



LIANG CHI INDUSTRY (THAILAND) CO., LTD.

COUNTER FLOW INDUCED DRAFT LBC TYPE COOLING TOWER SPECIFICATION

DATE :
 TOWER MODEL NO. : LBC - T - 225
 NO. OF SETS : 1

DESIGN & OPERATING CONDITIONS

WATER FLOW RATE. : 2,473 LPM
 HOT WATER TEMP. : 37 °C
 COLD WATER TEMP : 32 °C
 AMB. WET BULB TEMP. : 28 °C
 FAN B.H.P. : 6.25 BHP
 TOWER PUMP HEAD : 3.2 M
 DRIFT LOSS OF WATER FLOW RATE : 0.2 %
 EVAPORATION LOSS OF WATER FLOW RATE : 0.83 %
 DESIGN WIND LOAD : 150 Kg / M²

STRUCTURAL DETAILS

OVERALL DIMENSION : 3770 MM
 DRY WEIGHT : 960 Kg
 OPERATING WEIGHT PER TOWER : 3520 Kg

CONSTRUCTION

TOWER SUPPORTER FRAME ASS'Y : H.D.G.S.
 CASING : F.R.P.
 CASING SUPPORTOR : H.D.G.S.
 COLD WATER BASIN : F.R.P.
 FILLING : P.V.C.
 FILLING SUPPORTOR : H.D.G.S.
 FAN GUARD : H.D.G.S.
 MECHANICAL EQUIPMENT SUPPORTOR : H.D.G.S.
 INLET LOUVER : P.V.C.
 BOLTS,NUTS & WASHERS : C.P.S.

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TECHNIC BY :	



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WATER DISTRIBUTION

STAND PIPE : P.V.C.
 SPRINKLER HEAD : A.A.
 MODEL : LSH - 150
 SPRINKLER PIPE : P.V.C.

MECHANICAL EQUIPMENTS

FAN UNIT

NO. OF UNIT : 1 UNIT / SET
 TYPE : AXIAL FLOW
 MODEL : LSF-240
 MANUFACTUROR : LIANG CHI IND.CO.,LTD.
 DIAMETER : 2360 MM
 NO. OF BLADES : 4
 FAN SPEED : 398 RPM
 TIP SPEED : 49.18 M/S
 BLADE MATERIAL : A.A.
 HUP MATERIAL : A.A.
 AIR VOLUME : 1750 M³ / MIN/SET

SPEED REDUCER

NO. OF UNIT : 1 UNIT / SET
 TYPE : BELT
 MODEL : VBA-055-B
 MANUFACTUROR : LIANG CHI IND. CO.,LTD
 REDUCTION RATIO : 2.40 : 1

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FAN MOTOR

NO. OF UNIT : 1 UNIT / SET
 TYPE : TEFC
 INSULATION : CLASS F IP55
 MANUFACTUROR : LIANG CHI
 SPEED : 950 RPM
 RATED H.P : 7 1/2 H.P * 6 P
 POWER SOURCE (VOLT / PHASE / HZ) : 380 / 3 / 50

PIPING CONNECTION

	SIZE		Q'TY / SET
WATER INLET	6	B (150A)	1
WATER OUTLET	6	B (150A)	1
AUTO FILL	1 1/4	B (32A)	1
QUICK FILL	1 1/4	B (32A)	1
OVER FLOW	2	B (50 A)	1
DRAIN	2	B (50 A)	1

