

EX-S

PACKAGED COOLING TOWER
SINGLE-CELL UP TO 1800HRT COOLING CAPACITY

TRUWATER®

High Performance Crossflow Type



ISO14001
CERTIFIED

ISO9001
CERTIFIED

CTI
CERTIFIED



PROVEN PERFORMANCE • RELIABILITY • EASY INSTALLATION



INTRODUCTION

EX-S Series is an induced draft cross-flow, film filled, FRP multi-cell rectangular cooling tower designed for the equipment cooling, and industrial process cooling and air conditioning applications.

The EX-S Series Cooling Tower is designed to meet maximum performance and reliability, and minimum maintenance.

The thermal performance of EX-S Series has been certified by CTI in accordance with CTI Standard STD-201.

EX-S Series Cooling Towers are designed and provided with high quality V-belt & pulley drive system or right-angle gear reducer drive system for more reliable operation.



ADVANTAGES

Proven Reliability

EX-S Series Cooling Towers have been installed in many applications. Customer satisfaction is testified by its long list of proven installations.

Energy Saving

The low speed, high efficiency fan and low pressure drop fill design to optimize the energy consumption.

High Efficiency Drift Eliminator

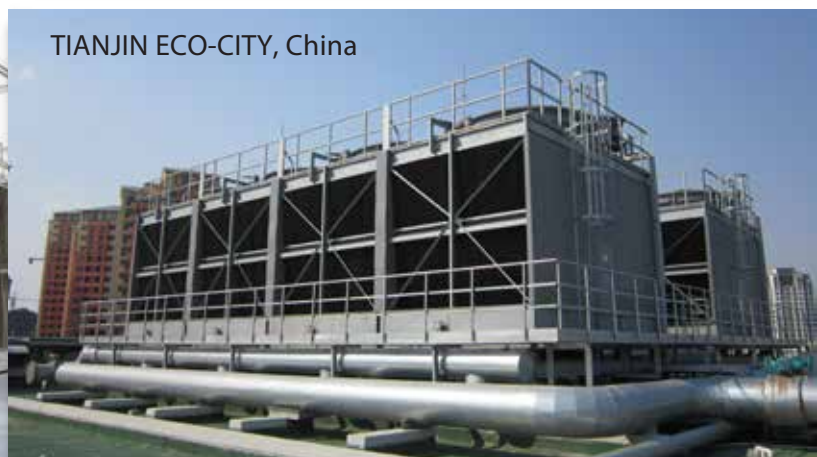
The efficient drift eliminators remove entrained water droplets from the air stream to less than 0.005%.

Proven Corrosion Protection

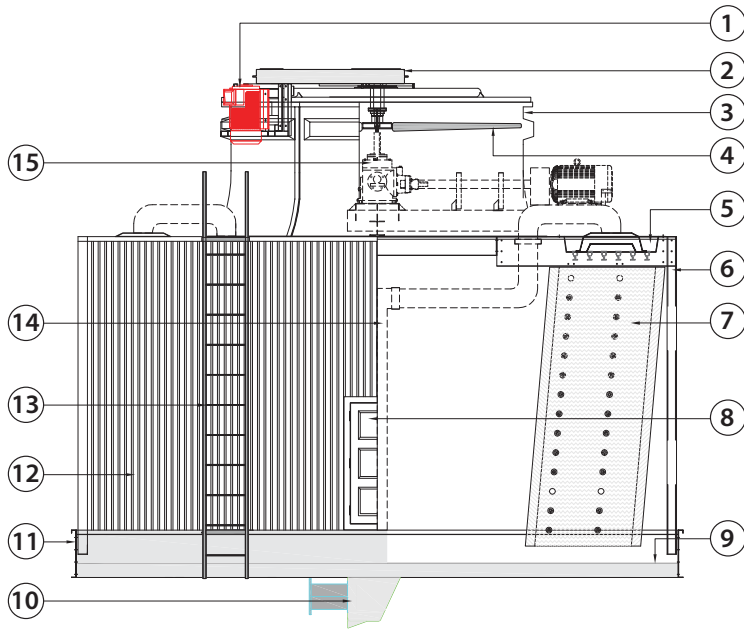
Tower components are made of anti-corrosive material suitable for cooling water application.



UMC, Singapore

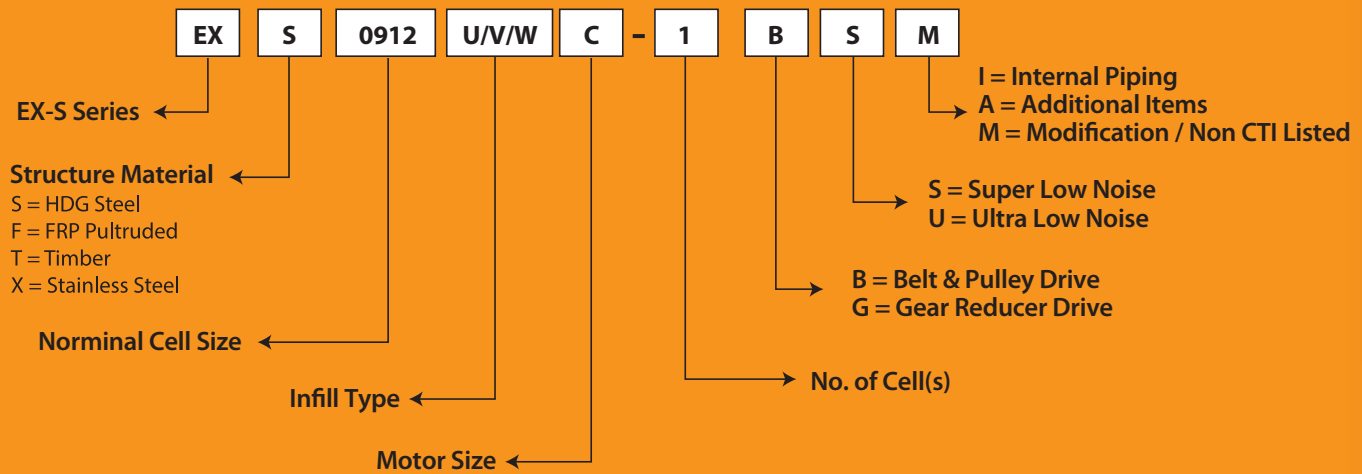


TIANJIN ECO-CITY, China



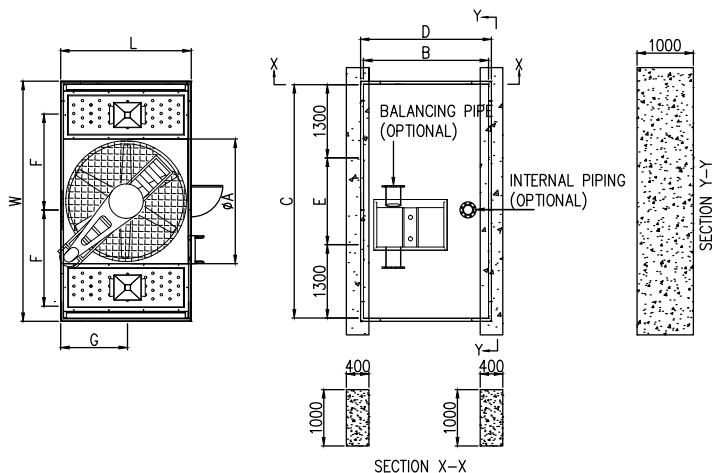
No	Description	Material / Specification
1	Motor	Weather Proof TEFC Type
2	V-Belt and Pulley System	FRP Pulley Cover
3	Fan Stack	FRP
4	Fan Assembly	Aluminium Alloy
5	Hot Water Basin	FRP
6	Main Frame Structure	HDGS Steel
7	High Performance Fill Pack	PVC
8	Inspection Door	FRP
9	Cold Water Basin Floor	FRP
10	Suction Sump	FRP
11	Cold Water Basin Frame	HDGS Steel
12	Casing	FRP
13	Ladder	HDGS Steel
14	Internal Piping	Optional
15	Gear Reducer System	Optional

Model Definition Example



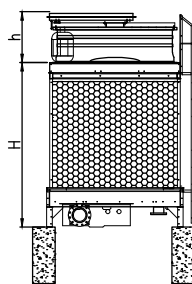
OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 0707UX EXS 0709UX
- EXS 0707UY EXS 0709UY
- EXS 0707UZ EXS 0709UZ
- EXS 0707UA EXS 0709UA
- EXS 0707UB EXS 0709UB
- EXS 0707UC EXS 0709UC
- EXS 0707UD EXS 0709UD
- EXS 0707UE EXS 0709UE

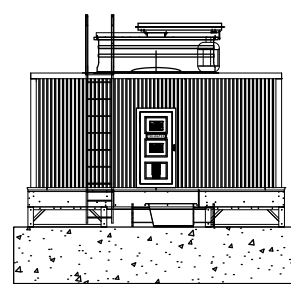


PLAN VIEW

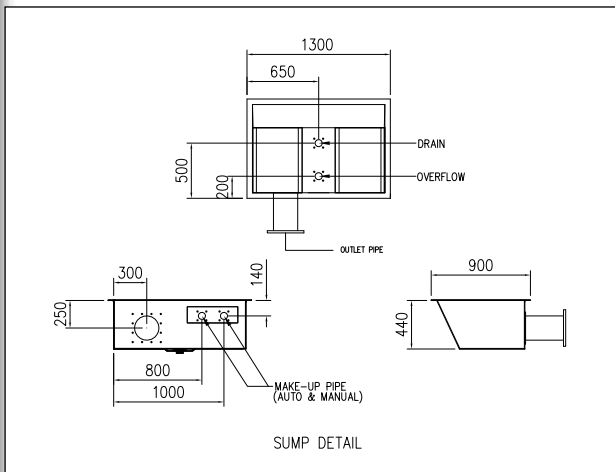
RC FOUNDATION DETAIL



SIDE VIEW



FRONT VIEW



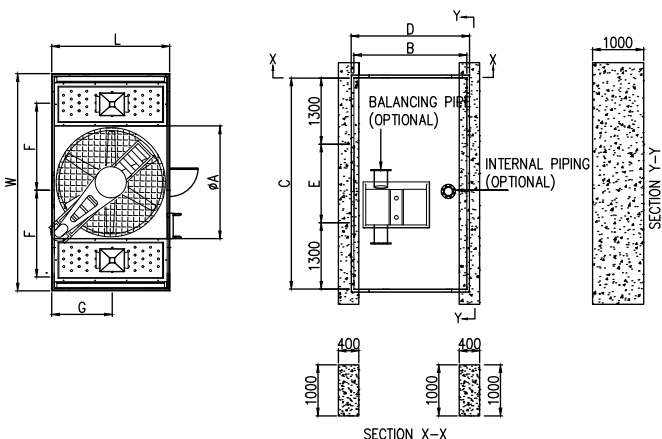
SUMP DETAIL

NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

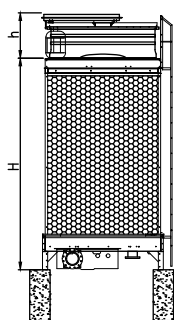
Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN							
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System				
0707UX	2315	4260	3040	785	1.5	3.3	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	2000	425	Four (4) to Six (6)	V-Belt and Pulley				
0707UY					2.2	4.7				425						
0707UZ					3	6.1				425						
0707UA					4	8.1				425						
0707UB					5.5	11				425						
0707UC					7.5	13.6				425						
0707UD					11	20.1				425						
0707UE					15	26.7				425						
0709UX	2315	4260	3430	785	1.5	3.3			TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz			2000	425	Four (4) to Six (6)	V-Belt and Pulley
0709UY					2.2	4.7								425		
0709UZ					3	6.1								425		
0709UA					4	8.1								425		
0709UB					5.5	11								425		
0709UC					7.5	13.6								425		
0709UD					11	20.1								425		
0709UE					15	26.7								425		
0711UX	2315	4260	4040	785	1.5	3.3	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz			2000	425	Four (4) to Six (6)	V-Belt and Pulley		
0711UY					2.2	4.7						425				
0711UZ					3	6.1						425				
0711UA					4	8.1						425				
0711UB					5.5	11						425				
0711UC					7.5	13.6						425				
0711UD					11	20.1						425				
0711UE					15	26.7						425				

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

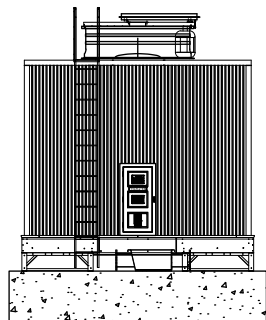


PLAN VIEW

RC FOUNDATION DETAIL

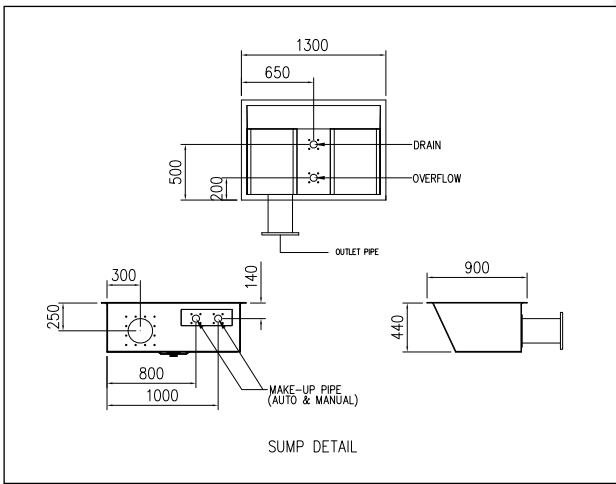


FRONT VIEW



SIDE VIEW

EXS 0711UX
 EXS 0711UY
 EXS 0711UZ
 EXS 0711UA
 EXS 0711UB
 EXS 0711UC
 EXS 0711UD
 EXS 0711UE



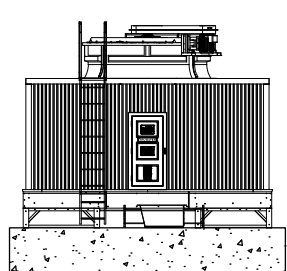
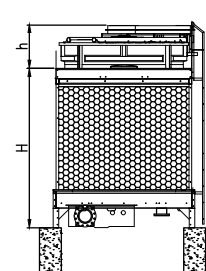
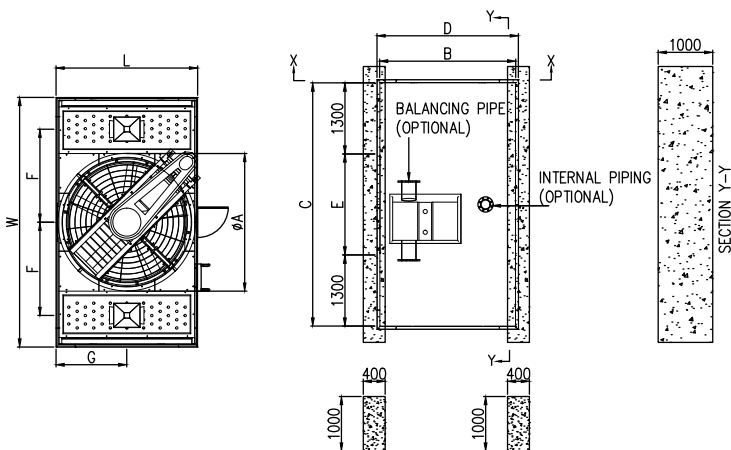
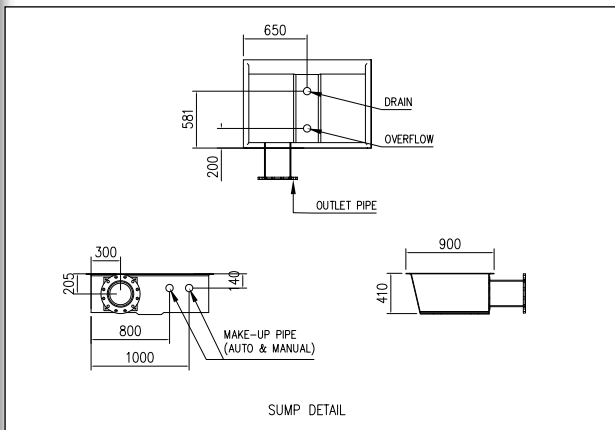
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE							WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight	
0707UX	2215	4140	2415	1540	1520	1158	Applicable to multiple cells only	125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1400	4340	
0707UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1440	4380	
0707UZ								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1450	4390	
0707UA								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1460	4400	
0707UB								125 x 1	125 x 2	150 x 1	50 x 1	50 x 1	25 x 1	1470	4410	
0707UC								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	1490	4430	
0707UD								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	1510	4450	
0707UE	150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1		1540	4480							
0709UX	2215	4140	2415	1540	1520	1158		125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1840	5620	
0709UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1850	5630	
0709UZ								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1860	5640	
0709UA								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1870	5650	
0709UB								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	1890	5670	
0709UC								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	1910	5690	
0709UD								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	1930	5710	
0709UE	150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1		1980	5760							
0711UX	2215	4140	2415	1540	1520	1158		125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2250	6870	
0711UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2260	6880	
0711UZ								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2270	6890	
0711UA								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	2280	6900	
0711UB								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	2300	6920	
0711UC							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	2330	6950		
0711UD							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	2350	6970		
0711UE	150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	25 x 1	2410	7030								

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

EXS 0807UX EXS 0809UX
 EXS 0807UY EXS 0809UY
 EXS 0807UZ EXS 0809UZ
 EXS 0807UA EXS 0809UA
 EXS 0807UB EXS 0809UB
 EXS 0807UC EXS 0809UC
 EXS 0807UD EXS 0809UD
 EXS 0807UE EXS 0809UE
 EXS 0807UF EXS 0809UF

