

CXF SERIES

CROSS - FLOW COOLING TOWERS

HEAVY DUTY | HIGHER CAPACITY | ENERGY SAVING | SPACE SAVING



www.classikcoolingtowers.com



CLASSIK COOLING TOWERS

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LOW NOISE LEVEL | LOW DRIFT LOSS | ABSOLUTE GUARANTEE OF THERMAL PERFORMANCE

Credit and Qualification

CLASSIK COOLING TOWERS

2000- Established in Coimbatore, Manchester of south India.

2001 - Major - Supplies to steel and power Industries.

2002 - First Export to Nigeria 500TR x 3 Nos

2003 - Corporate Member of CTI (Cooling Technology Institute. USA).

2004 - ISO 9001 : 2001 Quality System Certification.

First Dry Cooling Tower Installed at Textile Industry. India

2005 - First International Exhibition at Sri Lanka (SME 04) and Vietnam (HVACR'04)

2006 - Major Percentage of our Products Been Exported to Middle East Countries.

2007 - More than 100 units of Wooden Cooling Towers Installed at Effluent treatment plants.

2008 - Equipped for Mfg. of PVC Fill media for Cooling Towers. First Export to USA 400 TR - 2 Nos

2009 - Massive Closed Circuit Cooling Towers manufactured, Tested with real loads at our factory, Finally Despatched to Iraq, Got erected & commissioned by the client. (total project completed with in 45 days)

2010 - Biggest Modular Cooling Tower 2500TR x 5 successfully installed at Saudi Arabia on existing plat form
2500TR x 2 installed at Egypt. Exhibit at Egypt, INDEE. Cairo.

2011 - Exhibit at Saudi Arabia, Upgraded to integrated manufacturing Company with 81,000 Sq.ft of area

2013 - Introduced Low Noise, Low Drift & Energy saving (up to 60%) cooling towers.



Corporate Member of CTI



ISO 9001 : 2008, 14001 Quality System Certification



Indian Society of Heating Refrigerating and Air Conditioning



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Innovation - oriented, Quality - Establishment, Mutual Benefit & Sharing

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Excellent Performance

Through a number of comprehensive field survey of our clients, We have found that there are many problems in cooling towers, which lead to the increase of Energy consumption and Environmental pollution, such as, Instability of thermal properties, Excessive noise and More Drift Loss, and cause a great deal of troubles to the clients. We have made an optimal design of cooling towers with High Efficiency, Low Energy Consumption, Low Noise, and Less Drift by the theory of Hydrodynamics, Engineering Thermodynamics and Mechanics of Materials.

High Efficiency Absolute Guarantee of High-Efficiency Thermal Performance

We have independent intellectual property rights for core components: tower dimensions, fills and adequate air flow design absolutely guarantee high-efficiency thermal performance, which is better than national standard.

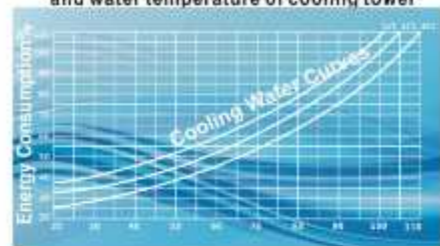
Low Energy Consumption High Efficiency

Under the promise of achieving the same cooling effect, it save operating cost by larger tower dimension, more heat transfer area and bigger fan diameter while lower rotating speed. Power ratio meets the national standards, of which most of the models are lower than 0.03KW/(m³/h).

Low Noise Environmental Protection

We can reduce mechanical noise effectively by use of high-quality quieter material and transmission components. Through pool-type water distribution with cover and nozzles to distributing water, we can reduce water flow noise to minimum, with the large dimension of tower and low noise of double-layer aluminium alloy aerofoil fan, we can assure that cooling towers run at low noise environment

Curves of cooling capacity, energy consumption and water temperature of cooling tower



Less drift Energy saving

With high efficient multi-functional fills, we can restrict the drift loss at a very low level: At the same time, there are special water baffle plates and no beams in the middle, which can assure water will not drift outside, the drift loss is less than 0.001%

Innovative Design

Breakthrough fills Design To ensure adequate thermal performance

Packing fills utilize only high quality raw PVC film sheets by vacuum forming. The fills are hanging in whole sheet, which overcome airflow short-Pass, uneven water distribution and low cooling effect by



Distribution Design for Variable Flow Rate Uniform Water distribution cooling efficiency

Use the unique overflow device and nozzles layout and realize smooth and uniform water distribution under different system load, to meet the requirements of energy saving. The device completely eliminates the splashing loss of cooling water.



Internal Pipe Design Even Water Supply Cost – saving Good Appearance

By the theory of natural uniform distribution of liquid, it makes water flow into hot basin evenly. It can save the cost to install external pipes, take up less space and look more beautiful.



Integral Cross-flow Design Easy Transportation

We can design and manufacture cooling towers of all dimensions and architectural images upon special demands from clients, such as: container – shape cooling tower suitable for transportation and installation.

Note: Standard Tower cannot be transported.



Classik Special Qualities

Casing

Use the imported corrosion-resistant and UV-resistant gel coat and pigment; integrally mix and mold well with high grade resin and non-alkali fiber. It's uniform in colour, difficult to fade and anti-aging, smooth surface like a mirror, Stripe-shaped surface is non-glare and strong so as to avoid light pollution.



Hot Water basin Cover

Avoid water pollution and protect nozzles from blocking by foreign objects falling in hot basin. At the same time, avoid direct channel and inhabit growth of algae. Besides, break noise channel, so as to reduce noise of water flow.



Fan

Patent aerofoil fan, made of aluminum alloy, has the best quality of light weight, great strength, enormous wind, low energy consumption and long life. It also can run at a very low speed. Blade angle can be adjusted according to system load. It can fully run under rated power to best performance.



Mechanical system

The standard products provide belt speed reducer with imported anti-skid belt and high-precision bearings. It has long service life and low – noise operation. Gear speed reducer as option according to clients' requirement.



Motor

Dedicated TEFC cooling tower motor, with protection of IP55 and insulation of F class, which is suitable for 415V/3/50Hz power supply. Besides, other type of motor is available too. Variable Frequency Drive motor is as option according to clients' requirement.



Frame Structure

Leading structure design and high-quality materials Use superior hot – dip galvanized steel (GB Q235) to make frame structure. The whole tower can resist 150 KG/M² wind pressure: withstand load of grade twelve typhoons and seismic intensity of eight magnitudes.



Working deck protective devices

There are spacious maintenance walkway, handrails, and movable maintenance deck in the tower of DFT and SFT series. Fan guard cover is densely spread. Access door is large in size. Working deck's width is applicable. All of above assures maintenance staff work safe and conveniently. Mechanical components use protective device such as motor cover, belt cover.



