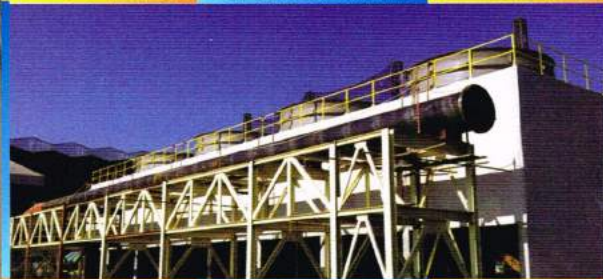
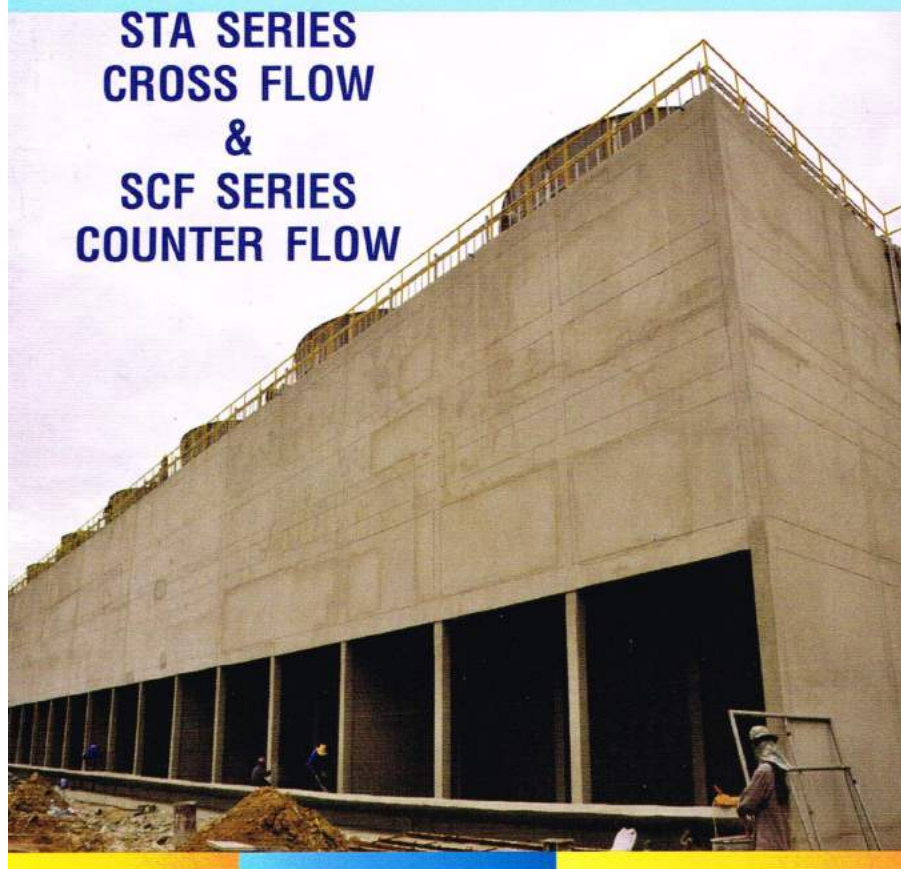




COOLING TOWER

SQUARE TYPE

**STA SERIES
CROSS FLOW
&
SCF SERIES
COUNTER FLOW**



Product Features

- Energy Saving
- Low Noise Level
- Low Drift Loss
- Quakeproof Design
- Guaranteed Thermal Performance
- Space Saver
- Compact Unit

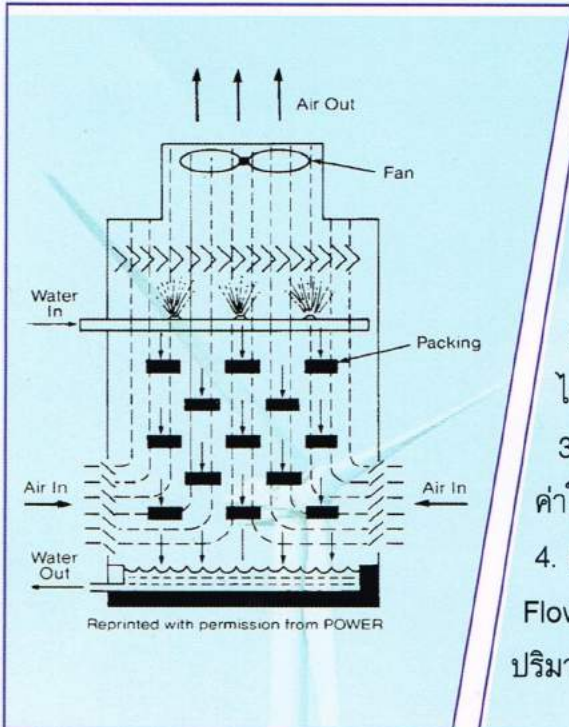
Spacco Cooling Tower Industry Co.,Ltd.