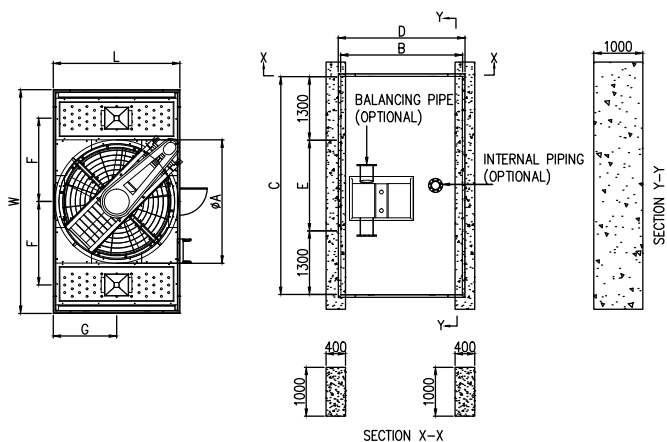


NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

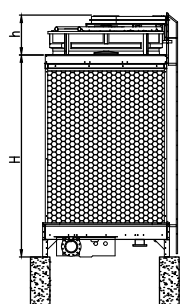
Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
0807UX	2590	4570	3040	990	1.5	3.3	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	2135	400	Four (4) to Six (6)	V-Belt and Pulley
0807UY					2.2	4.7				400		
0807UZ					3	6.1				400		
0807UA					4	8.1				400		
0807UB					5.5	11				400		
0807UC					7.5	13.6				400		
0807UD					11	20.1				400		
0807UE					11	20.1				400		
0807UF	15	26.7	400									
0809UX	2590	4570	3430	990	1.5	3.3			400			
0809UY					2.2	4.7			400			
0809UZ					3	6.1			400			
0809UA					4	8.1			400			
0809UB					5.5	11			400			
0809UC					7.5	13.6			400			
0809UD					11	20.1			400			
0809UE					15	26.7			400			
0809UF	18.5	33.2	400									
0811UX	2590	4570	4040	990	1.5	3.3			400			
0811UY					2.2	4.7			400			
0811UZ					3	6.1			400			
0811UA					4	8.1			400			
0811UB					5.5	11			400			
0811UC					7.5	13.6			400			
0811UD					11	20.1	400					
0811UE					15	26.7	400					
0811UF	18.5	33.2	400									

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

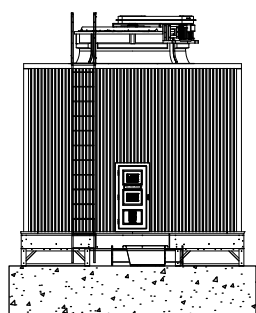


PLAN VIEW

RC FOUNDATION DETAIL

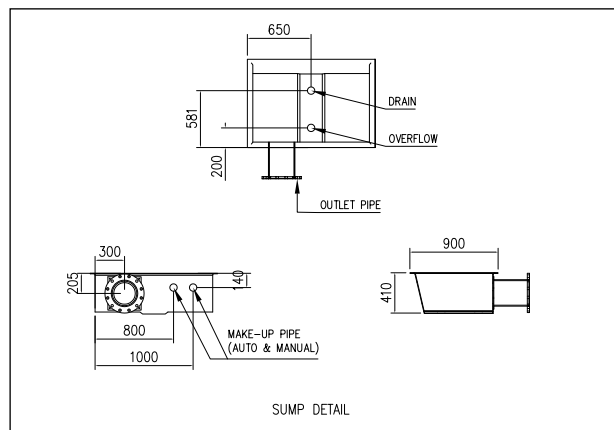


FRONT VIEW



SIDE VIEW

EXS 0811UX
EXS 0811UY
EXS 0811UZ
EXS 0811UA
EXS 0811UB
EXS 0811UC
EXS 0811UD
EXS 0811UE
EXS 0811UF



SUMP DETAIL

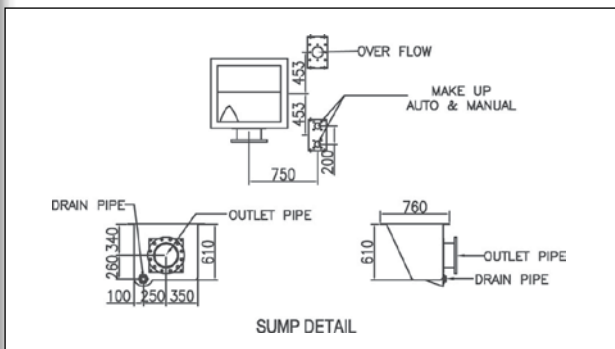
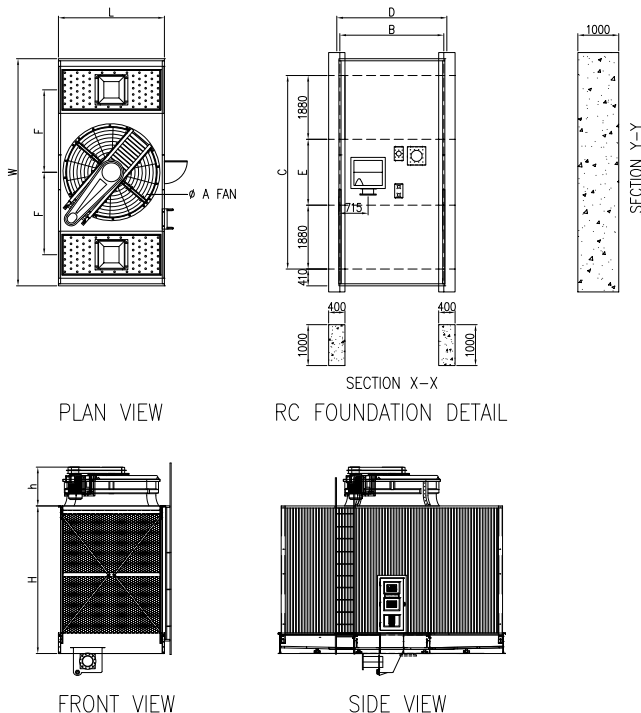
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
0807UX	2490	4450	2690	1850	1675	1295	Applicable to multiple cells only	125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1630	5320
0807UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1640	5330
0807UZ								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1650	5340
0807UA								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	1660	5350
0807UB								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1670	5360
0807UC								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1690	5380
0807UD								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1710	5400
0807UE								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1750	5440
0807UF								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	1790	5480
0809UX	2490	4450	2690	1850	1675	1295		125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2100	6850
0809UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2110	6860
0809UZ								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2120	6870
0809UA								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2130	6880
0809UB								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2150	6900
0809UC								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2170	6920
0809UD								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2190	6940
0809UE								150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2250	7000
0809UF								150 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2300	7050
0811UX	2490	4450	2690	1850	1675	1295		125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2570	7840
0811UY								125 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2580	7850
0811UZ							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2590	7860	
0811UA							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2600	7870	
0811UB							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2620	7890	
0811UC							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2660	7930	
0811UD							150 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2680	7950	
0811UE							150 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2750	8020	
0811UF							150 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2810	8080	

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 0810VX EXS 0812VX
- EXS 0810VY EXS 0812VY
- EXS 0810VZ EXS 0812VZ
- EXS 0810VA EXS 0812VA
- EXS 0810VB EXS 0812VB
- EXS 0810VC EXS 0812VC
- EXS 0810VD EXS 0812VD
- EXS 0810VE EXS 0812VE
- EXS 0810VF EXS 0812VF

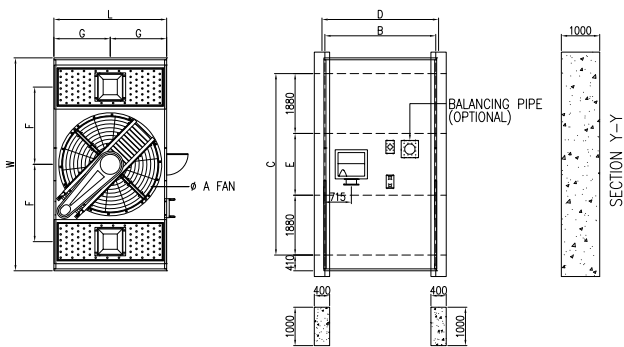


NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

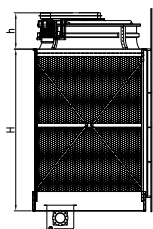
Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN							
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System				
0810VX	2590	5550	3610	990	1.5	3.3	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz	2135	425	Four (4) to Six (6)	V-Belt and Pulley				
0810VY					2.2	4.7				425						
0810VZ					3	6.1				425						
0810VA					4.0	8.1				425						
0810VB					5.5	11				425						
0810VC					7.5	13.6				425						
0810VD					11.0	20.1				425						
0810VE					15.0	26.7				425						
0810VF	18.5	33.2	425													
0812VX	2590	5550	4220	990	1.5	3.3			425							
0812VY					2.2	4.7			425							
0812VZ					3	6.1			425							
0812VA					4.0	8.1			425							
0812VB					5.5	11			425							
0812VC					7.5	13.6			425							
0812VD					11.0	20.1			425							
0812VE					15.0	26.7			425							
0812VF	18.5	33.2	425													
0910VY	2940	5550	3610	975	2.2	4.7			TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			2440	400	Four (4) to Six (6)	V-Belt and Pulley
0910VZ					3	6.1								400		
0910VA					4.0	8.1								400		
0910VB					5.5	11								400		
0910VC					7.5	13.6								400		
0910VD					11.0	20.1								400		
0910VE					15.0	26.7	400									
0910VF					18.5	33.2	400									
0912VY	2940	5550	4220	975	2.2	4.7	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			2440	400	Four (4) to Six (6)	V-Belt and Pulley		
0912VZ					3	6.1						400				
0912VA					4.0	8.1						400				
0912VB					5.5	11						400				
0912VC					7.5	13.6						400				
0912VD					11.0	20.1						400				
0912VE					15.0	26.7						400				
0912VF					18.5	33.2						400				

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

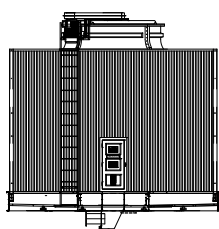


PLAN VIEW

RC FOUNDATION DETAIL

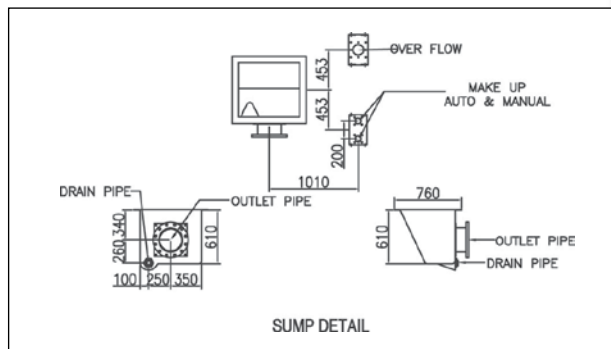


FRONT VIEW



SIDE VIEW

- EXS 0910VY
- EXS 0910VZ
- EXS 0910VA
- EXS 0910VB
- EXS 0910VC
- EXS 0910VD
- EXS 0910VE
- EXS 0910VF
- EXS 0912VY
- EXS 0912VZ
- EXS 0912VA
- EXS 0912VB
- EXS 0912VC
- EXS 0912VD
- EXS 0912VE
- EXS 0912VF



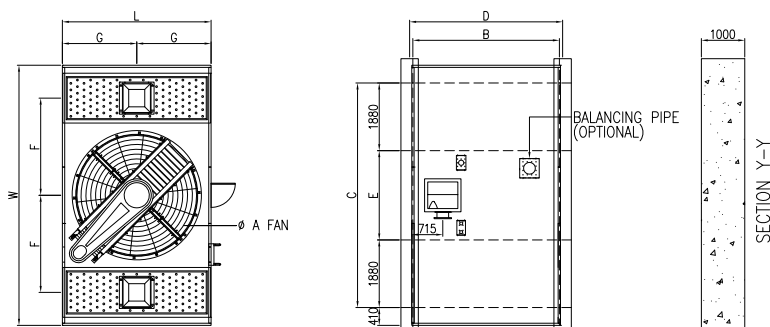
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)							
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight						
0810VX	2540	4730	2690	970	2010	1295	Applicable to multiple cells only	200 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2330	7600						
0810VY								200 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2340	7610						
0810VZ								200 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2350	7620						
0810VA								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2360	7630						
0810VB								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2380	7650						
0810VC								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2410	7680						
0810VD								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2430	7700						
0810VE								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2500	7770						
0810VF								200 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2550	7820						
0812VX								2540	4730	2690	970	2010	1295	200 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1	2530	7860
0812VY	200 x 1	100 x 2	125 x 1	50 x 1	50 x 1	25 x 1								2540	7870						
0812VZ	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2550	7880						
0812VA	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2560	7890						
0812VB	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2580	7910						
0812VC	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2590	7930						
0812VD	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2600	7970						
0812VE	200 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2650	7980						
0812VF	200 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2680	8010						
0910VY	2890	4730	3040	970	2010	1470								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2430	7750
0910VZ								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2440	7760						
0910VA								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2450	7770						
0910VB								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2470	7790						
0910VC								200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2500	7820						
0910VD								200 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2540	7860						
0910VE								200 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2570	7890						
0910VF								200 x 1	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2620	7940						
0912VY								2890	4730	3040	970	2010	1470	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2600	8040
0912VZ														200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2610	8050
0912VA	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2630	8070						
0912VB	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1								2650	8090						
0912VC	200 x 1	125 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2660							8100							
0912VD	250 x 1	150 x 2	200 x 1	50 x 1	50 x 1	50 x 1	2710							8150							
0912VE	250 x 1	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2760							8200							
0912VF	250 x 1	150 x 2	250 x 1	50 x 1	50 x 1	50 x 1	2810							8250							

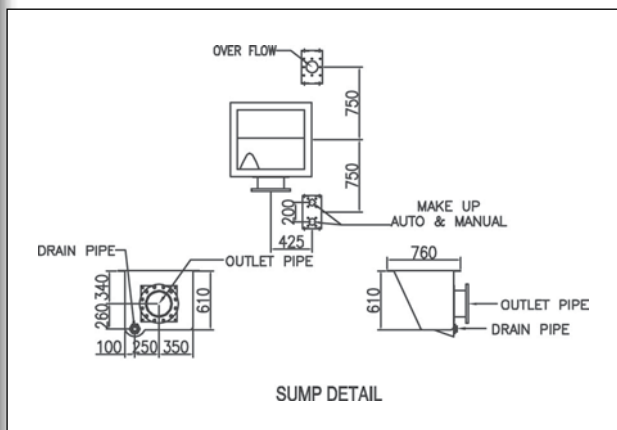
OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 1110VA EXS 1112VB
- EXS 1110VB EXS 1112VC
- EXS 1110VC EXS 1112VD
- EXS 1110VD EXS 1112VE
- EXS 1110VE EXS 1112VF
- EXS 1110VF EXS 1112VG
- EXS 1110VG EXS 1112VH
- EXS 1110VH EXS 1112VI

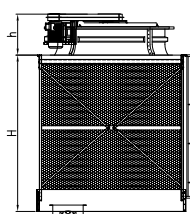


PLAN VIEW

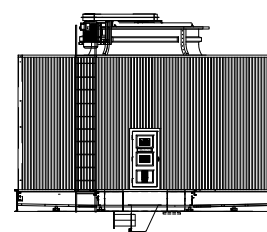
SECTION X-X
RC FOUNDATION DETAIL



SUMP DETAIL



FRONT VIEW



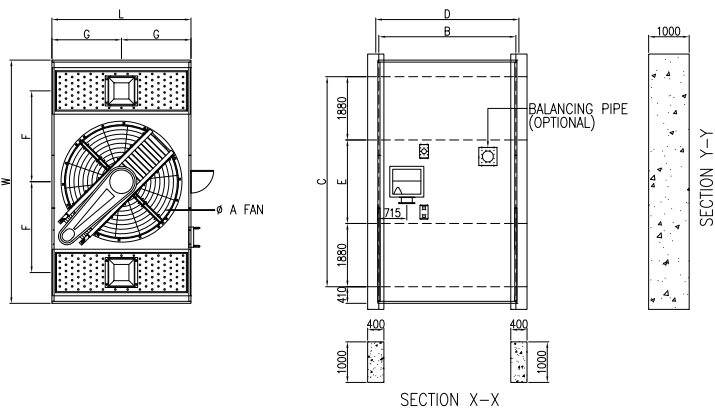
SIDE VIEW

NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

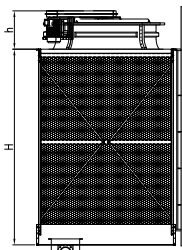
Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
1110VA	3430	6000	3610	1035	4.0	8.1	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	2745	380	Four (4) to Six (6)	V-Belt and Pulley
1110VB					5.5	11				380		
1110VC					7.5	13.6				380		
1110VD					11.0	20.1				380		
1110VE					15.0	26.7				380		
1110VF					18.5	33.2				410		
1110VG					22.0	39.3				410		
1110VH					30.0	51.9				410		
1112VB	3430	6000	4220	1060	5.5	11			2745	380		
1112VC					7.5	13.6				380		
1112VD					11.0	20.1				380		
1112VE					15.0	26.7				380		
1112VF					18.5	33.2				410		
1112VG					22.0	39.3				410		
1112VH					30.0	51.9				410		
1112VI					37.0	66				450		
1114VB	3430	6000	4830	1060	5.5	11	2745	380				
1114VC					7.5	13.6		380				
1114VD					11.0	20.1		380				
1114VE					15.0	26.7		380				
1114VF					18.5	33.2		410				
1114VG					22.0	39.3		410				
1114VH					30.0	51.9		410				
1114VI					37.0	66		450				

