



FDC

SERIES

Forced Draft Counter Flow Type

RYOWO COOLING TOWER

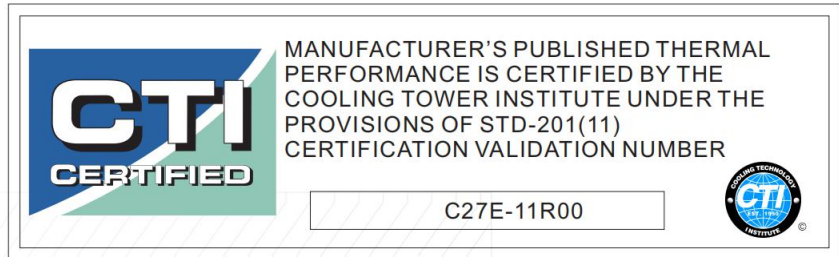


RYOWO FDC series are factory assembled modular type forced draft counter flow cooling towers equipped with low noise multi-wheel centrifugal fans.

SUPERB FEATURES

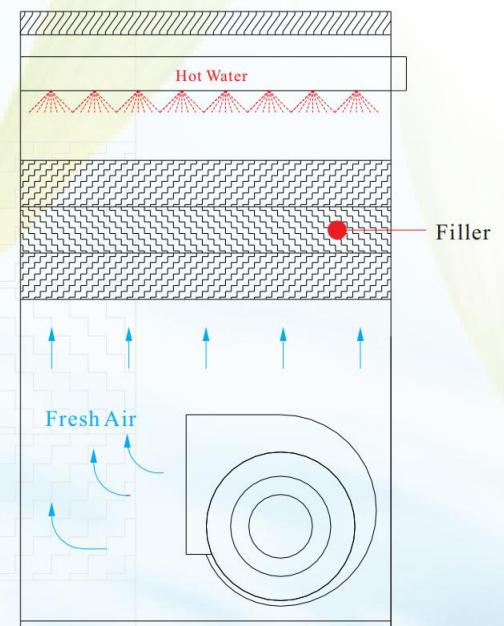
High Performance

No doubt about the cooling capability that belongs to RYOWO FDC series counter flow cooling towers due to the perfect contact process between air and water inside the cooling towers. FDC series can dissipate the largest amount of heat at the smallest size of space occupied.

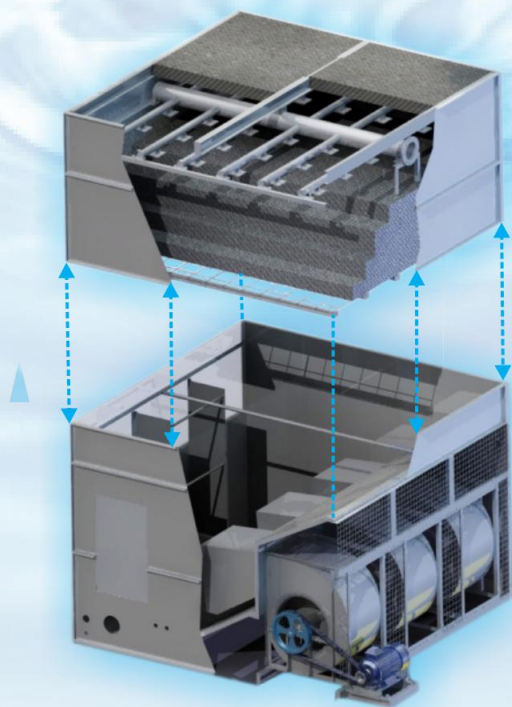


Low Energy Consumption

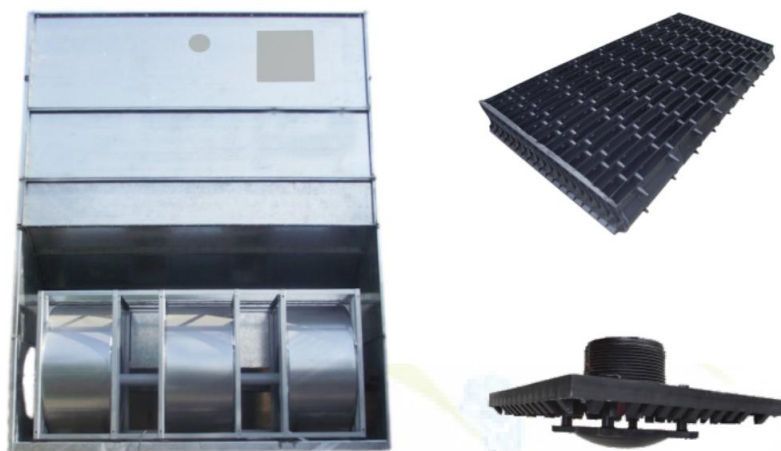
For the same space taken up, FDC series can provide you with the lowest leaving water temperature which is definitely a vital parameter in the reduction of energy cost of the whole HVAC system



Smaller Size and Easy Installation



Not enough space or installation time? FDC series can solve both of these problems by having embedded modulus design concept over through the design process. Larger size models can be disassembled into sub-models for ease of transportation, hoisting and installation. Smaller trucks, cranes and tools would be adopted and of course it would save both the time and money of the project.



