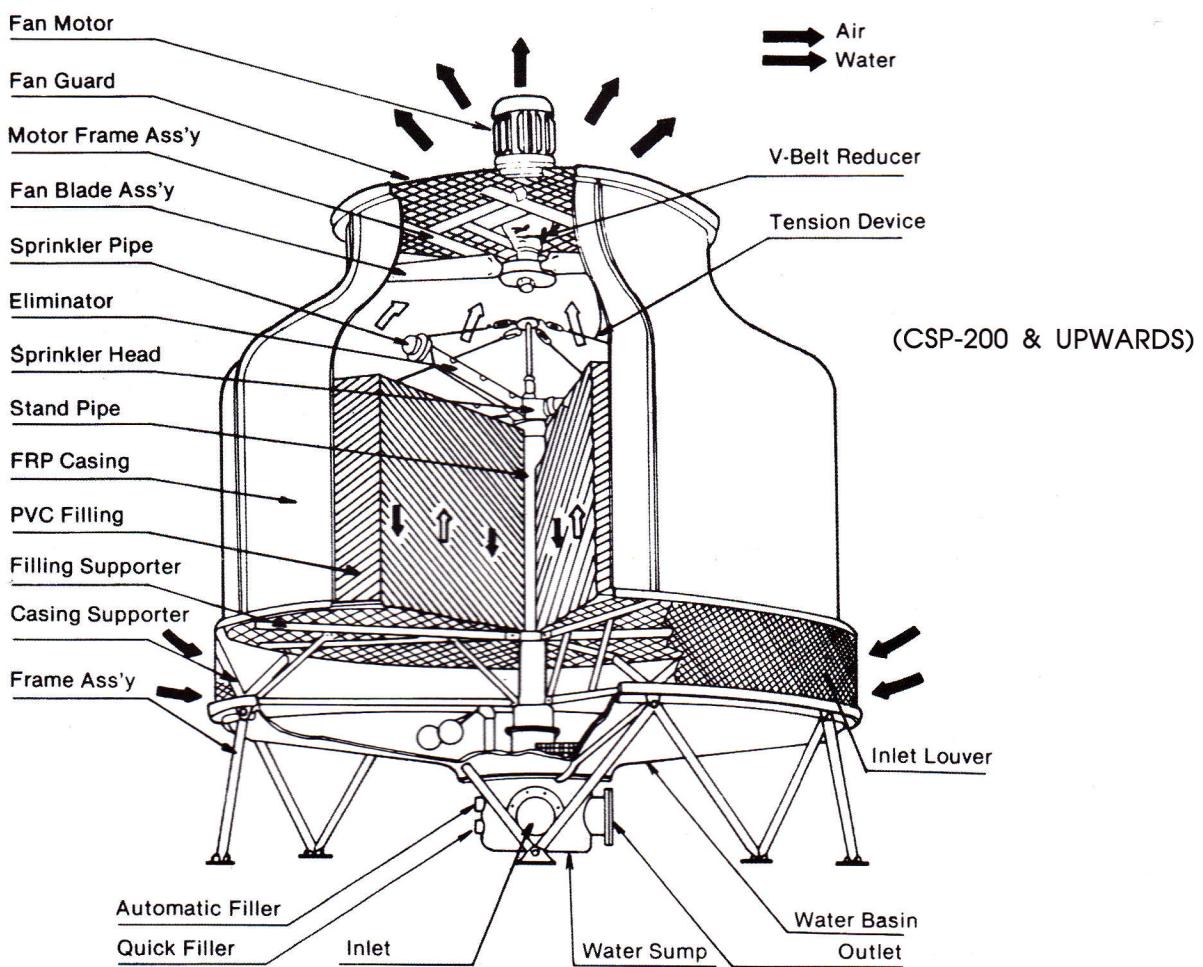


CONSTRUCTION AND INSTALLATION DATA**MATERIAL SPECIFICATION**

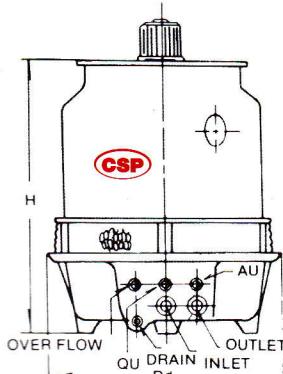
MODEL CSP	0	10	15	20	25	30	40	50	60	70	80	100	125	150	175	200	225	250	300	350	400	500	600	700	800	1000	1500											
MOTOR	220/380V, 3Ph. 50/60 Hz (others available)																																					
FAN DRIVE	DIRECT DRIVE												GEAR SPEED REDUCER DRIVE OR BELT DRIVE																									
FAN BLADE	SVS												ALUMINIUM ALLOY																									
CASING	GLASS FIBRE REINFORCED PLASTIC																																					
SPRINKLER HEAD	SPECIAL ALUMINIUM ALLOY WITH STAINLESS STEEL SHAFT																																					
ELIMINATOR	NONE												GLASS FIBRE REINFORCED PLASTIC																									