REMARK

F.R.P : FIBERGLASS REINFORCE PLASTIC

H.D.G.S : HOT DIP GALVALNIZED STEEL

A.A. : ALUMINIUM ALLOY

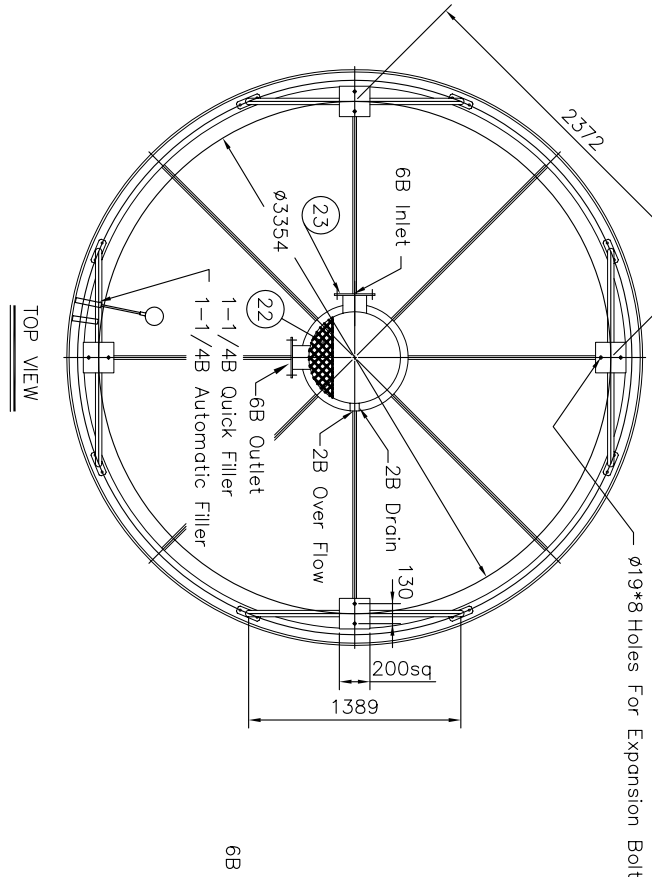
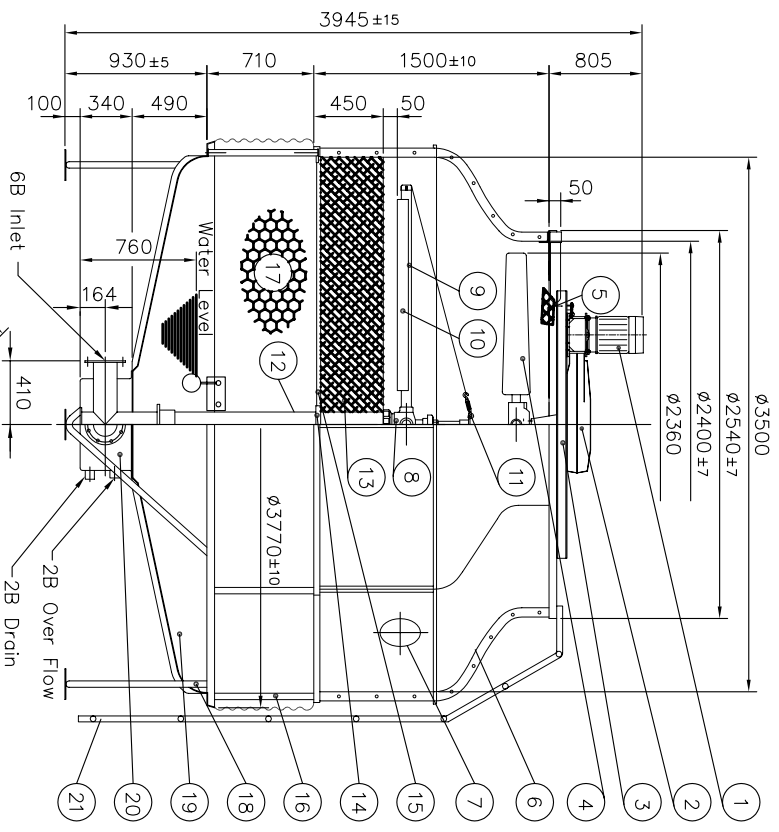
C.P.S. : CHROMATED - PLATING STEEL

DESIGNED : 

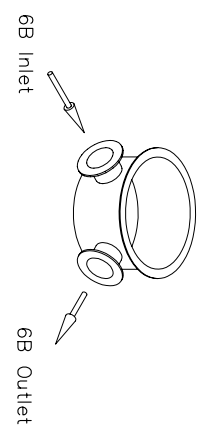
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Description	M.T	Specification	Q'ty
1 Fan Motor		7 1/2HP*6P	1/pcs.
2 Belt Reducer		VBA-055-B	1/set.
3 Motor Framework Ass'y	H.D.G.S		1/pcs.
4 Fan	A.A	LSF-240	1/set.
5 Fan Guard	H.D.G.S		1/set.
6 Casing	F.R.P.		8/pcs.
7 Hand Hole	E.V.A		1/pcs.
8 Sprinkler Head	A.A	LSH-150	1/pcs.
9 Sprinkler Pipe	P.V.C.		4/pcs.
10 Eliminator	F.R.P.		4/pcs.
11 Tension Device	P.V.C.		4/set.
12 Stand Pipe	P.V.C.		1/pcs.
13 Filling	P.V.C.		1/set.
14 Stopper or Column	H.D.G.S		1/set.
15 Filling Supporter	H.D.G.S		1/set.
16 Casing Supporter	H.D.G.S		8/pcs.
17 Inlet Louver	P.V.C.		1/set.
18 Frame Ass'y	H.D.G.S		1/set.
19 Water Basin	F.R.P.		8/pcs.
20 Water Sump	F.R.P.		1/pcs.
21 Ladder	H.D.G.S		1/pcs.
22 Strainer	ST.S		1/pcs.
23 Flange	H.D.G.S		2/pcs.