- Cooling Tower With New Design
- According to Client's Need
- Supply Cooling Tower for Both
- Counter Flow and Cross Flow
- Variety of material and part part
for specific condition
- HDG/SUS/WOOD AND CONCRETE STRUCTURE

SPACCO COOLING TOWER INDUSTRY CO.,LTD.

The Advantage of Counter Flow And Cross Flow

SCF MODEL (Counter Flow)



1. Counter Flow filler and water distribution system is sheltered and internal Cooling Tower panel. Thus the water is cleaner than Cross Flow system.

แผ่นรังผึ้งและระบบการกระจายน้ำปิดทึบอยู่ภายในตัวคูลลิ่งทาวเวอร์ จึงทำให้น้ำสะอาดกว่ารุ่น Cross Flow

2. No hot air recirculation from Cooling Tower

ไม่มีการไหลเวียนกลับของความร้อนที่ปล่อยออกมาจากตัวคูลลิ่งทาวเวอร์

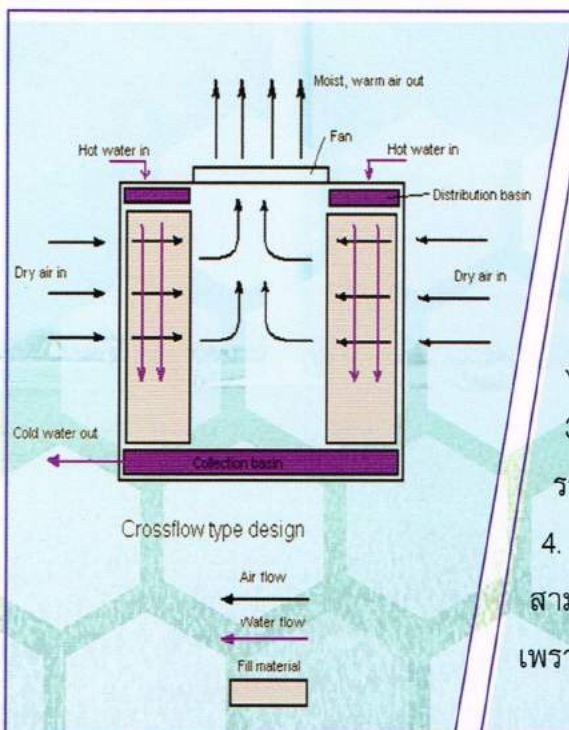
3. Counter Flow maintenance cost is lower.

ค่าใช้จ่ายในการดูแลและบำรุงรักษาต่ำกว่า

4. Footing and Piping including Pump Head using less than Cross Flow System.

ปริมาณการพื้นฐานราก, งานท่อ และ แรงดันปั๊ม (pump head) ที่น้อยกว่า

STA MODEL (Cross Flow)



