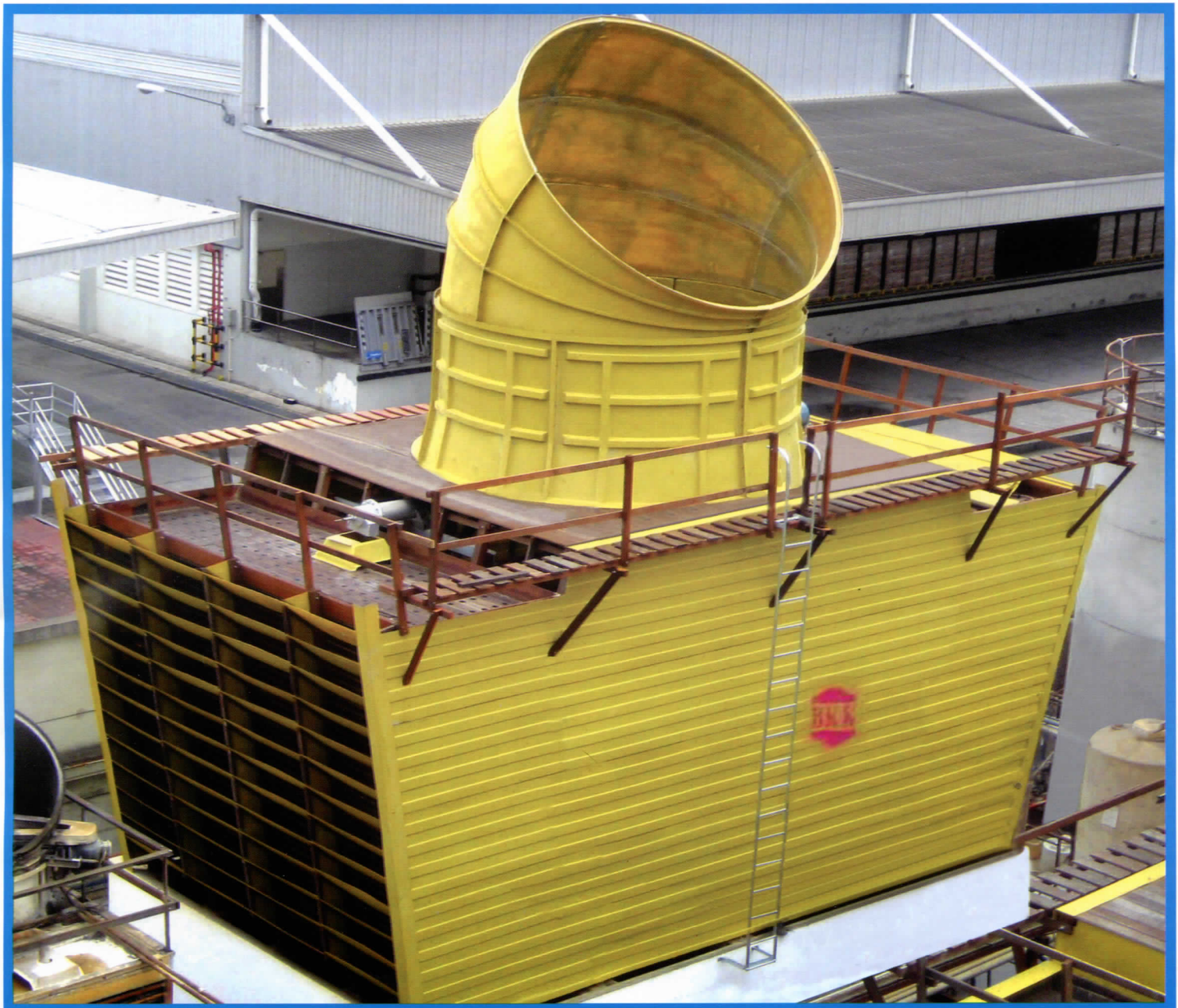




COOLING TOWER

CROSS FLOW TYPE

MODEL : BKC-M-SERIES



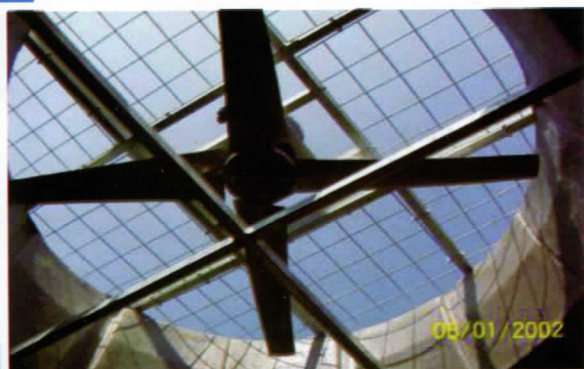
Member



ISO 9001:2008



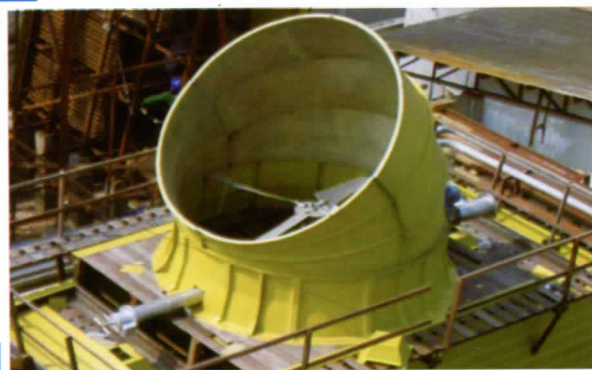
<http://www.bkkcooling.co.th>

**SERIER 200,300,400 & 500 GENERAL DESCRIPTION & FEATURES****FANS**

BKK fans are aerodynamics designed and manufactured. So. Our fans have less power consumption and quiet operation. The fan selection and fan speed for a given tower based on tower cell size, system losses and horsepower requirement. The fan blade are made of aluminum alloys which have erosion resistant.

FAN CYLINDERS

Our fan cylinders are made of Fiberglass Reinforced Polyester and Venturi-shaped designed. These shape cylinder combine minimal entrance losses with close blade tip clearance to produce optimum fan performance.

**GEAR REDUCERS**

BKK used the standard geareducers that easily maintenance. Numerous reduction ratios are available so that houepower is applied at optimum fan speed. Gear reducers selection is based on fan speed and houepower requirements.

FILLER & GRID

Filler materials are rough sawn, preservative - treated wood splash bar, and having high heat transfer efciency. It can operating at poor quality and high temperature water.





NOZZLES

Our nozzle metering orifices used in the hot water basin specially designed to deliver the required water rate and highly resistant to temperature and weathering damage. The use of nozzle also provides uniform water distribution through out filler area with no need for a separate diffusion deck.

LOUVERS

The FRP louvers are light weight and highly resistant weathering damage. Louvers are supported on wood structural in the direction that suitable for air flow and prevent splash out.

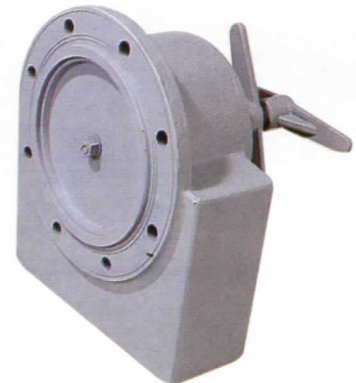


TOWER STRUCTURE

BKK cross flow cooling tower are designed for stability while operating weight. Allowable stress values for all lumber are reduced for wet service, temperature and duration as appropriate.