CXF-DFT Rectangular Crossflow Cooling Tower
Double Side Air Intake & Top Exit



CXF DFT Structure Illustration

1	Casing	FRP
2	Access Door	FRP
3	Walkway	HDGS
4	Nozzle	PP
5	Cold Water Basin	FRP
6	Outlet Flange	HDGS
7	Fill	Fire Retardant PVC
8	Inlet Flange	HDGS (DFT 13~ 21)
9	Ladder	HDGS
10	Fan(Aerofil)	Al Alloy / FRP
11	Speed Reducer	Cast Iron
12	Fan Guard	HDGS
13	Hot Water Basin Cover	FRP
14	Belts	Rubber
15	Belts Guard	FRP
16	Motor	Totally Enclosed IP55, F Class
17	Fan cylinder	FRP



Number 11-40-01

Note: standard configuration

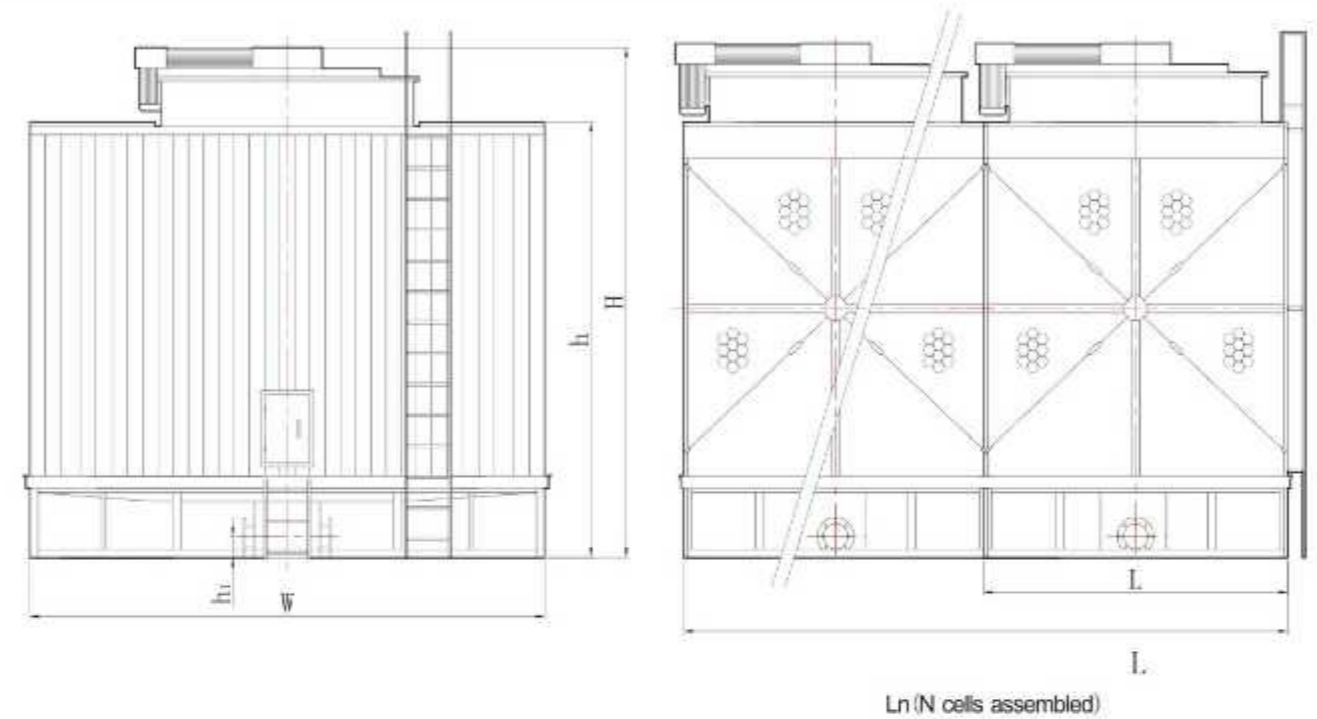
International Standard Design working condition of cooling tower design: water inlet temperature 37°C ; Water outlet temperature 32°C ; Wet-bulb temperature 28°C ; Dry-bulb temperature 31.5°C ; Atmospheric pressure 9.94 x 10⁴ Pa.