FILLER	PVC																																					
AIR INLET MESH	PVC																																					
LADDER	NONE												HDGS																									
MOTOR SUPPORT	HDGS																																					
CASING SUPPORT	GLASS FIBRE REINFORCED PLASTIC												HDGS																									
BASIN SUPPORT	GLASS FIBRE REINFORCED PLASTIC												HDGS																									
STRAINER	STAINLESS STEEL MESH OR PVC MESH																																					
WATER BASIN	GLASS FIBRE REINFORCED PLASTIC																																					

HDGS : HOT DIPPED GALVANIZED STEEL

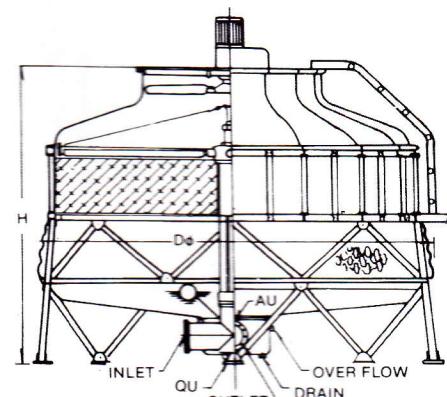
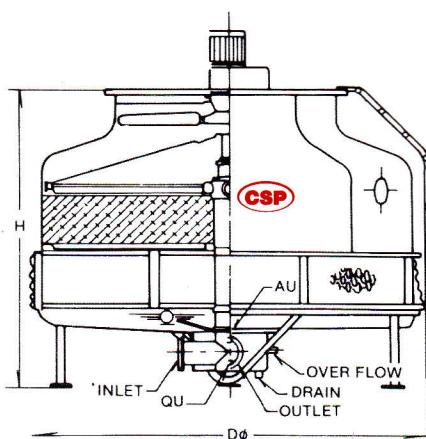
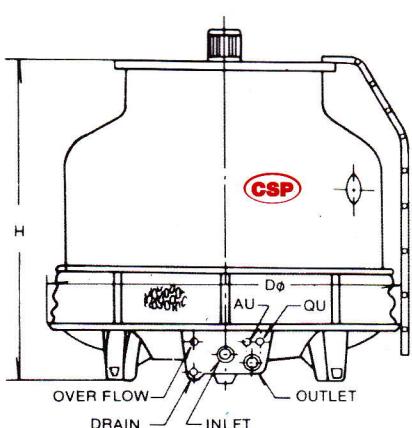
SUS : STAINLESS STEEL

