

VX-S

PACKAGED COOLING TOWER
SINGLE-CELL UP TO 650HRT COOLING CAPACITY

TRUWATER[®]

High Performance Crossflow Type



ISO14001
CERTIFIED

ISO9001
CERTIFIED

CTI
CERTIFIED

SINGAPORE
GREEN
BUILDING
PRODUCT
SGBC
EXCELLENT

ENERGY SAVING SUPER LOW NOISE



INTRODUCTION

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

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

VX-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

Space Saving & Light Weight

Incorporation the high performance fill, the installation space and operating weight are greatly reduced.

Energy Saving

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

Low Noise Level

The noise level is lowered by the specifically designed low noise fan.

Proven Corrosion Protection

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

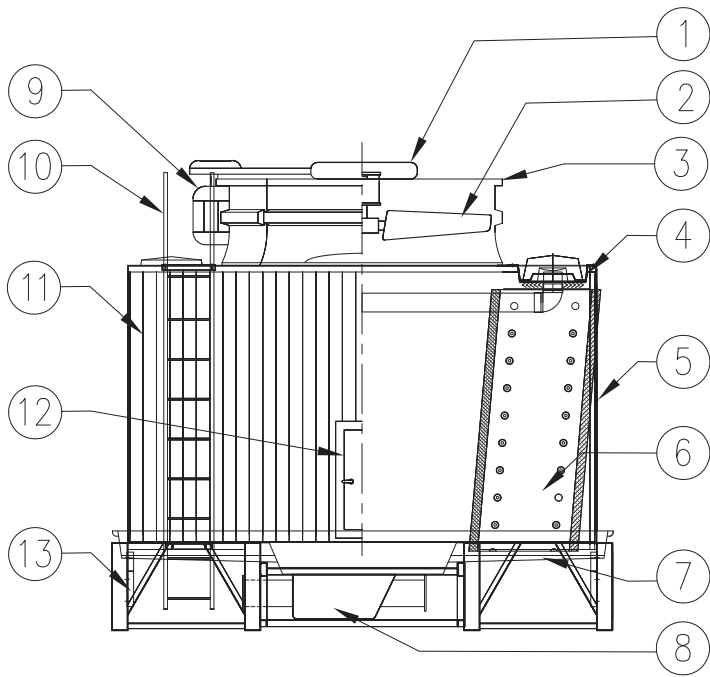
Puteri Harbour, Johor



Pixel Red, Singapore

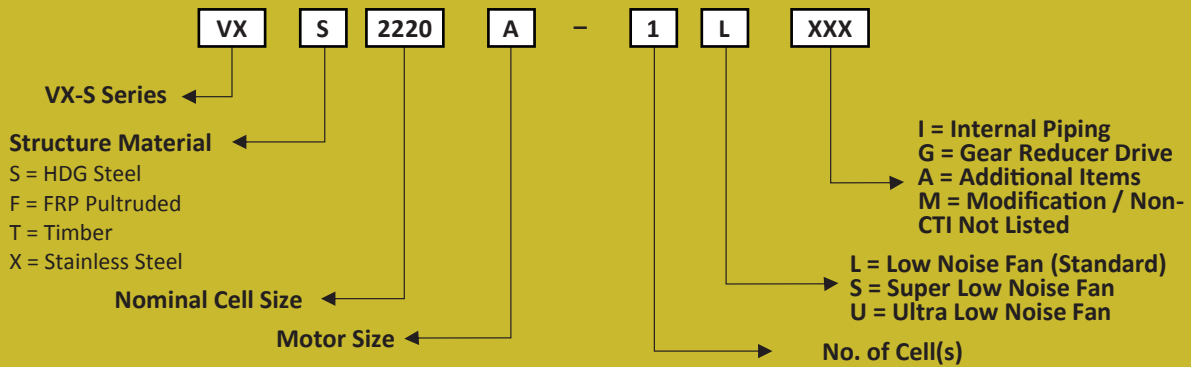


FEATURES



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

Example of Model Definition



Index Rama 2, Thailand

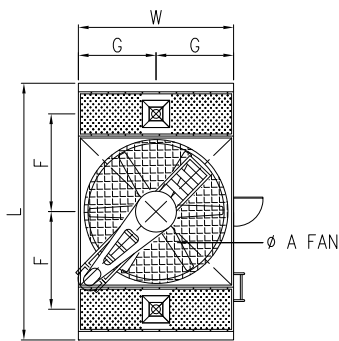


Gaysorn, Thailand

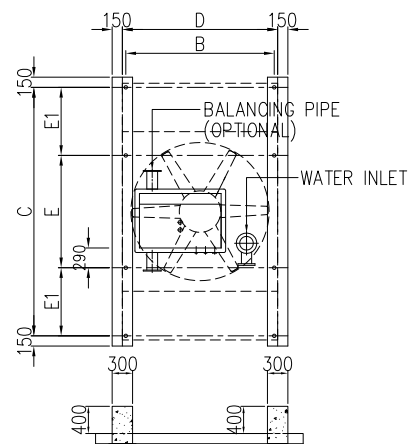


OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

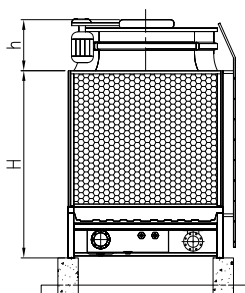
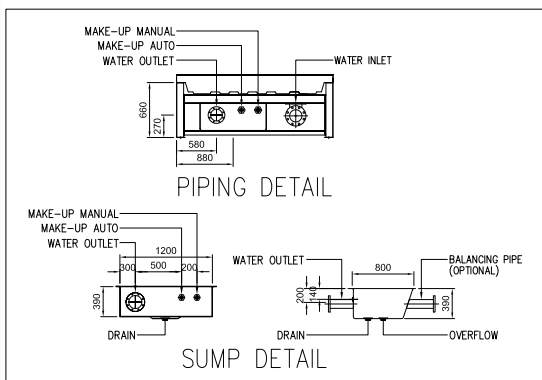
2220X **2227X**
2220Y **2227Y**
2220Z **2227Z**
2220A **2227A**
2220B **2227B**
2220C **2227C**
2220D **2227D**



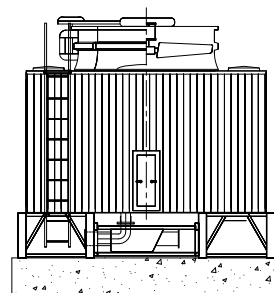
PLAN VIEW



RC FOUNDATION DETAIL



FRONT VIEW



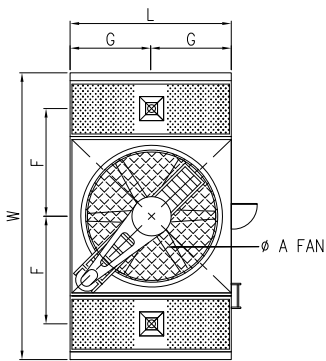