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

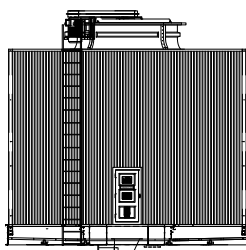


PLAN VIEW

RC FOUNDATION DETAIL

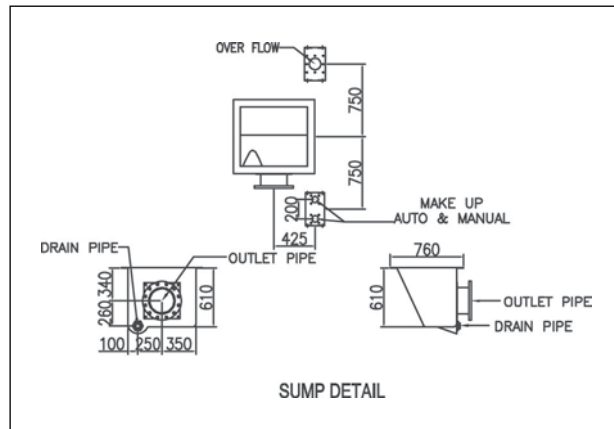


FRONT VIEW



SIDE VIEW

- EXS 1114VB
- EXS 1114VC
- EXS 1114VD
- EXS 1114VE
- EXS 1114VF
- EXS 1114VG
- EXS 1114VH
- EXS 1114VI



SUMP DETAIL

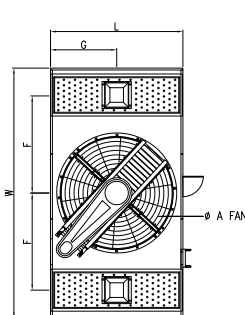
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

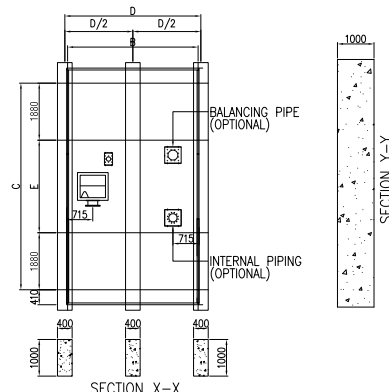
Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1110VA	3380	5180	3530	1420	2235	1715	Applicable to multiple cells only	200 x 1	150 x 2	200 x 1	80 x 1	50 x 1	50 x 1	3212	10860
1110VB								200 x 1	150 x 2	200 x 1	80 x 1	50 x 1	50 x 1	3240	10880
1110VC								200 x 1	150 x 2	200 x 1	80 x 1	50 x 1	50 x 1	3250	10890
1110VD								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3300	10940
1110VE								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3370	11010
1110VF								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3380	11060
1110VG								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3440	11080
1110VH								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3510	11150
1112VB								3380	5180	3530	1420	2235	1715	200 x 1	150 x 2
1112VC	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1								3540	11730
1112VD	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1								3590	11780
1112VE	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1								3610	11800
1112VF	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1								3660	11850
1112VG	250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1								3710	11900
1112VH	250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1								3760	11950
1112VI	250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1								3810	12000
1114VB	3380	5180	3530	1420	2235	1715								250 x 1	150 x 2
1114VC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3960	12350
1114VD								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	4010	12400
1114VE								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	4030	12420
1114VF							250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	4090	12480	
1114VG							250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4130	12520	
1114VH							250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4150	12540	
1114VI							250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4210	12600	

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

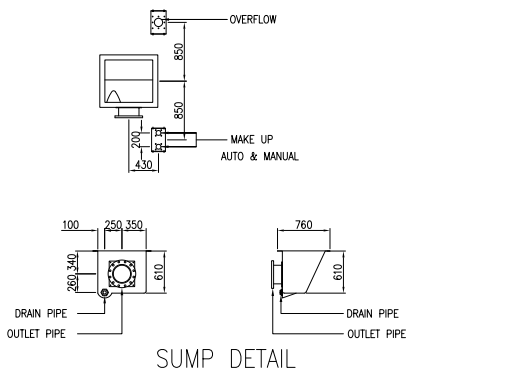
- EXS 1209WA
- EXS 1209WB
- EXS 1209WC
- EXS 1209WD
- EXS 1209WE
- EXS 1209WF
- EXS 1209WG
- EXS 1209WH
- EXS 1209WI
- EXS 1209WJ
- EXS 1212WA
- EXS 1212WB
- EXS 1212WC
- EXS 1212WD
- EXS 1212WE
- EXS 1212WF
- EXS 1212WG
- EXS 1212WH
- EXS 1212WI
- EXS 1212WJ
- EXS 1212WK



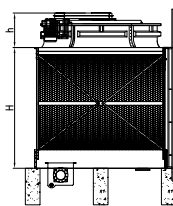
PLAN VIEW



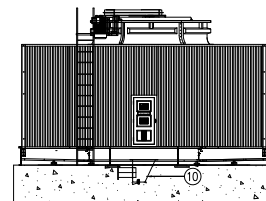
RC FOUNDATION DETAIL



SUMP DETAIL



FRONT VIEW



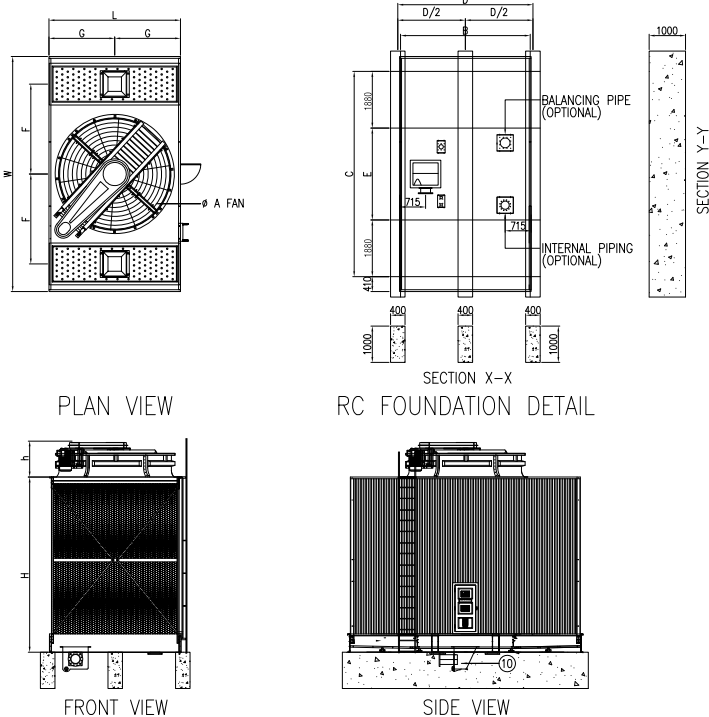
SIDE VIEW

NOTE : ALL DIMENSION IN MM.

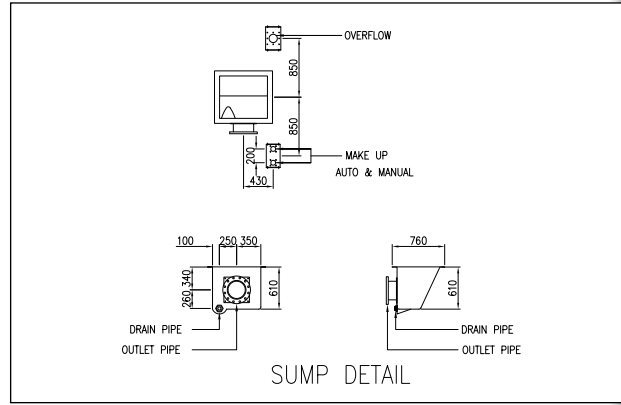
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
1209WA	3620	6470	3230	1060	4.0	8.1	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz	3050	360	Four (4) to Six (6)	V-Belt and Pulley
1209WB					5.5	11				360		
1209WC					7.5	13.6				360		
1209WD					11.0	20.1				360		
1209WE					15.0	26.7				360		
1209WF					18.5	33.2				360		
1209WG					22.0	39.3				360		
1209WH					30.0	51.9				360		
1209WI					37.0	66				360		
1209WJ					45.0	78.7				360		
1212WA	3620	6470	4220	1060	4.0	8.1			360			
1212WB					5.5	11			360			
1212WC					7.5	13.6			360			
1212WD					11.0	20.1			360			
1212WE					15.0	26.7			360			
1212WF					18.5	33.2			360			
1212WG					22.0	39.3			360			
1212WH					30.0	51.9			360			
1212WI					37.0	66			360			
1212WJ					45.0	78.7			360			
1212WK	55.0	93.5	360									
1214WA	3620	6470	4830	1060	4.0	8.1	360					
1214WB					5.5	11	360					
1214WC					7.5	13.6	360					
1214WD					11.0	20.1	360					
1214WE					15.0	26.7	360					
1214WF					18.5	33.2	360					
1214WG					22.0	39.3	360					
1214WH					30.0	51.9	360					
1214WI					37.0	66	360					
1214WJ					45.0	78.7	360					
1214WK	55.0	93.5	360									

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1214WA
- EXS 1214WB
- EXS 1214WC
- EXS 1214WD
- EXS 1214WE
- EXS 1214WF
- EXS 1214WG
- EXS 1214WH
- EXS 1214WI
- EXS 1214WJ
- EXS 1214WK



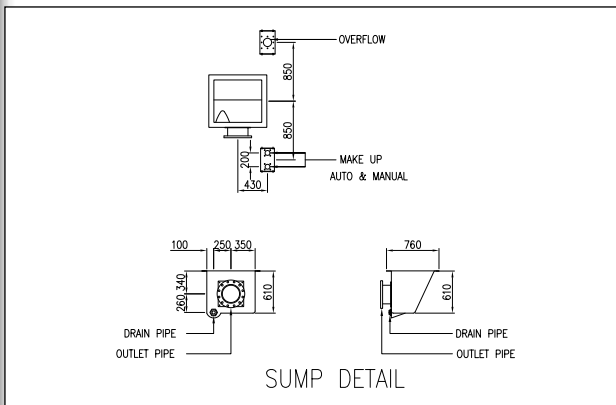
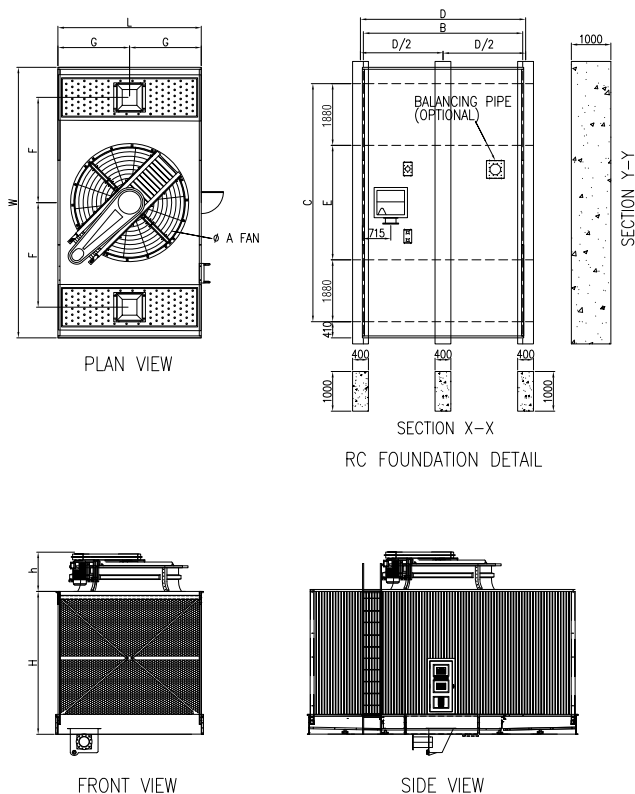
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1209WA	3570	5650	3720	1890	2325	1810	Applicable to multiple cells only	200 x 1	150 x 2	200 x 1	80 x 1	50 x 1	50 x 1	3250	11680
1209WB								200 x 1	150 x 2	200 x 1	80 x 1	50 x 1	50 x 1	3300	11730
1209WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3350	11780
1209WD								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3400	11830
1209WE								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3450	11880
1209WF								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3500	11930
1209WG								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3550	11980
1209WH								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3600	12030
1209WI								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3650	12080
1209WJ								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3700	12130
1212WA	3570	5650	3720	1890	2325	1810		250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3590	12370
1212WB								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3640	12420
1212WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3690	12470
1212WD								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3740	12520
1212WE								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3790	12570
1212WF								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3840	12620
1212WG								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3890	12670
1212WH								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3940	12720
1212WI								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3990	12770
1212WJ								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4040	12820
1212WK	300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1		4090	12870						
1214WA	3570	5650	3720	1890	2325	1810		250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3620	12460
1214WB								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3670	12410
1214WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3720	12460
1214WD								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3770	12510
1214WE								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3820	12560
1214WF								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3870	12610
1214WG								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3920	12660
1214WH								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3970	12710
1214WI								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4020	12760
1214WJ							300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4070	12810	
1214WK							300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4120	12860	

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 1216WA EXS 1218WA
- EXS 1216WB EXS 1218WB
- EXS 1216WC EXS 1218WC
- EXS 1216WD EXS 1218WD
- EXS 1216WE EXS 1218WE
- EXS 1216WF EXS 1218WF
- EXS 1216WG EXS 1218WG
- EXS 1216WH EXS 1218WH
- EXS 1216WI EXS 1218WI
- EXS 1216WJ EXS 1218WJ
- EXS 1216WK EXS 1218WK

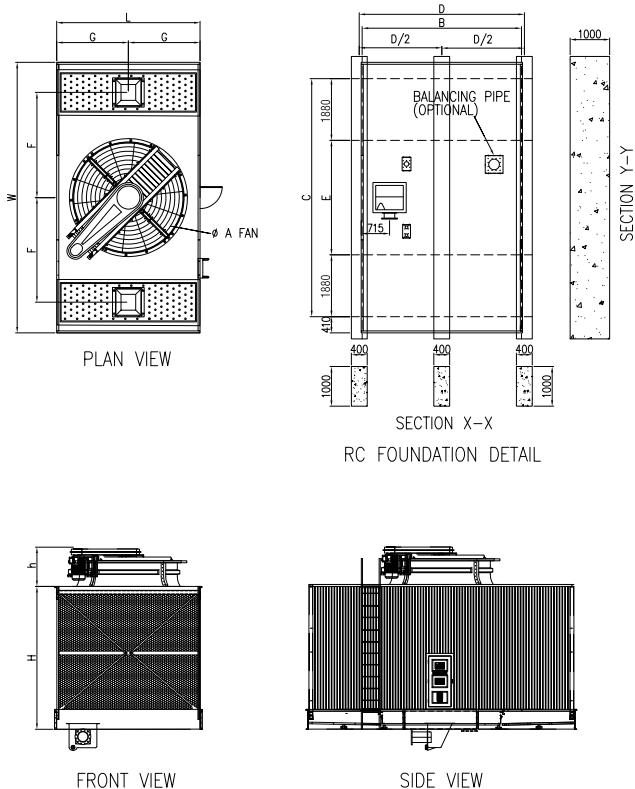


NOTE : ALL DIMENSION IN MM.