CSP-3~1500

DIMENSION TABLE & PIPE CONNECTION

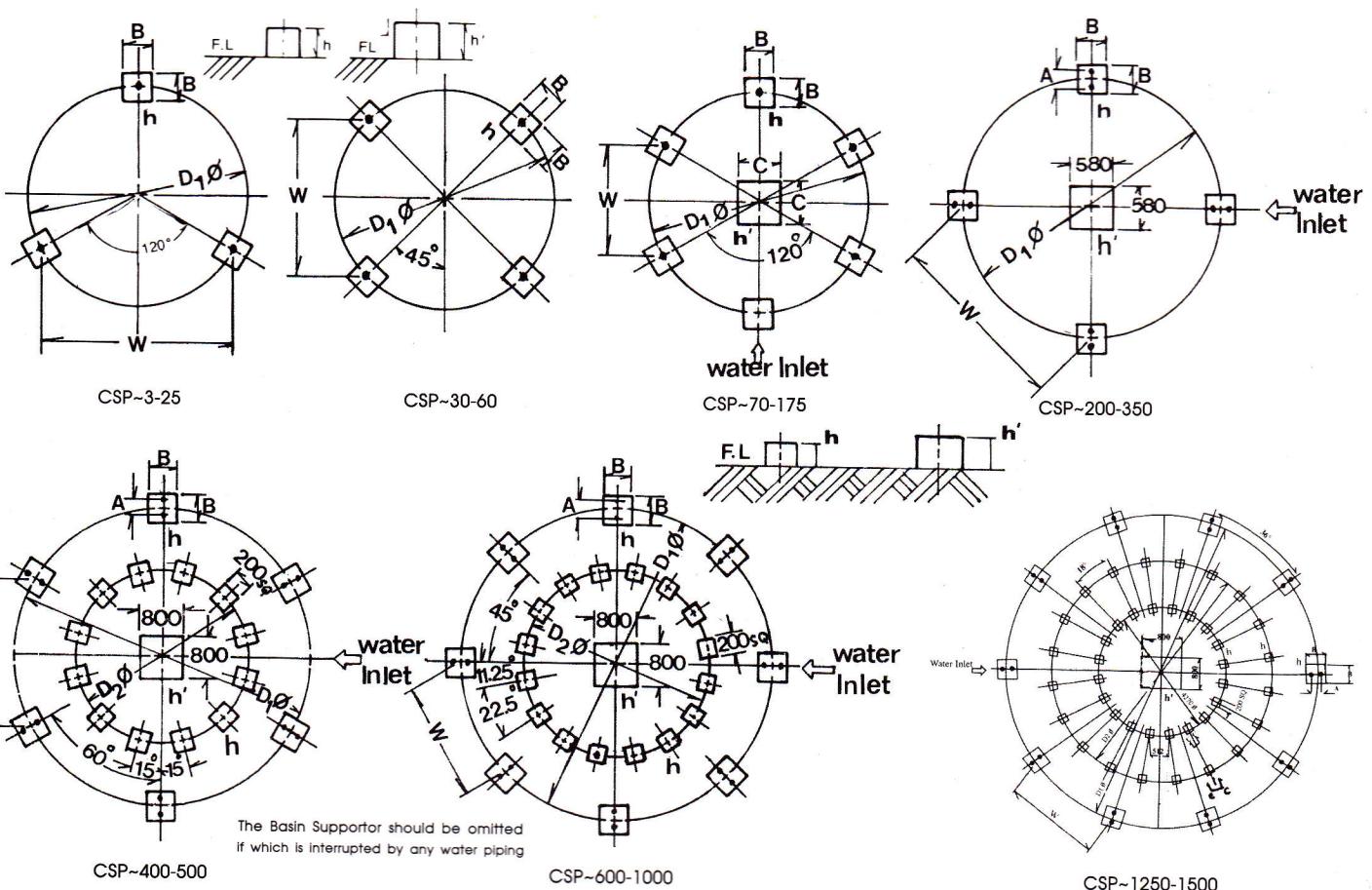


CSP-3-30



Tower Model CSP	Dimension m/m (INCH)		Pipe Connection m/m (INCH)							Fan Motor H.P.	Fan Dia m/m (INCH)	Air Volume m^3/m (CFM)	Nominal Water Flow 1/min (USGPM)
	H	D	OUTLET	INLET	OVER FLOW	DRAIN	AU	QU					
3	1265	49 ^{3/4}	690	27 ^{1/8}	25 1	25 1	15 1/2	15 1/2	.	1/6	500	19 ^{1/2}	25 870 39 10.3
5	1335	52 ^{1/2}	850	33 ^{1/2}	40 1 1/2	40 1 1/2	25 1 20 ^{3/4}	15 1/2	15 1/2	1/6	500	19 ^{1/2}	60 2100 65 17.2
8	1435	56 ^{1/2}	850	33 ^{1/2}	40 1 1/2	40 1 1/2	25 1 20 ^{3/4}	15 1/2	15 1/2	1/6	500	19 ^{1/2}	75 2620 104 27.5
10	1370	54	1060	41 ^{3/4}	40 2 1/2	40 2 1/2	25 1 20 ^{3/4}	15 1/2	15 1/2	1/4	670	26 ^{3/8}	100 3500 103 34.3
15	1495	58 ^{7/8}	1170	46	50 2	50 2	25 1 25 1	15 1/2	15 1/2	1/4	670	26 ^{3/8}	135 4700 195 51.5
20	1600	63	1380	54 ^{3/8}	50 2	50 2	25 1 25 1	15 1/2	15 1/2	1/2	770	30 ^{1/4}	180 6300 260 68.7
25	1800	70 ^{7/8}	1380	54 ^{3/8}	65 2 1/2	65 2 1/2	25 1 25 1	15 1/2	15 1/2	1	770	30 ^{1/4}	200 7000 325 85.8
30	1735	68 ^{1/4}	1580	62 ^{1/4}	65 2 1/2	65 2 1/2	25 1 25 1	15 1/2	15 1/2	1	770	30 ^{1/4}	225 8100 390 103
40	1890	74 ^{1/2}	1760	69 ^{1/4}	65 2 1/2	65 2 1/2	25 1 25 1	20 ^{3/4}	20 ^{3/4}	2	970	38 ^{1/4}	280 9800 520 150
50	1890	74 ^{1/2}	1970	77 ^{1/2}	80 3	80 3	25 1 25 1	20 ^{3/4}	20 ^{3/4}	2	970	38 ^{1/4}	330 11500 650 172
60	1850	72 ^{7/8}	1970	77 ^{1/2}	80 3	80 3	25 1 25 1	20 ^{3/4}	20 ^{3/4}	2	1170	46	420 14700 780 206
70	1885	74 ^{1/4}	2175	85 ^{5/8}	100 4	100 4	25 1 25 1	20 ^{3/4}	20 1	2	1170	46	500 17500 910 240
80	1925	75 ^{3/4}	2175	85 ^{5/8}	100 4	100 4	25 1 25 1	20 ^{3/4}	20 1	2	1170	46	540 18900 1040 275
100	2070	81 ^{1/2}	2650	104 ^{3/8}	100 4	100 4	25 1 25 1	25 1	25 1	3	1470	57 ^{7/8}	700 24500 1300 343
