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Registered CIDB G7 Contractor

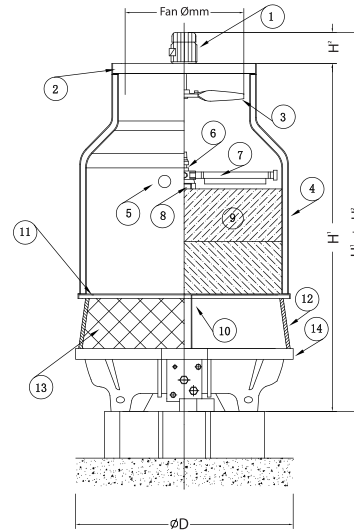
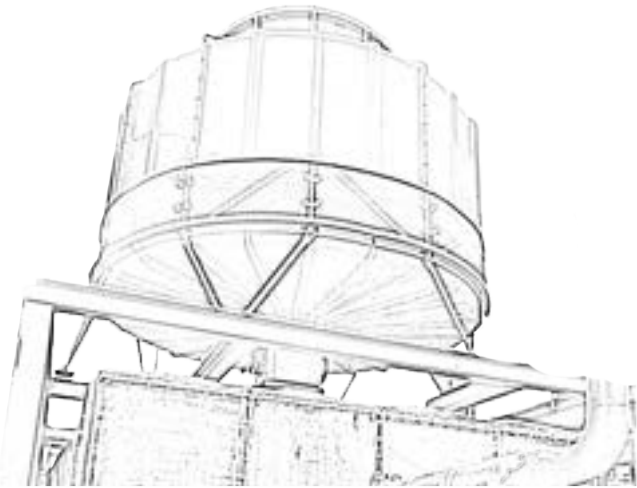
AMCON COOLING TOWER

ART SERIES

FRP COUNTER FLOW ROUND COOLING TOWER



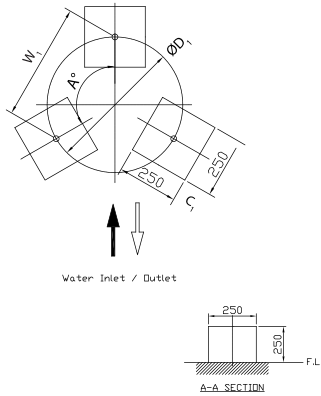
AMCON (ART) Cooling Towers are compact in design and suitable for equipment cooling, industrial process cooling and air-conditioning systems.



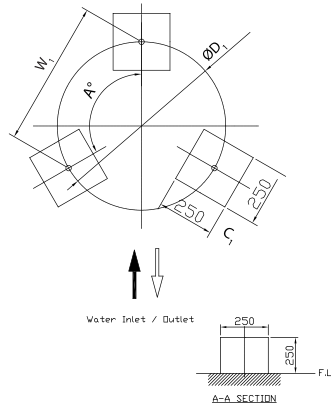
Item	Description
1	Fan Motor
2	Motor Frame Ass'y
3	Fan
4	Casing
5	Hand Hole
6	Sprinkler Head
7	Sprinkler Pipe
8	Stand Pipe
9	Filling
10	Stopper or Column
11	Filling Supportor
12	Casing Supportor
13	Inlet Louver
14	Water Basin

TOWER MODEL	Cooling Capacity Kcal / Hr	Nominal Water Flow l / min	mm Dimensions					Fan Assembly		Pipe Connection [A] mm					
			H'	H''	ØD	Motor HP	Shaft Diameter	Air Volume m ³ / min	Fan Ø mm	Inlet	Outlet	Drain	Overflow	Auto Filler	Quick Filler
ART-10	39,000	130	1,630	160	915	¼HPx6P	18	90	630	40A(1½B)	40A(1½B)	25A(1B)	25A(1B)	15A(½B)	15A(½B)
ART-15	58,500	195	1,525	170	1,170	½HPx6P	18	140	630	50A(2B)	50A(2B)	25A(1B)	25A(1B)	15A(½B)	15A(½B)
ART-20	78,000	260	1,700	180	1,170	¾HPx6P	18	160	770	50A(2B)	50A(2B)	25A(1B)	25A(1B)	15A(½B)	15A(½B)
ART-25	97,500	325	1,875	180	1,400	1 HPx6P	20	200	770	80A(3B)	80A(3B)	25A(1B)	25A(1B)	15A(½B)	15A(½B)