FLOW CONTROL VALVE

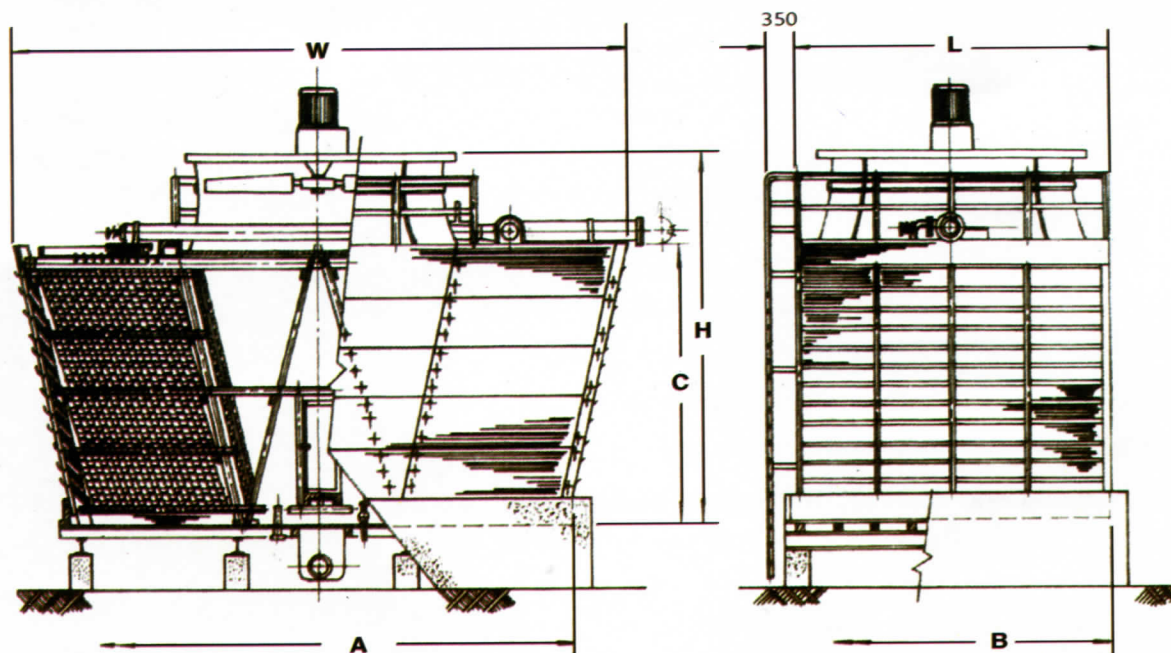
The flow control valve used in our Cross-flow Type Cooling Tower Model BKC-M is made of cast iron valve body and brass control disk. It keep the water flow smoothly without interruption and being easily adjusted for long life and low maintenance.



MATERIAL SPECIFICATIONS

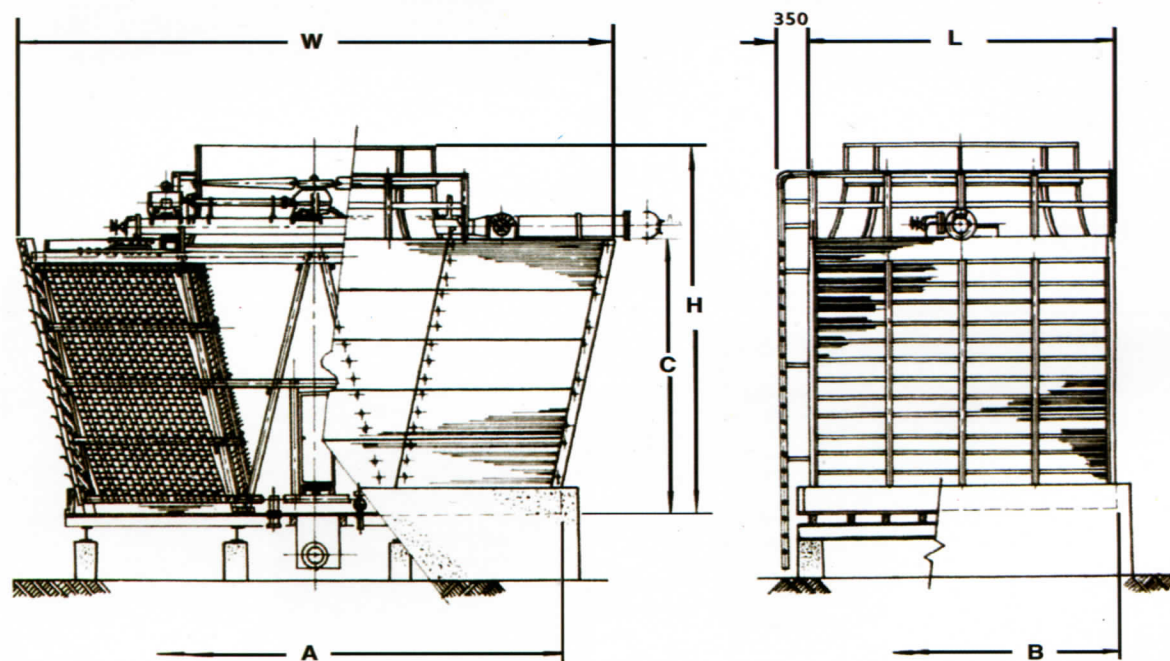
Descriptions	Materials
Motor	220/380 V.3 Ph.50/60 Hz
Fan Drive	Gear Speed Reducer
Fan Blade	Aluminium Alloys
Fan Duct	Fiber Glass Reinforce Plastic (FRP)
Top Deck	Preservative-treated Wood / FRP
Frame Work	Preservative-treated Wood
Casing	Fiber Glass Reinforce Plastic (FRP)
Filler	Preservative-treated Wood