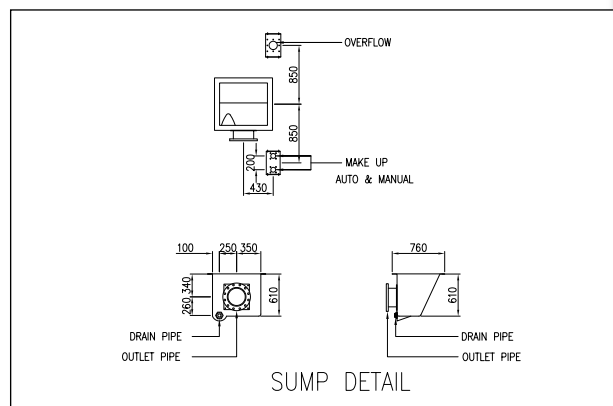
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN							
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System				
1216WA	3620	6470	5440	1060	4.0	8.1	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz	3050	360	Four (4) to Six (6)	V-Belt and Pulley				
1216WB					5.5	11				360						
1216WC					7.5	13.6				360						
1216WD					11.0	20.1				360						
1216WE					15.0	26.7				360						
1216WF					18.5	33.2				360						
1216WG					22.0	39.3				360						
1216WH					30.0	51.9				360						
1216WI					37.0	66				360						
1216WJ					45.0	78.7				360						
1216WK	55.0	93.5	360													
1218WA	3620	6470	5870	1060	4.0	8.1			TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			3050	360	Four (4) to Six (6)	V-Belt and Pulley
1218WB					5.5	11								360		
1218WC					7.5	13.6								360		
1218WD					11.0	20.1								360		
1218WE					15.0	26.7								360		
1218WF					18.5	33.2								360		
1218WG					22.0	39.3								360		
1218WH					30.0	51.9								360		
1218WI					37.0	66								360		
1218WJ					45.0	78.7	360									
1218WK	55.0	93.5	360													
1220WA	3620	6470	6660	1060	4.0	8.1	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			3050	360	Four (4) to Six (6)	V-Belt and Pulley		
1220WB					5.5	11						360				
1220WC					7.5	13.6						360				
1220WD					11.0	20.1						360				
1220WE					15.0	26.7						360				
1220WF					18.5	33.2						360				
1220WG					22.0	39.3						360				
1220WH					30.0	51.9						360				
1220WI					37.0	66						360				
1220WJ					45.0	78.7			360							
1220WK	55.0	93.5	360													

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1220WA
- EXS 1220WB
- EXS 1220WC
- EXS 1220WD
- EXS 1220WE
- EXS 1220WF
- EXS 1220WG
- EXS 1220WH
- EXS 1220WI
- EXS 1220WJ
- EXS 1220WK



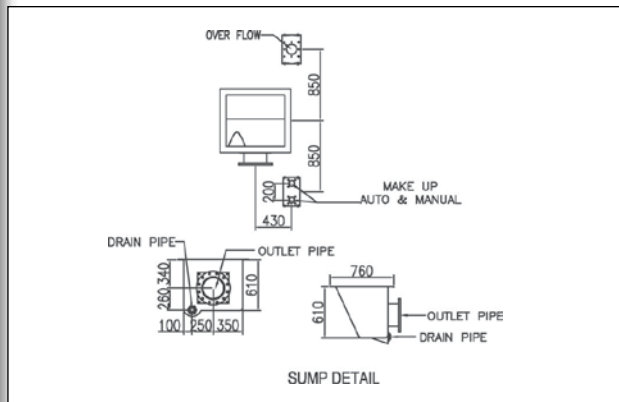
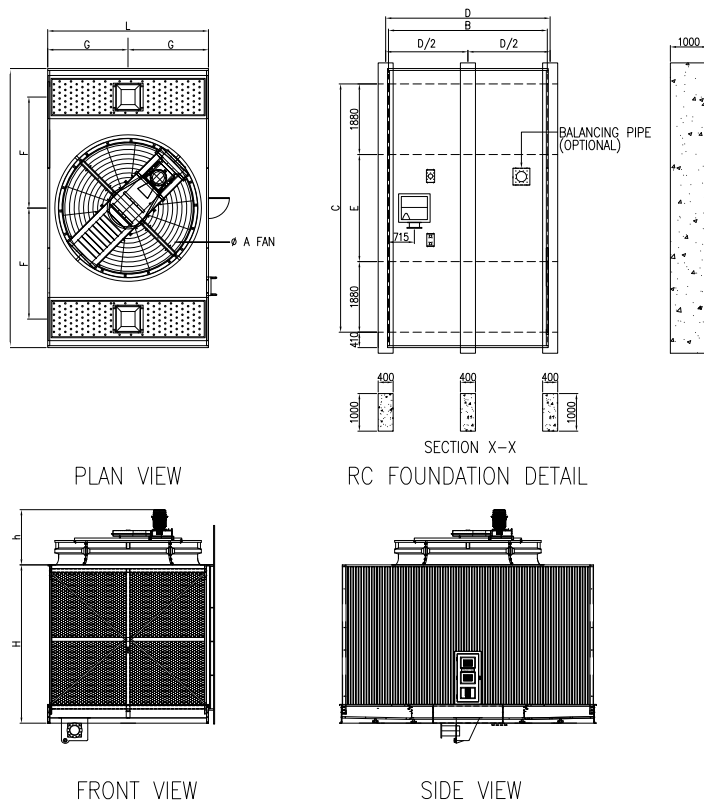
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1216WA	3570	5650	3720	1890	2325	1810	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3660	12530
1216WB								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3680	12550
1216WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3730	12600
1216WD								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3780	12650
1216WE								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3830	12700
1216WF								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3880	12750
1216WG								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3930	12800
1216WH								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3980	12850
1216WI								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4030	12900
1216WJ								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4080	12950
1216WJ	300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4130	13000							
1218WA	3570	5650	3720	1890	2325	1810	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3710	12580
1218WB								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3760	12600
1218WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3810	12650
1218WD								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3860	12700
1218WE								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3910	12750
1218WF								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3960	12800
1218WG								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4010	12850
1218WH								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4060	12900
1218WI								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4110	12950
1218WJ								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4160	13000
1218WK	300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4210	13050							
1220WA	3570	5650	3720	1890	2325	1810	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3760	12630
1220WB								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3810	12650
1220WC								250 x 1	150 x 2	250 x 1	80 x 1	50 x 1	50 x 1	3860	12700
1220WD								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3910	12750
1220WE								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	3960	12800
1220WF								250 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4010	12850
1220WG								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4060	12900
1220WH								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4110	12950
1220WI								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4160	13000
1220WJ								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4210	13050
1220WJ								300 x 1	200 x 2	300 x 1	80 x 1	50 x 1	50 x 1	4260	13100
1220WK								300 x 1	200 x 4	350 x 1	80 x 1	50 x 1	50 x 1	4260	13100

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- | | |
|------------|------------|
| EXS 1309WB | EXS 1312WB |
| EXS 1309WC | EXS 1312WC |
| EXS 1309WD | EXS 1312WD |
| EXS 1309WE | EXS 1312WE |
| EXS 1309WF | EXS 1312WF |
| EXS 1309WG | EXS 1312WG |
| EXS 1309WH | EXS 1312WH |
| EXS 1309WI | EXS 1312WI |
| EXS 1309WJ | EXS 1312WJ |
| | EXS 1312WK |

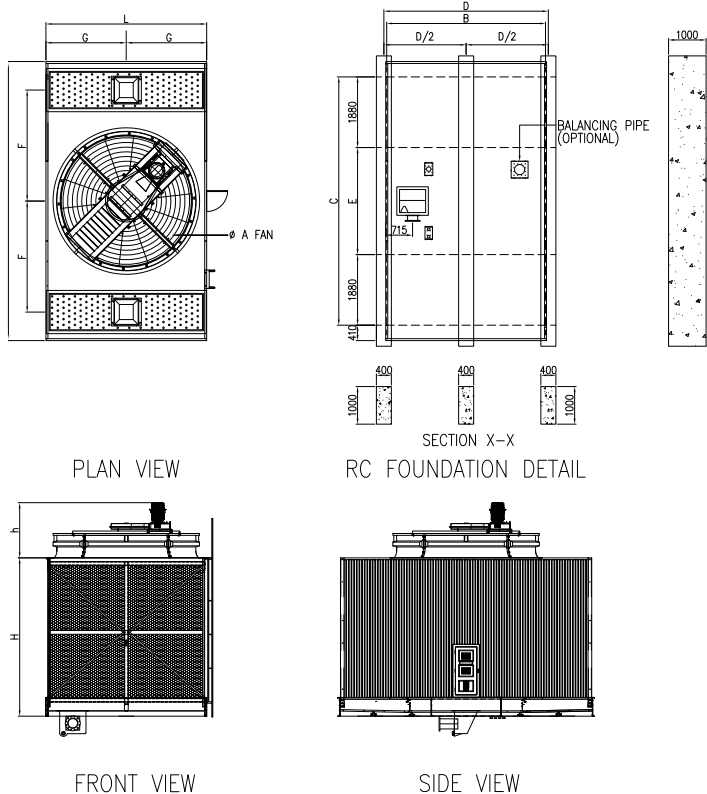


NOTE : ALL DIMENSION IN MM.

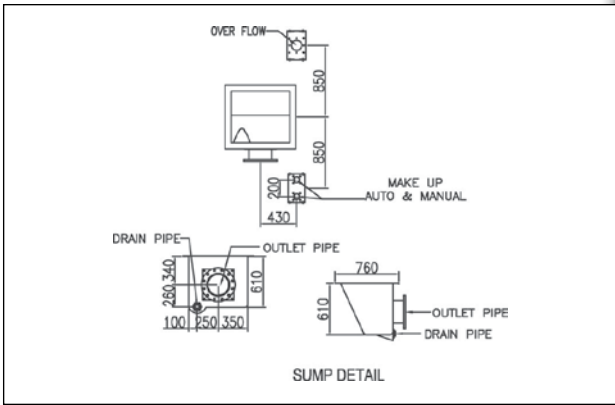
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN							
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System				
1309WB	4070	6930	3230	1685	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	3355	325	Four (4) to Six (6)	V-Belt and Pulley				
1309WC					7.5	13.6				325						
1309WD					11.0	20.1				325						
1309WE					15.0	26.7				325						
1309WF					18.5	33.2				325						
1309WG					22.0	39.3				325						
1309WH					30.0	51.9				325						
1309WI					37.0	66				325						
1309WJ					45.0	78.7				325						
1312WB	4070	6930	4220	1750	5.5	11			TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz			3355	325	Four (4) to Six (6)	V-Belt and Pulley
1312WC					7.5	13.6								325		
1312WD					11.0	20.1								325		
1312WE					15.0	26.7								325		
1312WF					18.5	33.2								325		
1312WG					22.0	39.3								325		
1312WH					30.0	51.9								325		
1312WI					37.0	66								325		
1312WJ					45.0	78.7								325		
1312WK	55.0	93.5	325													
1314WB	4070	6930	4830	1750	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz			3355	325	Four (4) to Six (6)	V-Belt and Pulley		
1314WC					7.5	13.6						325				
1314WD					11.0	20.1						325				
1314WE					15.0	26.7						325				
1314WF					18.5	33.2						325				
1314WG					22.0	39.3						325				
1314WH					30.0	51.9						325				
1314WI					37.0	66						325				
1314WJ					45.0	78.7			325							
1314WK	55.0	93.5	325													

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1314WB
- EXS 1314WC
- EXS 1314WD
- EXS 1314WE
- EXS 1314WF
- EXS 1314WG
- EXS 1314WH
- EXS 1314WI
- EXS 1314WJ
- EXS 1314WK



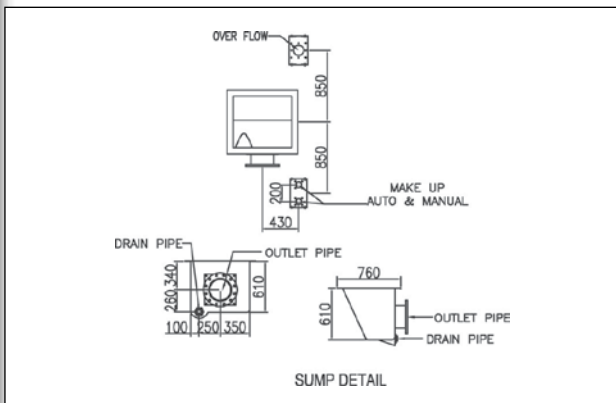
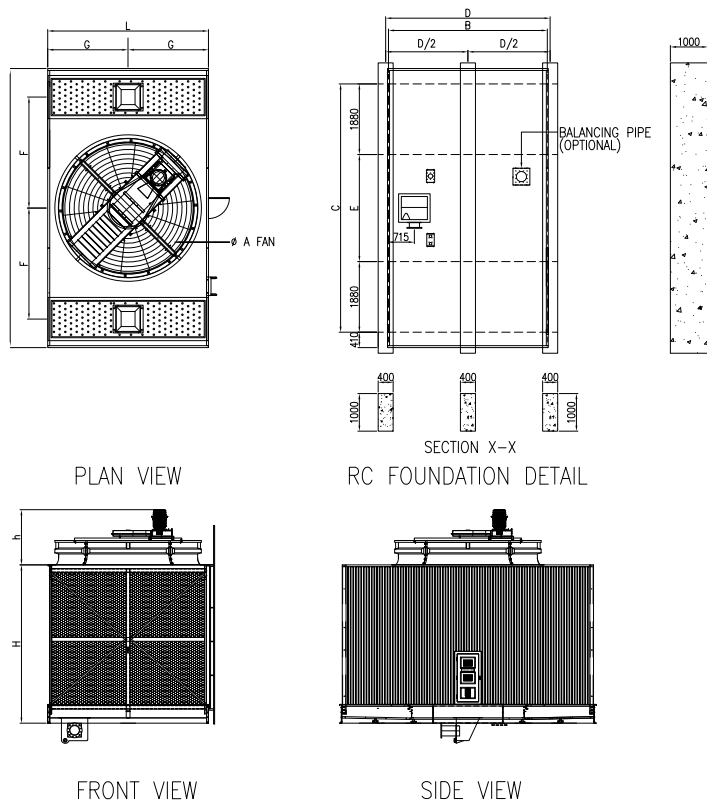
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1309WB	4020	6110	4170	2350	2555	2035	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4280	12350
1309WC								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4330	12400
1309WD								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4380	12450
1309WE								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4430	12500
1309WF								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4480	12550
1309WG								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4530	12600
1309WH								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4580	12650
1309WI								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4630	12700
1309WJ								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4680	12750
1312WB	4020	6110	4170	2350	2555	2035		250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4620	12690
1312WC								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4670	12740
1312WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4720	12790
1312WE								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4770	12840
1312WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4820	12890
1312WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4870	12940
1312WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4920	12990
1312WI								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4970	13040
1312WJ								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5020	13090
1312WK	300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1		5070	13140						
1314WB	4020	6110	4170	2350	2555	2035		250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4850	12920
1314WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4900	12970
1314WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4950	13020
1314WE								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5000	13070
1314WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5050	13120
1314WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5100	13170
1314WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5150	13220
1314WI								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5200	13270
1314WJ							350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5250	13320	
1314WK							350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5300	13370	

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 1316WB
- EXS 1316WC
- EXS 1316WD
- EXS 1316WE
- EXS 1316WF
- EXS 1316WG
- EXS 1316WH
- EXS 1316WI
- EXS 1316WJ
- EXS 1316WK
- EXS 1318WB
- EXS 1318WC
- EXS 1318WD
- EXS 1318WE
- EXS 1318WF
- EXS 1318WG
- EXS 1318WH
- EXS 1318WI
- EXS 1318WJ
- EXS 1318WK

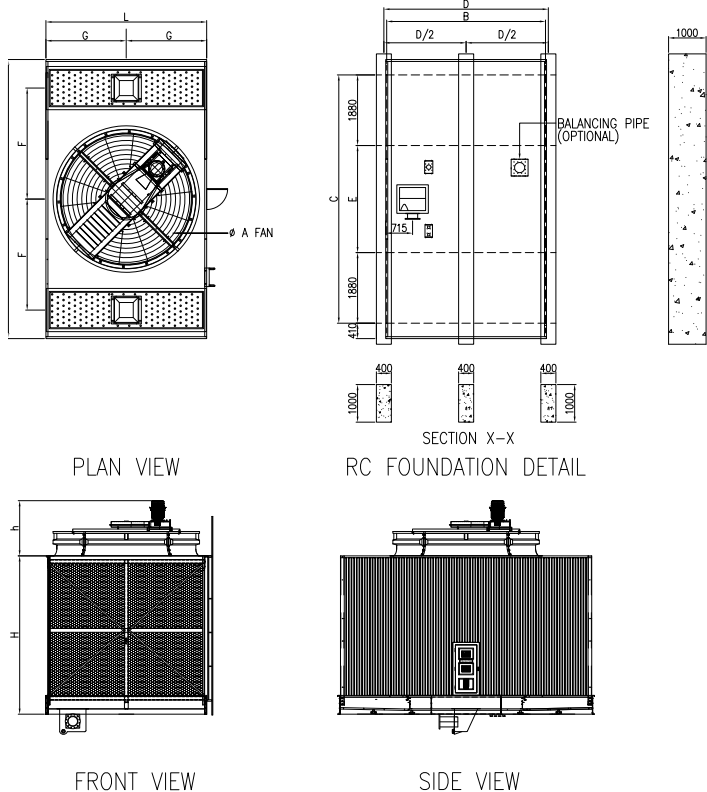


NOTE : ALL DIMENSION IN MM.

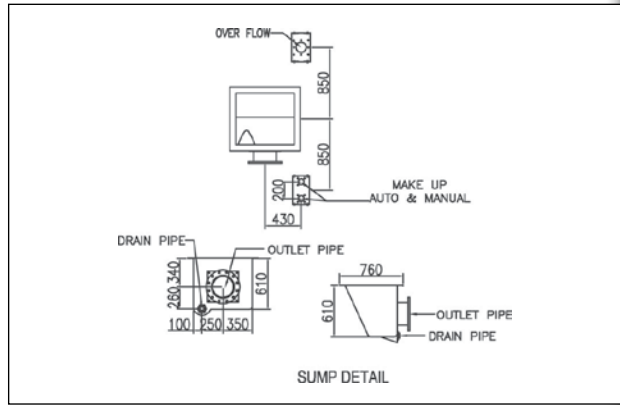
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
1316WB	4070	6930	5440	1750	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	3355	325	Four (4) to Six (6)	V-Belt and Pulley
1316WC					7.5	13.6				325		
1316WD					11.0	20.1				325		
1316WE					15.0	26.7				325		
1316WF					18.5	33.2				325		
1316WG					22.0	39.3				325		
1316WH					30.0	51.9				325		
1316WI					37.0	66				325		
1316WJ					45.0	78.7				325		
1316WK					55.0	93.5				325		
1318WB	4070	6930	5870	1750	5.5	11			325			
1318WC					7.5	13.6			325			
1318WD					11.0	20.1			325			
1318WE					15.0	26.7			325			
1318WF					18.5	33.2			325			
1318WG					22.0	39.3			325			
1318WH					30.0	51.9			325			
1318WI					37.0	66			325			
1318WJ					45.0	78.7			325			
1318WK					55.0	93.5			325			
1320WB	4070	6930	6660	1750	5.5	11			325			
1320WC					7.5	13.6			325			
1320WD					11.0	20.1			325			
1320WE					15.0	26.7			325			
1320WF					18.5	33.2			325			
1320WG					22.0	39.3			325			
1320WH					30.0	51.9			325			
1320WI					37.0	66			325			
1320WJ					45.0	78.7			325			
1320WK					55.0	93.5			325			

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1320WB
- EXS 1320WC
- EXS 1320WD
- EXS 1320WE
- EXS 1320WF
- EXS 1320WG
- EXS 1320WH
- EXS 1320WI
- EXS 1320WJ
- EXS 1320WK



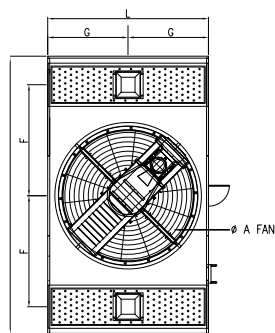
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