125	2210	87	2950	116 ^{1/8}	125 5	125 5	50 2 25 1	25 1	25 1	3	1470	57 ^{7/8}	830 29060 1625 429
150	2265	89	3120	122 ^{6/8}	125 5	125 5	50 2 50 2	25 1	25 1	5	1470	68 ^{7/8}	950 33260 1950 515
175	2430	95 ^{5/8}	3120	122 ^{6/8}	125 5	125 5	50 2 50 2	25 1	25 1	5	1750	68 ^{7/8}	1150 40250 2275 601
200	2990	117 ^{3/4}	3710	146	150 6	150 6	50 2 50 2	32 1 ^{1/4}	32 1 ^{1/4}	5	1750	68 ^{7/8}	1250 43760 2600 687
225	2990	117 ^{3/4}	3710	146	150 6	150 6	50 4 50 2	32 1 ^{1/4}	32 1 ^{1/4}	7 1/4	2400	94 ^{1/2}	1750 61270 2925 773
250	2990	117 ^{3/4}	3710	146	200 8	200 8	100 4 50 2	32 1 ^{1/4}	32 1 ^{1/4}	7 1/4	2400	94 ^{1/2}	1750 61270 3250 859
300	3240	127 ^{1/2}	4300	169 ^{1/4}	200 8	200 8	100 4 50 2	32 1 ^{1/4}	32 1 ^{1/4}	10	2400	94 ^{1/2}	2200 77020 3900 1030
350	3280	129	4650	183	200 8	200 8	100 4 50 2	32 1 ^{1/4}	32 1 ^{1/4}	10	2400	94 ^{1/2}	2200 77020 4550 1202
400	3955	155 ^{3/4}	5180	203 ^{7/8}	200 8	200 8	100 4 50 2	50 2	50 2	15	3000	118 ^{3/8}	2600 91030 5200 1374
500	3995	157 ^{1/4}	5580	219 ^{5/8}	250 10	250 10	100 4 50 2	50 2	50 2	15	3000	118 ^{3/8}	2600 91030 6500 1717
600	4415	173 ^{7/8}	6600	259 ^{7/8}	250 10	250 10	100 4 50 2	50 2	50 2	20	3400	133 ^{7/8}	3750 125000 7800 2060
700	4450	175 ^{7/8}	6600	259 ^{7/8}	250 10	250 10	100 4 50 2	50 2	50 2	20	3400	133 ^{7/8}	3750 125000 9100 2404
800	5010	197 ^{1/4}	7600	299 ^{1/4}	300 12	300 12	100 4 80 3	65 2 ^{1/2}	65 2 ^{1/2}	30	3600	141 ^{3/4}	5000 175000 10400 2747
1000	5010	197 ^{1/4}	7600	299 ^{1/4}	300 12	300 12	100 4 80 3	65 2 ^{1/2}	65 2 ^{1/2}	30	3600	141 ^{3/4}	5000 175000 13000 3430
1250	5870	231	8430	331 ^{7/8}	300 12	300 12	152 6 80 3	65 2 ^{1/2}	65 2 ^{1/2}	40	4270	168	6200 217000 16250 4293
1500	6220	244 ^{7/8}	8430	331 ^{7/8}	350 14	350 14	152 6 80 3	65 2 ^{1/2}	65 2 ^{1/2}	50	4270	168	7500 262500 19500 5152