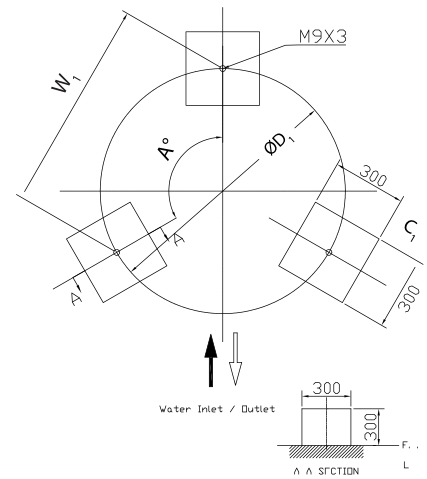
RECOMMENDED CONCRETE FOUNDATION



ART-10



ART-15~20



ART-25

TOWER MODEL	Approx. Wt.		Foundation Dimensions							
	(kg) Dry	(kg) Operating	ØD ₁ mm	ØD ₂ mm	ØD ₃ mm	W ₁ mm	W ₂ mm	C ₁ mm	C ₂ mm	A°
ART-10	46 kgs	190 kgs	560	-	-	485	-	250	-	120°
ART-15	60 kgs	298 kgs	740	-	-	641	-	250	-	120°
ART-20	80 kgs	320 kgs	854	-	-	740	-	250	-	120°
ART-25	98 kgs	500 kgs	1,000	-	-	866	-	300	-	120°

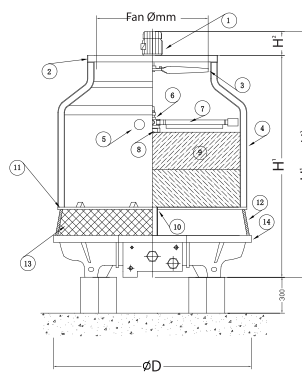
REMARKS:

1. THIS FOUNDATION DRAWING IS PROVIDED FOR END USER'S REFERENCE.
2. COOLING TOWER DOES NOT INCLUDE FOUNDATION AND ANCHOR BOLTS.
3. THE TOLERANCE LEVEL FOR FOUNDATION IS ±2mm.
4. THE HEIGHT OF FOUNDATION EXCLUDES THERMAL ISOLATOR AND WATER PROOF.

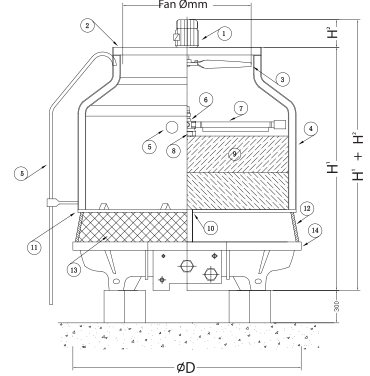
NOTE: This drawing is used for ART Series Cooling Tower

STANDARD SPECIFICATION ART-30~500

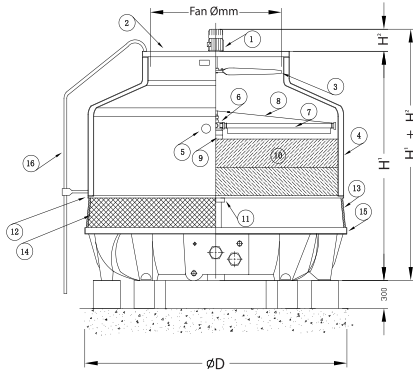
Item	Description	Item	Description
1	Fan Motor	11	Filling
2	Motor Frame Ass'y	12	Stopper or Column
3	Belt Reducer	13	Filling Supportor
4	Fan	14	Casing Supportor
5	Casing	15	Inlet Louver
6	Hand Hole	16	Water Basin
7	Sprinkler Head	17	Ladder
8	Sprinkler Pipe c/w Eliminator	18	Strainer
9	Tension Wire c/w Turnbuckle	19	Water Sump
10	Stand Pipe	20	Float Valve