SIDE VIEW

NOTE : ALL DIMENSION IN MM.

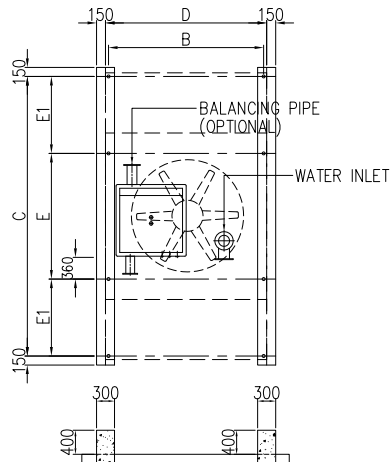
VX-S SERIES RANGE

Tower Model VXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h	Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
2220X	2280	3770	2750	750	1.5	3.3	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	2000	450	Four (4) to Six (6)	V-Belt and Pulley
2220Y					2.2	4.7			2000	450		
2220Z					3.0	6.1			2000	450		
2220A					4.0	8.1			2000	450		
2220B					5.5	11			2000	450		
2220C					7.5	13.6			2000	450		
2220D					11.0	20.1			2000	450		
2227X					1.5	3.3			2000	450		
2227Y	2.2	4.7	2000	450								
2227Z	3.0	6.1	2000	450								
2227A	4.0	8.1	2000	450								
2227B	5.5	11	2000	450								
2227C	7.5	13.6	2000	450								
2227D	11.0	20.1	2000	450								
2620X	2680	4770	3050	1000	1.5	3.3			2135	425		
2620Y					2.2	4.7			2135	425		
2620Z					3.0	6.1			2135	425		
2620A					4.0	8.1			2135	425		
2620B					5.5	11			2135	425		
2620C					7.5	13.6			2135	425		
2620D					11.0	20.1			2135	425		
2620E					15.0	26.7			2135	425		
2625X	2680	4770	3480	1000	1.5	3.3			2135	425		
2625Y					2.2	4.7			2135	425		
2625Z					3.0	6.1	2135	425				
2625A					4.0	8.1	2135	425				
2625B					5.5	11	2135	425				
2625C					7.5	13.6	2135	425				
2625D					11.0	20.1	2135	425				
2625E					15.0	26.7	2135	425				
2630X	2680	4770	3880	1000	1.5	3.3	2135	425				
2630Y					2.2	4.7	2135	425				
2630Z					3.0	6.1	2135	425				
2630A					4.0	8.1	2135	425				
2630B					5.5	11	2135	425				
2630C					7.5	13.6	2135	425				
2630D					11.0	20.1	2135	425				
2630E					15.0	26.7	2135	425				