Low Noise Emission

Centrifugal fan, enclosed design and noise abatement components (optional) enable FDC series to minimize its noise effect on the environment. Rotating the direction of the equipment is also an effective and economical way to reduce noise level towards the sensitive objects.

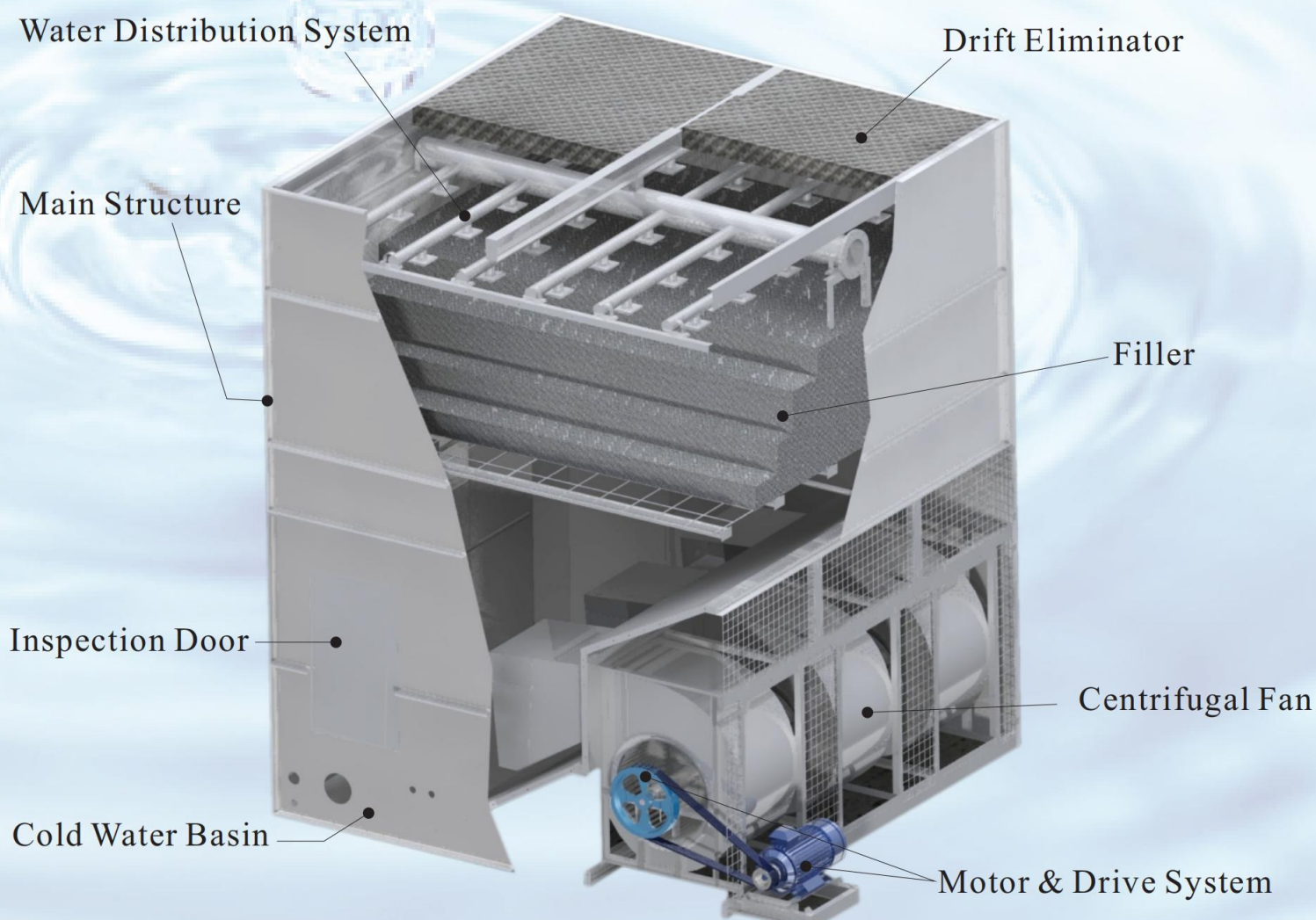
Safe and Reliable

Most of the parts are made from metals and the whole structure is designed to withstand the hurricane and seismic loads. Components inside the cooling tower are made from reliable materials for fire retardant and for long-term usage.