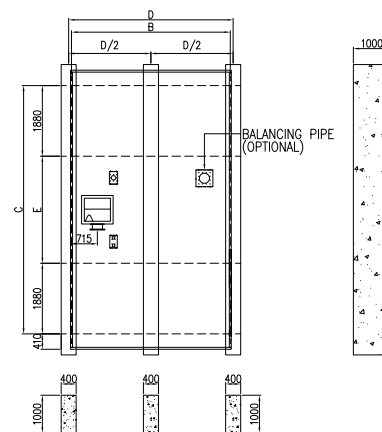
Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1316WB	4020	6110	4170	2350	2555	2035	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	5080	13150
1316WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5130	13200
1316WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5180	13250
1316WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5230	13300
1316WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5280	13350
1316WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5330	13400
1316WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5380	13450
1316WI								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5430	13500
1316WJ								300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5480	13550
1316WK								300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5530	13600
1318WB	4020	6110	4170	2350	2555	2035		250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	5310	13380
1318WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5360	13430
1318WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5410	13480
1318WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5460	13530
1318WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5510	13580
1318WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5560	13630
1318WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5610	13680
1318WI								300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5660	13730
1318WJ								300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5710	13780
1318WK								300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5760	13830
1320WB	4020	6110	4170	2350	2555	2035	250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5540	13610	
1320WC							250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5590	13660	
1320WD							300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5640	13710	
1320WE							300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5690	13760	
1320WF							300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5740	13810	
1320WG							300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5790	13860	
1320WH							300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5840	13910	
1320WI							300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5890	13960	
1320WJ							300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5940	14010	
1320WK							300 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5990	14060	

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

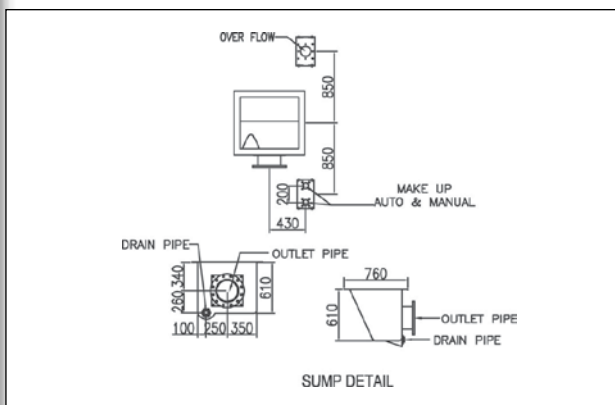
- EXS 1409WC
- EXS 1409WD
- EXS 1409WE
- EXS 1409WF
- EXS 1409WG
- EXS 1409WH
- EXS 1409WI
- EXS 1409WJ
- EXS 1409WK
- EXS 1412WB
- EXS 1412WC
- EXS 1412WD
- EXS 1412WE
- EXS 1412WF
- EXS 1412WG
- EXS 1412WH
- EXS 1412WI
- EXS 1412WJ
- EXS 1412WK



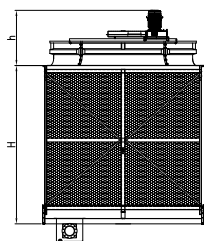
PLAN VIEW



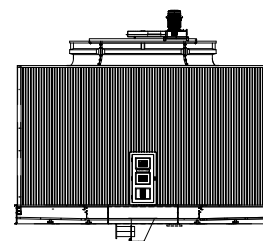
SECTION X-X
RC FOUNDATION DETAIL



SUMP DETAIL



FRONT VIEW



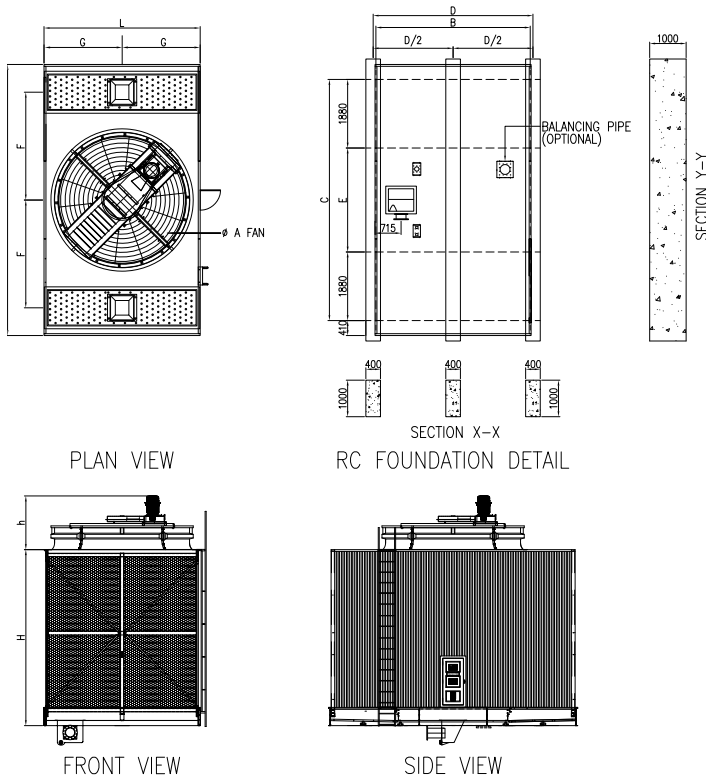
SIDE VIEW

NOTE : ALL DIMENSION IN MM.

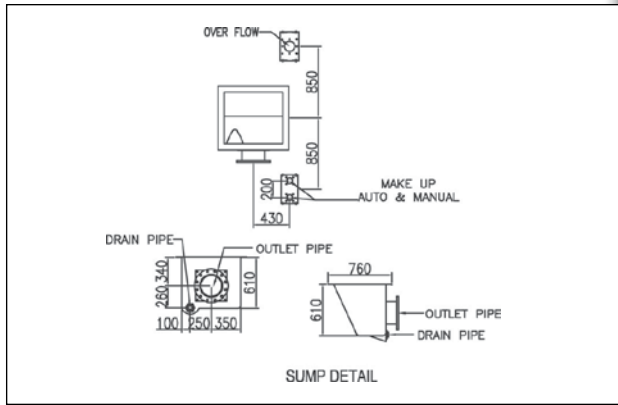
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
1409WB	4280	6930	3230	1750	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380 V / 50hz or 3ph / 415V / 50hz	3660	310	Four (4) to Six (6)	V-Belt and Pulley
1409WC					7.5	13.6				310		
1409WD					11.0	20.1				310		
1409WE					15.0	26.7				310		
1409WF					18.5	33.2				310		
1409WG					22.0	39.3				310		
1409WH					30.0	51.9				310		
1409WI					37.0	66				310		
1409WJ					45.0	78.7				310		
1409WK	55.0	93.5	310									
1412WB	4280	6930	4220	1750	5.5	11			310			
1412WC					7.5	13.6			310			
1412WD					11.0	20.1			310			
1412WE					15.0	26.7			310			
1412WF					18.5	33.2			310			
1412WG					22.0	39.3			310			
1412WH					30.0	51.9			310			
1412WI					37.0	66			310			
1412WJ					45.0	78.7	310					
1412WK	55.0	93.5	310									
1414WB	4280	6930	4830	1750	5.5	11	310					
1414WC					7.5	13.6	310					
1414WD					11.0	20.1	310					
1414WE					15.0	26.7	310					
1414WF					18.5	33.2	310					
1414WG					22.0	39.3	310					
1414WH					30.0	51.9	310					
1414WI					37.0	66	310					
1414WJ					45.0	78.7	310					
1414WK	55.0	93.5	310									
1414WL	75.0	124	310									

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1414WB
- EXS 1414WC
- EXS 1414WD
- EXS 1414WE
- EXS 1414WF
- EXS 1414WG
- EXS 1414WH
- EXS 1414WI
- EXS 1414WJ
- EXS 1414WK



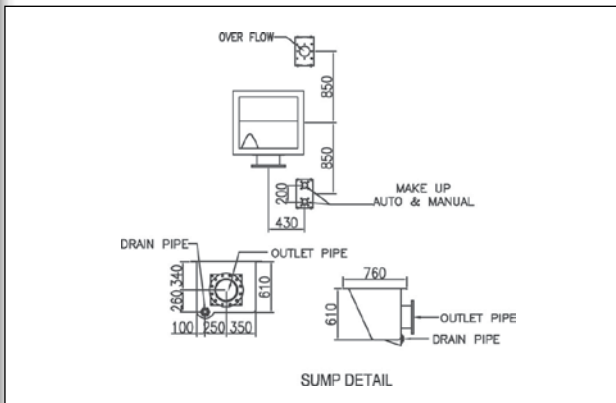
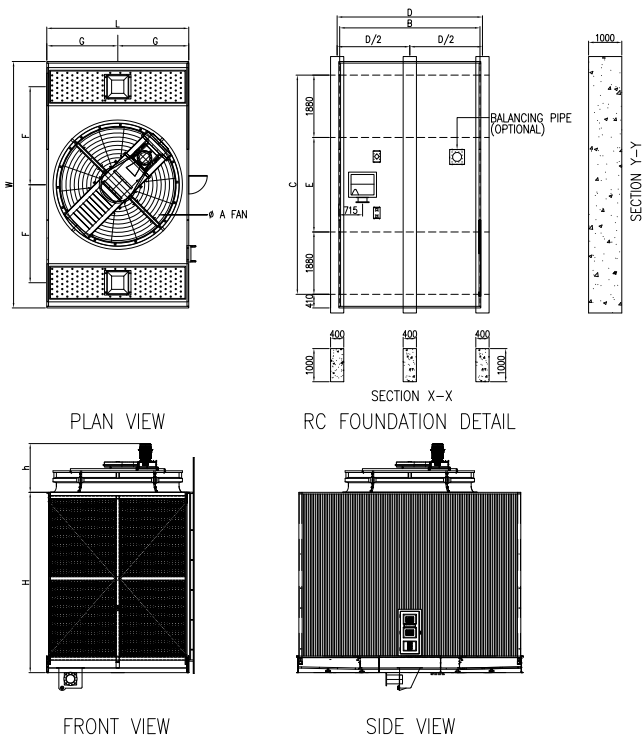
NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1409WB	4230	6110	4380	2350	2555	1070	Applicable to multiple cells only	250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4430	13850
1409WC								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4480	13900
1409WD								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4530	13950
1409WE								250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4580	14000
1409WF								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4630	14050
1409WG								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4680	14100
1409WH								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4730	14150
1409WI								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4780	14200
1409WJ								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4830	14250
1409WK	300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1		4880	14300						
1412WB	4230	6110	4380	2350	2555	1070		250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	4770	14190
1412WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4820	14240
1412WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4870	14290
1412WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4920	14340
1412WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4970	14390
1412WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5020	14440
1412WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5070	14490
1412WI								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5120	14540
1412WJ								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5170	14590
1412WK	350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1		5220	14640						
1414WB	4230	6110	4380	2350	2555	1070		250 x 1	150 x 2	250 x 1	100 x 1	50 x 1	50 x 1	5000	14420
1414WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4870	14470
1414WD								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4920	14520
1414WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	4970	14570
1414WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5020	14620
1414WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5070	14670
1414WH								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5120	14720
1414WI								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5170	14770
1414WJ								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5220	14820
1414WK								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5270	14820
1414WL								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5320	14920

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

- EXS 1416WB EXS 1418WB
- EXS 1416WC EXS 1418WC
- EXS 1416WD EXS 1418WD
- EXS 1416WE EXS 1418WE
- EXS 1416WF EXS 1418WF
- EXS 1416WG EXS 1418WG
- EXS 1416WH EXS 1418WH
- EXS 1416WI EXS 1418WI
- EXS 1416WJ EXS 1418WJ
- EXS 1416WK EXS 1418WK

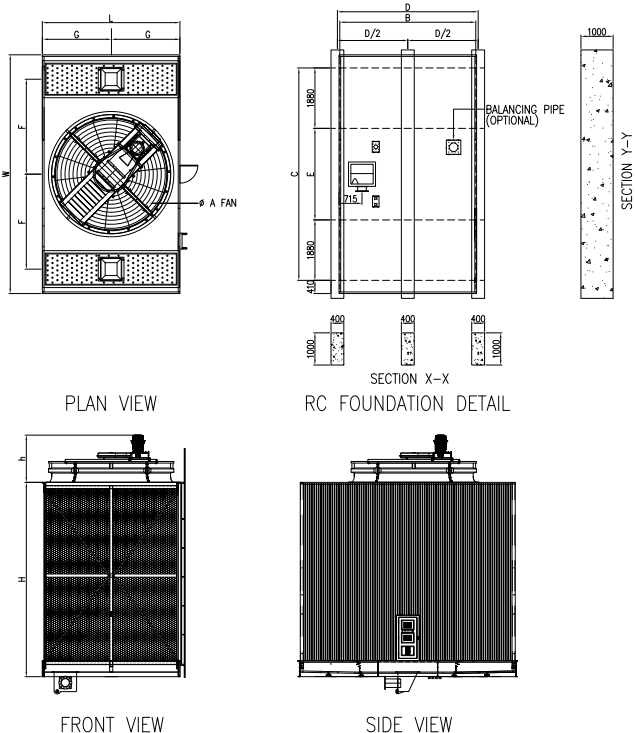


NOTE : ALL DIMENSION IN MM.

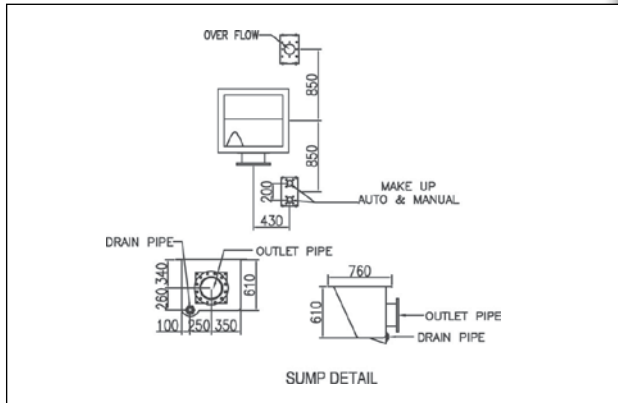
EX-S SERIES RANGE

Tower Model EXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN							
	L	W	H	h'	Rated Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System				
1416WB	4280	6930	5440	1750	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz	3660	310	Four (4) to Six (6)	V-Belt and Pulley				
1416WC					7.5	13.6				310						
1416WD					11.0	20.1				310						
1416WE					15.0	26.7				310						
1416WF					18.5	33.2				310						
1416WG					22.0	39.3				310						
1416WH					30.0	51.9				310						
1416WI					37.0	66				310						
1416WJ					45.0	78.7				310						
1416WK					55.0	93.5				310						
1416WL	75.0	124	310													
1418WB	4280	6930	5870	1750	5.5	11			TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			3660	310	Four (4) to Six (6)	V-Belt and Pulley
1418WC					7.5	13.6								310		
1418WD					11.0	20.1								310		
1418WE					15.0	26.7								310		
1418WF					18.5	33.2								310		
1418WG					22.0	39.3								310		
1418WH					30.0	51.9								310		
1418WI					37.0	66								310		
1418WJ					45.0	78.7								310		
1418WK					55.0	93.5	310									
1418WL	75.0	124	310													
1420WB	4280	6930	6660	1800	5.5	11	TEFC, Outdoor, 3 phase, Induction Motor, 4 poles	3 ph / 380V / 50hz or 3ph / 415V / 50hz			3660	310	Four (4) to Six (6)	V-Belt and Pulley		
1420WC					7.5	13.6						310				
1420WD					11.0	20.1						310				
1420WE					15.0	26.7						310				
1420WF					18.5	33.2						310				
1420WG					22.0	39.3						310				
1420WH					30.0	51.9						310				
1420WI					37.0	66						310				
1420WJ					45.0	78.7						310				
1420WK					55.0	93.5			310							
1420WL	75.0	124	310													

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



- EXS 1420WB
- EXS 1420WC
- EXS 1420WD
- EXS 1420WE
- EXS 1420WF
- EXS 1420WG
- EXS 1420WH
- EXS 1420WI
- EXS 1420WJ
- EXS 1420WK
- EXS 1420WL



NOTE : ALL DIMENSION IN MM.