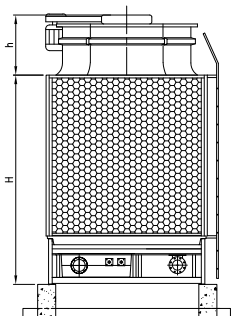
OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)



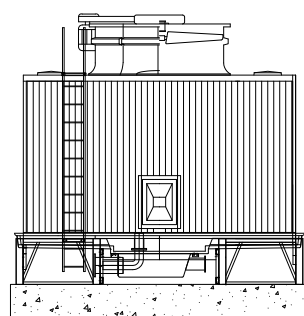
PLAN VIEW



RC FOUNDATION DETAIL

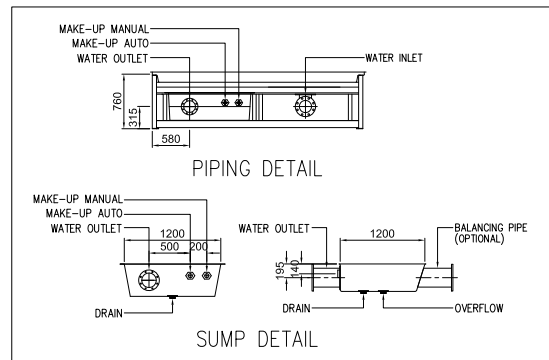


FRONT VIEW



SIDE VIEW

- | | | |
|-------|-------|-------|
| 2620X | 2625X | 2630X |
| 2620Y | 2625Y | 2630Y |
| 2620Z | 2625Z | 2630Z |
| 2620A | 2625A | 2630A |
| 2620B | 2625B | 2630B |
| 2620C | 2625C | 2630C |
| 2620D | 2625D | 2630D |
| 2620E | 2625E | 2630E |



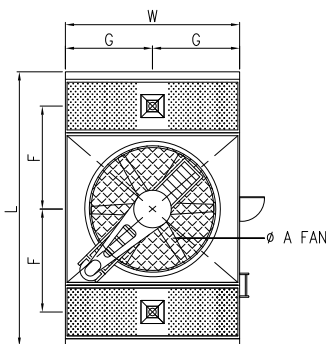
NOTE : ALL DIMENSION IN MM.

VX-S SERIES RANGE

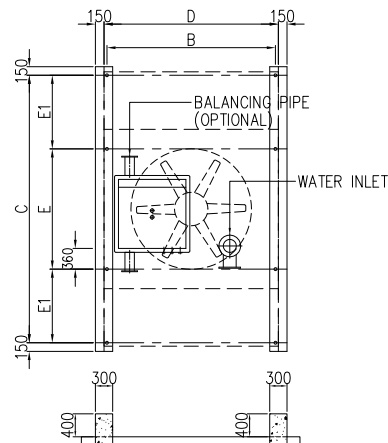
Tower Model VXs	ANCHOR BOLTS DATA					PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	E1	F	G	J	External Piping	Internal Piping	Water Outlet	Overflow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
2220X	2180	3650	2280	1650	1000	1435	1140	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1146	3087
2220Y								-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1152	3110
2220Z								-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1156	3133
2220A								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1165	3161
2220B								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1180	3191
2220C								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1190	3220
2220D	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1232	3292							
2227X	2180	3650	2280	1650	1000	1435	1140	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	1737	3826
2227Y								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1743	3860
2227Z								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	1747	3888
2227A								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1756	3921
2227B								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1771	3963
2227C								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	1784	4004
2227D	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	1826	4081							
2620X	2580	4650	2680	2090	1280	1790	1340	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	2133	4932
2620Y								-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	2139	4961
2620Z								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	2143	4991
2620A								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2152	5023
2620B								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2167	5063
2620C								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2180	5101
2620D	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2222	5179							
2620E	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2242	5236							
2625X	2580	4650	2680	2090	1280	1790	1340	-	100 x 2	125 x 1	125 x 1	50 x 1	50 x 1	25 x 1	2268	5213
2625Y								-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	2274	5257
2625Z								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2278	5291
2625A								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2287	5331
2625B								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2302	5382
2625C								-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2315	5428
2625D	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2357	5517							
2625E	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2377	5576							
2630X	2580	4650	2680	2090	1280	1790	1340	-	100 x 2	125 x 1	150 x 1	50 x 1	50 x 1	25 x 1	2399	5495
2630Y								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2405	5547
2630Z								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2409	5594
2630A								-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2418	5641
2630B								-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2433	5692
2630C								-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2446	5750
2630D	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2488	5849							
2630E	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2508	5917							