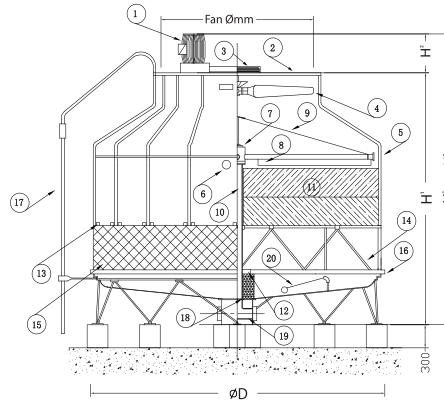
ART-30~50



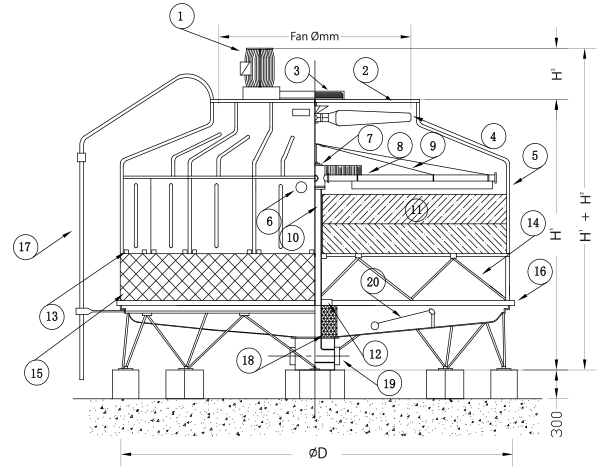
ART-60~80



ART-100~200



ART-225~350



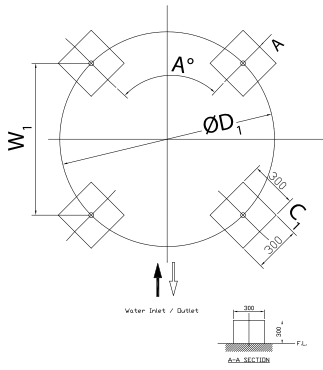
ART-400~500

TOWER MODEL	Cooling Capacity Kcal / Hr	Nominal Water Flow l / min	mm Dimensions					Fan Assembly		Pipe Connection [A] mm					
			H'	H'	ØD	Motor HP	Shaft Diameter	Air Volume m ³ / min	Fan Ø mm	Inlet	Outlet	Drain	Overflow	Auto Filler	Quick Filler
ART-30	117,000	390	1,845	180	1,650	1.0HPx6P	20	270	770	80A(3B)	80A(3B)	25A(1B)	25A(1B)	15A(1/2B)	15A(1/2B)
ART-40	156,000	520	1,910	200	1,650	2.0HPx6P	20	310	930	80A(3B)	80A(3B)	25A(1B)	25A(1B)	15A(1/2B)	15A(1/2B)
ART-50	195,000	650	1,850	200	1,865	2.0HPx6P	20	400	930	80A(3B)	80A(3B)	25A(1B)	25A(1B)	15A(1/2B)	15A(1/2B)
ART-60	234,000	780	2,080	270	2,100	2.0HPx8P	28	500	1,180	100A(4B)	100A(4B)	25A(1B)	25A(1B)	20A(3/4B)	20A(3/4B)
ART-80	312,000	1,040	2,180	270	2,100	2.0HPx8P	28	630	1,180	100A(4B)	100A(4B)	25A(1B)	25A(1B)	20A(3/4B)	20A(3/4B)
ART-100	390,000	1,300	2,465	270	2,900	3.0HPx8P	34	800	1,450	125A(5B)	125A(5B)	25A(1B)	25A(1B)	25A(1B)	25A(1B)
ART-125	487,500	1,625	2,345	320	2,900	3.0HPx8P	34	1,000	1,450	125A(5B)	125A(5B)	40A(1 1/2B)	40A(1 1/2B)	20A(3/4B)	20A(3/4B)
ART-150	585,000	1,950	2,525	320	2,900	3.0HPx8P	34	1,170	1,450	150A(6B)	150A(6B)	40A(1 1/2B)	40A(1 1/2B)	20A(3/4B)	20A(3/4B)
ART-175	682,500	2,275	2,870	350	3,310	5.0HPx10P	-	1,380	1,750	150A(6B)	150A(6B)	40A(1 1/2B)	40A(1 1/2B)	20A(3/4B)	20A(3/4B)
ART-200	780,000	2,600	2,870	350	3,310	5.0HPx10P	-	1,560	1,750	150A(6B)	150A(6B)	40A(1 1/2B)	40A(1 1/2B)	20A(3/4B)	20A(3/4B)
ART-225	877,500	2,925	3,640	590	4,120	7.5HPx4P	-	1,750	2,130	200A(8B)	200A(8B)	40A(1 1/2B)	40A(1 1/2B)	25A(1B)	25A(1B)
ART-250	975,000	3,250	3,640	590	4,120	7.5HPx4P	-	1,950	2,130	200A(8B)	200A(8B)	40A(1 1/2B)	40A(1 1/2B)	25A(1B)	25A(1B)
ART-300	1,170,000	3,900	3,650	680	4,730	10HPx4P	-	2,340	2,400	200A(8B)	200A(8B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)
ART-350	1,365,000	4,550	3,650	680	4,730	10HPx4P	-	2,730	2,400	200A(8B)	200A(8B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)
ART-400	1,560,000	5,200	3,870	710	5,600	15HPx4P	-	3,100	2,740	200A(8B)	200A(8B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)
ART-500	1,950,000	6,500	3,870	710	5,600	15HPx4P	-	3,250	2,740	250A(10B)	250A(10B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)	40A(1 1/2B)