EX-S SERIES RANGE

Tower Model EXS	ANCHOR BOLTS DATA				PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	F	G	J	Internal Piping	Water Inlet	Water Outlet	Over-flow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
1416WB	4230	6110	4380	2350	2555	1070	Applicable to multiple cells only	250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5230	14650
1416WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5120	14700
1416WD								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5170	14750
1416WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5220	14800
1416WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5270	14850
1416WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5320	14900
1416WH								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5370	14950
1416WI								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5420	15000
1416WJ								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5470	15050
1416WK								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5520	15100
1416WL								350 x 1	200 x 4	400 x 1	100 x 1	50 x 1	50 x 1	5570	15100
1418WB	4230	6110	4380	2350	2555	1070		250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5460	14880
1418WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5170	14930
1418WD								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5220	14980
1418WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5270	15030
1418WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5320	15080
1418WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5370	15130
1418WH								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5420	15180
1418WI								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5470	15230
1418WJ								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5520	15280
1418WK								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5570	15330
1418WL								350 x 1	200 x 4	400 x 1	100 x 1	50 x 1	50 x 1	5620	15330
1420WB	4230	6110	4380	2350	2555	1070		250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5690	15110
1420WC								250 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5220	15160
1420WD								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5270	15210
1420WE								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5320	15260
1420WF								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5370	15310
1420WG								300 x 1	200 x 2	300 x 1	100 x 1	50 x 1	50 x 1	5420	15360
1420WH								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5470	15410
1420WI								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5520	15460
1420WJ								350 x 1	200 x 4	350 x 1	100 x 1	50 x 1	50 x 1	5570	15510
1420WK								350 x 1	200 x 4	400 x 1	100 x 1	50 x 1	50 x 1	5620	15560
1420WL								350 x 1	200 x 4	400 x 1	100 x 1	50 x 1	50 x 1	5670	15560

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	85	90	90	90	78	80.6

Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0

TOWER MODEL EXS	kW	m3/hr													
0707UX	1.5	77.5	70.9	63.7	104.8	61.6	89.1	120.4	142.6	102.7	138.8	82.0	73.4	104.1	90.5
0707UY	2.2	88.4	80.8	72.7	119.5	70.3	101.6	137.4	162.7	117.1	158.3	93.5	83.7	118.8	103.2
0707UZ	3	98.7	90.3	81.2	133.5	78.5	113.5	153.4	181.7	130.8	176.8	104.5	93.5	132.7	115.3
0707UA	4	108.6	99.3	89.3	146.8	86.4	124.8	168.8	199.9	143.9	194.5	114.9	102.8	145.9	126.9
0707UB	5.5	121.1	110.7	99.6	163.7	96.3	139.2	188.2	222.9	160.4	216.9	128.1	114.6	162.7	141.4
0707UC	7.5	132.2	120.8	108.7	178.7	105.1	151.9	205.4	243.3	175.1	236.7	139.8	125.1	177.6	154.4
0707UD	11	153.6	140.4	126.3	207.6	122.1	176.5	238.6	282.7	203.4	275.0	162.5	145.4	206.3	179.4
0707UE	15	171.4	156.7	140.9	231.7	136.3	197.0	266.3	315.4	227.0	306.9	181.3	162.2	230.2	200.2
0709UX	1.5	83.0	75.9	68.3	112.3	66.0	95.4	129.0	152.8	110.0	148.7	87.8	78.6	111.5	97.0
0709UY	2.2	94.6	86.5	77.8	128.0	75.3	108.8	147.1	174.2	125.4	169.5	100.1	89.6	127.2	110.6
0709UZ	3	105.3	96.3	86.6	142.4	83.8	121.0	163.6	193.8	139.5	188.6	111.4	99.7	141.5	123.0
0709UA	4	116.3	106.4	95.6	157.3	92.5	133.7	180.7	214.1	154.1	208.3	123.0	110.1	156.3	135.9
0709UB	5.5	129.3	118.3	106.4	174.9	102.9	148.7	201.0	238.1	171.3	231.7	136.8	122.4	173.8	151.1
0709UC	7.5	146.4	133.9	120.4	197.9	116.4	168.3	227.5	269.5	193.9	262.2	154.9	138.6	196.7	171.0
0709UD	11	164.0	149.9	134.8	221.7	130.4	188.5	254.8	301.8	217.2	293.7	173.5	155.2	220.3	191.5
0709UE	15	185.4	169.5	152.4	250.6	147.4	213.1	288.1	341.2	245.6	332.0	196.1	175.5	249.1	216.5
0711UX	1.5	87.2	79.7	71.7	117.9	69.3	100.2	135.5	160.5	115.5	156.1	92.2	82.5	117.1	101.8
0711UY	2.2	98.3	89.9	80.8	132.9	78.2	113.0	152.7	180.9	130.2	176.0	104.0	93.0	132.0	114.8
0711UZ	3	113.4	103.7	93.2	153.3	90.2	130.3	176.2	208.7	150.2	203.1	119.9	107.3	152.3	132.4
0711UA	4	120.2	109.9	98.9	162.5	95.6	138.2	186.8	221.3	159.3	215.3	127.2	113.8	161.5	140.4
0711UB	5.5	136.9	125.2	112.6	185.2	108.9	157.4	212.8	252.1	181.4	245.3	144.9	129.6	184.0	160.0
0711UC	7.5	152.4	139.3	125.3	206.0	121.2	175.1	236.8	280.5	201.8	272.9	161.2	144.2	204.7	178.0
0711UD	11	176.0	161.0	144.8	238.0	140.0	202.3	273.6	324.0	233.2	315.3	186.2	166.6	236.5	205.6
0711UE	15	195.6	178.8	160.8	264.4	155.6	224.8	303.9	360.0	259.1	350.3	206.9	185.2	262.8	228.5
0807UX	1.5	84.4	77.2	69.4	114.1	67.1	97.0	131.1	155.3	111.8	151.1	89.3	79.9	113.4	98.6
0807UY	2.2	95.7	87.5	78.7	129.4	76.1	110.0	148.8	176.2	126.8	171.5	101.3	90.6	128.6	111.8
0807UZ	3	106.6	97.4	87.6	144.1	84.8	122.5	165.6	196.2	141.2	190.9	112.7	100.9	143.2	124.5
0807UA	4	118.3	108.1	97.3	159.9	94.1	135.9	183.8	217.7	156.7	211.8	125.1	112.0	158.9	138.1
0807UB	5.5	130.9	119.7	107.6	176.9	104.1	150.4	203.4	240.9	173.3	234.4	138.4	123.9	175.8	152.9
0807UC	7.5	147.0	134.5	120.9	198.8	116.9	169.0	228.5	270.7	194.8	263.4	155.6	139.2	197.6	171.8
0807UD	11	167.9	153.5	138.1	227.0	133.5	193.0	260.9	309.0	222.4	300.7	177.6	158.9	225.6	196.1
0807UE	11	184.8	169.0	152.0	249.9	147.0	212.4	287.2	340.2	244.8	331.0	195.5	175.0	248.3	215.9
0807UF	15	198.6	181.6	163.3	268.6	158.0	228.3	308.7	365.6	263.1	355.8	210.1	188.0	266.9	232.0
0809UX	1.5	91.8	83.9	75.5	124.1	73.0	105.5	142.7	169.0	121.6	164.4	97.1	86.9	123.3	107.2
0809UY	2.2	106.7	97.6	87.7	144.3	84.9	122.6	165.8	196.4	141.4	191.1	112.9	101.0	143.4	124.6
0809UZ	3	116.5	106.6	95.8	157.6	92.7	133.9	181.1	214.5	154.4	208.7	123.3	110.3	156.6	136.1
0809UA	4	128.7	117.7	105.8	174.0	102.3	147.9	200.0	236.9	170.5	230.5	136.1	121.8	172.9	150.3
0809UB	5.5	142.9	130.7	117.5	193.2	113.7	164.3	222.1	263.1	189.3	256.0	151.2	135.3	192.0	166.9
0809UC	7.5	159.4	145.8	131.1	215.5	126.8	183.2	247.7	293.5	211.2	285.5	168.7	150.9	214.2	186.2
0809UD	11	181.3	165.7	149.0	245.1	144.2	208.3	281.7	333.6	240.1	324.6	191.8	171.6	243.5	211.7
0809UE	15	201.5	184.2	165.7	272.4	160.2	231.5	313.1	370.8	266.9	360.8	213.1	190.7	270.6	235.3
0809UF	18.5	216.3	197.8	177.9	292.5	172.1	248.6	336.2	398.2	286.6	387.5	228.9	204.8	290.6	252.7
0811UX	1.5	100.2	91.6	82.4	135.5	79.7	115.1	155.7	184.4	132.7	179.4	106.0	94.8	134.6	117.0
0811UY	2.2	113.8	104.1	93.6	153.9	90.5	130.8	176.9	209.5	150.8	203.8	120.4	107.7	152.9	132.9

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	90	90	90	78	80.6	82.4
Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	29.4	32.2	32.2	25.6	27.0	28.0

TOWER MODEL EXS	kW	m3/hr													
0811UZ	3	126.4	115.6	103.9	170.9	100.5	145.3	196.4	232.7	167.5	226.4	133.7	119.7	169.8	147.7
0811UA	4	139.8	127.8	114.9	189.0	111.2	160.6	217.2	257.3	185.1	250.3	147.9	132.3	187.8	163.3
0811UB	5.5	155.5	142.2	127.9	210.3	123.7	178.7	241.7	286.3	206.0	278.5	164.5	147.2	208.9	181.7
0811UC	7.5	172.8	158.0	142.1	233.6	137.4	198.6	268.5	318.0	228.9	309.5	182.8	163.6	232.1	201.8
0811UD	11	196.7	179.8	161.7	265.9	156.4	226.0	305.6	362.0	260.5	352.3	208.1	186.2	264.2	229.7
0811UE	15	218.5	199.8	179.7	295.4	173.8	251.1	339.5	402.2	289.4	391.3	231.2	206.8	293.6	255.2
0811UF	18.5	234.7	214.6	193.0	317.3	186.6	269.7	364.7	432.0	310.9	420.3	248.3	222.2	315.3	274.1
0810VX	1.5	91.9	84.0	75.6	124.3	73.1	105.6	142.8	169.2	121.7	164.6	97.2	87.0	123.5	107.3
0810VY	2.2	104.4	95.5	85.9	141.2	83.0	120.0	162.3	192.2	138.3	187.0	110.5	98.8	140.3	122.0
0810VZ	3	115.8	105.9	95.2	156.6	92.1	133.1	179.9	213.1	153.4	207.4	122.5	109.6	155.6	135.3
0810VA	4.0	127.4	116.5	104.8	172.3	101.4	146.5	198.0	234.6	168.8	228.3	134.8	120.6	171.2	148.9
0810VB	5.5	141.7	129.6	116.5	191.6	112.7	162.9	220.2	260.9	187.7	253.8	149.9	134.2	190.4	165.5
0810VC	7.5	157.9	144.4	129.8	213.5	125.6	181.5	245.4	290.6	209.2	282.8	167.0	149.5	212.1	184.4
0810VD	11.0	180.5	165.1	148.5	244.1	143.6	207.5	280.6	332.3	239.2	323.4	191.0	170.9	242.6	210.9
0810VE	15.0	200.6	183.4	165.0	271.2	159.5	230.6	311.7	369.2	265.7	359.3	212.2	189.9	269.5	234.3
0810VF	18.5	214.2	195.9	176.1	289.6	170.3	246.2	332.8	394.3	283.7	383.6	226.6	202.8	287.8	250.2
0812VX	1.5	101.6	92.9	83.5	137.3	80.8	116.7	157.8	186.9	134.5	181.9	107.4	96.1	136.4	118.6
0812VY	2.2	115.4	105.5	94.9	156.0	91.8	132.6	179.3	212.4	152.8	206.7	122.1	109.2	155.0	134.8
0812VZ	3	128.0	117.0	105.2	173.0	101.8	147.1	198.8	235.5	169.5	229.2	135.4	121.1	171.9	149.5
0812VA	4.0	140.8	128.8	115.8	190.4	112.0	161.9	218.8	259.2	186.6	252.2	149.0	133.3	189.2	164.5
0812VB	5.5	156.6	143.2	128.8	211.7	124.5	180.0	243.4	288.3	207.4	280.5	165.7	148.2	210.4	182.9
0812VC	7.5	174.7	159.8	143.7	236.2	139.0	200.8	271.5	321.6	231.4	312.9	184.8	165.4	234.7	204.1
0812VD	11.0	199.3	182.2	163.9	269.5	158.5	229.1	309.7	366.9	264.0	357.0	210.9	188.7	267.8	232.8
0812VE	15.0	221.3	202.4	182.0	299.2	176.0	254.4	343.9	407.4	293.2	396.4	234.1	209.5	297.3	258.5
0812VF	18.5	238.1	217.7	195.8	322.0	189.4	273.7	370.1	438.3	315.4	426.5	251.9	225.4	319.9	278.2
0910VY	2.2	114.7	104.9	94.3	155.1	91.2	131.9	178.3	211.2	152.0	205.5	121.4	108.6	154.1	134.0
0910VZ	3	127.2	116.3	104.6	172.0	101.2	146.2	197.7	234.2	168.5	227.9	134.6	120.4	170.9	148.6
0910VA	4.0	140.0	128.0	115.1	189.3	111.4	160.9	217.6	257.7	185.5	250.8	148.1	132.6	188.1	163.6
0910VB	5.5	155.7	142.4	128.0	210.5	123.8	179.0	242.0	286.6	206.3	278.9	164.7	147.4	209.2	181.9
0910VC	7.5	173.5	158.6	142.6	234.5	138.0	199.4	269.6	319.3	229.8	310.7	183.5	164.2	233.1	202.6
0910VD	11.0	197.2	180.3	162.1	266.6	156.8	226.6	306.4	362.9	261.2	353.1	208.6	186.6	264.9	230.3
0910VE	15.0	220.2	201.4	181.1	297.8	175.2	253.1	342.2	405.4	291.7	394.5	233.0	208.5	295.9	257.3
0910VF	18.5	236.2	216.0	194.2	319.4	187.9	271.5	367.1	434.8	312.9	423.1	249.9	223.6	317.4	275.9
0912VY	2.2	124.7	114.0	102.5	168.6	99.2	143.3	193.8	229.5	165.2	223.3	131.9	118.0	167.5	145.7
0912VZ	3	138.3	126.4	113.7	187.0	110.0	158.9	214.9	254.5	183.2	247.7	146.3	130.9	185.8	161.5
0912VA	4.0	152.2	139.2	125.2	205.8	121.0	174.9	236.5	280.2	201.6	272.6	161.0	144.1	204.5	177.8
0912VB	5.5	169.2	154.8	139.2	228.8	134.6	194.5	263.0	311.5	224.2	303.1	179.0	160.2	227.4	197.7
0912VC	7.5	187.7	171.6	154.3	253.7	149.3	215.7	291.6	345.5	248.6	336.1	198.5	177.7	252.1	219.2
0912VD	11.0	212.5	194.3	174.8	287.4	169.0	244.3	330.3	391.2	281.5	380.7	224.9	201.2	285.5	248.3
0912VE	15.0	237.4	217.1	195.2	321.0	188.8	272.9	368.9	437.0	314.5	425.2	251.2	224.7	319.0	277.3
0912VF	18.5	253.4	231.7	208.4	342.6	201.5	291.2	393.8	466.4	335.7	453.8	268.1	239.9	340.4	296.0
1110VA	4.0	172.4	157.6	141.8	233.1	137.1	198.2	267.9	317.4	228.4	308.8	182.4	163.2	231.6	201.4
1110VB	5.5	191.7	175.3	157.7	259.2	152.5	220.4	297.9	352.9	254.0	343.4	202.8	181.5	257.6	223.9
1110VC	7.5	212.6	194.4	174.8	287.4	169.1	244.4	330.4	391.3	281.6	380.8	224.9	201.3	285.6	248.3