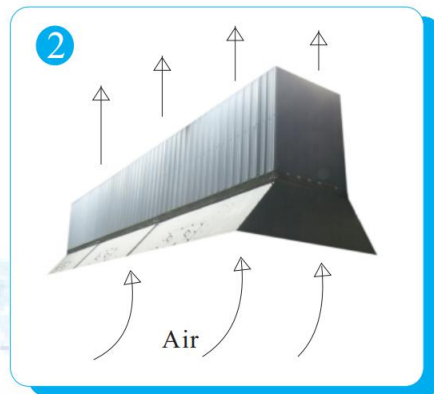
Easy Maintenance

Air flow generating system including fans, bearings, belts and motors, is isolated from the moist air which can increase the life time of the relevant components to a great extent. Inspection door and caged ladders (optional) are configured for ease of daily maintenances. Drift eliminators and spray nozzles are replaceable to extend the service time of the machine.

TOWER STRUCTURE



OPTIONAL COMPONENTS



- 1 Maintenance Platform, Handrails & Caged Ladder – Facilitating the implementation of maintenance
- 2 Discharge Hood – Increasing the air velocity to avoid recirculation of the discharge air.

SPECIFICATION

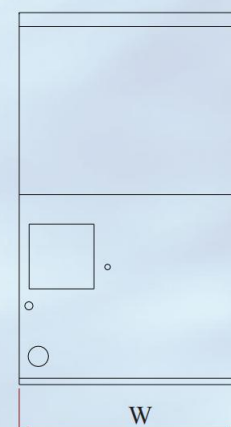
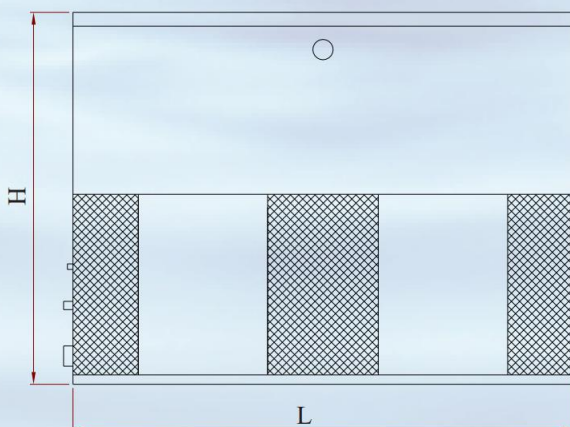
Model	Dimension			Motor (kW)	Nominal Water Flow (M ³ /hr)	Weight	
	L (mm)	W (mm)	H (mm)			Net (kgs)	Wet (kgs)
FDC-36424N	3600	2400	4600	15	161	2700	4470
FDC-36424O	3600	2400	4600	18.5	173	2765	4535
FDC-36424P	3600	2400	4600	22	183	2785	4555
FDC-36424Q	3600	2400	4600	30	203	2840	4610
FDC-36524Q	3600	2400	4900	30	221	3040	4810
FDC-36524R	3600	2400	4900	37	237	3060	4885
FDC-36428O	3600	2800	4600	18.5	183	3260	5400
FDC-36428P	3600	2800	4600	22	194	3285	5425
FDC-36428Q	3600	2800	4600	30	215	3340	5480
FDC-36428R	3600	2800	4600	37	231	3415	5555
FDC-36528Q	3600	2800	4900	30	235	3540	5680
FDC-36528R	3600	2800	4900	37	252	3615	5755
FDC-36432P	3600	3200	4600	22	202	3785	6305
FDC-36432Q	3600	3200	4600	30	224	3840	6360
FDC-36432R	3600	3200	4600	37	243	3915	6435
FDC-36532Q	3600	3200	4900	30	246	4040	6560
FDC-36532R	3600	3200	4900	37	264	4115	6635
FDC-36532S	3600	3200	4900	45	281	4215	6735
FDC-36436P	3600	3600	4600	22	208	4285	7140
FDC-36436Q	3600	3600	4600	30	231	4340	7195
FDC-36436R	3600	3600	4600	37	247	4415	7270
FDC-36536Q	3600	3600	4900	30	254	4540	7395
FDC-36536R	3600	3600	4900	37	272	4615	7670
FDC-36536S	3600	3600	4900	45	291	4715	7570

Notes:

1/CTI Certification applies to the operation with the Wet Bulb Temp. between 12.8 °C and 32.2 °C, Max. Entering Water Temp. 51.7 °C, Min. Range of 2.2 °C and Min. Approach of 2.8 °C.