1. The noise from the water drop and Cooling Tower noise from Cross Flow is lower than Counter Flow.

ระดับเสียงของ Counter Flow เบากว่าไม่ว่าจะเป็นเสียงน้ำ หรือเสียงโดยรวม

2. Easy for installation because having less component.

ง่ายต่อการประกอบติดตั้ง

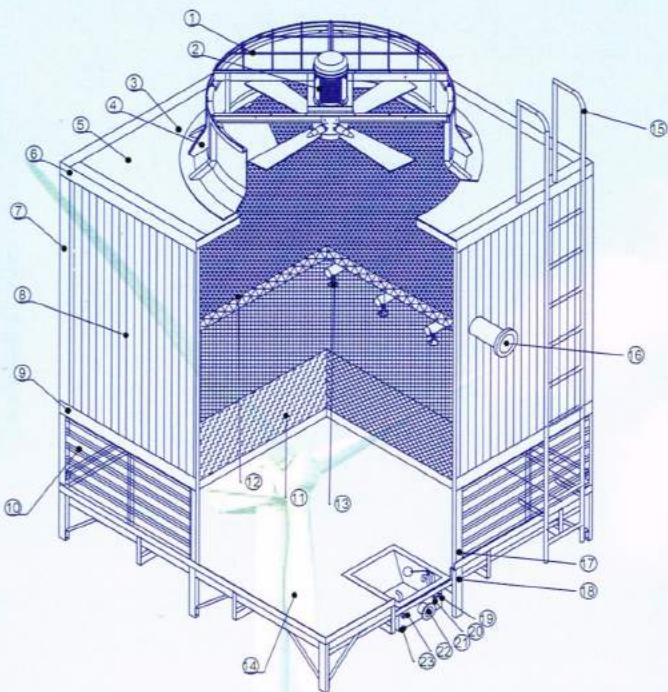
3. Lower Price if compare with Counter Flow.

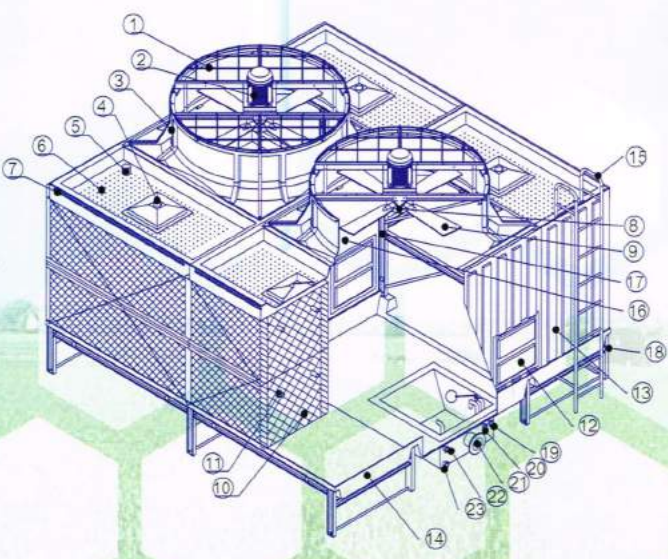
ราคาต่ำกว่าถ้าเทียบกับรุ่น Counter Flow

4. Enable to access even in small sizing for services and maintenance สามารถเข้าไปดูแลรักษาได้ง่ายกว่ารุ่น Counter Flow เพราะมีช่องทางเดินไม่ว่าจะเป็นรุ่นที่มีขนาดเล็ก

Component Detail

FRP Pultrusion, HDG and Wood Structure (Optional)

SCF COUNTER FLOW		No.	Description	FRP	HDG	PVC	Other
		1	Fan Guard		✓		
		2	Motor				✓
		3	Fan Hub				✓
		4	Fan Stack	✓			
		5	Fan Deck	✓			
		6	Fan Blade	✓			✓
		7	Style Strip	✓			
		8	Casing	✓			
		9	Water Spatter Guard	✓			
		10	Louvers	✓		✓	
		11	Filler			✓	✓
		12	Drift Eliminators			✓	
		13	Spray Nozzle			✓	✓
		14	Cold Water Basin	✓			✓
		15	Landder	✓	✓		✓
		16	Hot Water Inlet Pipe		✓	✓	
		17	Framework	✓	✓		✓
		18	Basin Frame	✓	✓		✓
		19	Automatic make-up water				✓
		20	Make-up Water Inlet pipe		✓	✓	
		21	Cold Water outlet pipe		✓		
		22	Overflow		✓	✓	
		23	Drain		✓	✓	

STA CROSS FLOW		No.	Description	FRP	HDG	PVC	Other
		1	Fan Guard		✓		
		2	Motor				✓
		3	Fan Stack	✓			
		4	Hot Water Inlet Port	✓			
		5	Hot Water Basin Overflow	✓			
		6	Hot Water Distribution Basin	✓			
		7	Style Strip	✓			
		8	Fan Hub				✓
		9	Fan Blade	✓			✓
		10	Filler			✓	✓
		11	Filler Support	✓	✓		
		12	Accessing door	✓			
		13	Casing	✓			
		14	Cold Water Basin	✓			
		15	Landder	✓	✓		✓
		16	Partition wall Deviding Cell	✓			
		17	Framework	✓	✓		✓
		18	Basin Frame	✓	✓		✓
		19	Automatic make-up water				✓
		20	Make-up Water Inlet pipe		✓	✓	
		21	Cold Water outlet pipe		✓		
		22	Overflow		✓	✓	
		23	Drain		✓	✓	