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	85	90	90	90	78	80.6

Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0

TOWER MODEL EXS	kW	m3/hr													
1110VD	11.0	241.6	220.9	198.6	326.6	192.1	277.6	375.4	444.6	320.0	432.6	255.5	228.7	324.5	282.2
1110VE	15.0	268.8	245.8	221.0	363.4	213.8	308.9	417.7	494.8	356.1	481.4	284.4	254.4	361.1	314.0
1110VF	18.5	288.9	264.2	237.6	390.6	229.8	332.1	449.0	531.8	382.7	517.5	305.7	273.5	388.2	337.5
1110VG	22.0	306.7	280.4	252.2	414.6	243.9	352.5	476.6	564.5	406.2	549.3	324.4	290.3	412.0	358.2
1110VH	30.0	340.4	311.3	279.9	460.3	270.7	391.3	529.0	626.6	450.9	609.7	360.1	322.3	457.4	397.6
1112VB	5.5	212.3	194.1	174.6	287.0	168.8	244.0	329.9	390.8	281.2	380.2	224.6	201.0	285.2	248.0
1112VC	7.5	235.4	215.3	193.6	318.3	187.2	270.6	365.8	433.3	311.9	421.6	249.1	222.9	316.3	275.0
1112VD	11.0	267.5	244.6	219.9	361.6	212.7	307.4	415.7	492.3	354.3	479.1	283.0	253.2	359.4	312.4
1112VE	15.0	296.6	271.2	243.9	401.0	235.9	340.9	460.9	546.0	392.9	531.2	313.8	280.8	398.5	346.5
1112VF	18.5	319.7	292.3	262.9	432.3	254.3	367.5	496.8	588.5	423.5	572.6	338.2	302.6	429.5	373.4
1112VG	22.0	338.7	309.7	278.5	457.9	269.3	389.2	526.3	623.3	448.6	606.5	358.3	320.6	455.0	395.6
1112VH	30.0	376.0	343.8	309.1	508.3	299.0	432.1	584.2	692.0	498.0	673.3	397.7	355.9	505.1	439.1
1112VI	37.0	403.8	369.2	332.0	545.9	321.1	464.1	627.5	743.2	534.9	723.2	427.2	382.2	542.5	471.6
1114VB	5.5	230.1	210.4	189.2	311.1	183.0	264.5	357.6	423.5	304.8	412.1	243.4	217.8	309.1	268.8
1114VC	7.5	255.2	233.3	209.8	345.0	202.9	293.3	396.5	469.7	338.0	457.0	269.9	241.5	342.8	298.0
1114VD	11.0	289.9	265.1	238.4	392.0	230.6	333.2	450.5	533.6	384.0	519.2	306.7	274.4	389.5	338.6
1114VE	15.0	321.5	294.0	264.4	434.7	255.7	369.5	499.6	591.7	425.9	575.8	340.1	304.3	431.9	375.5
1114VF	18.5	345.8	316.1	284.3	467.5	275.0	397.4	537.3	636.4	458.0	619.3	365.8	327.3	464.5	403.9
1114VG	22.0	367.1	335.6	301.8	496.3	291.9	421.9	570.4	675.7	486.2	657.4	388.3	347.5	493.1	428.8
1114VH	30.0	414.4	378.9	340.8	560.3	329.6	476.3	644.0	762.8	549.0	742.3	438.4	392.3	556.8	484.1
1114VI	37.0	444.0	406.0	365.1	600.4	353.1	510.3	690.0	817.3	588.2	795.3	469.8	420.3	596.6	518.7
1209WA	4.0	207.6	189.9	170.7	280.7	165.1	238.6	322.7	382.2	275.0	371.9	219.7	196.6	279.0	242.5
1209WB	5.5	228.8	209.2	188.1	309.3	181.9	262.9	355.5	421.1	303.0	409.7	242.0	216.6	307.3	267.2
1209WC	7.5	257.0	235.0	211.3	347.4	204.4	295.3	399.3	473.0	340.4	460.2	271.8	243.2	345.2	300.1
1209WD	11.0	296.1	270.8	243.5	400.4	235.5	340.3	460.1	545.0	392.2	530.3	313.3	280.3	397.8	345.9
1209WE	15.0	322.2	294.6	265.0	435.6	256.3	370.3	500.7	593.1	426.8	577.1	340.9	305.0	432.9	376.4
1209WF	18.5	339.9	310.7	279.5	459.5	270.3	390.6	528.1	625.6	450.2	608.7	359.5	321.7	456.6	397.0
1209WG	22.0	365.5	334.2	300.5	494.1	290.6	420.0	567.9	672.7	484.1	654.5	386.6	346.0	491.0	426.9
1209WH	30.0	411.3	376.1	338.2	556.1	327.1	472.7	639.1	757.0	544.8	736.6	435.1	389.3	552.6	480.4
1209WI	37.0	446.5	408.2	367.1	603.6	355.1	513.1	693.8	821.8	591.4	799.6	472.3	422.6	599.8	521.5
1209WJ	45.0	478.7	437.7	393.7	647.3	380.7	550.2	743.9	881.2	634.2	857.4	506.5	453.2	643.2	559.2
1212WA	4.0	250.8	229.3	206.2	339.1	199.5	288.3	389.7	461.6	332.2	449.2	265.3	237.4	336.9	292.9
1212WB	5.5	273.1	249.7	224.6	369.2	217.2	313.9	424.4	502.7	361.7	489.1	288.9	258.5	366.9	319.0
1212WC	7.5	305.2	279.1	251.0	412.7	242.7	350.8	474.3	561.8	404.3	546.7	322.9	288.9	410.1	356.5
1212WD	11.0	351.3	321.2	288.9	475.0	279.4	403.8	545.9	646.6	465.3	629.2	371.6	332.5	471.9	410.3
1212WE	15.0	397.7	363.6	327.0	537.7	316.3	457.1	618.0	732.0	526.8	712.2	420.7	376.5	534.3	464.5
1212WF	18.5	429.3	392.5	353.0	580.4	341.4	493.4	667.1	790.2	568.7	768.9	454.1	406.4	576.7	501.4
1212WG	22.0	457.3	418.1	376.0	618.2	363.6	525.5	710.5	841.6	605.7	818.9	483.7	432.8	614.3	534.1
1212WH	30.0	507.9	464.4	417.7	686.7	403.9	583.8	789.3	934.9	672.8	909.7	537.3	480.8	682.4	593.3
1212WI	37.0	541.8	495.4	445.5	732.5	430.9	622.7	841.9	997.2	717.7	970.3	573.1	512.9	727.9	632.8
1212WJ	45.0	574.9	525.6	472.7	777.3	457.2	660.7	893.3	1058.2	761.5	1029.6	608.2	544.2	772.3	671.5
1212WK	55.0	612.9	560.4	504.0	828.7	487.4	704.4	952.4	1128.2	811.9	1097.7	648.4	580.2	823.4	715.9
1214WA	4.0	262.2	239.7	215.6	354.4	208.5	301.3	407.4	482.5	347.3	469.5	277.3	248.2	352.2	306.2
1214WB	5.5	292.9	267.8	240.9	396.0	232.9	336.6	455.2	539.1	388.0	524.6	309.9	277.3	393.5	342.1

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	90	90	90	78	80.6	82.4

Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0	28.0

TOWER MODEL EXS	kW	m3/hr													
1214WC	7.5	324.5	296.7	266.8	438.7	258.1	373.0	504.3	597.3	429.9	581.2	343.3	307.2	436.0	379.0
1214WD	11.0	376.4	344.1	309.5	508.8	299.3	432.6	584.8	692.8	498.5	674.1	398.2	356.3	505.6	439.6
1214WE	15.0	413.0	377.6	339.6	558.4	328.5	474.7	641.8	760.2	547.1	739.7	436.9	391.0	554.9	482.4
1214WF	18.5	429.9	393.1	353.5	581.3	341.9	494.1	668.1	791.4	569.5	770.0	454.8	407.0	577.6	502.2
1214WG	22.0	465.2	425.3	382.5	628.9	370.0	534.6	722.9	856.2	616.2	833.1	492.1	440.3	624.9	543.3
1214WH	30.0	522.6	477.8	429.7	706.6	415.6	600.6	812.1	961.9	692.3	936.0	552.9	494.7	702.1	610.4
1214WI	37.0	564.4	516.0	464.1	763.1	448.9	648.7	877.0	1038.8	747.6	1010.8	597.1	534.3	758.2	659.2
1214WJ	45.0	602.8	551.2	495.7	815.1	479.4	692.9	936.8	1109.6	798.6	1079.7	637.7	570.7	809.9	704.1
1214WK	55.0	638.1	583.4	524.7	862.7	507.5	733.4	991.6	1174.5	845.2	1142.8	675.0	604.0	857.3	745.3
1216WA	4.0	276.9	253.2	227.7	374.4	220.3	318.3	430.4	509.8	366.8	496.0	293.0	262.2	372.1	323.5
1216WB	5.5	310.8	284.2	255.6	420.2	247.2	357.2	483.0	572.1	411.7	556.6	328.8	294.2	417.5	363.0
1216WC	7.5	341.2	312.0	280.6	461.3	271.4	392.2	530.2	628.1	452.0	611.1	361.0	323.0	458.4	398.6
1216WD	11.0	382.3	349.5	314.3	516.8	304.0	439.3	594.0	703.6	506.3	684.6	404.4	361.9	513.5	446.5
1216WE	15.0	432.4	395.4	355.6	584.6	343.9	497.0	671.9	795.9	572.8	774.4	457.4	409.3	580.9	505.1
1216WF	18.5	465.5	425.6	382.8	629.4	370.2	535.0	723.4	856.8	616.6	833.7	492.5	440.7	625.4	543.7
1216WG	22.0	492.4	450.2	404.9	665.7	391.6	565.9	765.1	906.3	652.2	881.9	520.9	466.1	661.5	575.1
1216WH	30.0	552.3	505.0	454.1	746.7	439.2	634.7	858.2	1016.6	731.6	989.1	584.3	522.8	742.0	645.1
1216WI	37.0	589.8	539.3	485.0	797.4	469.0	677.8	916.5	1085.6	781.2	1056.3	623.9	558.3	792.3	688.9
1216WJ	45.0	636.2	581.7	523.1	860.1	505.9	731.2	988.6	1171.0	842.7	1139.4	673.0	602.2	854.7	743.1
1216WK	55.0	681.6	623.2	560.5	921.5	542.1	783.4	1059.2	1254.6	902.9	1220.7	721.1	645.2	915.7	796.1
1218WA	4.0	279.8	255.9	230.1	378.3	222.6	321.6	434.8	515.1	370.7	501.2	296.0	264.9	375.9	326.9
1218WB	5.5	313.6	286.7	257.9	424.0	249.4	360.4	487.3	577.2	415.4	561.6	331.7	296.8	421.3	366.3
1218WC	7.5	347.8	318.0	286.0	470.2	276.6	399.7	540.4	640.1	460.7	622.8	367.9	329.2	467.2	406.2
1218WD	11.0	404.2	369.6	332.4	546.5	321.5	464.6	628.1	744.0	535.4	724.0	427.6	382.6	543.1	472.1
1218WE	15.0	450.8	412.2	370.7	609.5	358.5	518.1	700.6	829.8	597.2	807.4	476.9	426.8	605.7	526.6
1218WF	18.5	488.0	446.2	401.3	659.8	388.1	560.9	758.3	898.2	646.4	874.0	516.3	462.0	655.6	570.0
1218WG	22.0	516.7	472.5	424.9	698.6	410.9	593.9	802.9	951.1	684.5	925.4	546.6	489.1	694.2	603.5
1218WH	30.0	567.8	519.2	466.9	767.7	451.6	652.6	882.3	1045.1	752.1	1016.9	600.7	537.5	762.8	663.2
1218WI	37.0	597.6	546.4	491.4	808.0	475.3	686.8	928.6	1100.0	791.6	1070.3	632.2	565.7	802.8	698.0
1218WJ	45.0	643.5	588.3	529.1	870.0	511.7	739.5	999.9	1184.4	852.3	1152.4	680.7	609.1	864.4	751.6
1218WK	55.0	694.3	634.9	570.9	938.8	552.2	798.0	1079.0	1278.0	919.7	1243.6	734.5	657.3	932.8	811.0
1220WA	4.0	293.8	268.6	241.6	397.2	233.6	337.6	456.5	540.7	389.1	526.1	310.8	278.1	394.7	343.1
1220WB	5.5	324.2	296.4	266.6	438.3	257.8	372.6	503.8	596.7	429.4	580.6	343.0	306.9	435.5	378.7
1220WC	7.5	368.5	337.0	303.0	498.3	293.1	423.6	572.7	678.4	488.2	660.1	389.9	348.9	495.1	430.5
1220WD	11.0	420.7	384.7	346.0	568.8	334.6	483.5	653.8	774.4	557.3	753.5	445.1	398.3	565.2	491.4
1220WE	15.0	446.3	408.1	367.0	603.4	355.0	513.0	693.6	821.5	591.2	799.4	472.2	422.5	599.6	521.3
1220WF	18.5	486.8	445.1	400.3	658.2	387.2	559.5	756.5	896.1	644.9	871.9	515.0	460.8	654.0	568.6
1220WG	22.0	524.0	479.1	430.9	708.4	416.7	602.2	814.3	964.5	694.1	938.5	554.3	496.0	704.0	612.0
1220WH	30.0	575.5	526.2	473.2	778.1	457.7	661.5	894.3	1059.3	762.4	1030.8	608.8	544.8	773.2	672.2
1220WI	37.0	621.1	567.9	510.7	839.7	493.9	713.8	965.1	1143.2	822.7	1112.3	657.0	587.9	834.4	725.4
1220WJ	45.0	668.1	610.9	549.4	903.3	531.3	767.9	1038.2	1229.7	885.0	1196.5	706.8	632.4	897.6	780.4
1220WK	55.0	720.1	658.4	592.1	973.5	572.7	827.6	1118.9	1325.4	953.8	1289.6	761.7	681.6	967.4	841.0
1309WB	5.5	247.3	226.1	203.3	334.3	196.7	284.2	384.3	455.2	327.6	442.9	261.6	234.1	332.2	288.9
1309WC	7.5	279.6	255.6	229.9	378.0	222.3	321.3	434.4	514.6	370.3	500.7	295.8	264.7	375.6	326.6

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	85	90	90	90	78	80.6

Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0

TOWER MODEL EXS	kW	m3/hr													
1309WD	11.0	317.0	289.9	260.7	428.6	252.1	364.4	492.7	583.6	420.0	567.8	335.4	300.1	425.9	370.3
1309WE	15.0	343.6	314.2	282.6	464.6	273.3	395.0	534.0	632.5	455.2	615.5	363.5	325.3	461.7	401.4
1309WF	18.5	376.3	344.1	309.4	508.8	299.3	432.5	584.8	692.7	498.5	674.0	398.1	356.2	505.6	439.6
1309WG	22.0	393.0	359.3	323.1	531.3	312.5	451.6	610.6	723.3	520.5	703.8	415.7	372.0	527.9	459.0
1309WH	30.0	447.3	409.0	367.8	604.7	355.7	514.0	695.0	823.3	592.5	801.0	473.2	423.4	600.9	522.4
1309WI	37.0	483.4	442.0	397.5	653.6	384.5	555.6	751.2	889.8	640.4	865.8	511.4	457.6	649.5	564.7
1309WJ	45.0	516.1	471.9	424.4	697.8	410.5	593.2	802.0	950.0	683.7	924.3	546.0	488.6	693.4	602.8
1312WB	5.5	318.0	290.8	261.5	429.9	252.9	365.5	494.1	585.3	421.2	569.5	336.4	301.0	427.2	371.4
1312WC	7.5	361.8	330.8	297.5	489.1	287.7	415.8	562.1	665.9	479.2	647.9	382.7	342.4	486.0	422.5
1312WD	11.0	413.3	377.9	339.8	558.7	328.7	475.0	642.2	760.7	547.4	740.2	437.2	391.2	555.2	482.7
1312WE	15.0	454.3	415.4	373.6	614.2	361.3	522.1	706.0	836.2	601.8	813.6	480.6	430.0	610.3	530.6
1312WF	18.5	495.4	453.0	407.4	669.8	394.0	569.4	769.9	911.9	656.3	887.3	524.1	469.0	665.6	578.7
1312WG	22.0	530.1	484.7	435.9	716.7	421.6	609.2	823.7	975.7	702.2	949.4	560.8	501.8	712.2	619.2
1312WH	30.0	583.3	533.4	479.7	788.6	463.9	670.4	906.4	1073.7	772.7	1044.7	617.1	552.2	783.7	681.3
1312WI	37.0	633.6	579.3	521.0	856.6	503.9	728.2	984.5	1166.2	839.3	1134.7	670.3	599.8	851.2	740.0
1312WJ	45.0	684.4	625.8	562.8	925.3	544.3	786.6	1063.5	1259.8	906.6	1225.8	724.0	647.9	919.5	799.4
1312WK	55.0	717.8	656.3	590.2	970.5	570.9	825.0	1115.4	1321.2	950.8	1285.6	759.4	679.5	964.3	838.4
1314WB	5.5	341.4	312.1	280.7	461.5	271.5	392.3	530.4	628.3	452.2	611.4	361.1	323.1	458.6	398.7
1314WC	7.5	381.6	348.9	313.8	515.9	303.5	438.6	593.0	702.4	505.5	683.4	403.7	361.2	512.6	445.7
1314WD	11.0	437.9	400.4	360.1	592.0	348.2	503.3	680.4	806.0	580.0	784.2	463.2	414.5	588.3	511.5
1314WE	15.0	485.3	443.7	399.1	656.1	386.0	557.8	754.1	893.3	642.8	869.2	513.4	459.4	652.0	566.8
1314WF	18.5	523.7	478.9	430.6	708.1	416.5	601.9	813.8	964.0	693.7	938.0	554.0	495.8	703.6	611.7
1314WG	22.0	540.1	493.9	444.1	730.2	429.6	620.8	839.3	994.2	715.5	967.3	571.4	511.3	725.6	630.9
1314WH	30.0	599.4	548.1	492.9	810.4	476.7	688.9	931.4	1103.3	794.0	1073.5	634.1	567.4	805.2	700.1
1314WI	37.0	647.0	591.6	532.0	874.8	514.6	743.6	1005.4	1190.9	857.1	1158.8	684.5	612.5	869.3	755.8
1314WJ	45.0	700.8	640.8	576.3	947.5	557.4	805.5	1089.0	1290.0	928.3	1255.2	741.4	663.4	941.5	818.6
1314WK	55.0	744.9	681.1	612.5	1007.2	592.4	856.2	1157.6	1371.2	986.8	1334.2	788.1	705.2	1000.8	870.1
1316WB	5.5	361.1	330.1	296.9	488.2	287.2	415.0	561.1	664.6	478.3	646.7	382.0	341.8	485.1	421.7
1316WC	7.5	405.1	370.4	333.1	547.6	322.1	465.5	629.4	745.6	536.6	725.5	428.5	383.4	544.2	473.1
1316WD	11.0	444.4	406.3	365.4	600.8	353.4	510.7	690.5	817.9	588.6	795.9	470.1	420.7	597.0	519.1
1316WE	15.0	496.8	454.3	408.5	671.7	395.1	571.0	772.0	914.5	658.1	889.8	525.6	470.3	667.4	580.3
1316WF	18.5	544.0	497.4	447.3	735.5	432.6	625.2	845.3	1001.3	720.6	974.3	575.5	515.0	730.8	635.4
1316WG	22.0	573.3	524.2	471.4	775.1	455.9	658.9	890.9	1055.2	759.4	1026.7	606.5	542.7	770.2	669.6
1316WH	30.0	643.2	588.1	528.9	869.5	511.5	739.2	999.4	1183.8	851.9	1151.9	680.4	608.8	864.0	751.2
1316WI	37.0	686.8	628.0	564.7	928.6	546.2	789.4	1067.2	1264.2	909.8	1230.1	726.6	650.1	922.7	802.2
1316WJ	45.0	741.6	678.1	609.8	1002.7	589.8	852.4	1152.4	1365.1	982.4	1328.2	784.6	702.0	996.3	866.2
1316WK	55.0	797.6	729.3	655.8	1078.3	634.3	916.7	1239.4	1468.1	1056.5	1428.5	843.8	755.0	1071.5	931.6
1318WB	5.5	365.6	334.3	300.6	494.3	290.8	420.2	568.2	673.0	484.3	654.8	386.8	346.1	491.2	427.1
1318WC	7.5	407.8	372.9	335.3	551.3	324.3	468.7	633.7	750.6	540.2	730.4	431.4	386.0	547.9	476.3
1318WD	11.0	468.4	428.3	385.2	633.3	372.5	538.4	727.9	862.2	620.5	839.0	495.5	443.4	629.3	547.1
1318WE	15.0	526.3	481.3	432.8	711.6	418.6	604.9	817.9	968.8	697.2	942.6	556.8	498.2	707.1	614.8
1318WF	18.5	570.0	521.2	468.7	770.6	453.3	655.1	885.7	1049.1	755.0	1020.8	603.0	539.6	765.7	665.8
1318WG	22.0	599.4	548.1	492.9	810.4	476.7	688.9	931.4	1103.3	794.0	1073.5	634.1	567.4	805.2	700.1
1318WH	30.0	675.6	617.8	555.6	913.5	537.3	776.5	1049.9	1243.6	895.0	1210.1	714.7	639.6	907.7	789.2