2/The nominal water flows are based upon 37 °C HWT, 32 °C CWT, 28 °C WBT, 32 °C DBT and 101.3 kPa Barometric pressure.

3/Data and specifications are subjected to change without prior notice.





MODEL SELECTION

Model	Temp. Water flow rate at indicated HWT, CWT & WBT (M ³ /Hr)																								
	HWT °C	33	32	37	33	32	37	35	34	33	37	36	35	34	38	37	36	35	39	38	37	36	39	38	37
	CWT °C	28	27	32	28	27	32	30	29	28	32	31	30	29	33	32	31	30	34	33	32	31	34	33	32
	WBT °C	23	23	24	24	24	25	25	25	25	26	26	26	26	27	27	27	27	28	28	28	28	29	29	29
FDC-36424N	150	125	244	132	106	225	166	138	112	205	175	145	117	215	184	153	123	227	193	161	130	203	169	137	
FDC-36424O	162	135	262	141	114	242	178	149	120	220	188	156	126	232	197	164	133	244	208	173	140	218	182	147	
FDC-36424P	171	142	278	150	121	256	189	157	127	233	198	165	133	245	209	174	140	258	220	183	148	231	193	155	
FDC-36424Q	190	158	308	166	134	284	209	174	141	258	220	183	148	272	232	193	156	286	244	203	164	256	214	172	
FDC-36524Q	206	173	329	181	148	304	227	190	155	278	238	200	163	292	250	210	171	307	263	221	180	277	232	189	
FDC-36524R	221	185	352	194	158	326	243	204	166	298	255	215	175	313	268	225	184	329	282	237	193	297	249	203	
FDC-36428O	171	142	278	150	121	256	189	157	127	233	198	165	133	245	209	174	140	258	220	183	148	231	193	155	
FDC-36428P	181	151	294	159	128	271	200	167	134	247	210	175	141	260	221	184	149	273	233	194	157	245	204	165	
FDC-36428Q	201	167	326	176	142	301	222	185	149	274	233	194	157	288	245	204	165	303	258	215	173	272	226	183	
FDC-36428R	216	180	350	189	152	323	238	199	160	294	250	209	168	309	263	220	177	325	277	231	186	292	243	196	
FDC-36528Q	219	184	349	193	157	323	241	202	165	295	253	213	173	311	266	224	182	326	280	235	191	294	247	201	
FDC-36528R	235	197	375	207	168	347	259	217	177	317	272	228	186	333	285	240	195	350	300	252	205	316	265	216	
FDC-36432P	189	157	306	165	133	282	208	174	140	257	219	183	147	270	230	192	155	284	242	202	163	255	213	172	
FDC-36432Q	209	174	340	183	148	313	231	193	155	285	243	202	163	300	255	213	172	315	269	224	181	283	236	190	
FDC-36432R	227	189	369	199	160	340	251	209	168	309	263	220	177	325	277	231	186	342	292	243	196	307	256	206	
FDC-36532Q	229	192	366	202	164	338	252	212	173	309	265	223	181	325	279	234	191	342	293	246	200	308	259	211	
FDC-36532R	246	206	392	217	176	363	271	227	185	332	285	239	195	349	299	251	205	367	314	264	215	331	278	226	
FDC-36532S	262	220	418	231	188	386	288	242	197	353	303	254	207	371	318	267	218	390	335	281	229	352	296	241	
FDC-36436P	194	162	316	170	137	291	215	179	144	265	226	188	152	278	237	198	159	293	250	208	168	263	219	177	
FDC-36436Q	216	180	350	189	152	323	238	199	160	294	250	209	168	309	263	220	177	325	277	231	186	292	243	196	
FDC-36436R	231	192	375	202	163	345	255	212	171	314	268	223	180	331	282	235	189	348	296	247	199	312	260	210	
FDC-36536Q	237	199	378	208	170	349	261	219	178	319	274	230	187	336	288	242	197	353	302	254	207	318	267	218	
FDC-36536R	253	213	404	223	182	374	279	234	191	342	293	246	200	359	308	259	211	378	324	272	222	341	286	233	
FDC-36536S	271	227	433	239	194	400	299	251	204	366	314	263	214	384	330	277	225	404	347	291	237	364	306	249	

Notes:

1/CTI Certification applies to the operation with the Wet Bulb Temp. between 12.8 °C and 32.2 °C, Max. Entering Water Temp. 51.7 °C, Min. Range of 2.2 °C and Min. Approach of 2.8 °C.

2/This table is for quick selection only. For more precise selection, please consult RYOWO engineers.



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CATALOGUE FDC-(04)-2019