Selection Chart

● SUITABLE MODEL SELECTION CHART

Take the following operating conditions as an example :

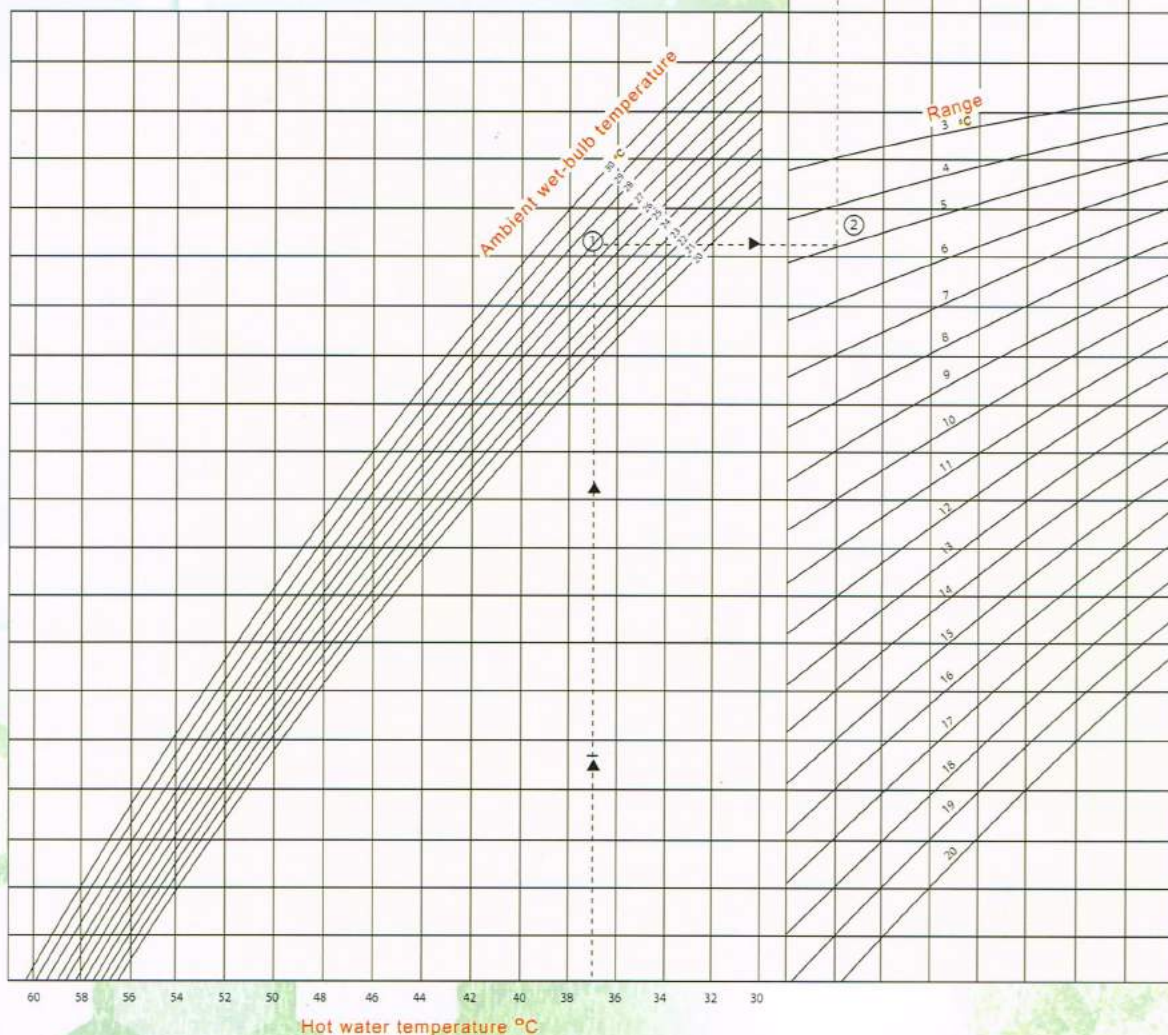
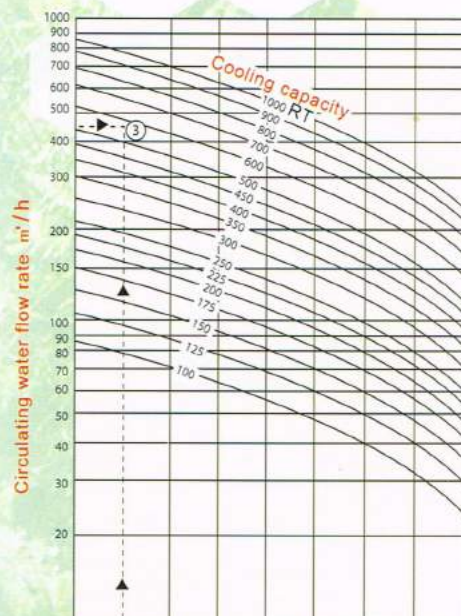
Hot water temperature :	37°C
Cold water temperature :	32°C
Range (hot-cold water temp. difference) :	5°C
Ambient wet-bulb temperature :	27°C
Circulating water flow rate :	450m ³ /h

