12"	10" x 12"	5.5/7.5	1400	15,000

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Frp Cone Fan

Model	Blade Diameter (mm)	Volume m^3/hr	Power (w)	Rated Voltage	Height (mm)	Width (mm)	Thickness (mm)
DLF-850	600	30000	370/8	380	850	850	480
DLF-1060	880	32000	550/10	380	1060	1060	550
DLF-1260	1050	42000	750/10	380	1260	1260	560
DLF-1460	1250	45000	750/12 1100/12	380	1460	1460	600

Suitable for the exhaust of smoke, dusty foul and humld air up to a maximum temperature of 60^0c. ideal for foundry, cement works and paper factories.

- Volume flow from 1,200 m3 /h up to 250,000 m3/h
- Pressure from 5 mm/h20 up to 100mm/h20

Suitable for the exhaust of smoke, dusty foul and humld air up to a maximum temperature of 60^0c. ideal for foundry, cement works and paper factories and in all applications where big volume are needed such as ventllation plants for boat galleries, tummels and mine.

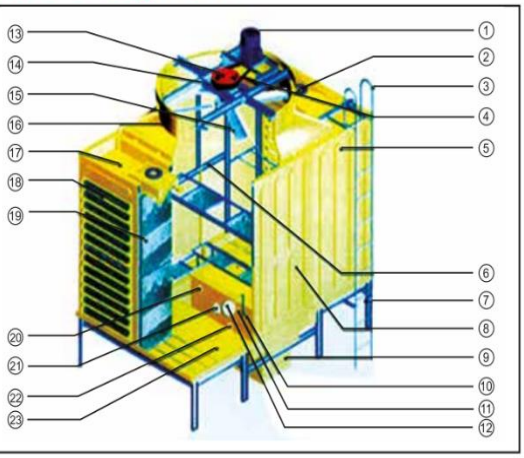
- Volume flow from 18,200 m3 /h up to 175,000 m3/h
- Push from 152 N to 2,100 N

: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

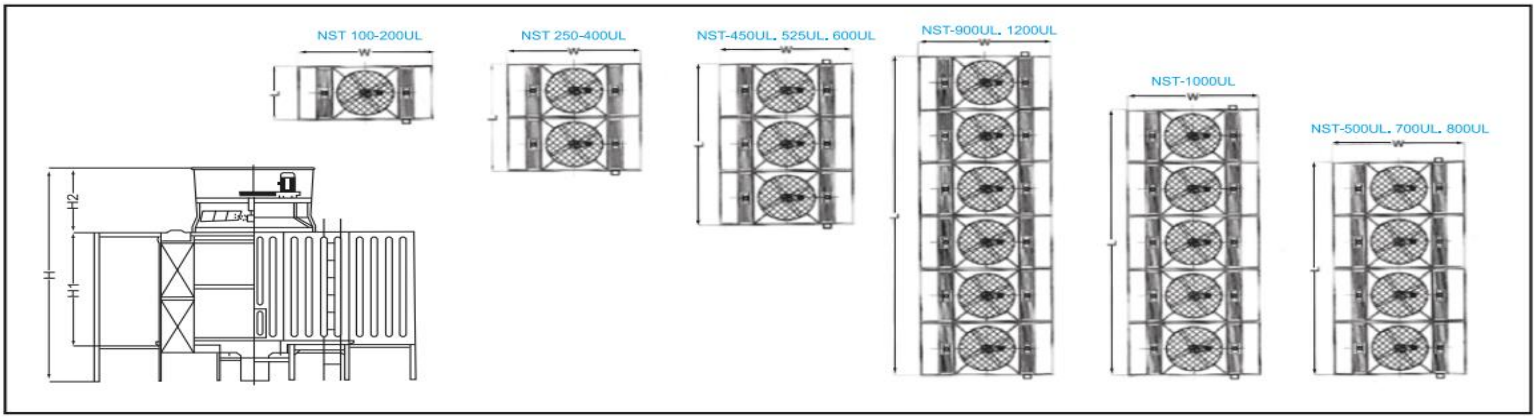
Structure Diagram

1. Motor	12. Float Ball
2. Hot Water Inlet	13. Pulley
3. Ladder	14. V-Belt
4. Motor Support	15. Exhaust Fan
5. Casing	16. Fan Stack
6. Base Frame	17. Distribution Basin
7. Tower Support	18. Fillings
8. Access Door	19. Overflow Pipe
9. Suction Tank	20. Cold Water Outlet Pipe
10. Auto Feed Pipe	21. Drain Pipe
11. Quick Feed Pipe	22. Water Basin