REMARK : Nominal water flow based on 13 l/min/RT (3.43 USGPM/RT)
Water in 37 °C, Water out 32 °C, Ambient W. Bulb 27 °C,
AU-Automatic Filter, Qu - Quick Filler

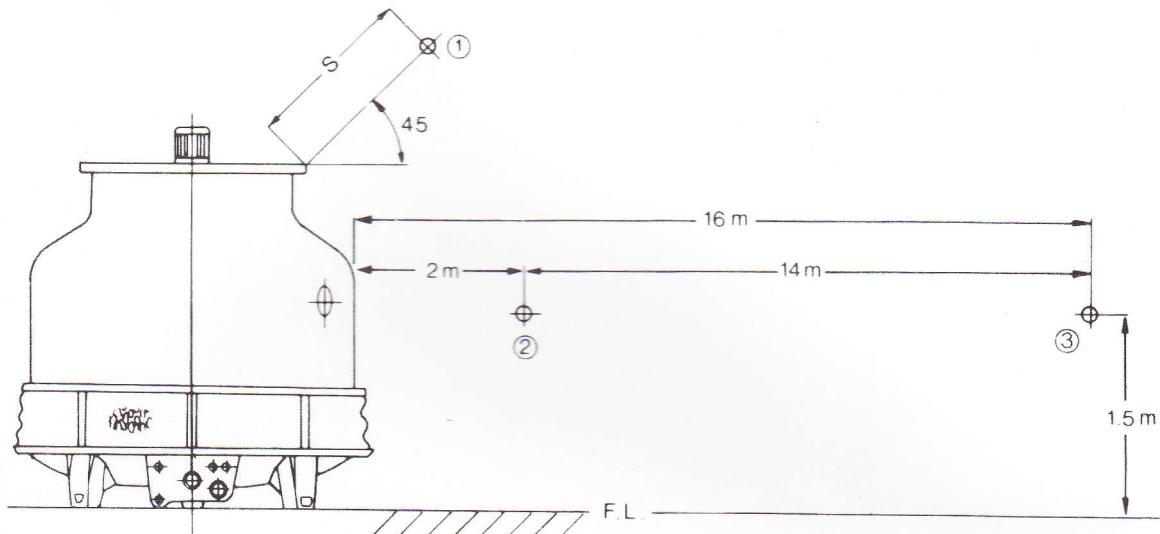


Tower Model CSP	Weight : kg		D ₁ m/m (INCH)	W m/m (INCH)	D ₂ m/m (INCH)	A m/m (INCH)	B m/m (INCH)	h m/m (INCH)	h' m/m (INCH)	Anchor Bolt			Pump Head m (FT)							
	Dry	Operating								Size m/m (INCH)	Length m/m (INCH)	Qty PCS								
3	28	73	460	18 1/5	398	15 5/8		200	8	150	6		12 1/2	120	4 3/4	3	1.3	4		
5	39	114	550	21 3/4	476	18 3/4		200	8	150	6		12 1/2	120	4 3/4	3	1.5	5		
8	42	119	550	21 3/4	476	18 3/4		200	8	150	6		12 1/2	120	4 3/4	3	1.5	5		
10	56	201	750	29 1/2	650	25 1/2		200	8	150	6		12 1/2	120	4 3/4	3	1.5	5		
15	63	243	880	34 3/4	762	30		200	8	150	6		12 1/2	120	4 3/4	3	1.6	5.3		
20	86	326	1120	44	970	38 1/4		200	8	150	6		12 1/2	120	4 3/4	3	1.7	5.6		
25	103	403	1120	44	970	38 1/4		200	8	150	6		12 1/2	120	4 3/4	3	1.7	5.6		
30	115	488	1330	52 1/2	940	37		200	8	150	6		12 1/2	120	4 3/4	4	1.8	6		
40	168	515	1470	57 7/8	1039	40 7/8		250	10	200	8		12 1/2	120	4 3/4	4	2	6.6		
50	197	597	1680	66 1/8	1188	46 3/4		250	10	200	8		12 1/2	120	4 3/4	4	2	6.6		
60	229	669	1680	66 1/8	1188	46 3/4		250	10	200	8		12 1/2	120	4 3/4	4	2	6.6		
70	277	707	1760	69 3/8	880	34 1/2		250	10	200	8	240	9 1/2	12 1/2	120	4 3/4	5	2	6.6	
80	292	722	1760	69 3/8	880	34 1/2		250	10	200	8	240	9 1/2	12 1/2	120	4 3/4	5	2	6.6	
100	403	1073	2350	92 1/2	1175	46 3/4		300	12	300	12	350	13 1/2	16 5/8	200	8	5	2.5	8.2	
125	466	1356	2620	103 1/8	1310	51 1/2		300	12	300	12	300	12	16 5/8	200	8	5	3	10	