How to read the chart

1. Trace up the Hot water temperature of 37°C vertically to find the intersecting point ① with the 27°C ambient wet-bulb temperature curve.
2. Shift the point ① to the right to find the intersection point ② with the 5°C range curve.
3. Then trace up again from the point ② to find the intersecting point ③ with the 450m³/h circulating water flow rate.
4. Now you notice the required cooling capacity of 560 tons; The suitable model in STA-600SUN or STA-600SUNI

Remarks

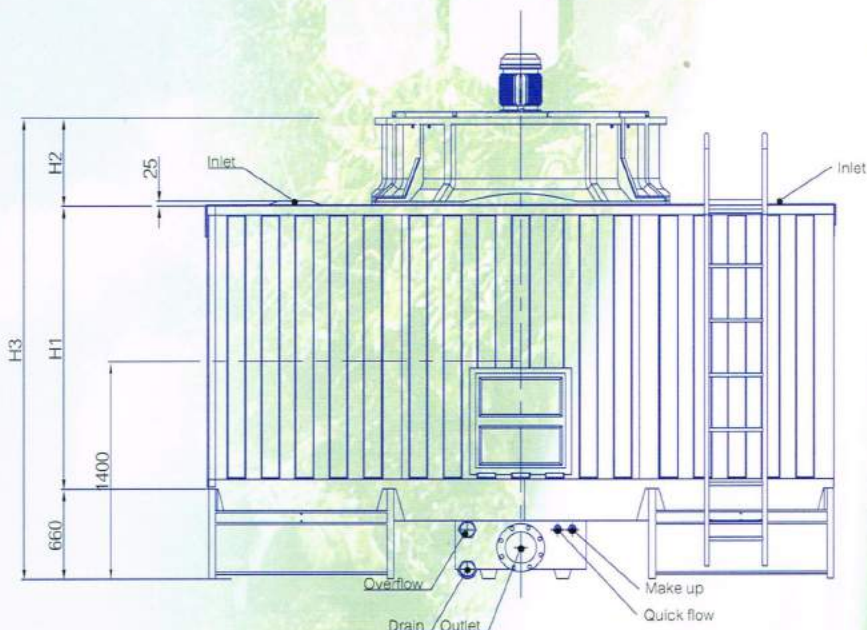
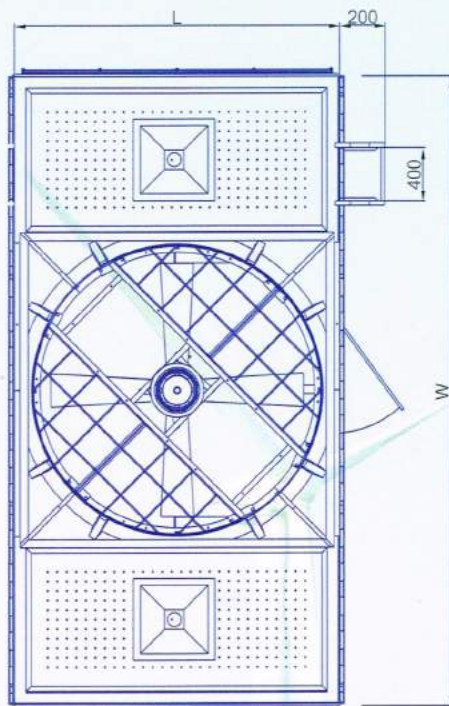
1. For cooling tower hot water temperature exceeding 50°C, heat-resistant version should be used (delivered by special order).
2. If suitable model cannot be found from the chart, please inquire us.