CXF-DFT Series parameters

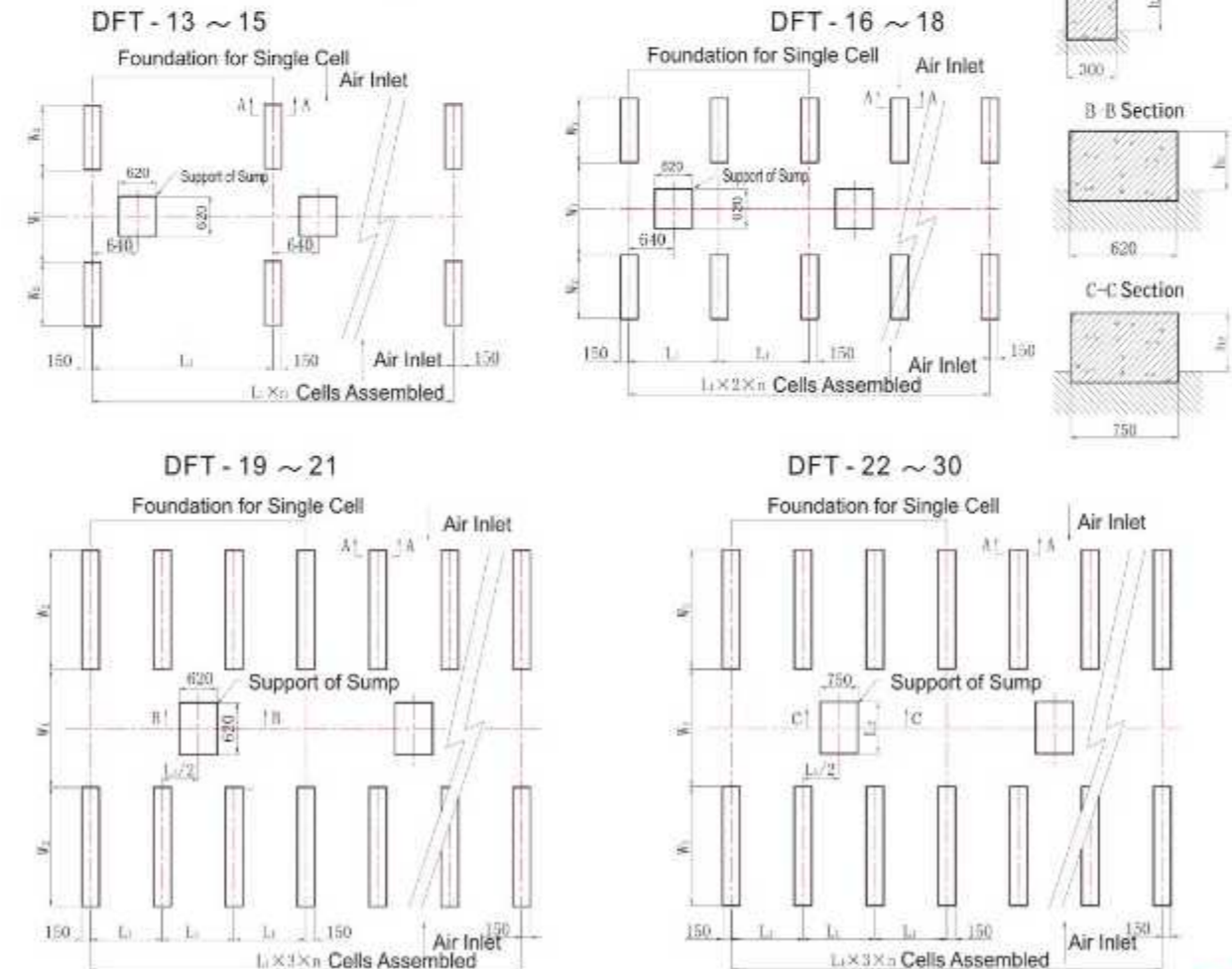
Flow Rate m ³ /h	Model	Power System		Outline Size					Connection Diameter					Pump Head mH ₂ O	Weight		
		Fan Diameter Φmm	Motor Power KW	Length L mm	Width W mm	Height h ₁ mm	Height H mm	Height h mm	Inlet DNmm	Outlet DNmm	Overflow DNmm	Auto Make-up DNmm	Manual Make-up DNmm		Drain DNmm	Dry Weight kg	Operation Weight kg
100	CXF-DFT-13	1500	3.7	1900	3480	170	3630	3060	150	150	80	20	20	50	3.7	1050	2250
125	CXF-DFT-14	1500	3.7	2100	3480	170	3630	3060	150	150	80	20	20	50	3.7	1150	2350
150	CXF-DFT-15	1800	3.7	2100	3780	170	4270	3680	150	150	80	20	20	50	4.1	1250	2550
175	CXF-DFT-16	2200	5.5	2600	4180	200	4400	3680	200	200	80	20	20	50	4.1	1350	2850
200	CXF-DFT-17	2200	5.5	2600	4180	200	4600	3680	200	200	80	25	25	50	4.3	1520	3130
225	CXF-DFT-18	2200	7.5	2600	4180	200	4810	4090	200	200	80	25	25	50	4.6	1620	3770
250	CXF-DFT-19	2500	7.5	3000	4480	200	4810	4090	200	200	80	25	25	50	4.6	2080	4300
300	CXF-DFT-20	2500	7.5	3000	5080	200	4410	3690	200	200	80	25	25	50	4.2	2420	5070
350	CXF-DFT-21	2500	11	3000	5080	200	4810	4090	200	200	80	40	40	50	4.6	2550	5300
400	CXF-DFT-22	2950	11	3300	5550	220	5030	4190	125 x 4	250	80	40	40	50	4.7	2850	6200
450	CXF-DFT-23	2950	11	3300	5550	220	5640	4800	125 x 4	250	80	40	40	50	5.5	3250	6600
500	CXF-DFT-24	2950	15	3800	5550	250	5640	4800	150 x 4	300	80	40	40	50	5.5	3550	7400
550	CXF-DFT-25	3400	15	3800	6000	250	5800	4900	150 x 4	300	80	50	50	50	5.6	4050	8200
600	CXF-DFT-26	3400	15	4600	6000	250	5800	4900	150 x 4	300	80	50	50	50	5.6	4650	9800
700	CXF-DFT-27	3600	18.5	4600	6200	250	6000	5100	150 x 4	300	80	50	50	50	5.8	5050	10500
800	CXF-DFT-28	3600	22	5100	6200	250	6000	5100	150 x 4	300	80	50	50	50	5.8	5450	11500
900	CXF-DFT-29	4200	30	5300	6800	310	6850	5510	200 x 4	350	80	50 x 2	50	50	6.2	6250	13800
1000	CXF-DFT-30	4700	37	5500	7300	310	7200	6100	200 x 4	350	80	50 x 2	50	50	6.8	6950	15500