150	625	2605	2860	112 5/8	1430	56 1/4		300	12	300	12	350	13 1/2	16 5/8	200	8	5	3	10	
175	713	2676	2860	112 5/8	1430	56 1/4		300	12	300	12	350	13 1/2	16 5/8	200	8	5	3.2	11	
200	870	3460	3390	133 1/2	2400	94 1/2		130	5	300	12	400	16	16 5/8	200	8	8	3.2	11	
225	960	3520	3390	133 1/2	2400	94 1/2		130	5	300	12	300	12	16 5/8	200	8	8	3.2	11	
250	1030	3690	3390	133 1/2	2400	94 1/2		130	5	300	12	300	12	16 5/8	200	8	8	3.6	12	
300	1283	4543	3868	152 7/8	2735	107 1/2		140	5 1/2	300	12	400	16	16 5/8	200	8	8	3.6	12	
350	1362	4620	4190	165	2962	116 1/2		140	5 1/2	300	12	400	16	16 5/8	200	8	8	4	13.2	
400	2171	6811	5100	200 3/4	2550	100 5/8	2900	114 1/4	140	5 1/2	300	12	400	16	20 3/4	200	8	12	4	13.2
500	2428	7068	5500	216 1/2	2750	108 1/4	3100	122	140	5 1/2	300	12	400	16	20 3/4	200	8	12	4	13.2
600	3364	10744	6500	256	2488	98	3600	141 3/4	140	5 1/2	300	12	400	16	20 3/4	200	8	16	5	16.5
700	3567	10967	6500	256	2488	98	3600	141 3/4	140	5 1/2	300	12	400	16	20 3/4	200	8	16	5.5	18.2
800	4000	11980	7470	294	2858	113	4155	163 1/2	140	5 1/2	300	12	400	16	20 3/4	200	8	16	6	20
1000	4036	12436	7470	294	2858	113	4155	163 1/2	140	5 1/2	300	12	400	16	20 3/4	200	8	16	6	20
1250	6554	26064	8330	328	2574	101 3/8	6400	252	140	5 1/2	300	12	400	16	20 3/4	200	8	20	6.5	21.5
1500	7000	26512	8330	328	2574	101 3/8	6400	252	140	5 1/2	300	12	400	16	20 3/4	200	8	20	7	23

CSP~70-80=250m/m, CSP~100-125=300m/m, CSP~150-175=400m/m, CSP~1250-1500=200m/m

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SOUND PRESSURE LEVEL



REMARK :