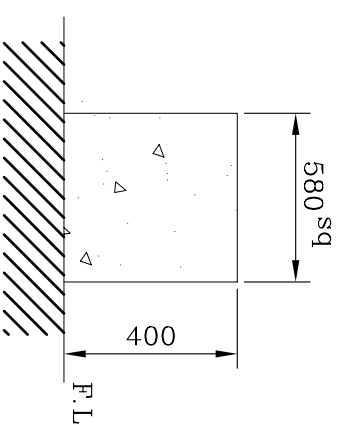
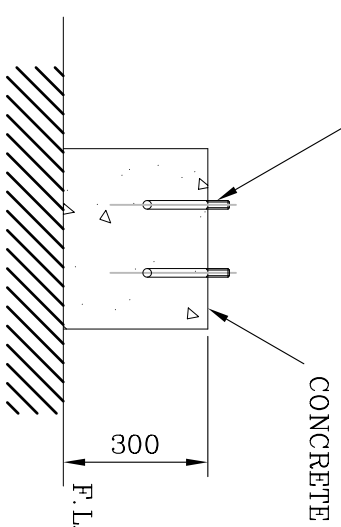
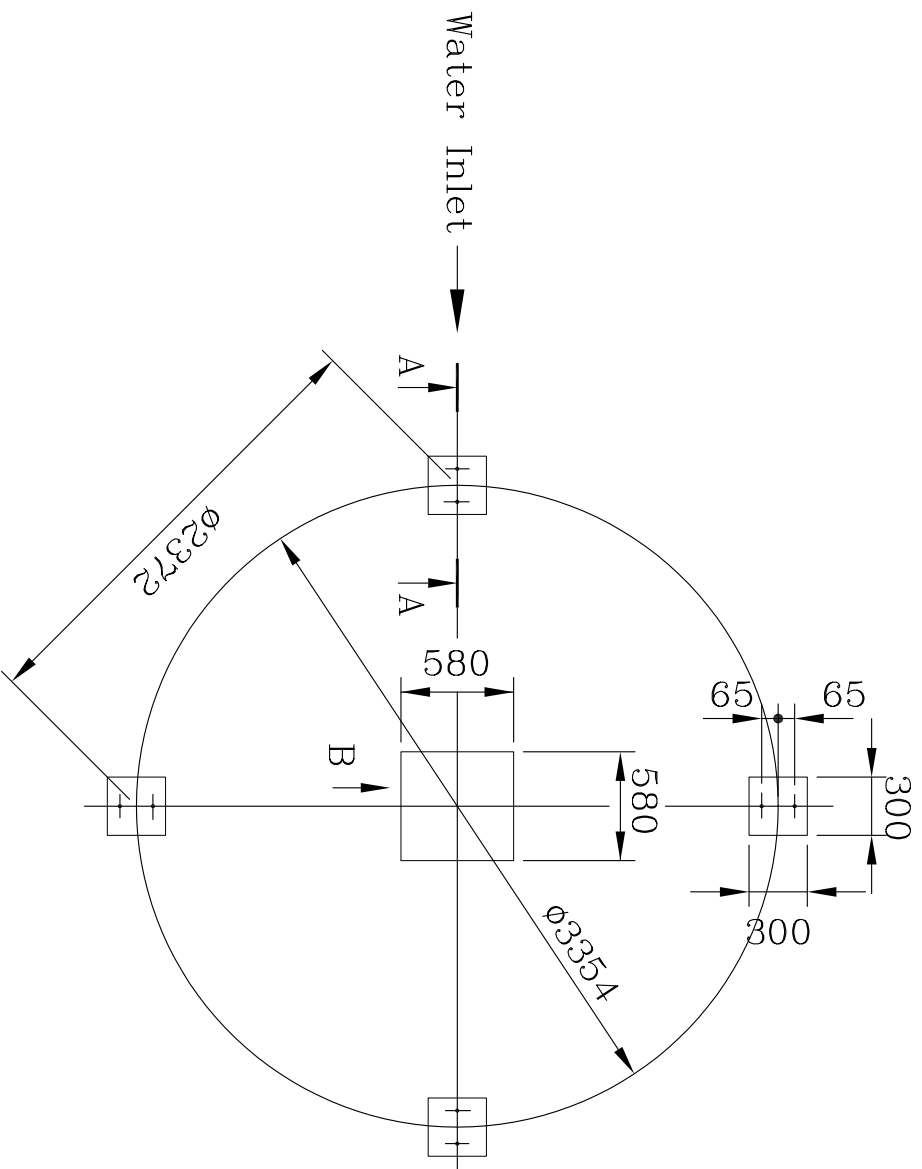
Abbrev. : 1. H.D.G.S.: Hot Dip Galvanized Steel