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

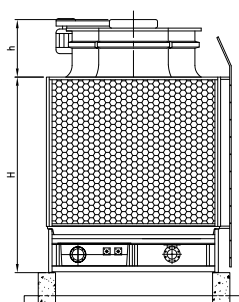
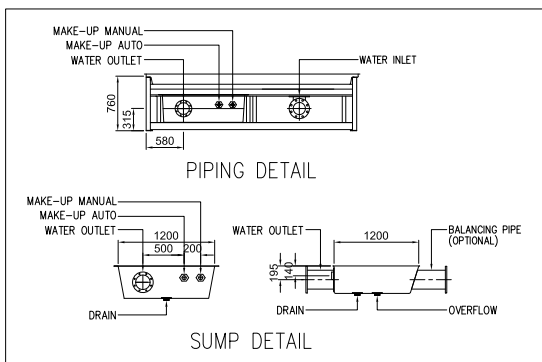
3025A	3030A	3035A
3025B	3030B	3035B
3025C	3030C	3035C
3025D	3030D	3035D
3025E	3030E	3035E
3025F	3030F	3035F



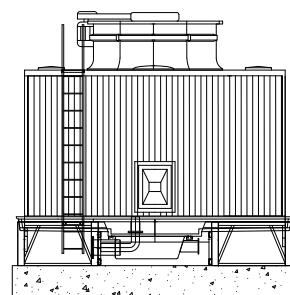
PLAN VIEW



RC FOUNDATION DETAIL



FRONT VIEW



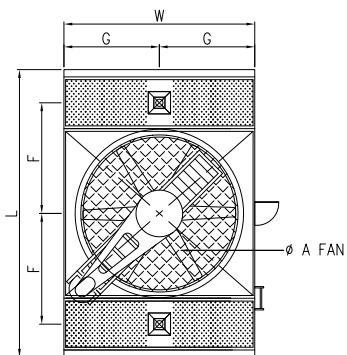
SIDE VIEW

NOTE : ALL DIMENSION IN MM.

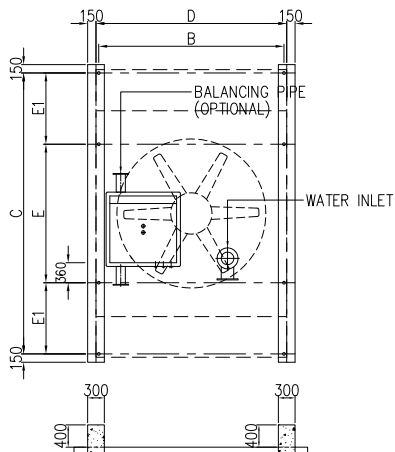
VX-S SERIES RANGE

Tower Model VXS	OVERALL DIMENSION				MOTOR				AXIAL FLOW FAN			
	L	W	H	h	Output (kW)	Current at 415V (AMP)	Type	Power Source	A	Fan Speed (RPM)	No of blades	Drive System
3025A	3030	4770	3480	1000	4.0	8.1	TEFC, outdoor, 3 phase, induction motor, 4 pole	3ph / 380V / 50Hz or 3ph / 415V / 50Hz	2440	400	Four (4) to Six (6)	V-Belt and Pulley
3025B					5.5	11			2440	400		
3025C					7.5	13.6			2440	400		
3025D					11.0	20.1			2440	400		
3025E					15.0	26.7			2440	400		
3025F					18.5	33.2			2440	400		
3030A	3030	4770	3880	1000	4.0	8.1			2440	400		
3030B					5.5	11			2440	400		
3030C					7.5	13.6			2440	400		
3030D					11.0	20.1			2440	400		
3030E					15.0	26.7			2440	400		
3030F					18.5	33.2			2440	400		
3035A	3030	4770	4480	1000	4.0	8.1			2440	400		
3035B					5.5	11			2440	400		
3035C					7.5	13.6			2440	400		
3035D					11.0	20.1			2440	400		
3035E					15.0	26.7			2440	400		
3035F					18.5	33.2			2440	400		
3425A	3430	5170	3480	1000	4.0	8.1			2745	380		
3425B					5.5	11			2745	380		
3425C					7.5	13.6			2745	380		
3425D					11.0	20.1			2745	385		
3425E					15.0	26.7			2745	385		
3425F					18.5	33.2			2745	400		
3430A	3430	5170	3880	1000	4.0	8.1	2745	380				
3430B					5.5	11	2745	380				
3430C					7.5	13.6	2745	380				
3430D					11.0	20.1	2745	385				
3430E					15.0	26.7	2745	385				
3430F					18.5	33.2	2745	400				
3435A	3430	5170	4480	1000	4.0	8.1	2745	380				
3435B					5.5	11	2745	380				
3435C					7.5	13.6	2745	380				
3435D					11.0	20.1	2745	385				
3435E					15.0	26.7	2745	385				
3435F					18.5	33.2	2745	400				