Descriptions	Materials
Filler Grid	Fiber Glass Reinforce Plastic (FRP)
Hot Water Basin	Preservative-treated Wood / FRP
Drift Eliminator	Poly Vinyl Chloride (PVC)
Inlet Louver	Fiber Glass Reinforce Plastic (FRP)
Control Valve	Hot Dipped Galvanized Steel
Nozzle	Polypropylene
Motor Support	Hot Dipped Galvanized Steel
Cold Water Basin	Concrete (By Purchaser)



MODEL BKK - M	NOMINAL WATER FLOW M ³ / min	DIMENSION mm						FAN DIA m m	PUMP HEAD M	MOTER HP	GEAR	OPERATING WEIGHT : Kgs
		W	L	H	A	B	C					
361D-C1	3.0	5724	2580	3116	4570	2640	2116	1750 Ø	4.5	15	-	6360
2	6.0	5724	5020	3116	4570	5080	2116	1750 Ø	4.5	15	-	12720
362D-C1	3.1	6334	2580	3116	5180	2640	2116	1750 Ø	4.5	15	65	7270
2	6.2	6334	5020	3116	5180	5080	2116	1750 Ø	4.5	15	65	14540
363D-C1	3.7	5724	2580	3740	4165	2640	2740	1750 Ø	5.5	20	65	7060
2	7.4	5724	5020	3740	4165	5080	2740	1750 Ø	5.5	20	65	14120
364D-C1	4.0	6334	2580	3740	4775	2640	2740	1750 Ø	5.5	20	65	8020
2	8.0	6334	5020	3740	4775	5080	2740	1750 Ø	5.5	20	65	16040
365D-C1	4.2	6944	2580	3740	5385	2640	2740	1750 Ø	5.5	20	65	8970
2	8.4	6944	5020	3740	5385	5080	2740	1750 Ø	5.5	20	65	17940
366D-C1	4.5	6334	3800	3216	5180	3860	2116	2400 Ø	5.0	25	85	9530
2	9.0	6334	7460	3216	5180	7520	2116	2400 Ø	5.0	25	85	19060
367D-C1	4.9	6944	3800	3216	5790	3860	2116	2400 Ø	5.0	25	85	10860
2	9.8	6944	7460	3216	5790	7520	2116	2400 Ø	5.0	25	85	21720
368D-C1	5.9	6334	3800	3840	4775	3860	2740	2400 Ø	5.5	25	85	10570
2	11.8	6334	7460	3840	4775	7520	2740	2400 Ø	5.5	30	85	21140
369D-C1	6.4	6944	3800	3840	5385	3860	2740	2400 Ø	5.5	30	85	11920
2	12.8	6944	7460	3840	5385	7520	2740	2400 Ø	5.5	30	85	23840
370D-C1	6.8	7554	3800	3840	5995	3860	2740	2400 Ø	5.5	30	85	13300
2	13.6	7554	7460	3840	5995	7520	2740	2400 Ø	5.5	30	85	26600
371D-C1	7.0	6334	5020	3840	4775	5080	2740	2400 Ø	5.5	30	85	13360
2	14.0	6334	9900	3840	4775	9960	2740	2400 Ø	5.5	30	85	26720
372D-C1	7.5	6944	5020	3840	5385	5080	2740	2400 Ø	5.5	30	85	15120
2	15.0	6944	9900	3840	5385	9960	2740	2400 Ø	5.5	30	85	30240
373D-C1	8.1	7554	5020	3840	5995	5080	2740	2400 Ø	5.5	30	85	16930
2	16.2	7554	9900	3840	5995	9960	2740	2400 Ø	5.5	30	85	33860
374D-C1	9.2	6944	6240	3890	5385	6300	2740	3000 Ø	5.5	40	110	17410
2	18.4	6944	12340	3890	5385	12400	2740	3000 Ø	5.5	40	110	34820
375D-C1	9.8	7554	6240	3890	5995	6300	2740	3000 Ø	5.5	40	110	19520
2	19.6	7554	12340	3890	5995	12400	2740	3000 Ø	5.5	40	110	39040
376D-C1	10.3	8164	6240	3890	6605	6300	2740	3000 Ø	5.5	40	110	21870
2	20.6	8164	12340	3890	6605	12400	2740	3000 Ø	5.5	40	110	43740