2. A.A : Aluminum Alloy
3. ST.S : Stainless Steel 304
4. F.R.P. : Fiberglass Reinforced Plastic

Drain	50A (2 B)	Over Flow	50A(2 B)
Outlet	150A (6 B)	Quick Filler	32A(1 1/4 B)
Inlet	150A (6 B)	Automatic filler	32A(1 1/4 B)
Pipe Connections			
Dry Weight	960 kgs	Operating Weight	3,520 kgs
Loading Data			
Ambient Wetbulb	: 28 °C	Air Volume	: 1,750 M ³ /MIN
Outlet Water Temp	: 32 °C	Water Flow	: 2,473 LPM
Inlet Water Temp	: 37 °C	Cooling Capacity	: 741,900 Kcal/HR
Design Condition			

REV.	DATE	DWG BY	APP.	NOTE
TITLE				
LBC-T-225				
OUTLINE VIEW				
APP.	K.Sommons	DESIGN	Amnat	MM
CHECK	SURASAK	DWG BY	Amnat	DWG-NO
LIANG CHI INDUSTRY (THAILAND) CO., LTD. 223 Moo 9 Tab-Yaolad-Krabang Bangkok 10520 (NUM KRAL INDUSTRIAL ZONE LUANG-PAENG RD.)				
				LBC-T-225-01

EXPANSION BOLT (BY LIANG CHI)



REMARK :

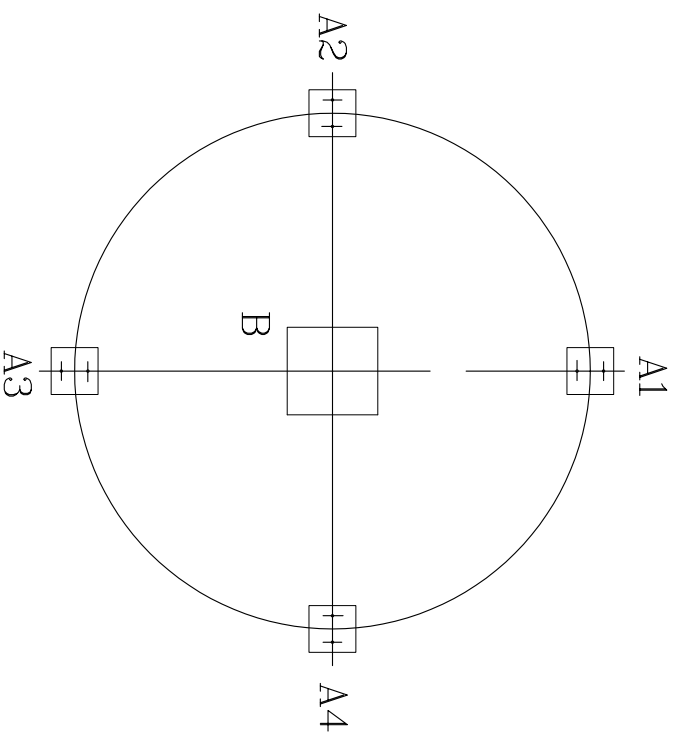
1. THIS FOUNDATION DRAWING IS PROVIDED FOR END USER'S REFERENCE.
2. COOLING TOWER DOES NOT INCLUDE FOUNDATION
3. THE LEVEL TOLERANCE OF FOUNDATION IS ±2 mm.
4. THE HEIGHT OF FOUNDATION EXCLUDES THERMAL INSULATOR AND WATER PROOF.
- * 5. EXPANSION BOLT & RUBBER PAD SHALL BE FURNISHED BY LIANG CHI
(PLEASE DON'T PREPARE HOLE OF EXPANSION BOLT BEFORE INSTALLATION)

LIANG CHI IND. (THAILAND) CO.,LTD
TECHNIC DEPT.

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DATE :
TECHNIC BY :

REV.	DATE	DWG BY	APP.	NOTE
TITLE				
Concrete Foundation				
APP.	K.Sommons	DESIGN	Annat	
CHECK	SURASAK	DWG BY.	Annat	
LIANG CHI INDUSTRY (THAILAND) CO., LTD. (NUM KRAL INDUSTRIAL ZONE LUANG-PAENG RD.)				
				MM
				DWG-NO
				LBC-T-225-02



UNIT : KG.

LBC-T-225	A1=A2=A3=A4	B
	380	2,000

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REV.	DATE	DWG BY	APP.	NOTE
TITLE				
LBC-T-225				
Loading Data				
APP.	K.Sommons	DESIGN	Annat	
CHECK	SURASAK	DWG BY.	Annat	
LIANG CHI INDUSTRY (THAILAND) CO., LTD. (NUM KRAI INDUSTRIAL ZONE LUANG-PAENG RD.)				
				LBC-T-225-03