EX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	90	90	90	78	80.6	82.4
Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0	28.0

TOWER MODEL EXS	kW	m3/hr													
1318WI	37.0	727.9	665.6	598.6	984.2	578.9	836.6	1131.2	1339.9	964.3	1303.7	770.1	689.1	978.0	850.3
1318WJ	45.0	757.1	692.3	622.6	1023.6	602.1	870.2	1176.5	1393.6	1002.9	1356.0	801.0	716.7	1017.2	884.4
1318WK	55.0	810.0	740.6	666.1	1095.1	644.2	931.0	1258.7	1490.9	1073.0	1450.7	856.9	766.8	1088.2	946.1
1320WB	5.5	386.5	353.4	317.8	522.5	307.4	444.2	600.6	711.4	511.9	692.2	408.9	365.9	519.2	451.4
1320WC	7.5	431.8	394.9	355.1	583.9	343.4	496.3	671.1	794.9	572.0	773.4	456.8	408.8	580.2	504.4
1320WD	11.0	493.5	451.2	405.8	667.2	392.5	567.2	766.9	908.4	653.7	883.9	522.1	467.2	663.0	576.4
1320WE	15.0	546.7	499.9	449.6	739.2	434.8	628.4	849.6	1006.3	724.2	979.2	578.4	517.5	734.5	638.6
1320WF	18.5	589.6	539.1	484.8	797.1	468.9	677.6	916.2	1085.2	781.0	1055.9	623.7	558.1	792.1	688.7
1320WG	22.0	608.5	556.4	500.4	822.7	483.9	699.4	945.6	1120.0	806.0	1089.8	643.7	576.0	817.5	710.8
1320WH	30.0	678.9	620.8	558.3	917.9	540.0	780.3	1055.0	1249.7	899.3	1216.0	718.2	642.7	912.1	793.0
1320WI	37.0	736.4	673.3	605.5	995.6	585.6	846.3	1144.3	1355.4	975.4	1318.8	779.0	697.1	989.3	860.1
1320WJ	45.0	791.2	723.4	650.6	1069.7	629.2	909.3	1229.5	1456.3	1048.1	1417.0	837.0	749.0	1062.9	924.2
1320WK	55.0	850.2	777.4	699.1	1149.5	676.2	977.2	1321.2	1565.0	1126.3	1522.8	899.5	804.9	1142.3	993.1
1409WB	5.5	270.3	247.1	222.2	365.4	214.9	310.6	420.0	497.5	358.0	484.0	285.9	255.8	363.1	315.7
1409WC	7.5	299.7	274.0	246.4	405.2	238.4	344.5	465.7	551.6	397.0	536.8	317.1	283.7	402.6	350.1
1409WD	11.0	335.6	306.8	275.9	453.7	266.9	385.7	521.5	617.7	444.5	601.0	355.0	317.7	450.8	392.0
1409WE	15.0	378.0	345.6	310.8	511.1	300.6	434.5	587.4	695.8	500.7	677.0	399.9	357.8	507.8	441.5
1409WF	18.5	397.2	363.2	326.6	537.1	315.9	456.6	617.3	731.2	526.2	711.5	420.2	376.0	533.7	464.0
1409WG	22.0	425.5	389.1	349.9	575.3	338.4	489.1	661.3	783.3	563.7	762.1	450.2	402.8	571.7	497.1
1409WH	30.0	475.7	434.9	391.1	643.1	378.3	546.7	739.1	875.5	630.1	851.9	503.2	450.3	639.0	555.6
1409WI	37.0	517.0	472.7	425.1	699.0	411.2	594.2	803.4	951.6	684.8	926.0	546.9	489.4	694.6	603.9
1409WJ	45.0	555.6	508.0	456.8	751.1	441.8	638.5	863.3	1022.6	735.9	995.0	587.7	525.9	746.4	648.9
1409WK	55.0	594.0	543.2	488.5	803.1	472.4	682.7	923.1	1093.4	786.9	1063.9	628.4	562.3	798.0	693.8
1412WB	5.5	352.5	322.3	289.9	476.6	280.4	405.2	547.8	648.9	467.0	631.4	372.9	333.7	473.6	411.8
1412WC	7.5	390.9	357.4	321.5	528.5	310.9	449.3	607.5	719.6	517.8	700.1	413.6	370.1	525.2	456.6
1412WD	11.0	444.3	406.2	365.3	600.7	353.3	510.6	690.4	817.7	588.5	795.7	470.0	420.6	596.9	518.9
1412WE	15.0	495.6	453.1	407.5	670.0	394.1	569.6	770.1	912.1	656.4	887.5	524.2	469.1	665.8	578.8
1412WF	18.5	537.4	491.4	441.9	726.5	427.4	617.6	835.1	989.1	711.8	962.4	568.5	508.7	722.0	627.7
1412WG	22.0	572.0	523.0	470.4	773.4	454.9	657.4	888.9	1052.9	757.7	1024.5	605.1	541.5	768.5	668.2
1412WH	30.0	637.1	582.5	523.9	861.4	506.7	732.2	990.0	1172.7	843.9	1141.1	674.0	603.1	855.9	744.2
1412WI	37.0	688.6	629.6	566.2	931.0	547.7	791.5	1070.1	1267.5	912.2	1233.3	728.5	651.9	925.1	804.3
1412WJ	45.0	737.9	674.7	606.7	997.6	586.8	848.0	1146.6	1358.1	977.4	1321.5	780.6	698.5	991.3	861.9
1412WK	55.0	786.5	719.2	646.8	1063.4	625.5	904.0	1222.2	1447.7	1041.9	1408.7	832.1	744.5	1056.7	918.7
1414WB	5.5	371.4	339.6	305.4	502.2	295.4	426.9	577.2	683.7	492.0	665.2	392.9	351.6	499.0	433.9
1414WC	7.5	411.9	376.6	338.7	556.9	327.6	473.4	640.1	758.2	545.6	737.7	435.7	389.9	553.4	481.1
1414WD	11.0	473.3	432.8	389.2	639.9	376.4	544.0	735.5	871.2	627.0	847.7	500.7	448.1	635.9	552.9
1414WE	15.0	524.7	479.8	431.5	709.4	417.3	603.1	815.4	965.8	695.1	939.8	555.1	496.7	705.0	612.9
1414WF	18.5	560.0	512.0	460.4	757.1	445.3	643.6	870.1	1030.7	741.7	1002.9	592.4	530.1	752.3	654.0
1414WG	22.0	595.2	544.2	489.4	804.7	473.3	684.0	924.9	1095.5	788.4	1065.9	629.6	563.4	799.6	695.2
1414WH	30.0	644.6	589.4	530.1	871.6	512.7	740.9	1001.7	1186.5	853.9	1154.5	682.0	610.2	866.0	753.0
1414WI	37.0	703.4	643.2	578.4	951.1	559.4	808.5	1093.1	1294.8	931.8	1259.9	744.2	665.9	945.0	821.6
1414WJ	45.0	761.3	696.1	626.0	1029.3	605.5	875.0	1183.1	1401.4	1008.5	1363.6	805.4	720.7	1022.8	889.3
1414WK	55.0	809.8	740.4	665.9	1094.8	644.0	930.7	1258.3	1490.5	1072.7	1450.3	856.7	766.6	1087.9	945.9
1414WL	75.0	897.7	820.8	738.1	1213.6	713.9	1031.7	1394.9	1652.3	1189.1	1607.7	949.6	849.7	1206.0	1048.5

EX-S SERIES QUICK SELECTION TABLE

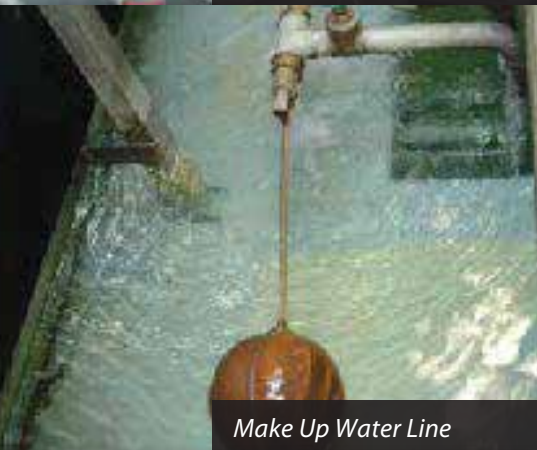
Deg F	HWT	97	97	97	100	102	102	105	107	107	110	112	95	98.6	98.6
	CWT	87	87	87	90	87	92	95	97	97	100	97	85	89.6	89.6
	WBT	80	81	82	80	80	85	85	85	90	90	90	78	80.6	82.4

Deg C	HWT	36.1	36.11	36.11	37.8	38.9	38.9	40.6	41.7	41.7	43.3	44.4	35.0	37.0	37.0
	CWT	30.6	30.56	30.56	32.2	30.6	33.3	35.0	36.1	36.1	37.8	36.1	29.4	32.0	32.0
	WBT	26.7	27.22	27.78	26.7	26.7	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0	28.0

TOWER MODEL EXS	kW	m3/hr													
1416WB	5.5	395.6	361.7	325.3	534.8	314.6	454.7	614.7	728.2	524.0	708.5	418.5	374.5	531.5	462.1
1416WC	7.5	438.7	401.1	360.7	593.1	348.9	504.2	681.7	807.5	581.1	785.7	464.1	415.3	589.4	512.4
1416WD	11.0	494.4	452.1	406.6	668.5	393.2	568.2	768.3	910.0	654.9	885.5	523.0	468.0	664.2	577.5
1416WE	15.0	536.6	490.6	441.2	725.5	426.7	616.7	833.8	987.7	710.8	961.0	567.7	507.9	720.9	626.8
1416WF	18.5	582.4	532.5	478.9	787.4	463.2	669.4	905.0	1072.0	771.5	1043.1	616.1	551.3	782.4	680.3
1416WG	22.0	621.0	567.9	510.7	839.7	493.9	713.8	965.1	1143.1	822.6	1112.3	657.0	587.9	834.3	725.4
1416WH	30.0	700.0	640.1	575.6	946.4	556.7	804.6	1087.8	1288.5	927.3	1253.7	740.6	662.7	940.5	817.7
1416WI	37.0	756.6	691.8	622.1	1022.9	601.7	869.5	1175.6	1392.5	1002.2	1355.0	800.4	716.2	1016.4	883.7
1416WJ	45.0	808.2	739.0	664.6	1092.7	642.7	928.9	1255.9	1487.6	1070.5	1447.4	855.0	765.0	1085.8	944.0
1416WK	55.0	868.7	794.3	714.3	1174.5	690.9	998.4	1349.9	1599.0	1150.7	1555.8	919.0	822.3	1167.1	1014.7
1416WL	75.0	964.0	881.4	792.7	1303.3	766.6	1107.9	1498.0	1774.4	1276.9	1726.5	1019.8	912.5	1295.1	1126.0
1418WB	5.5	410.6	375.4	337.6	555.1	326.5	471.9	638.0	755.8	543.9	735.4	434.4	388.7	551.6	479.6
1418WC	7.5	455.3	416.3	374.4	615.6	362.1	523.3	707.5	838.1	603.1	815.5	481.7	431.0	611.7	531.8
1418WD	11.0	509.8	466.1	419.2	689.3	405.4	585.9	792.2	938.4	675.3	913.0	539.3	482.6	684.9	595.5
1418WE	15.0	568.3	519.6	467.3	768.3	451.9	653.1	883.1	1046.0	752.7	1017.8	601.2	537.9	763.4	663.8
1418WF	18.5	615.0	562.3	505.7	831.5	489.1	706.8	955.7	1132.0	814.6	1101.5	650.6	582.2	826.2	718.3
1418WG	22.0	659.6	603.1	542.3	891.7	524.5	758.0	1024.9	1214.0	873.7	1181.3	697.7	624.4	886.1	770.4
1418WH	30.0	729.0	666.5	599.4	985.6	579.7	837.8	1132.8	1341.8	965.6	1305.6	771.2	690.1	979.3	851.5
1418WI	37.0	791.5	723.8	650.9	1070.2	629.5	909.7	1230.0	1457.0	1048.5	1417.6	837.4	749.3	1063.4	924.6
1418WJ	45.0	837.7	766.0	688.8	1132.6	666.2	962.8	1301.7	1541.9	1109.6	1500.3	886.2	793.0	1125.4	978.5
1418WK	55.0	898.3	821.4	738.7	1214.6	714.4	1032.5	1396.0	1653.5	1190.0	1608.9	950.3	850.4	1206.9	1049.3
1418WL	75.0	977.3	893.6	803.6	1321.3	777.3	1123.3	1518.7	1798.9	1294.6	1750.4	1033.9	925.2	1313.0	1141.5
1420WB	5.5	419.4	383.5	344.9	567.1	333.6	482.1	651.8	772.0	555.6	751.2	443.7	397.1	563.5	489.9
1420WC	7.5	465.1	425.3	382.5	628.9	369.9	534.6	722.8	856.1	616.1	833.0	492.1	440.3	624.9	543.3
1420WD	11.0	538.3	492.2	442.6	727.8	428.1	618.7	836.5	990.8	713.0	964.1	569.5	509.6	723.2	628.7
1420WE	15.0	598.2	547.0	491.9	808.8	475.8	687.6	929.6	1101.2	792.5	1071.5	632.9	566.3	803.7	698.8
1420WF	18.5	645.2	589.9	530.5	872.3	513.1	741.5	1002.6	1187.6	854.7	1155.6	682.6	610.8	866.8	753.6
1420WG	22.0	689.8	630.7	567.2	932.6	548.6	792.8	1071.9	1269.6	913.7	1235.4	729.7	652.9	926.7	805.7
1420WH	30.0	749.6	685.4	616.4	1013.5	596.2	861.5	1164.8	1379.8	992.9	1342.5	793.0	709.6	1007.1	875.6
1420WI	37.0	792.1	724.3	651.3	1070.9	630.0	910.4	1230.9	1458.0	1049.3	1418.7	838.0	749.8	1064.2	925.2
1420WJ	45.0	864.8	790.8	711.1	1169.3	687.8	994.0	1343.9	1591.8	1145.6	1548.9	914.9	818.7	1161.9	1010.2
1420WK	55.0	924.1	845.0	759.9	1249.4	734.9	1062.1	1436.0	1700.9	1224.1	1655.0	977.6	874.8	1241.5	1079.4
1420WL	75.0	1035.2	946.6	851.2	1399.6	823.3	1189.8	1608.7	1905.5	1371.3	1854.1	1095.2	980.0	1390.8	1209.2



Gear Reducer Drive System



Make Up Water Line



1.0 GENERAL

The cooling tower shall be induced-draft vertical discharge type, crossflow, rectangular, film filled, FRP Cooling Tower. It shall be designed with high efficiency drift eliminators to meet current environmental standards and guidelines for microbial control.

2.0 CAPACITY

Cooling Tower shall be capable of providing the thermal performance scheduled.

3.0 PERFORMANCE WARRANTY

The rated capacity shall be certified by the Cooling Tower Institute (CTI). The cooling tower manufacturer shall guarantee that the tower supplied will meet the specified performance conditions when the tower is installed according to plans.

4.0 CONSTRUCTION

The cooling tower main frame structure shall be hot dip galvanized steel (HDG). The casing shall be made from Fibre Reinforced Plastic (FRP).

5.0 MECHANICAL EQUIPMENT

- 5.1 Fan(s) shall be propeller-type, incorporating heavy-duty blades of aluminum alloy. Blades shall be individually adjustable.
- 5.2 The V-belts shall be of rubber with fabric impregnated able to withstand the adverse ambient conditions of 50°C and 100% R.H. The pulleys shall be cast iron with the grooves of standard dimensions. The entire V-belt & pulley set must be fully enclosed in a FRP molded case to protect the v-belts from in contact with the humid discharge air.
- 5.3 Motor(s) shall be TEFC, weatherproof sq. caged induction type suitable for 3ph/50Hz/415V power supply and with 1450rpm.

6.0 FILLS, LOUVERS AND DRIFT ELIMINATORS

- 6.1 Fill shall be high efficiency film-type, rigid, corrugated PVC sheets with integral louver and drift eliminator that are conducive to cooling tower and UV protected.
- 6.2 Fills shall be resistance to rot, decay and biological attack with maximum flame-spread rating of 25 according to ASTM E84. Fill sheets shall be hanging type with structural tubing supported from the upper tower structure.
- 6.3 Drift eliminators shall be efficient enough to effectively limit drift loss to 0.005% of the designed flow rate.

7.0 HOT WATER DISTRIBUTION SYSTEM

An open basin above the fill bank shall receive hot water piped to each cell of the tower. Water shall enter the basin through a removable splash box. Removable and replaceable polypropylene nozzles installed in the floor of the basin shall provide full coverage of the fill by gravity flow.

8.0 COLD WATER BASIN

The cold water basin shall be of FRP and supported on HDG steel framework. The basin shall be designed with sufficient water capacity to avoid air entrainment in the outlet during operating conditions. The basin shall be equipped with suction strainer, make-up ball valve, overflow and drain. For multiple tower arrangement, equalizing pipes between basins shall be provided to maintain the same level of water in each basin.

9.0 ACCESS AND SAFETY

Ladder shall be provided for inspection & maintenance purposes. HDG steel fan guard shall be provided over each fan cylinder.



Belt & Pulley Drive System



Inlet Louver

...providing solution to your cooling needs



Member



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