Remark : 1. Standard design condition is based on Water Inlet 37 °C, Water Inlet 32 °C, Ambient Wet Bulb Temp. 27 °C.
2. Operating weight including tower body, water basin with contained up to 130 mm water level from the bottom.

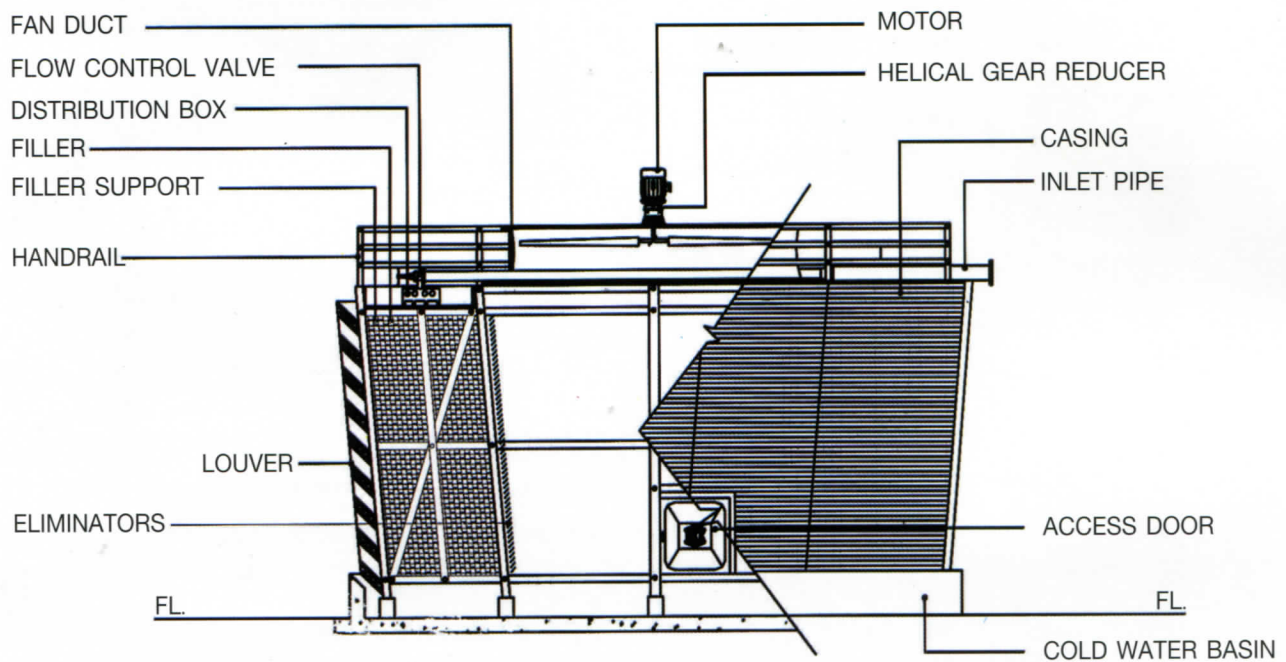


MODEL BKK - M	NOMINAL WATER FLOW M ³ / min	DIMENSION mm						FAN DIA mm	PUMP HEAD M	MOTOR HP	GEAR	OPERATING WEIGHT : Kgs
		W	L	H	A	B	C					
451D-C1	7.7	7800	3800	5415	5700	3860	4155	3000 Ø	6	30	110	16910
2	15.4	7800	7460	5415	5700	7520	4155	3000 Ø	6	30	110	33820
452D-C1	10.7	8415	5020	5415	6310	5080	4155	3600 Ø	6	40	110	22090
2	21.4	8415	9900	5415	6310	9960	4155	3600 Ø	6	40	110	44180
453D-C1	12.8	9025	6240	5420	6920	6300	4155	4270 Ø	6	50	110	28060
2	25.6	9025	12340	5420	6920	12400	4155	4270 Ø	6	50	110	56120
454D-C1	16.2	9025	7460	5420	6920	7520	4155	4270 Ø	6	60	110	32760
2	32.4	9025	14780	5420	6920	14840	4155	4270 Ø	6	60	110	65520
456D-C1	8.6	9025	3800	5415	6920	3860	4155	3000 Ø	6	30	110	20665
2	17.2	9025	7460	5415	6920	7520	4155	3000 Ø	6	30	110	41330