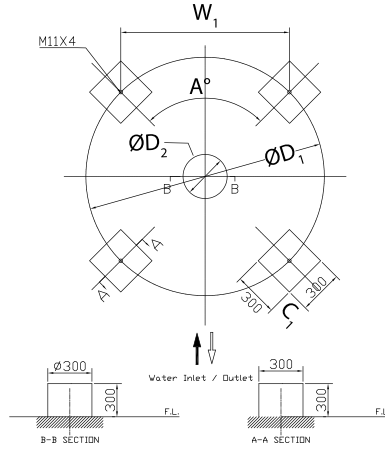
* 1) Cooling Capacity defined as 13l/min / RT (1RT=3,900 Kcal / HR), cooled from 37°C to 32°C with 28°C wet bulb temperature.

* 2) We reserve the right to make changes in the specifications and dimensions without prior notice.

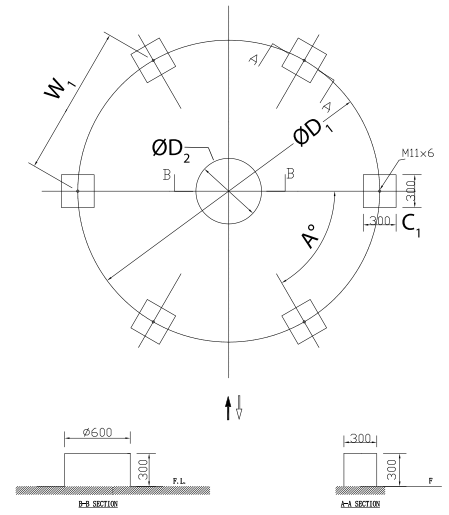
RECOMMENDED CONCRETE FOUNDATION



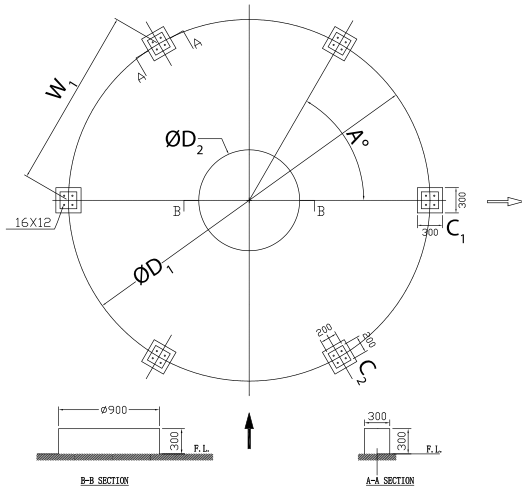
ART-30~50



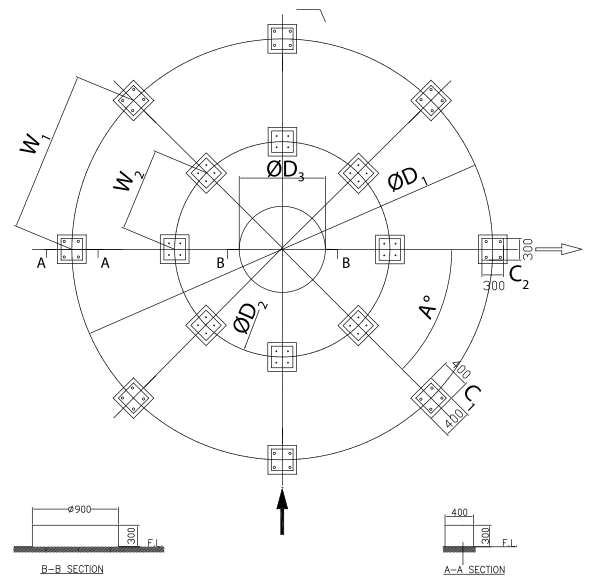
ART-60~100



ART-125~200



ART-225~350



ART-400~500

TOWER MODEL	Approx Wt.		Foundation Dimensions							
	(kg) Dry	(kg) Operating	ØD ₁ mm	ØD ₂ mm	ØD ₃ mm	W ₁ mm	W ₂ mm	C ₁ mm	C ₂ mm	A°
ART-30	116 kgs	530 kgs	1,260	-	-	891	-	300	-	90°
ART-40	150 kgs	590 kgs	1,120	-	-	792	-	300	-	90°
ART-50	210 kgs	1,050 kgs	1,380	-	-	976	-	300	-	90°
ART-60	260 kgs	1,280 kgs	1,620	300	-	1,146	-	300	-	90°
ART-80	290 kgs	1,410 kgs	1,595	300	-	1,130	-	300	-	90°
ART-100	550 kgs	1,650 kgs	2,400	600	-	1,180	-	300	-	60°
ART-125	580 kgs	1,700 kgs	2,495	600	-	1,248	-	300	-	60°