Classik Special Qualities

Outline Drawing



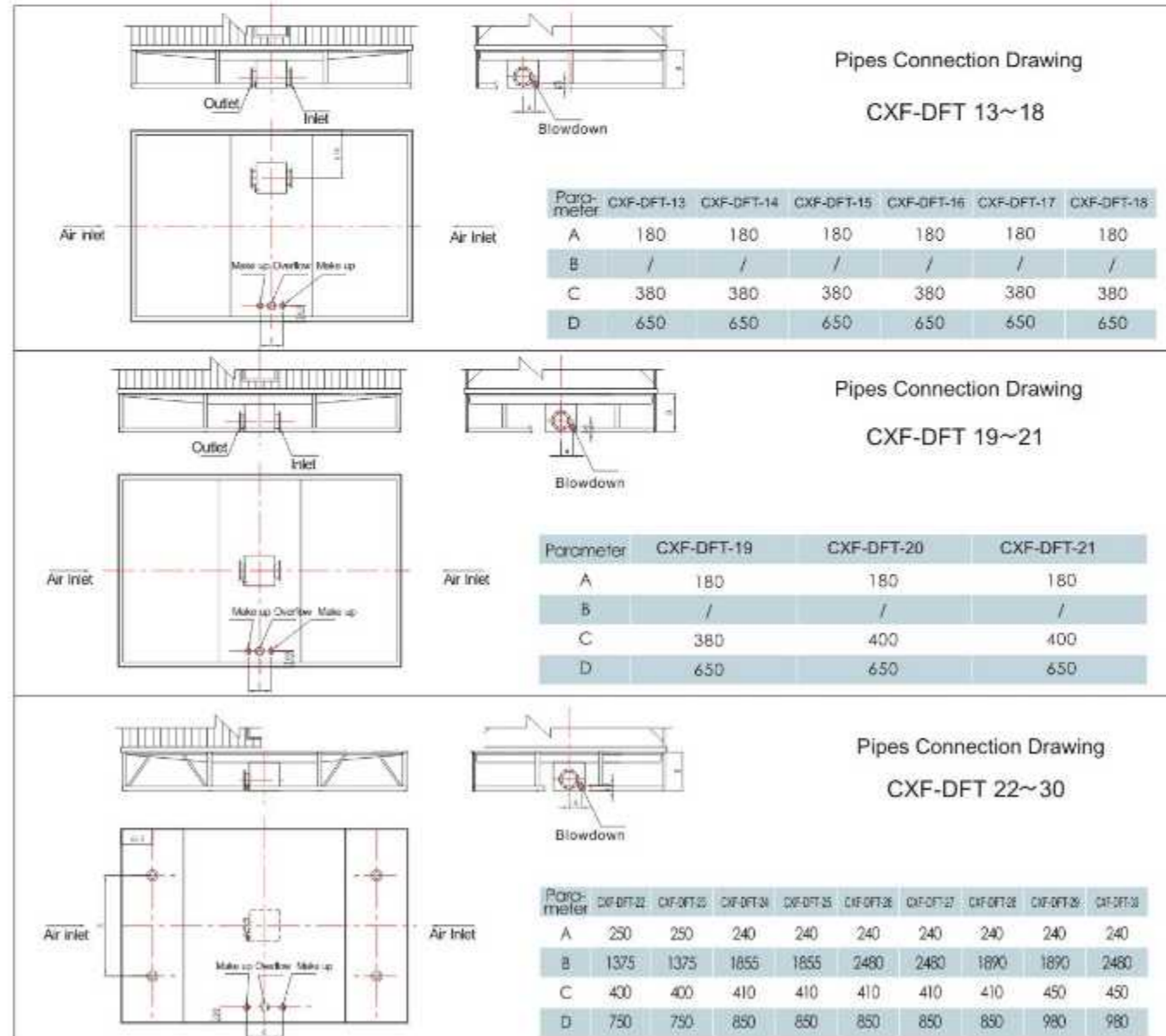
CXF DFT Foundation Drawing



CXF DFT Foundation Parameters

Data	DFT-13	DFT-14	DFT-15	DFT-16	DFT-17	DFT-18	DFT-19	DFT-20	DFT-21
L _i	1860	1030	1030	1280	1280	1280	987	987	987
L _e	/	/	/	/	/	/	/	/	/
W _i	650	650	940	940	940	940	1240	1440	1440
W _e	1550	1550	1550	1750	1750	1750	1750	1950	1950
W _h	> 300	> 300	> 300	> 300	> 300	> 300	> 300	> 300	> 300
h _i	1860Xn	2060Xn	2060Xn	2560Xn	2560Xn	2560Xn	2960Xn	2960Xn	2960Xn
	+40	+40	+40	+40	+40	+40	+40	+40	+40

Data	DFT-22	DFT-23	DFT-24	DFT-25	DFT-26	DFT-27	DFT-28	DFT-29	DFT-30
L _i	1087	1087	1250	1250	1517	1517	1683	1750	1817
L _e	850	850	1000	1000	1000	1000	1000	1000	1000
W _i	1910	1910	1910	1950	1950	2150	2150	2150	2150
W _e	1950	1950	1950	2150	2150	2150	2150	2450	2700
h _i	> 300	> 300	> 300	> 300	> 300	> 300	> 300	> 300	> 300
L _n	3260Xn	3260Xn	3760Xn	3750Xn	4550Xn	4550Xn	5050Xn	5250Xn	5450Xn
	+40	+40	+40	+50	+50	+50	+50	+50	+50



CXF - DFT Project References - Photos



DFT-1500 m³ / hr x 2
OIL REFINERY DAMMAM



DFT-700 m³ / hr x 2
CENTRAL PROJECT MALAYSIA



DFT-400 m³ / hr x 2
RUBBER PLANT KUWAIT



DFT-500 m³ / hr x 2
WATER PROJECT RIYADH



DFT-1500 m³ / hr x 5
CENTRAL A/C HOSPITAL-HUNAN



DFT-19
ISLAMIC CENTRE - COLOMBU



LARGER INVENTORY • QUICK DELIVERY • EASY INSTALLATION

CXF-SFT Rectangular Crossflow Cooling Tower
Single Side Air Intake & Top Exit

CXF-SFT Structure Illustration

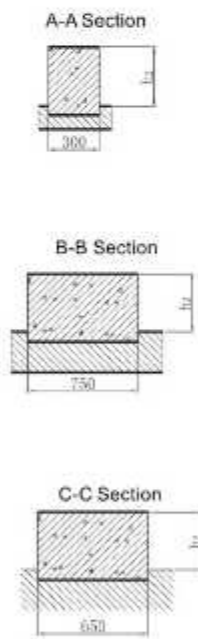
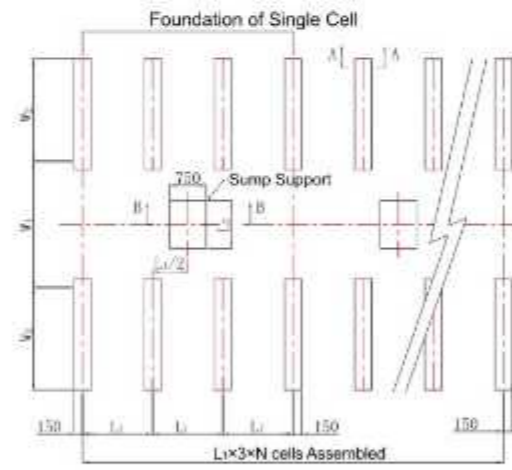
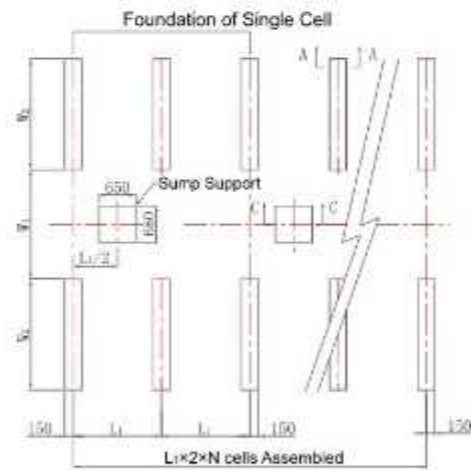
1	Casing	FRP
2	Access Door	FRP
3	Walkway	HDGS
4	Target nozzle	PP
5	Cold Water Basin	FRP
6	Outlet Flange	HDGS
7	Fill	Fire Retardant PVC
8	Inlet Flange	HDGS
9	Ladder	HDGS
10	Fan	Al Alloy / FRP
11	Speed Reducer	Cast iron
12	Belts Guard	FRP
13	Belts	Rubber
14	Motor	Enclosure, IP55, F Class
15	Fan cylinder	FRP