Specification

STA SERIES (SINGLE CELL)



STA SERIES DIMENSION (SINGLE CELL)

MODEL	FLOW RATE	DIMENSION					FAN & MOTOR DATA			PIPE CONNECTION						PUMP HP	WEIGHT KG.
	L/MIN	L	W	H1	H2	H3	FAN ∅	Motor		INLET	OUTLET	DRAIN	OVER FLOW	MAKE UP	QUICK FLOW		
	(m³/hr)							HP	Pole								
RT																	
100	1300 (78)	1500	3560	2075	815	3550	1300	2HP	8	125 (5")	125 (5")	50 (2")	50 (2")	25 (1")	25 (1")	3.5	1950
125	1625 (98)	1500	3560	2075	815	3550	1300	2HP	8	125 (5")	125 (5")	50 (2")	50 (2")	25 (1")	25 (1")	3.5	1970
150	1950 (117)	1800	3760	2075	915	3650	1500	3HP	8	125 (5")	150 (6")	50 (2")	50 (2")	25 (1")	25 (1")	3.5	2360
175	2275 (137)	1800	3760	2075	915	3650	1500	5HP	10	125 (5")	150 (6")	50 (2")	50 (2")	25 (1")	25 (1")	3.5	2460
200	2600 (156)	2100	3960	2075	915	3680	1700	5HP	10	125 (5")	150 (6")	63(2"1/2)	63(2"1/2)	50 (2")	25 (1")	3.5	2840
250	3250 (195)	2450	4260	2075	915	3720	2000	5HP	10	125 (5")	200 (8")	63(2"1/2)	63(2"1/2)	38(1"1/2)	38(1"1/2)	4	3510
300	3900 (234)	2450	4565	2075	1200	3935	2000	7.5HP	12	150 (6")	200 (8")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	4	3700
350	4560 (273)	3150	4080	2075	1200	3935	2400	7.5HP	12	150 (6")	200 (8")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	4	4300
400	5220 (312)	3150	5630	2800	1200	4800	2400	10HP	12	150 (6")	250(10")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	5	5800
500	6500 (390)	3700	6000	2800	1200	4800	3000	15HP	4	150 (6")	250(10")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	5	7506
600	7800 (468)	4000	6650	2800	1200	4800	3200	20HP	4	150 (6")	250(10")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	5	8100
700	9160 (546)	400	6650	3200	1200	5300	3200	20HP	4	200 (8")	250(10")	80 (3")	80 (3")	38(1"1/2)	38(1"1/2)	6	9000
800	10400(624)	4600	6650	3400	1200	5700	3200	25HP	4	200 (8")	300(12")	100 (4")	100 (4")	38(1"1/2)	38(1"1/2)	6	11250
1000	13000(780)	4600	7000	7000	1200	5800	3600	30HP	4	200 (8")	300(12")	100 (4")	100 (4")	50 (2")	50 (2")	6	15200

DESIGN CONDITION:

FLOW RATE = 0.78 M³ (780 LITERS)/ HOUR/RT

TEMPERATURE RANGE = 37°C - 32°C

WET BULB TEMPERATURE = 27°C

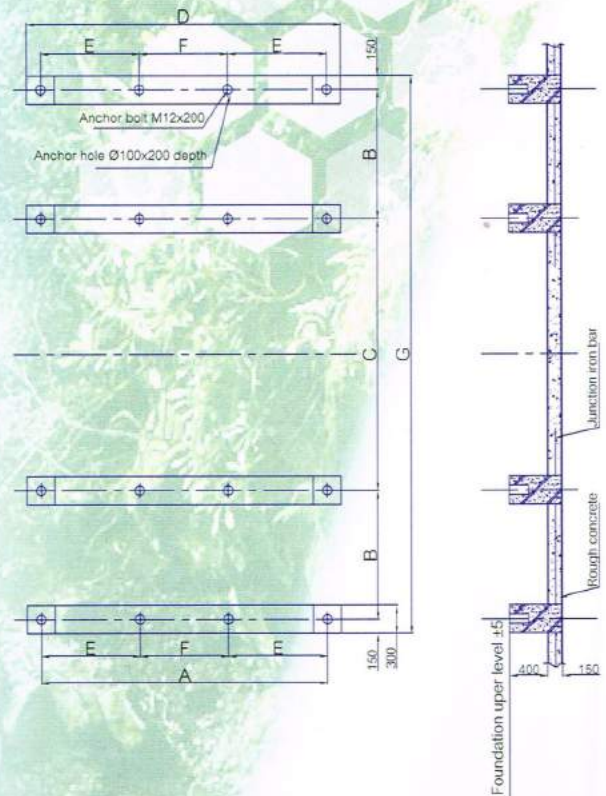
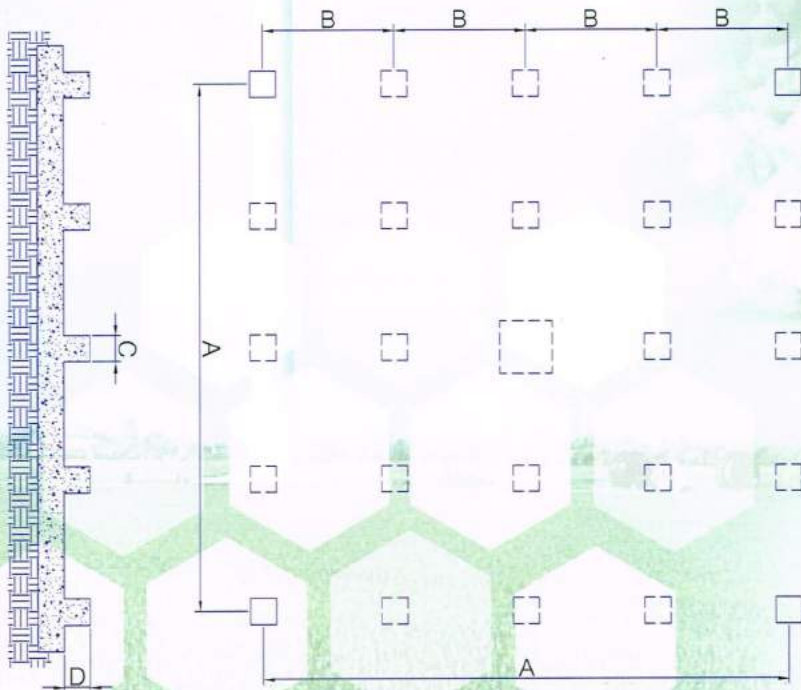
1 RT (REFRIGERATION TON) = 3900 Kcal/Hour

MOTOR 4 POLE = GEAR OR V-BELT DRIVE

Foundation

STA MODEL

STA MODEL	A	B	C	D	E	F	G
100-125	1350	1115	1250	1450			3570
150-175	165	1115	1450	1760			3720
200	1930	1115	1650	2030			3920
250	2280	1115	1930	2400			4200
300	2280	1315	1930	2400			4580
350	3100	1115	2750	3150	1550		5020
400	3040	1370	2880	3090	1050	940	5670
500	3500	1380	3160	3650	1050	1400	5970
600	3800	1380	3700	4100	1150	1500	6750
700	3800	1380	3700	4100	1150	1500	6750
800	4400	1380	4000	4700	1250	2100	7050
1000	4400	1380	4000	4700	1250	2100	7050
400(200x2)	3860	1115	1650	4180			3920
500(250x2)	4460	1115	1930	4780			4200
600(300x2)	4460	1315	1930	4780			4600
700(350x2)	6100	1115	2750	6300	1550		5020
800(400x2)	4980	1380	2880	6180	1050	940	5670
1000(500x2)	7000	1115	3160	9620	1050	1400	5970


SCF MODEL


E = ANCHOR BOLT

MODEL	A	B	C	D	E QTY
50-60	1500		200	300	4
80	1750		200	300	4
100	2000		200	300	4
125-150	2300		200	300	4
175-200	2300	1350	250	500	4
250	3000	1500	250	500	9
300	3300	1650	250	500	9
350	3500	1750	250	500	9
400	3700	1850	250	500	9
500	4200	2100	250	500	9
600	4600	1533	300	500	16
700	4900	1633	300	500	16
800	5350	1783	300	500	16
900	5650	1883	300	500	16
1000	5950	1983	300	500	16
1250	6700	1675	400	500	25
1500	7300	1825	400	500	25

PLEASE CONTACT US FOR MULTIPLE CELL FOUNDATION IN DETAIL