457D-C1	11.8	9635	5020	5415	7530	5080	4155	3600 Ø	6	40	110	27015
2	23.6	9635	9900	5415	7530	9960	4155	3600 Ø	6	40	110	54030
458D-C1	16.2	10245	6240	5420	8140	6300	4155	4270 Ø	6	50	135	34120
2	32.4	10245	12340	5420	8140	12400	4155	4270 Ø	6	50	135	68240
459D-C1	17.9	10245	7460	5420	8140	7520	4155	4270 Ø	6	60	135	39955
2	35.8	10245	14780	5420	8140	14840	4155	4270 Ø	6	60	135	79910
472D-C1	15.1	10080	5020	6335	7530	5080	5070	3600 Ø	7	40	110	30850
2	30.3	10080	9900	6335	7530	9960	5070	3600 Ø	7	40	110	61700
473D-C1	19.1	10590	6240	6335	8140	6300	5070	4270 Ø	7	60	135	38850
2	38.2	10590	12340	6335	8140	12400	5070	4270 Ø	7	60	135	77700
474D-C1	20.6	10590	7460	6335	8140	7520	5070	4270 Ø	7	60	135	45600
2	41.2	10590	14780	6335	8140	14840	5070	4270 Ø	7	60	135	91200
475D-C1	22.4	11300	7460	6335	8750	7520	5070	4880 Ø	7	60	135	47600
2	44.8	11300	14780	6335	8750	14840	5070	4880 Ø	7	60	135	95200

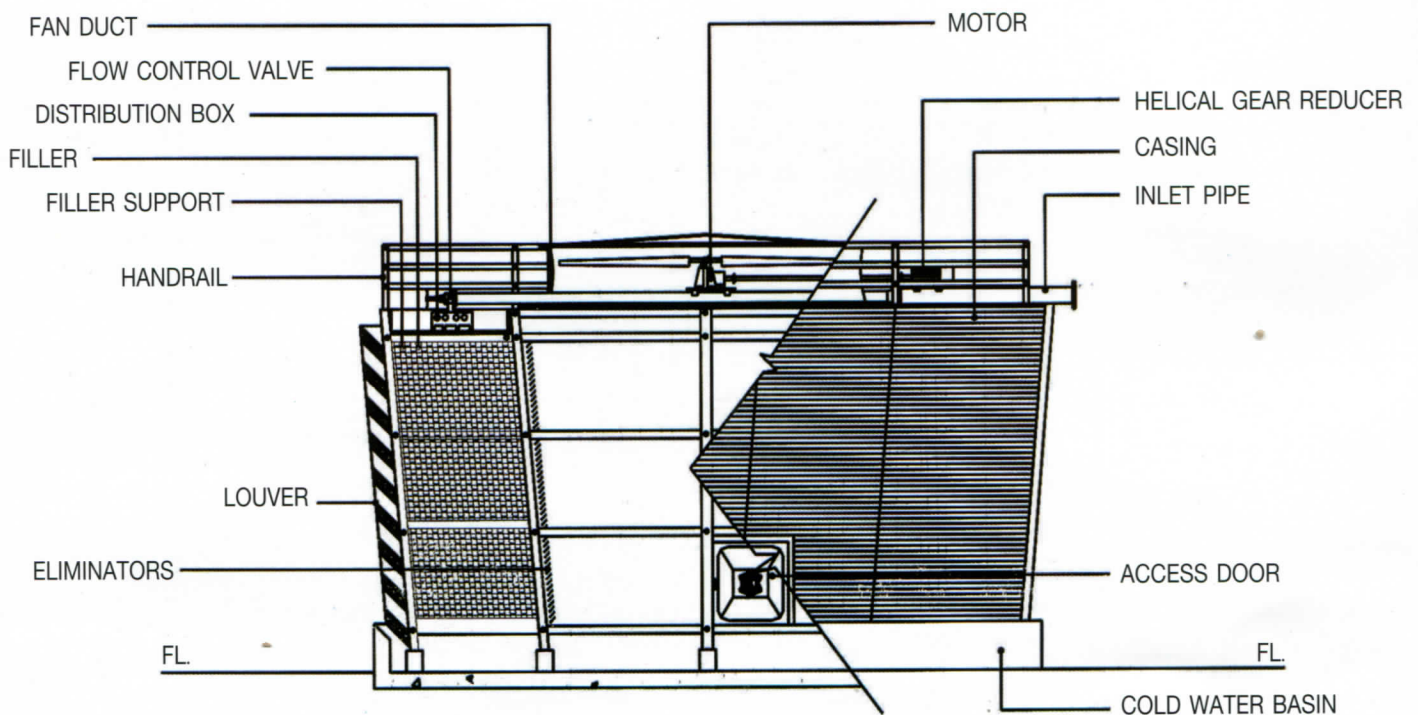
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SERIER 200 & 300 CONSTRUCTION