OUTLINE AND FOUNDATION DRAWINGS (SINGLE CELL)

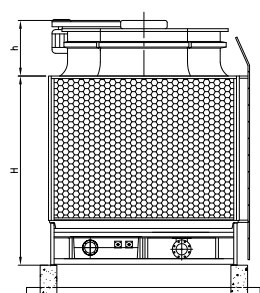


PLAN VIEW

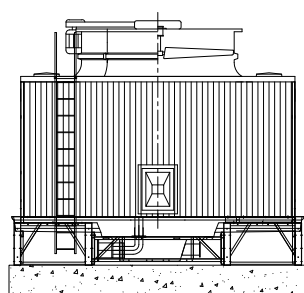


RC FOUNDATION DETAIL

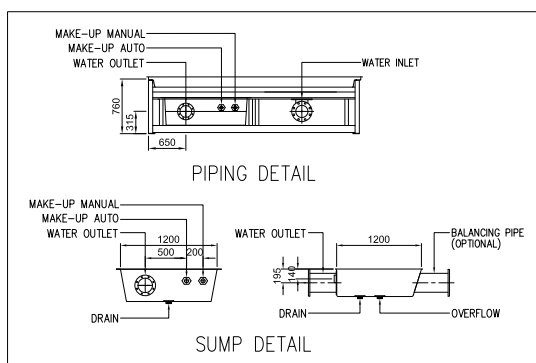
3425A	3430A	3435A
3425B	3430B	3435B
3425C	3430C	3435C
3425D	3430D	3435D
3425E	3430E	3435E
3425F	3430F	3435F



FRONT VIEW



SIDE VIEW



NOTE : ALL DIMENSION IN MM.

VX-S SERIES RANGE

Tower Model VX S	ANCHOR BOLTS DATA					PIPING DATA			PIPING SIZE						WEIGHT (KG)	
	B	C	D	E	E1	F	G	J	External Piping	Internal Piping	Water Outlet	Overflow	Drain	Make up Auto & Manual	Dry Weight	Oper. Weight
3025A	2930	4650	3030	2090	1280	1790	1515	-	125 x 2	150 x 1	200 x 1	50 x 1	50 x 1	50 x 1	2647	5961
3025B								-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2651	6311
3025C								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2664	6366
3025D								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2706	6460
3025E								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2726	6526
3025F								-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2766	6597
3030A	2930	4650	3030	2090	1280	1790	1515	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2789	6672
3030B								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2793	6726
3030C								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2806	6799
3030D								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2848	6898
3030E								-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2868	6956
3030F								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	2908	7028
3035A	2930	4650	3030	2090	1280	1790	1515	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2931	6762
3035B								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2935	6818
3035C								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2948	6881
3035D								-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2990	6983
3035E								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3010	7060
3035F								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3050	7138
3425A	3330	5050	3430	2490	1280	1990	1715	-	125 x 2	200 x 1	250 x 1	50 x 1	50 x 1	50 x 1	2940	6994
3425B								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2944	7044
3425C								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2957	7116
3425D								-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	2970	7207
3425E								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3130	7437
3425F								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3170	7524
3430A	3330	5050	3430	2490	1280	1990	1715	-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	3204	7816
3430B								-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	3221	7887
3430C								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3263	8006
3430D								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3283	8082
3430E								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3323	8167
3430F								-	150 x 2	200 x 1	250 x 1	80 x 1	50 x 1	50 x 1	3356	8178
3435A	3330	5050	3430	2490	1280	1990	1715	-	150 x 2	250 x 1	250 x 1	80 x 1	50 x 1	50 x 1	3373	8306
3435B								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3415	8439
3435C								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3435	8539
3435D								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3475	8633
3435E								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3475	8633
3435F								-	200 x 2	250 x 1	250 x 1	80 x 1	80 x 1	50 x 1	3475	8633