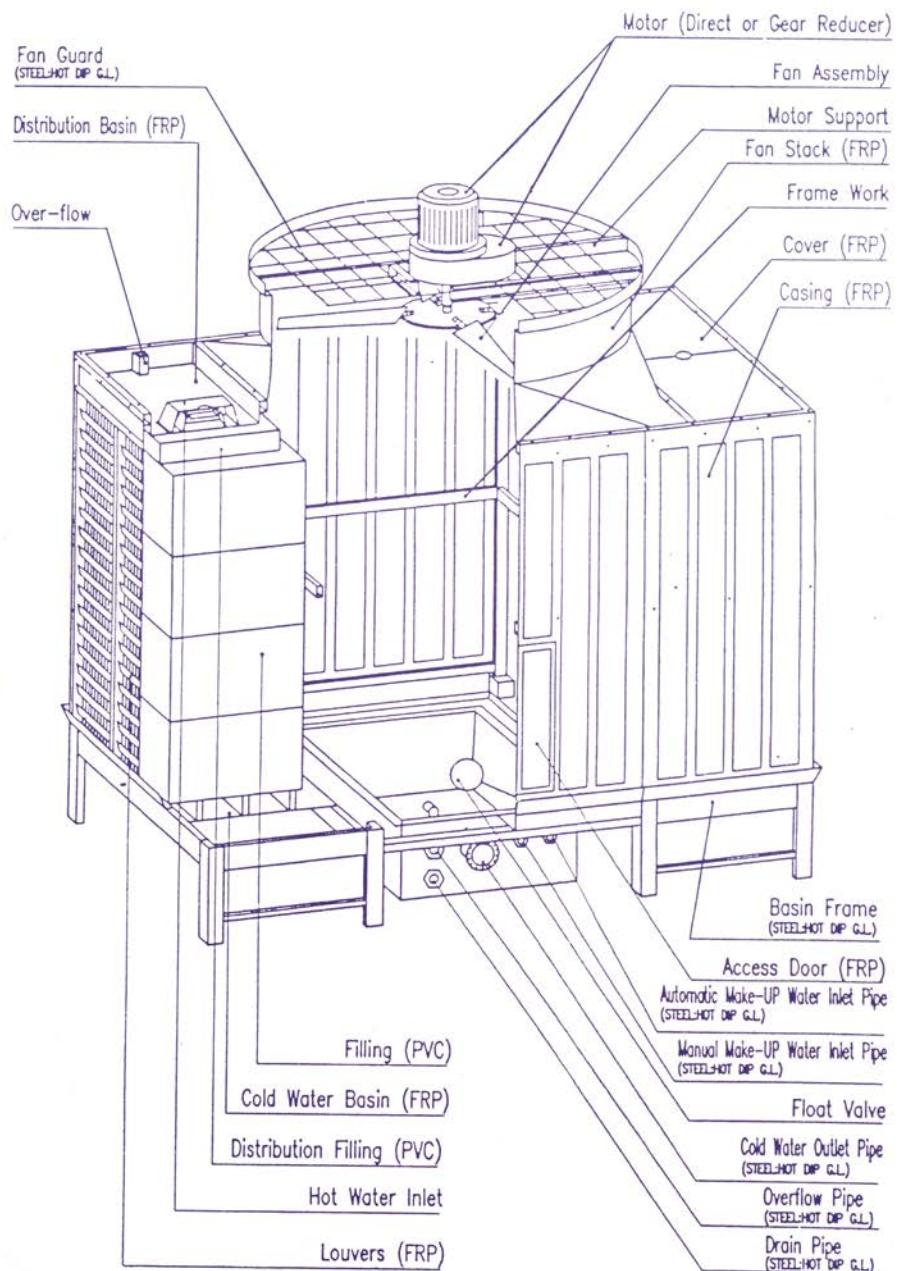
- Point 1 is 45° extension line of fan discharge.
- Distance "S" :
 - CSP-125 & downwards = 1.5 M
 - CSP-150 & upwards = Fan Diameters.

UNIT : dB

Tower Model	CSP-3			CSP-5			CSP-8			CSP-10			CSP-15			CSP-20			CSP-25						
MEASURING POINT	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
SCALE A	62	59	48	62	59	48	63	58	47.5	64	59	48.5	69	66	53	69	66	53	70	67	57				
Tower Model	CSP-30			CSP-40			CSP-50			CSP-60			CSP-70			CSP-80			CSP-100						
MEASURING POINT	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
SCALE A	73	67	59	77	70	59	77	70	59	79	73	64	81	75	66	82	76	67	79	71	60				
Tower Model	CSP-125			CSP-150			CSP-175			CSP-200			CSP-225			CSP-250			CSP-300						
MEASURING POINT	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
SCALE A	84	74	64	77	71	62	80	75	65	79	73	63	76	71	62	76	71	62	77	72	63				
Tower Model	CSP-350			CSP-400			CSP-500			CSP-600			CSP-700			CSP-800			CSP-1000						
MEASURING POINT	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
SCALE A	77	72	63	79.5	74.5	65.5	79.5	74.5	65.5	77.5	72.5	63.5	77.5	72.5	63.5	78.5	74	65	80	75	66				
Tower Model	CSP-1250			CSP-1500																					
MEASURING POINT	1	2	3	1	2	3																			
SCALE A	90	80	65	90	80	65																			