CXF-SFT Foundation Drawing

CXF-SFT 13~15

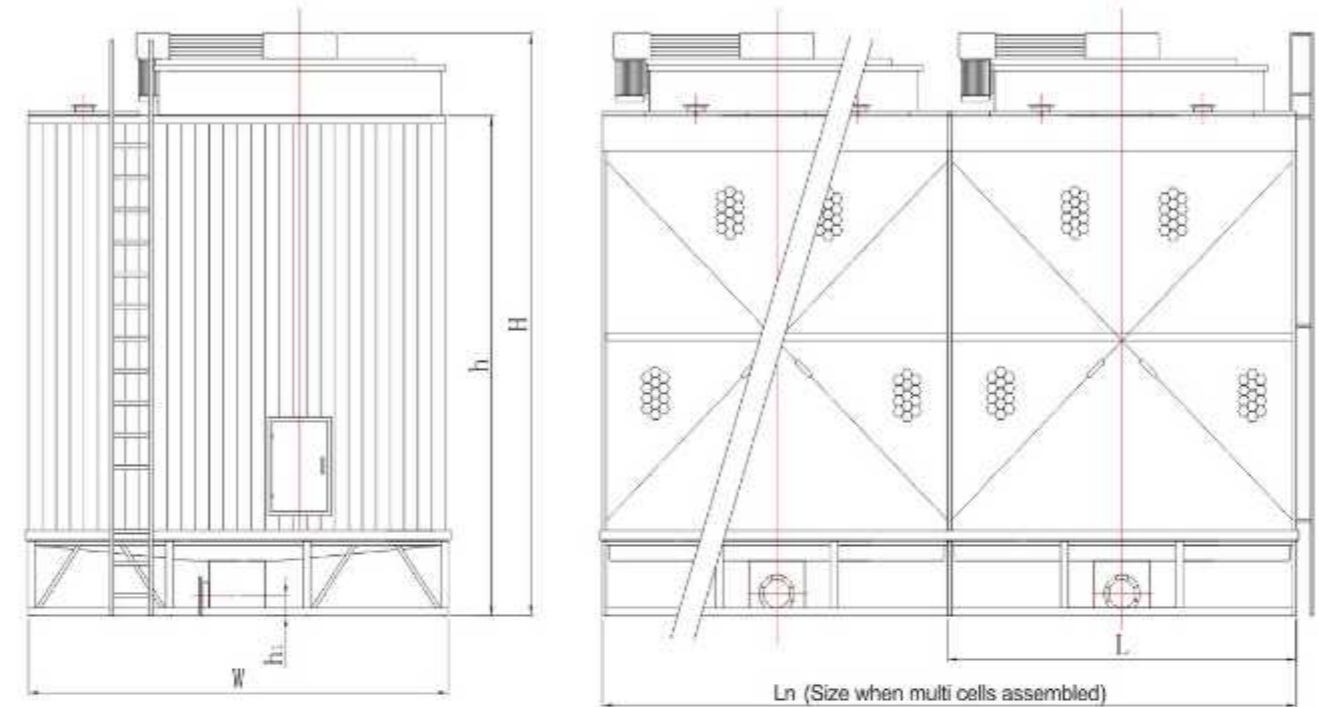
CXF-SFT 16 ~ 24



CXF-SFT Foundation Parameters

Parameter	CXF-SFT-13	CXF-SFT-14	CXF-SFT-15	CXF-SFT-16	CXF-SFT-17	CXF-SFT-18	CXF-SFT-19	CXF-SFT-20	CXF-SFT-21	CXF-SFT-22	CXF-SFT-23	CXF-SFT-24
L ₁	1280	1280	1280	987	1087	1253	1353	1353	1520	1687	1687	1820
L ₂	/	/	/	650	650	750	750	750	850	850	850	1000
W ₁	770	770	790	790	1080	1080	1080	1150	1180	1180	1380	1380
W ₂	1350	1350	1550	1550	1550	1550	1550	1750	1950	1950	1950	1950
h ₁	≥300	≥300	≥300	≥300	≥300	≥300	≥300	≥300	≥300	≥300	≥300	≥300
Ln	2560× n+40	2560× n+40	2560× n+40	2960× n+40	3260× n+40	3760× n+40	4060× n+40	4060× n+40	4560× n+40	5060× n+40	5060× n+40	5460× n+40

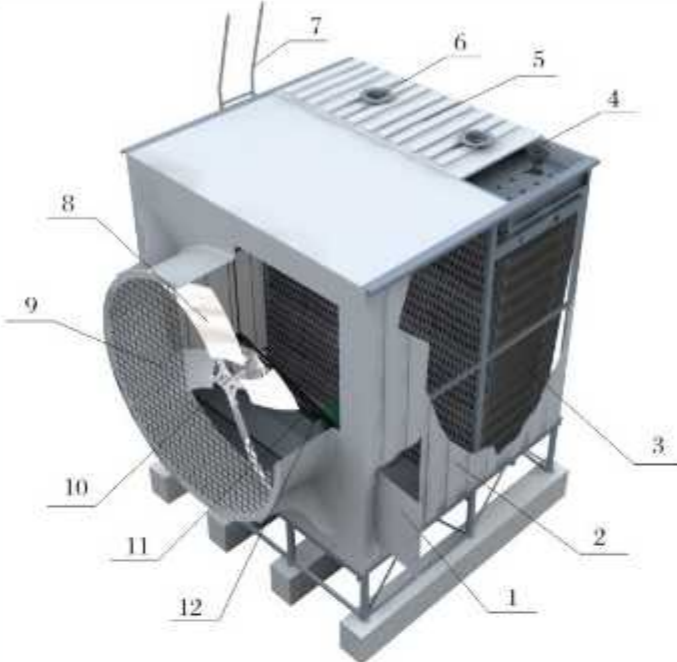
CXF-SFT Outline Drawing and Parameter



CXF-SFT Technical Information

Parameter	Flow Rate m ³ /h	Power System		Outline Dimension					Connecting Diameter					Pump Head mH ₂ O	Weight(Kg)		Noise Standard Point dB (A)	
		Fan Dia. Φmm	Motor Power KW	Length (L) mm	Width (W) mm	Height (H) mm	Height (h) mm	Inlet	Outlet	Overflow	Auto Make-up	Manual Make-up	Drain		D.W	OP W		
CXF-SFT-13	100	1800	3.7	2600	3200	170	4280	3680	100	150	80	20	20	50	4.1	1250	2550	60
CXF-SFT-14	125	1800	3.7	2600	3200	170	4480	3880	100	150	80	20	20	50	4.3	1350	2650	60
CXF-SFT-15	150	2200	5.5	2600	3620	170	4810	4090	125	150	80	20	20	50	4.6	1450	2850	60
CXF-SFT-16	175	2200	5.5	3000	3620	200	4810	4090	125	200	80	20	20	50	4.6	1620	3230	61
CXF-SFT-17	200	2500	7.5	3300	3920	200	4810	4090	125	200	80	25	25	50	4.6	1820	3970	61
CXF-SFT-18	225	2500	7.5	3800	3920	200	4810	4090	125	200	80	25	25	50	4.6	2080	4300	61
CXF-SFT-19	250	2500	7.5	4100	3920	200	4810	4090	150	200	80	25	25	50	4.6	2320	4870	62
CXF-SFT-20	300	2950	11	4100	4390	200	5530	4690	150	200	80	25	25	50	5.5	2650	5300	62
CXF-SFT-21	350	3400	11	4600	4820	220	5690	4790	150	250	80	40	40	50	5.6	2950	6100	62
CXF-SFT-22	400	3400	15	5100	4820	220	5690	4790	150	250	80	40	40	50	5.6	3150	6500	63
CXF-SFT-23	450	3600	15	5100	5020	220	5690	4790	200	250	80	40	40	50	5.6	3450	7250	63
CXF-SFT-24	500	3600	18.5	5500	5020	250	5790	4890	200	300	80	40	40	50	5.7	3850	7900	64