SERIER 400 & 500 CONSTRUCTION



PURCHASER'S SPECIFICATIONS

Purchaser's specifications must clearly outline all conditions which are applicable to the installation so that economical cooling tower selection can be made based on a total cost evaluation including not only capital investment but also operating cost. Items which should be given consideration for inclusion in specifications are Listed below.

1. DESIGN CONDITION

1. Total Heat Load : Kcal/Hr
2. Circulating Water Flow : M³/Hr
3. Pumping Head Required : M
4. Water Inlet Temp. : °C
5. Water Outlet Temp. : °C
6. Ambient Wet Bulb Temp. : °C
7. Average Wind Velocity and Direction
8. Available Installation Area
9. Electrical Voltage and Frequency
10. Conditions of Area Surrounding Installation Site.

2. MATERIALS TO BE USED

1. Mechanical Equipment Material Including Fan, Reducer & Drive Shaft
2. Materials of Framework and Casing
3. Materials and Treatment of Structure Connectors
4. Materials and Treatment of Piping System

3. OTHER ITEMS

1. Purpose of Tower Useage
2. location of Piping
3. Capacity of Cold Water Basin
4. Quality of Circulation Water
5. Time of Delivery

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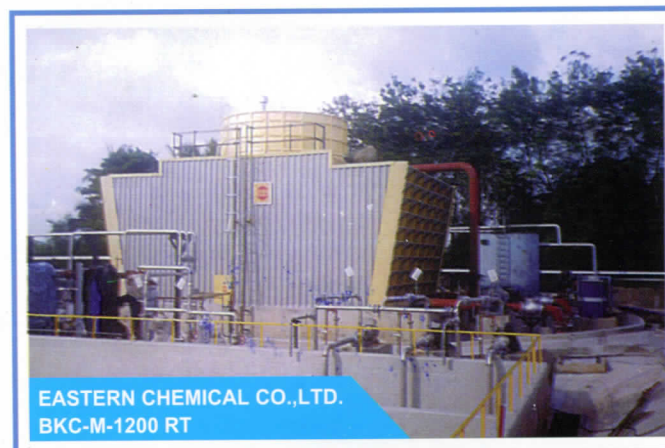
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Proj. Suntiab Vegetable Oil
Model : BKC-M-600 RT x 2 Cells



Proj. Lamsoon
Model : BKC-M-800 RT-1C



EASTERN CHEMICAL CO.,LTD.
BKC-M-1200 RT



THE SIAM CONSTRUCTION STEEL CO.,LTD.
BKC-M-600 RT x 3 CELLS



INDO POLY CO.,LTD.
BKC-M-1000 RT x 2 CELLS

B.K.K. COOLING & ENGINEERING CO., LTD. (THAILAND)

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