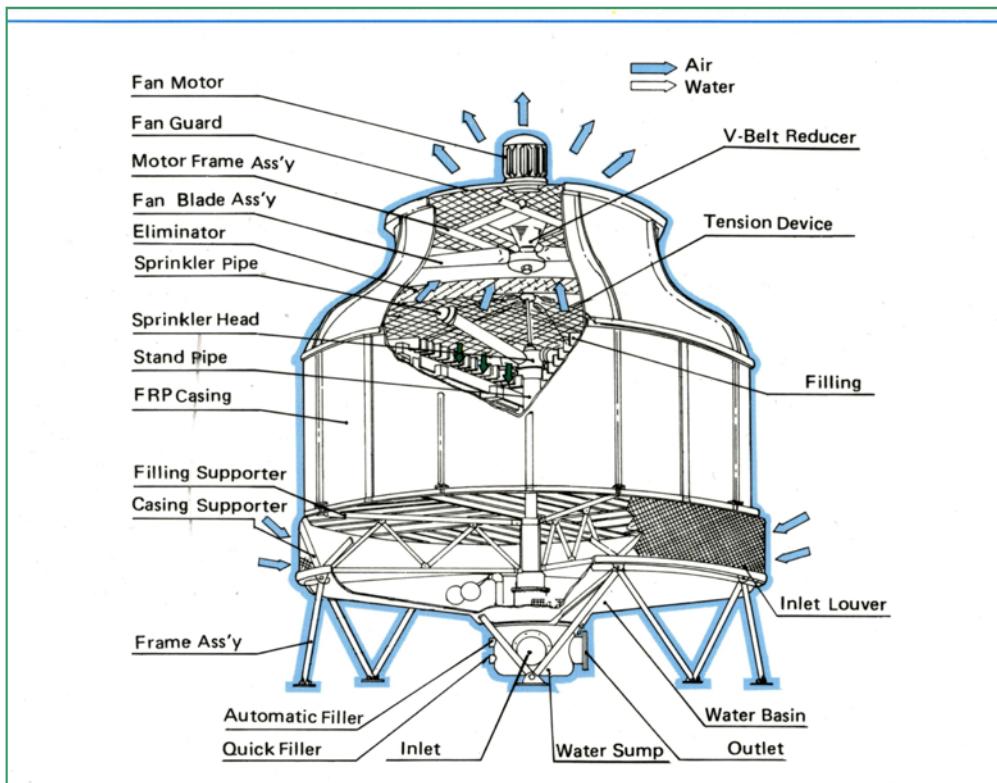
NOTE : The accuracy of measuring value is + 3 decibel

DIMENTIONTEBLE & PIPE CONECTION





DIMENSION TABLE & PIPE CONNECTION



TYPE	DIMENSION (mm.)		PIPE CONNECTION (mm.)						FAN MOTOR	FAN DAI	AIR VOLUME		Nomal Woter Flow	
			OUTLET	INLET	OVERFLOW	DRAIN	AU	QU			m ³ /min	GM	I/mm.	USGPM
SSS-C	H	D							HP	(mm.)				
3	1270	695	25	25	25	15	15	15	1/6	500	25	870	39	103
5	1340	855	40	40	25	20	15	15	1/6	500	60	2100	65	172
8	1440	855	40	40	25	20	15	15	1/6	500	75	2620	104	275
10	1375	1065	40	40	25	20	15	15	1/4	670	100	3500	130	343
15	1500	11475	50	50	25	25	15	15	1/4	670	135	4700	195	515
20	1605	1385	50	50	25	25	15	15	1/2	770	180	6300	260	687
25	1805	1385	65	65	25	25	15	15	1	770	200	7000	325	858
30	1740	1585	65	65	25	25	15	15	1	770	225	8100	390	103
40	1895	1765	65	65	25	25	20	20	2	970	280	9800	520	137
50	1895	1975	80	80	25	25	20	20	2	970	330	11500	650	172
60	1855	1975	80	80	25	25	20	20	2	1170	420	14700	780	206
70	1860	2180	100	100	25	25	20	25	2	1170	540	18900	1040	275
100	2075	2655	100	100	25	25	25	25	3	1470	700	24500	1300	343
125	2215	2955	125	125	50	25	25	25	3	1470	830	29060	1625	429
150	2270	3125	125	125	50	50	32	32	5	1750	950	33260	1950	515
175	2435	3125	125	125	50	50	32	32	5	1750	1150	40250	2275	601
200	2995	3715	150	150	50	50	32	32	5	1750	1250	43700	2600	687
225	2995	3715	150	150	100	50	32	32	7 1/2	2400	1750	61270	2925	773
250	2995	3715	200	200	100	50	32	32	7 1/2	2400	1750	61270	3250	859
300	3245	4205	200	200	100	50	32	32	10	2400	2200	77020	3900	1030
350	3285	4655	200	200	100	50	32	32	10	2400	2200	77020	4550	1202
400	4000	5185	200	200	100	50	50	50	15	3000	2600	91030	5200	1374
500	4000	5585	250	250	100	50	50	50	15	3000	2600	91030	6500	1717
600	4420	6605	250	250	100	50	50	50	20	3400	3750	125000	7800	2060
700	4455	6505	250	250	100	50	50	50	20	3400	3750	125000	9100	2404
800	5015	7605	300	300	100	80	65	65	30	3600	5000	175000	10400	2747
1000	5015	7605	300	300	100	80	65	65	30	3600	5000	175000	13000	3430
1200	5875	8435	300	300	152	80	65	65	40	4270	6200	217000	16150	4293