CXF-SFS Rectangular Crossflow Cooling Tower
Single Side Air Intake & Side Exit

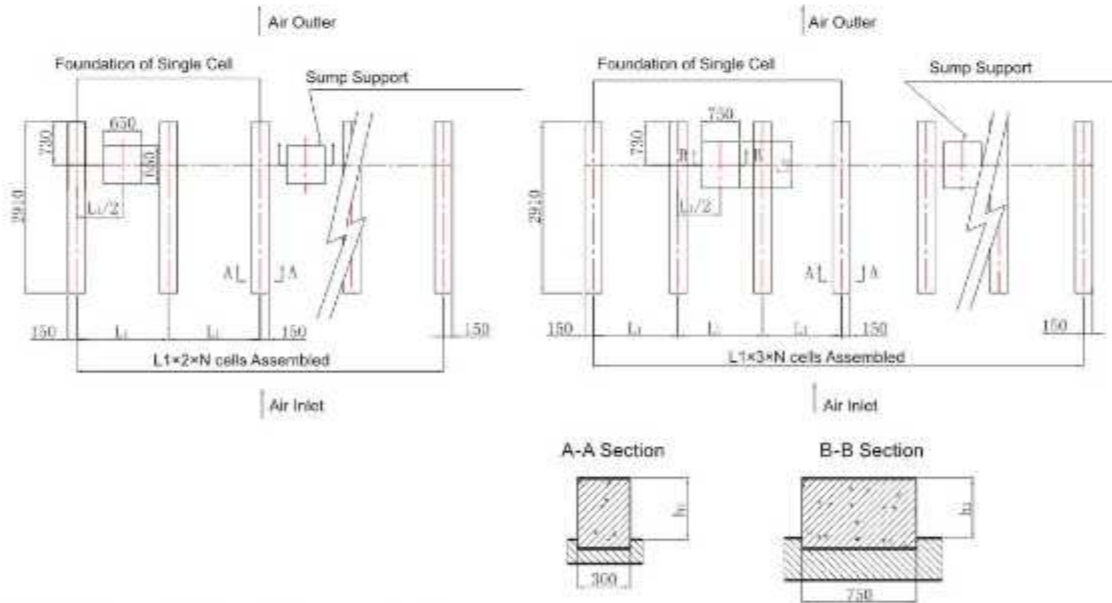


1. Access Door	FRP
2. Casing	FRP
3. Fill	Fire Resistant PVC
4. Nozzle	PP
5. Hot Water Basin Cover	FRP
6. Inlet Flange	HDGS
7. Walkway	HDGS
8. Aerofoil Fan	Al alloy / FRP
9. Fan Guard	HDGS
10. Speed Reducer	Cast Iron
11. Belts	Rubber
12. Motor	TEFC IP55, Class

CXF-SFS Foundation Drawing

CXF-SFS-13~15

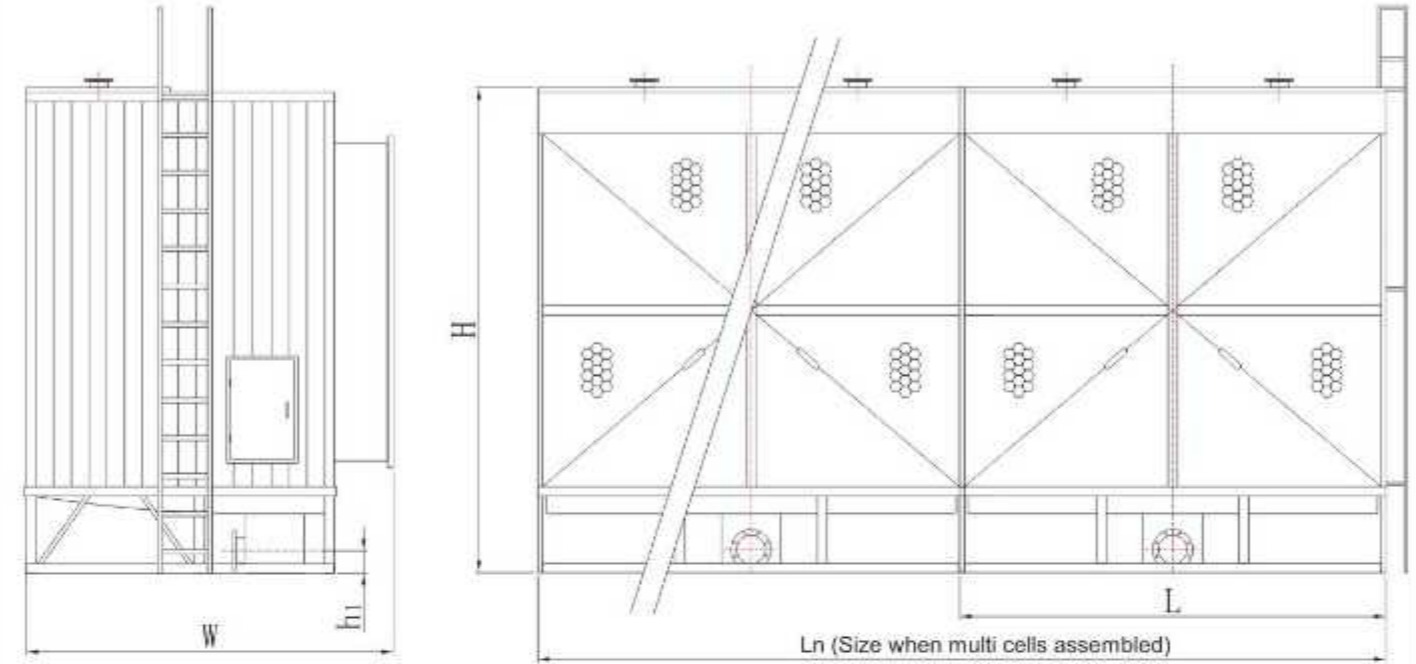
CXF-SFS-16~24



CXF-SFS Foundation Parameter

Parameter	CXF-SFS-13	CXF-SFS-14	CXF-SFS-15	CXF-SFS-16	CXF-SFS-17	CXF-SFS-18	CXF-SFS-19	CXF-SFS-20	CXF-SFS-21	CXF-SFS-22	CXF-SFS-23	CXF-SFS-24
L ₁	1280	1280	1280	987	1087	1253	1253	1353	1520	1687	1687	1820
L ₂	/	/	/	650	650	750	750	750	850	850	850	1000
h ₁	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300
L _n	2560× n+40	2560× n+40	2560× n+40	2960× n+40	3260× n+40	3760× n+40	3760× n+40	4060× n+40	4560× n+40	5060× n+40	5060× n+40	5460× n+40