ART-150	600 kgs	1,750 kgs	2,495	600	-	1,248	-	300	-	60°
ART-175	860 kgs	1,960 kgs	2,760	600	-	1,380	-	300	-	60°
ART-200	880 kgs	1,980 kgs	2,760	600	-	1,380	-	300	-	60°
ART-225	1,100 kgs	2,870 kgs	4,300	900	-	2,150	-	300	200	60°
ART-250	1,200 kgs	2,950 kgs	4,300	900	-	2,150	-	300	200	60°
ART-300	1,820 kgs	4,050 kgs	4,920	900	-	2,460	-	300	200	60°
ART-350	1,890 kgs	4,100 kgs	4,920	900	-	2,460	-	300	200	60°
ART-400	2,840 kgs	5,740 kgs	5,760	3,000	900	2,205	1,148	400	300	45°
ART-500	2,900 kgs	5,800 kgs	5,760	3,000	900	2,205	1,148	400	300	45°

REMARKS:

1. THIS FOUNDATION DRAWING IS PROVIDED FOR END USER'S REFERENCE.
2. COOLING TOWER DOES NOT INCLUDE FOUNDATION AND ANCHOR BOLTS.
3. THE TOLERANCE LEVEL FOR FOUNDATION IS ±2mm.
4. THE HEIGHT OF FOUNDATION EXCLUDES THERMAL ISOLATOR AND WATER PROOF.

NOTE: This drawing is used for ART Series Cooling Tower

APPLICATION

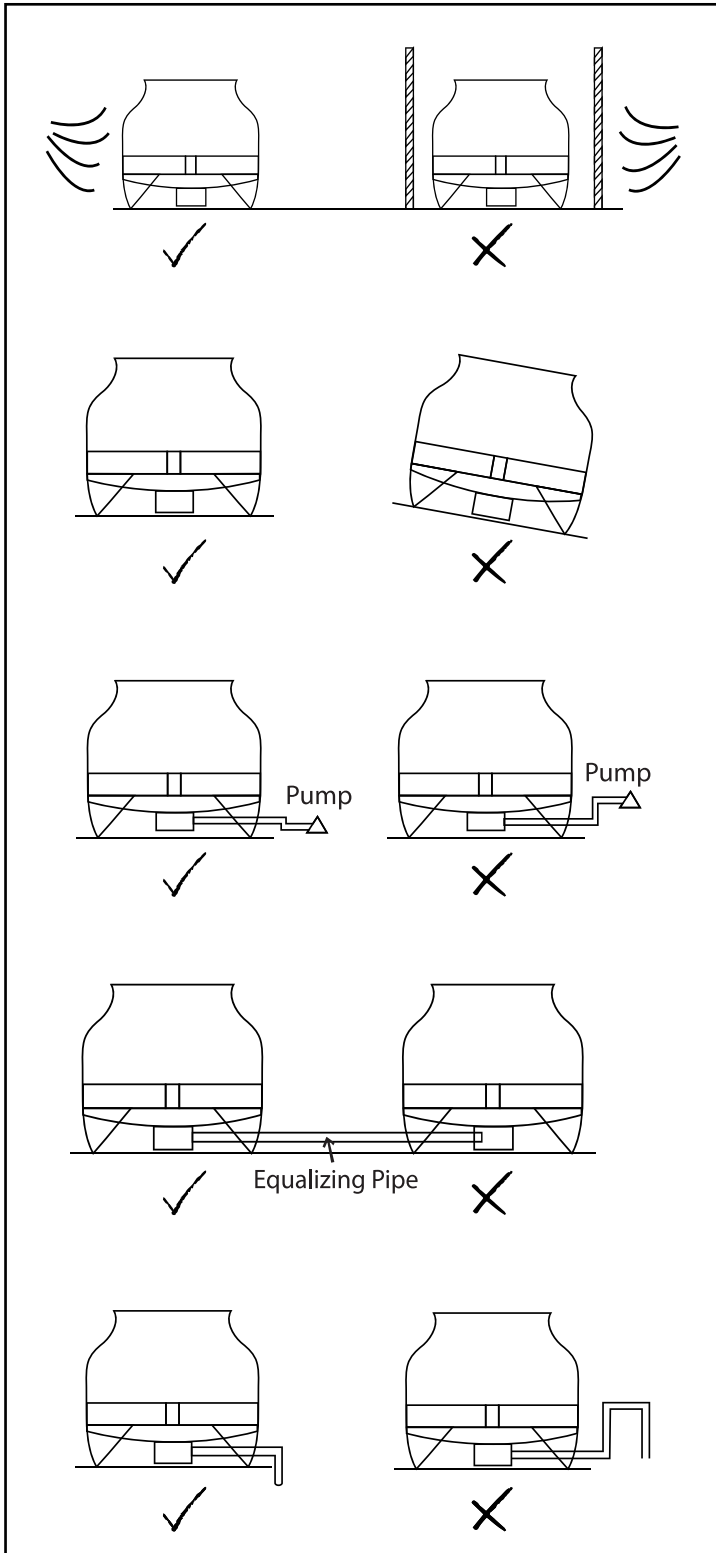
For more detailed recommendations and selection of AMCON ART SERIES COOLING TOWER, please consult our representative with the following data:

1. Cooling water flow rate.
2. Cooling water inlet temperature.
3. Cooling water outlet temperature.
4. Ambient wet bulb temperature.
5. Power Supply-Phase / Voltage / Frequency.

INSTALLATION, OPERATION & MAINTENANCE

1. ART Series cooling tower must be installed at good ventilating location, and direction of the air intake has to be kept such distance from the building against shielding wind or reflowing of wet hot air. ART Series cooling tower must not be located at the downdraft where it is full of hot air or dust.
2. The concrete foundation for ART Series cooling tower is constructed according to the given dimension, the height of all the concrete foundation must be on the same level with tolerance level of $\pm 2\text{mm}$.
3. Avoid to deform the FRP basin and casing, the installer has to step on the strengthen parts of the basin and tighten all bolts gradually during the assembly. Before sealing fiberglass mat & resin on the water basin, we must confirm that the basin is not deformed and the joining section is clean and dry to prevent any water leaking.
4. Fan must rotate clockwise and discharge the air upward. The gap between the fan blade and the casing must be equal. All fan blades have been set to the recommended pitch angle. To adjust fan blades, the customer must ensure the same angle for all fan blades and check the fan in order to ensure that the electric current and power is within the motor rating.
5. Motor is connected by the way of "Y or Δ ", then seal up the junction box.
6. The unbalanced - phase protection device and overload protection device are required as protection for the fan motor.
7. Belt must be adjusted before the operation. It has the tendency to stretch at the initial stage so that it should be replaced or adjusted if necessary
8. For better performance and ease of maintenance, please use only clean water for ART Series Cooling Tower operation. Do not use greasy or dirty water.
9. Take note of any unusual electric current reading, changeable of water temperature and unusual noise during ART Series Cooling Tower operation and consult our representative for technical support.

Quick Installation Guide



SELECTION OF LOCATION

- 1) Roof top or any spot where the supply of air to the cooling tower is not restricted.
- 2) Keep away from kitchen, boiler room, dusty yard, under trees and where corrosive gas emits.
- 3) Provide ample space for piping and service access.

POSITION

- 1) At a position offering convenience in piping works and water source.
- 2) The ART Series Cooling Tower must set on a foundation that is level and flat.
- 3) Anchor bolt should be securely tightenend.

PIPING

- 1) Piping should be adequately sized.
- 2) For positive suction of pump, the pump should be located below the bottom of the cooling tower sump with at least 300mm lower.
- 3) For multiple unit installation which share a common water pump, it's necessary to fix an equalizing pipe to balance the water level among the cooling towers.
- 4) Piping connections from the cooling tower sump must be same level with the sump to avoid air-lock in the piping system.

Manufactured by :

AMCON (HK) SALES & SERVICE PTE LTD (2382511)

Distributed in South East Asia by :

AMCON (M) SALES & SERVICE SDN BHD (Company No. 199201018453 (249957-V))

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