VX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97.0	97	100	102	102	105.0	107	107	110.0	112.0	95.0	98.6	98.6
	CWT	87.0	87.0	87	90	87	92.0	95	97	97.0	100.0	97.0	85	89.6	89.6
	WBT	80.00	81.00	82.00	80.00	80.00	85.00	85.00	85.00	90.00	90.00	90.00	78.00	80.60	82.40

Deg C	HWT	36.1	36.1	36.1	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	30.6	30.6	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	27.2	27.8	26.7	26.7	29.4	29.4	29.4	32.2	32.2	32.2	25.6	27.0	28.0

TOWER MODEL VXs	Motor kW	m3/hr													
2220X	1.5	86.4	79.0	71.1	116.9	68.7	99.3	134.3	159.1	114.5	154.8	91.4	81.8	116.1	101.0
2220Y	2.2	97.1	88.8	79.8	131.3	77.2	111.6	150.9	178.7	128.6	173.9	102.7	91.9	130.4	113.4
2220Z	3.0	108.9	99.6	89.6	147.3	86.6	125.2	169.3	200.5	144.3	195.1	115.2	103.1	146.4	127.2
2220A	4.0	120.8	110.4	99.3	163.3	96.1	138.8	187.7	222.3	160.0	216.3	127.8	114.3	162.3	141.1
2220B	5.5	133.8	122.3	110.0	180.9	106.4	153.8	207.9	246.3	177.2	239.6	141.6	126.7	179.8	156.3
2220C	7.5	148.0	135.3	121.7	200.1	117.7	170.1	230.0	272.4	196.1	265.1	156.6	140.1	198.9	172.9
2220D	11.0	170.5	155.9	140.2	230.5	135.6	196.0	265.0	313.9	225.9	305.4	180.4	161.4	229.1	199.2
2227X	1.5	195.4	178.6	160.7	264.2	155.4	224.6	303.6	359.6	258.8	349.9	206.7	185.0	262.5	228.2
2227Y	2.2	97.1	88.8	79.8	131.3	77.2	111.6	150.9	178.7	128.6	173.9	102.7	91.9	130.4	113.4
2227Z	3.0	111.3	101.8	91.5	150.5	88.5	127.9	173.0	204.9	147.4	199.4	117.8	105.4	149.5	130.0
2227A	4.0	124.3	113.7	102.2	168.1	98.9	142.9	193.2	228.9	164.7	222.7	131.5	117.7	167.0	145.2
2227B	5.5	137.4	125.6	112.9	185.7	109.2	157.9	213.4	252.8	181.9	246.0	145.3	130.0	184.5	160.4
2227C	7.5	153.9	140.8	126.6	208.1	122.4	176.9	239.2	283.3	203.9	275.7	162.8	145.7	206.8	179.8
2227D	11.0	170.5	155.9	140.2	230.5	135.6	196.0	265.0	313.9	225.9	305.4	180.4	161.4	229.1	199.2
2620X	1.5	195.4	178.6	160.7	264.2	155.4	224.6	303.6	359.6	258.8	349.9	206.7	185.0	262.5	228.2
2620Y	2.2	216.7	198.1	178.2	293.0	172.3	249.1	336.7	398.9	287.0	388.1	229.2	205.1	291.1	253.1
2620Z	3.0	105.4	96.4	86.7	142.5	83.8	121.1	163.8	194.0	139.6	188.7	111.5	99.8	141.6	123.1
2620A	4.0	120.8	110.4	99.3	163.3	96.1	138.8	187.7	222.3	160.0	216.3	127.8	114.3	162.3	141.1
2620B	5.5	136.2	124.5	112.0	184.1	108.3	156.5	211.6	250.6	180.4	243.9	144.1	128.9	182.9	159.1
2620C	7.5	150.4	137.5	123.7	203.3	119.6	172.8	233.7	276.8	199.2	269.3	159.1	142.4	202.0	175.7
2620D	11.0	164.6	150.5	135.3	222.5	130.9	189.2	255.8	303.0	218.0	294.8	174.1	155.8	221.1	192.3
2620E	15.0	184.7	168.9	151.9	249.7	146.9	212.3	287.0	340.0	244.7	330.8	195.4	174.9	248.2	215.8
2625X	1.5	210.8	192.7	173.3	285.0	167.6	242.2	327.5	388.0	279.2	377.5	223.0	199.5	283.2	246.2
2625Y	2.2	233.3	213.3	191.8	315.4	185.5	268.1	362.5	429.4	309.0	417.8	246.8	220.8	313.4	272.5
2625Z	3.0	159.9	146.2	131.4	216.1	127.1	183.7	248.4	294.2	211.8	286.3	169.1	151.3	214.8	186.7
2625A	4.0	177.6	162.4	146.1	240.1	141.3	204.1	276.0	326.9	235.3	318.1	187.9	168.1	238.6	207.5
2625B	5.5	197.7	180.8	162.6	267.4	157.3	227.3	307.3	364.0	261.9	354.2	209.2	187.2	265.7	231.0
2625C	7.5	223.8	204.6	184.0	302.6	178.0	257.2	347.8	411.9	296.5	400.8	236.8	211.9	300.7	261.4
2625D	11.0	243.9	223.0	200.6	329.8	194.0	280.4	379.1	449.0	323.1	436.9	258.1	230.9	327.7	284.9
2625E	15.0	265.2	242.5	218.1	358.6	210.9	304.8	412.2	488.2	351.3	475.0	280.6	251.1	356.3	309.8
2630X	1.5	177.6	162.4	146.1	240.1	141.3	204.1	276.0	326.9	235.3	318.1	187.9	168.1	238.6	207.5
2630Y	2.2	197.7	180.8	162.6	267.4	157.3	227.3	307.3	364.0	261.9	354.2	209.2	187.2	265.7	231.0
2630Z	3.0	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
2630A	4.0	247.5	226.3	203.5	334.6	196.8	284.4	384.6	455.5	327.8	443.2	261.8	234.3	332.5	289.1
2630B	5.5	275.9	252.3	226.9	373.0	219.4	317.1	428.7	507.8	365.5	494.1	291.9	261.2	370.7	322.3
2630C	7.5	296.0	270.7	243.4	400.2	235.4	340.2	460.0	544.9	392.1	530.2	313.2	280.2	397.7	345.8
2630D	11.0	190.6	174.3	156.8	257.8	151.6	219.1	296.2	350.9	252.5	341.4	201.7	180.5	256.1	222.7
2630E	15.0	210.8	192.7	173.3	285.0	167.6	242.2	327.5	388.0	279.2	377.5	223.0	199.5	283.2	246.2