CXF-SFS Outline Drawing and Parameter



CXF-SFS Technical Information

Parameter	Flow Rate m ³ /h	Power System		Outline Dimension				Connecting diameter					Pump Head mH ₂ O	Weight(Kg)		Noise Standard Point dB (A)	
		Fan Dia Φmm	Motor Power KW	Length (L) mm	Width (W) mm	Height (H) mm	Inlet	Outlet	Overflow	Auto Make-up	Manual Make-up	Drain		D.W	OP.W		
CXF-SFS-13	100	1800	3.7	2600	3050	170	3680	100×2	150	80	20	20	50	4.1	950	2150	62
CXF-SFS-14	125	1800	3.7	2600	3050	170	3880	100×2	150	80	20	20	50	4.3	1050	2350	62
CXF-SFS-15	150	2200	5.5	2600	3100	170	4090	125×2	150	80	20	20	50	4.6	1150	2650	62
CXF-SFS-16	175	2200	5.5	3000	3100	200	4090	125×2	200	80	20	20	50	4.6	1220	2830	63
CXF-SFS-17	200	2500	7.5	3300	3100	200	4090	125×2	200	80	25	25	50	4.6	1420	3570	63
CXF-SFS-18	225	2500	7.5	3800	3100	200	4090	125×2	200	80	25	25	50	4.6	1680	3900	63
CXF-SFS-19	250	2500	7.5	4100	3100	200	4090	150×2	200	80	25	25	50	4.6	1820	4470	64
CXF-SFS-20	300	2950	11	4100	3150	200	4690	150×2	200	80	25	25	50	5.5	2150	4900	64
CXF-SFS-21	350	3400	11	4600	3150	220	4790	150×2	250	80	40	40	50	5.6	2350	5700	64
CXF-SFS-22	400	3400	15	5100	3150	220	4790	150×2	250	80	40	40	50	5.6	2650	6100	65
CXF-SFS-23	450	3600	15	5100	3150	220	4790	200×2	250	80	40	40	50	5.6	2950	6850	65
CXF-SFS-24	500	3600	18.5	5500	3150	250	4890	200×2	300	80	40	40	50	5.7	3150	7300	66

Notes of Installation

1. The cooling tower install position should be aerating freely, keeping away from soot or other heat sources.
2. The cooling tower install position where exhaust will not re-inlet by air cycle.
3. **To avoid fire around the cooling tower, forbids using gas cutting, electric welding, and so on.**
4. The foundation of the tower should be horizontal to avoid reduce cooling effect by uneven water distribution.
5. Please keep a certain distance between air inlet and building, to assure new air inlet.
6. Make sure the components of the cooling tower has been well protection.
The permitted minimum distance between air inlet side and building is depend on the type of tower and sets number of assembly, if you need more detail information, please contact with us.

Optional Accessories

- Ladder Safety Cage (HDGS or Stainless Steel)
- Guardrail (HDGS or Stainless Steel)
- Variable Frequency Control System
- High Temperature Fill
- Vibration Isolator (Spring or rubber)
- Gear reducer drive
- Two Speed Motor
- Air Inlet Screens
- Basin Heater
- Silent Fan Cylinder
- Oriented Fan Cylinder (45° or 90°)
- Fill Self-clean System
- Automatic dosage system
- Stainless Steel Options : (ss304 or ss316)
 - Tower Structure
 - Casing
 - Collection Basin
 - Handrail and Ladder
- Guardrail
 - Ladder Safety Cage
 - Distribution Basin

Notes of Selection

1. International working condition of cooling tower design: water inlet temperature 37°C ; Water outlet temperature 32°C ; Wet-bulb temperature 28°C ; Dry-bulb temperature 31.5°C ; Atmospheric pressure 9.94×10^4 Pa.
2. Customer design cooling tower are also available upon request. For more information, Please contact with our sales office.
3. Single fan or multi-fan tower can be selected according to actual needs if water flow is 200~800M³/h.
4. The supporting foundation shall be in the same elevation and all of tolerance shall be within 5mm.
5. The foundation height h₀ is depended on diameter of water outlet pipe and installation height.
6. When Multiple-cells are assembled, the company provide equalizing pipe to balance water level in bottom bash
7. If you want to enlarge the diameter of water outlet flange, please inform us before placing order.
8. When cooling Towers are installed in noise-sensitive areas (such as residential, hotel, hospital, office building) be sure to consider the effects of noise and request the company to provide technical solution
9. The Picture shows the connection position and size of single cell, which is applicable for multi-cells assembly
10. When different model towers are connected at site, the operation water level (size D) of different model towers must be assured even by adjusting the concrete pillar height.
11. **The Minimum distance between air intake surface of cooling Towers and the building relates to the tower type and assembled cells numbers, the company can provide detailed information upon request.**

Operating and Maintenance

1. In order to keep smooth water flow, please clean dirt on sprayer system and filter regularly.
2. Inspect speed reducer bearings one time every month at least when running 12 hours per day, add lubricate when necessary.
3. Over tighten of belt will lead damage of bearing, but if too loose, the belt will skid and then lower durability.
4. New belt will loose gradually after running 7~10 days, it should adjust the belt again.
5. Please release belt when cooling tower stopped running for a long time to avoid bear unnecessary tension,
6. Please clean water of the hot water basin during cold winter to avoid freeze in the tower.
7. Please pay attention to water level and states of running components.
8. Please start motor at least one hour per month to avoid water seep in the coil during the winter.

Customer Service

When we continuously exceed customer's expectations, we also promote each time during design, technology, material management, after-sales service and re-visit. It is our honored duty to provide convenient, reliable and professional service to our clients.

In order to provide data and technical support for after-sales service, from the moment of choosing our products, the service center will keep in touch with our clients regularly to record the situation of equipment and to collect feedback of clients. Tracking service will through the cycle use of products. With a high degree of professionalism and good sense of responsibility, the engineers of Classik Cooling Towers will provide fast and professional plan to meet our clients needs as soon as possible.

