



SUPER TOWER INDUSTRIES



COOLING TOWER
MANUFACTURER



BND SERIES
BHD SERIES
FBND SERIES
FBNZ SERIES
FBNG SERIES
WATER TANK

ADVANTAGES

- **SPACE SAVER**
- **ENERGY SAVER**
- **LOW MAINTENANCE COST**
- **LOW NOISE**
- **LOW DRIFT LOSS**
- **COMPACT UNIT**
- **QUAKE PROOF DESIGN**

COMPANY PROFILE



SUPER TOWER INDUSTRIES
COOLING TOWER MANUFACTURER



SUPER TOWER INDUSTRIES is established as a professional company manufacturing cooling towers in Singapore and China, and has been actively involved in supplying, installing and maintaining top quality cooling towers all over Singapore.

SUPER TOWER INDUSTRIES is certified and registered as a Cooling Tower Institute (CTI) Member in U.S.A. We hold a unique position in the industry, for not only do we supply, install and maintain Cooling Towers, our factory in Singapore and China also manufactures all kinds of Cooling Towers such as : FRP Bottle type, Counter flow round type, Cross flow square type, special custom made type and other spare parts for all kind of Cooling Tower, example: crossflow square tower with side discharge.

Our Cooling Tower are featured with energy saving, compact and light weight, reduced noise pollution, corrosion resistant, fireproof and quakeproof. We provide easy access to all kinds of Cooling Tower spare parts such as Sprinkler heads, Sprinkler pipes, Suction Strainers, PVC infill, aluminium infilled, Drift eliminators, etc.

New regulations were imposed by ENV in Singapore to control Legionnaires Disease on all Cooling Towers under Chapter 95 act. We (**SUPER TOWER INDUSTRIES**) are pleased to introduce and highlight that we have innovative design for supplying all makes and models of round and square Cooling Tower's Drift Eliminator based on the latest ENV Regulation.

SUPER TOWER INDUSTRIES management spirit is firmly grounded in the belief that we must offer only the highest quality services to our clients and engage in business relationship which are not only beneficial to ourselves, but to our clients as well. This principal has been the guiding influence on all **SUPER TOWER INDUSTRIES** business strategies and goals.



HANDING INSTRUCTIONS

A INSTALLATION

1. LOCATION

To keep the cooling tower in full swing, choose a place according to the following conditions.

- a. Well- ventilated, clean.
- b. Exhaust air from the cooling tower is not circulated and sucked again into the tower.
- c. Free from much dust and dirt, sulfurous acid and other hazard gases; these are major cause to damage the refrigerator condenser.
- d. Not in the vicinity of kitchen or restroom exhaust ports, or ammonia type copying machine.
- e. Not near smokestack or stovepipe, or radiant heat from any other heat source.
- f. Open and not affected by sound echo.
- g. 2.7m or more space between the cooling tower air inlet and the wall or other barrier.

2. PROCEDURE

- a. Prepare the foundation, referring to the related drawings.
- b. Make the foundation top even and level.

3. PIPING

- a. The pipes above the cold water basin's water level especially the horizontal line atop the tower body should be as short as possible. This helps to keep backwater at minimum when the cooling tower stops
- b. There are plural pipes leading to the distribution basin. Be sure to equip a flow control valve with each of the hot water inlet pipes. The internal piping type is equipped with a simple flow control valve. An overall flow control valve should be equipped at the circulating water pump outlet.
- c. To fix the tower-top pipe supports, use distribution basin mounting bolts. The bolts at fan side can be screwed from inside, while those at louver side can be tightened after detaching the style strip.
- d. The inlet pipe should be positioned about 50mm below the cooling tower top deck.
- e. To prevent the make-up water inlet pipe from damage by freezing in winter, equip a drain cock at the bottom in between the valve and the make-up water inlet pipe connection.

B BEFORE OPERATION

1. Turn the fan blade by hand to make sure the blade tips are out of contact with the fan stack.
2. Run the fan for a while and check for turning direction (arrow-marked), unusual sound, excess vibrations, etc.
3. Fill the cold water basin up to the top level of the overflow pipe.
4. Run the circulating pump for a while to force air out of the pipes until the pipes and cold water basin are filled up with water. Be careful not to allow air to be suck into the cooling water pipe.
5. Bring the circulating pump into full operation and adjust the flow control valve so that the water level of the distribution basin is well balanced. The circulating water flow rate is than adjusted with the overall flow control valve located at the circulating pump outlet.
6. The ball tap of the automatic make-up water inlet pipe should be adjusted so that water interrupted slightly below the overflow water level.

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