Technical Data of Low Noise Cross Flow Cooling Tower

Item / Model	Nominal Flow (m^3/h)	Water Pressure ($\times 10^4$/Pa)	Exhaust Fan		Weight (Ton)		Overall Dimension				
			Diameter (mm)	Motor (Kwxsets)	Net Weight	Run. Weight	L	W	H	H1	H2
NST-100/S	100	3.6	1500	4.0×1	0.86	2.26	1980	3200	3700	2300	700
NST-125/S	125	3.8	1800	4.0×1	1.08	2.83	2320	3600	3700	2300	700
NST-150/S	150	3.8	2100	5.5×1	1.18	3.55	2600	3800	3700	2300	700
NST-175/S	175	4	2100	5.5×1	1.3	3.81	2930	3800	3700	2300	700
NST-200/S	200	4	2400	7.5×1	1.6	4.02	3040	4300	3700	2300	700
NST-250/D	250	3.8	1800	4.0×2	2.05	5.38	4640	3600	3700	2300	700
NST-300/D	300	3.8	2100	5.5×2	2.24	6.75	5200	3800	3700	2300	700
NST-350/D	350	4	2100	5.5×2	2.47	7.23	5860	3800	3700	2300	700
NST-400/D	400	4	2400	7.5×2	3.04	7.65	6080	4300	3700	2300	700
NST-450/T	450	4	2100	5.5×3	3.36	9.94	7800	3800	3700	2300	700
NST-500/M	500	4.2	1800	4.0×4	4.1	10.95	9280	3600	3700	2300	700
NST-525/T	525	4.2	2100	5.5×3	3.71	11.45	8790	3800	3700	2300	700
NST-600/T	600	4.2	2400	7.5×3	4.56	12.50	9120	4300	3700	2300	700
NST-700/M	700	4.2	2100	5.5×4	4.94	15.27	11720	3800	3700	2300	700
NST-800/M	800	4.2	2400	7.5×4	6.08	18.20	12160	4300	3700	2300	700
NST-900/M	900	4.2	2100	5.5×6	6.73	19.93	15600	3800	3700	2300	700
NST-1000/M	1000	4.2	2400	7.5×5	7.6	22.50	15200	4300	3700	2300	700
NST-1200/M	1200	4.2	2400	7.5×6	9.21	22.50	18240	4300	3700	2300	700

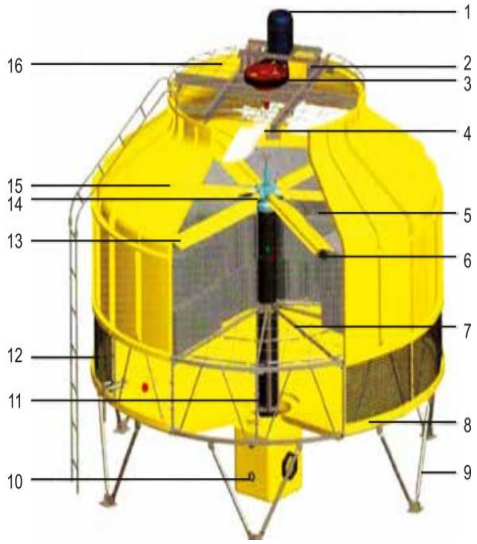


: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Power and cooling Technology
Eng: Md Abu Shaied.
Pls +880 1940413535

Structure Diagram

1. Motor (TEFC)
2. MS Motor Support
3. V-Belt Reducer
4. Exhaust Fan
5. In-Fill
6. Sprinkler
7. In-fill Support
8. Water Basin (F.R.P)
9. Toner Stand Support
10. Suction Tank
11. Piping
12. Air Inlet Slant Support
13. Eliminator
14. Sprinkler head
15. Casing
16. Fan Guard

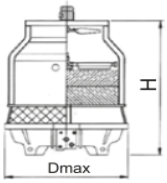


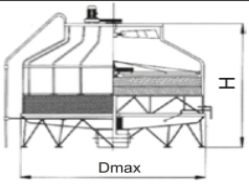
Technical Data of NRT Series Standard Cooling Tower

Item / Model	Nominal Flow (m^3/h)	Dimension (mm)		Motor (Kw)	Fan Diam. (mm)	Air Flow (cmm)	water pressure (Kpa)	Weight (kg)	
		Diam. Max.	Height					Net weight	Run Weight
NRT-8	6.2	945	1380	0.18	525	70	13	42	180
NRT-10	7.8	945	1530	0.18	600	85	13	46	190
NRT-15	11.7	1195	1415	0.37	600	140	13	54	290
NRT-20	15.6	1195	1590	0.55	730	160	14	67	300
NRT-25	19.5	1400	1820	0.75	730	200	16	98	500
NRT-30	23.4	1650	1705	0.75	730	230	16	116	530
NRT-40	31.2	1650	1775	1.5	890	280	16	130	550
NRT-50	39.2	1830	1835	1.5	890	330	17	190	975
NRT-60	46.8	2145	1955	1.5	1150	420	17	240	1250
NRT-80	62.6	2145	2035	1.5	1150	450	18	260	1280
NRT-100	78.1	2900	2370	2.2	1410	700	21	500	1690
NRT-125	97.5	2900	2555	2.2	1410	830	23	540	1640
NRT-150	117	2900	2555	2.2	1410	950	23	580	1680
NRT-175	136.8	3310	3165	4	1750	1150	30	860	1960
NRT-200	156.2	3310	3165	4	1750	1250	30	880	1980
NRT-225	175.5	4120	3580	5.5	2100	1500	33	1050	2270
NRT-300	234	4730	3680	7.5	2400	2000	34	1760	3930
NRT-350	273.2	4730	3680	7.5	2400	2200	34	1800	3790
NRT-400	312.1	5600	3840	11	2745	2400	36	2840	5740
NRT-500	392.4	5600	3840	15	2745	2600	36	2900	5800
NRT-600	468	6600	4470	15	3400	3750	42	3950	9350
NRT-700	547.2	6600	4470	18.5	3400	3750	42	4050	9450
NRT-800	626.4	7600	4720	22	3700	5000	45	4700	11900
NRT-1000	781.2	7600	4720	22	3700	5400	45	4900	12100

Design conditions:

Waterin temp t_1=37°C
Waterout temp t_2=32°C
Wat bulb temp t_{WB}=27°C
Dry bulb temp t_{DB}=31.8°C
Atmospheric Pressure P_0=9.94x10^4Pa





: powerandcooltech@gmail.com : 01940413535 powerandcooltech.com

Other’ s Type Exhaust Fan :