Cross Flow Cooling Tower Selection Chart

Wet Bulb Temp. (°C)	27 °C																
	Inlet and Outlet		5.5		6		7		8		9		10				
Inlet water temp. (°C)	38	37	35	37.5	36.5	38	37	36	38	37	40	39	40	39	43	42	40
Outlet water temp. (°C)	33	32	30	32	31	32	31	30	31	30	32	31	31	30	33	32	30
CXF-XXX-13	121	115	77	108	90	102	86	69	78	64	85	72	68	58	66	75	53
CXF-XXX-14	152	142	98	134	113	127	108	88	99	81	107	81	88	71	109	95	68
CXF-XXX-15	181	170	118	161	136	152	129	106	119	98	129	110	104	88	130	114	82
CXF-XXX-16	210	199	137	187	159	178	151	124	138	114	150	129	121	101	152	134	96
CXF-XXX-17	240	229	156	215	181	202	172	141	157	130	171	140	138	116	174	152	110
CXF-XXX-18	271	257	176	242	204	229	194	159	177	147	193	165	156	130	196	172	124
CXF-XXX-19	302	289	196	268	226	254	215	177	197	163	215	184	173	145	218	191	138
CXF-XXX-20	365	348	238	321	272	305	259	213	238	197	258	221	209	173	262	230	167
CXF-XXX-21	426	397	275	375	318	356	302	249	277	230	302	258	244	204	306	269	195
CXF-XXX-22	488	455	313	439	363	406	345	283	316	262	344	298	277	222	349	300	221
CXF-XXX-23	550	510	354	481	409	457	389	321	357	296	388	333	314	263	393	346	251
CXF-XXX-24	610	569	391	536	453	508	431	354	395	327	430	366	347	290	436	382	278
CXF-XXX-25	671	624	432	589	500	564	476	392	437	362	475	407	384	321	481	423	307
CXF-XXX-26	732	679	473	641	546	609	520	429	478	397	519	448	420	352	526	463	337
CXF-XXX-27	850	791	553	748	637	711	607	501	558	464	606	521	491	412	614	540	393
CXF-XXX-28	1000	904	632	855	728	812	694	573	638	530	693	596	561	471	702	617	449
CXF-XXX-29	1130	1022	714	966	823	919	784	647	721	599	783	672	634	532	793	697	507
CXF-XXX-30	1266	1145	800	1082	922	1029	878	725	808	671	877	753	710	596	888	781	568

Wet Bulb Temp. (°C)	28 °C																
	Inlet and Outlet		5.5		6		7		8		9		10				
Inlet water temp. (°C)	38	37	35	37.5	36.5	39	38	37	38	37	40	39	41	40	43	42	41
Outlet water temp. (°C)	33	32	30	32	31	32	31	31	30	32	31	32	31	32	33	32	31
CXF-XXX-13	119	100	61	94	76	106	89	72	66	51	75	63	71	58	78	67	55
CXF-XXX-14	148	125	78	116	96	132	112	92	84	68	95	78	90	74	99	85	71
CXF-XXX-15	177	150	95	142	116	158	135	111	102	80	116	98	108	90	119	103	86
CXF-XXX-16	207	175	110	165	136	185	157	129	119	94	134	111	126	105	139	120	100
CXF-XXX-17	238	200	125	188	154	213	179	147	135	107	153	127	144	120	158	136	114
CXF-XXX-18	267	225	142	213	174	238	202	168	153	121	173	143	162	138	179	154	129
CXF-XXX-19	296	250	158	238	193	264	224	184	170	134	192	158	180	151	198	172	144
CXF-XXX-20	364	300	190	283	233	317	270	222	205	162	231	192	217	182	240	207	174
CXF-XXX-21	413	350	222	331	272	370	315	259	240	189	269	226	254	212	280	241	203
CXF-XXX-22	473	400	252	378	310	423	359	295	273	215	307	256	289	242	319	275	231
CXF-XXX-23	530	450	286	426	350	475	405	334	309	244	347	289	327	274	360	311	262
CXF-XXX-24	592	500	315	472	387	529	449	369	347	269	383	319	361	302	396	343	288
CXF-XXX-25	649	550	348	526	428	581	485	408	377	298	424	354	400	335	440	380	320
CXF-XXX-26	705	600	383	568	468	633	547	447	413	327	464	388	438	367	482	416	351
CXF-XXX-27	822	700	448	683	547	739	631	522	483	383	542	453	511	429	562	487	410
CXF-XXX-28	939	800	512	758	623	845	721	597	552	438	619	518	584	480	642	557	469
CXF-XXX-29	1061	900	579	857	706	955	815	675	624	495	699	585	660	554	725	629	530
CXF-XXX-30	1188	1000	648	960	791	1070	913	756	699	554	783	655	738	620	812	704	594

Wet Bulb Temp. (°C)	29 °C																
	Inlet and Outlet		5.5		6		7		8		9		10				
Inlet water temp. (°C)	38	37	35	37.5	36.5	39	38	37	38	37	40	39	41	40	43	42	41
Outlet water temp. (°C)	33	32	30	32	31	32	31	31	30	32	31	32	31	32	33	32	31
CXF-XXX-13	104	84		80	61	92	76	58	54		65	57	68	54	76	65	53.5
CXF-XXX-14	130	101		100	76	116	95	72.5	67.5		81	71	85	67	95	81	66
CXF-XXX-15	156	126		120	91	139	114	87	81		97	85	102	81	114	97	80
CXF-XXX-16	182	147		140	106	162	133	101	94	X	113	99	119	94	133	113	93
CXF-XXX-17	208	168		160	122	188	152	116	108		130	114	136	108	152	130	107
CXF-XXX-18	234	189		180	137	209	171	130	121		148	128	153	121	171	148	120
CXF-XXX-19	260	210		200	152	232	190	145	135		162	142	170	135	190	162	132
CXF-XXX-20	312	252		240	183	279	228	174	162		195	171	204	162	228	195	160
CXF-XXX-21	364	294		280	213	325	266	203	189		227	199	238	188	266	227	187
CXF-XXX-22	416	336		320	244	372	304	232	216		260	228	272	218	304	260	214
CXF-XXX-23	468	378		360	274	418	342	261	243		292	256	306	243	342	292	240
CXF-XXX-24	520	420		400	305	465	380	290	270		325	285	340	270	380	325	267
CXF-XXX-25	572	462		440	335	511	418	319	297		357	313	374	297	418	357	294
CXF-XXX-26	624	504		480	368	558	458	348	324		390	342	408	324	458	390	321
CXF-XXX-27	728	588		580	427	651	532	408	378		455	399	476	378	532	455	374
CXF-XXX-28	832	672		640	488	744	608	464	432		520	456	544	432	608	520	428
CXF-XXX-29	948	786		730	556	848	693	529	492		593	520	620	492	693	593	488
CXF-XXX-30	1071	866		825	628	958	783	598	556		670	588	701	556	783	670	551