VX-S SERIES QUICK SELECTION TABLE

Deg F	HWT	97	97.0	97	100	102	102	105.0	107	107	110.0	112.0	95.0	98.6	98.6
	CWT	87.0	87.0	87	90	87	92.0	95	97	97.0	100.0	97.0	85	89.6	89.6
	WBT	80.00	81.00	82.00	80.00	80.00	85.00	85.00	85.00	90.00	90.00	90.00	78.00	80.60	82.40
Deg C	HWT	36.1	36.1	36.1	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	30.6	30.6	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	27.2	27.8	26.7	26.7	29.4	29.4	29.4	29.4	32.2	32.2	25.6	27.0	28.0

TOWER MODEL VXS	Motor kW	m3/hr													
3025A	4.0	234.5	214.4	192.8	317.0	186.5	269.5	364.3	431.6	310.6	419.9	248.0	221.9	315.0	273.9
3025B	5.5	266.4	243.6	219.1	360.2	211.9	306.2	414.0	490.4	352.9	477.2	281.9	252.2	357.9	311.2
3025C	7.5	298.4	272.8	245.4	403.4	237.3	343.0	463.7	549.2	395.3	534.4	315.7	282.5	400.9	348.5
3025D	11.0	320.9	293.4	263.9	433.9	255.2	368.8	498.7	590.7	425.1	574.7	339.5	303.8	431.1	374.8
3025E	15.0	182.4	166.7	149.9	246.5	145.0	209.6	283.4	335.7	241.6	326.6	192.9	172.6	245.0	213.0
3025F	18.5	202.5	185.1	166.5	273.8	161.0	232.7	314.6	372.7	268.2	362.6	214.2	191.7	272.0	236.5
3030A	4.0	226.2	206.8	186.0	305.8	179.9	259.9	351.5	416.3	299.6	405.1	239.3	214.1	303.8	264.2
3030B	5.5	258.1	236.0	212.3	349.0	205.3	296.7	401.1	475.1	341.9	462.3	273.1	244.4	346.8	301.5
3030C	7.5	287.7	263.1	236.6	389.0	228.8	330.7	447.1	529.6	381.2	515.3	304.4	272.4	386.6	336.1
3030D	11.0	310.2	283.7	255.1	419.4	246.7	356.6	482.1	571.0	411.0	555.6	328.2	293.7	416.8	362.4
3030E	15.0	206.0	188.4	169.4	278.6	163.9	236.8	320.2	379.2	272.9	369.0	218.0	195.0	276.8	240.7
3030F	18.5	229.7	210.0	188.9	310.6	182.7	264.0	357.0	422.8	304.3	411.4	243.0	217.5	308.6	268.3
3035A	4.0	255.8	233.9	210.3	345.8	203.4	294.0	397.5	470.8	338.8	458.1	270.6	242.1	343.6	298.7
3035B	5.5	292.5	267.4	240.5	395.4	232.6	336.2	454.5	538.3	387.4	523.8	309.4	276.9	392.9	341.6
3035C	7.5	320.9	293.4	263.9	433.9	255.2	368.8	498.7	590.7	425.1	574.7	339.5	303.8	431.1	374.8
3035D	11.0	344.6	315.1	283.3	465.9	274.0	396.0	535.5	634.2	456.4	617.1	364.5	326.2	462.9	402.5
3035E	15.0	222.6	203.5	183.1	301.0	177.0	255.9	345.9	409.8	294.9	398.7	235.5	210.7	299.1	260.0
3035F	18.5	247.5	226.3	203.5	334.6	196.8	284.4	384.6	455.5	327.8	443.2	261.8	234.3	332.5	289.1
3425A	4.0	275.9	252.3	226.9	373.0	219.4	317.1	428.7	507.8	365.5	494.1	291.9	261.2	370.7	322.3
3425B	5.5	313.8	286.9	258.0	424.3	249.6	360.6	487.6	577.6	415.7	562.0	332.0	297.0	421.6	366.5
3425C	7.5	350.5	320.5	288.2	473.9	278.7	402.8	544.7	645.1	464.3	627.7	370.8	331.8	470.9	409.4
3425D	11.0	376.6	344.3	309.6	509.1	299.5	432.8	585.1	693.1	498.8	674.4	398.4	356.5	505.9	439.8
3425E	15.0	287.7	263.1	236.6	389.0	228.8	330.7	447.1	529.6	381.2	515.3	304.4	272.4	386.6	336.1
3425F	18.5	310.2	283.7	255.1	419.4	246.7	356.6	482.1	571.0	411.0	555.6	328.2	293.7	416.8	362.4
3430A	4.0	206.0	188.4	169.4	278.6	163.9	236.8	320.2	379.2	272.9	369.0	218.0	195.0	276.8	240.7
3430B	5.5	229.7	210.0	188.9	310.6	182.7	264.0	357.0	422.8	304.3	411.4	243.0	217.5	308.6	268.3
3430C	7.5	255.8	233.9	210.3	345.8	203.4	294.0	397.5	470.8	338.8	458.1	270.6	242.1	343.6	298.7
3430D	11.0	292.5	267.4	240.5	395.4	232.6	336.2	454.5	538.3	387.4	523.8	309.4	276.9	392.9	341.6
3430E	15.0	320.9	293.4	263.9	433.9	255.2	368.8	498.7	590.7	425.1	574.7	339.5	303.8	431.1	374.8
3430F	18.5	344.6	315.1	283.3	465.9	274.0	396.0	535.5	634.2	456.4	617.1	364.5	326.2	462.9	402.5
3435A	4.0	222.6	203.5	183.1	301.0	177.0	255.9	345.9	409.8	294.9	398.7	235.5	210.7	299.1	260.0
3435B	5.5	247.5	226.3	203.5	334.6	196.8	284.4	384.6	455.5	327.8	443.2	261.8	234.3	332.5	289.1
3435C	7.5	275.9	252.3	226.9	373.0	219.4	317.1	428.7	507.8	365.5	494.1	291.9	261.2	370.7	322.3
3435D	11.0	313.8	286.9	258.0	424.3	249.6	360.6	487.6	577.6	415.7	562.0	332.0	297.0	421.6	366.5
3435E	15.0	350.5	320.5	288.2	473.9	278.7	402.8	544.7	645.1	464.3	627.7	370.8	331.8	470.9	409.4
3435F	18.5	376.6	344.3	309.6	509.1	299.5	432.8	585.1	693.1	498.8	674.4	398.4	356.5	505.9	439.8



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 and 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 5 according to ASTM E84. Fill module shall be solvent bonded supported from the bottom supporting beam. Hanging fill with structural tubing supported from the upper tower structure shall not be allowed.
- 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 and maintenance purposes. HDG steel fan guard shall be provided over each fan cylinder.



Belt & Pulley Drive System



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