# **E**vaporative **C**ooling **T**ower

**Compressed Air & Cooling Systems** 

Capacity: 7.5 to 1000 TR • Inlet Temperature: 30 to 90°C • Outlet Temperature: WBT +2° to 4°C









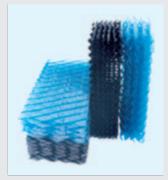




### **PRODUCT FEATURES**

Design: Evaporative (FRP) Cooling towers are of vertical induced draft counterflow design with uniform water distribution and optimal heat transfer. Towers can be installed independent of wind direction.

Casing : The tower casing is made of tough fibreglass reinforced plastic (FRP) and has sufficient structural strength to withstand high wind velocities and vibrations. UV - stabilised resin is used along with gel coat for longerlife. It is resistant to local impacts and even if slight damage occurs, local repairs can easily be done. The portion of casing housing fill and eliminator has a roundcross section. The water collection sump, also of FRP, is leak proof& avoids water spillage.



pressure drop and minimises the drift loss of water.

Fill : The fill is of rigid Poly Vinyl Chloride (PVC) and is of honeycomb design with very large contact surface area. The fill splits the air and water into several streams, increasing the time of contact and also heat transfer between water and air. The fill is inmodules and is packed in the tower casing without any cutting for curves. The air pressure drop through the fill is negligible. The fills are available with flute height of 6mm, 12mm, and 19mm with sheet thickness of 1mm and 1.2mm.

Sprinkler: Automatic rotary sprinkler system made of Nylon 66 material, with rotary head and sprinkler pipe distributes the hot water over the entire space of the filler. Sprinkler pipes are non-clogging, require low pressure to operate and assures uniform water flow with minimal operating pump

head. The FRP eliminators attached to sprinkler pipe are specifically designed for low



SCSP Nozzles: The performance of cooling tower greatly depends upon the water distribution over the fills. SCSP nozzles distribute water evenly

through a wide spray angle without any dry pockets. They are lightweight and reduce the frequency of clogging. The Solid Cone Square Pattern (SCSP) nozzles produce a solid cone spray of water that is distributed in a square pattern onto the fills.

Drift Eliminator: Reduces carry over losses of water. The eliminator is of rigid PVC (Applicable for square type cooling tower). The individual drift eliminators of

S-shaped corrugated sheets are bonded with subsequent layers to create the structure. The entire area is thus divided into several fine S shaped mini zones each removing water droplets on the entire surface of the cell.





Axial Fan : Specially designed energy efficient fans are of induced-draft axial type with adjustable pitch. Material chosen are non corrosive of plastic, FRP or aluminium alloy. The high efficiency design ensures low running cost and the lowest possible noise level. Fan blade pitch is factory set and dynamically balanced.

Motors : The motors are totally enclosed (IP55), flange type, 415V, 3 ph, 50 Hz, induction weather proof with SS304 extended shaft and are specially designed for cooling tower application.

Corrosion Free : The tower casing

is of FRP, fill and eliminator are of PVC, and SS304 fasteners are used, thus eliminating corrosion, the biggest enemy of cooling tower. All steel components such as motor support, water distribution pipes, hardware etc., are hot dip or spray galvanized.

Lightweight: The towers are compact and light weight resulting in easy delivery to site and installation. Light weight also saves on structural and masonry. Roof installation can also be done without any special reinforcements.

Installation, Service & Maintenance : Towers of lower capacity are completely factory assembled before despatch. At site the tower has just to be bolted, on the RCC / brick masonry foundation, thus saving a lot of installation time. Towers of higher capacity can easily be assembled at site and then installed in a manner similar to small towers. Maintenance is considerably reduced because fan, sprinkler fill and eliminator can easily be approached from the top without disturbing the cooling tower casing.

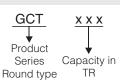


## TECHNICAL SPECIFICATION

Coolina	Tower,	Evaporative,	Round	gavT
coomig	1011017	L'aporanito,	100110	1900

Model Base Model Variance		Motor	Fan Dia,	In / Out Size (NB)	Overall Dimension	Shipping Weight,	Operating Weight,		
	L	н	Р	HP / rpm	mm	512e (ND)	(DxH), mm	kg	kg
GCT 007	1	1	~	0.5 / 1440	450 (PVC)	11⁄2" / 11⁄2"	930 x 1500	90	225
GCT 010	1	1	✓	0.5 / 1440	450 (PVC)	11⁄2" / 11⁄2"	930 x 1690	90	340
GCT 015	1	1	1	0.75 / 1440	700 (FRP)	2" / 2"	1180 x 1650	90	440
GCT 020	1	1	✓	1 / 950	750 (Nylon)	2" / 21⁄2"	1380 x 1800	110	470
GCT 030	1	1	✓	1 / 950	750 (Nylon)	21⁄2" / 3"	1660 x 1860	180	550
GCT 040	1	1	✓	1 / 950	850 (Nylon)	3" / 3"	1780 x 1950	210	710
GCT 050	1	1	1	2 / 950	900 (Nylon)	3" / 3"	1900 x 2120	275	775
GCT 060	1	1	√	3 / 950	1160 (AI)	3" / 3"	1920 x 2720	340	810
GCT 080	1	1	√	3 / 950	1160 (AI)	4" / 4"	2150 x 2670	385	900
GCT 100	1	1	√	5 / 950	1400 (AI)	5" / 5"	2895 x 3050	625	1900
GCT 125	1	1	✓	5 / 950	1400 (AI)	5" / 5"	2950 x 3250	810	2310
GCT 150	1	1	√	5 / 950	1600 (AI)	5" / 5"	3000 x 3950	1010	2700
GCT 200	1	1	√	7.5 / 710	1800 (AI)	6" / 6"	3300 x 4230	1100	3060
GCT 300	√	√	√	12.5 / 600	2400 (AI)	8" / 8"	4450 x 3900	2200	4070

#### Model Nomenclature :



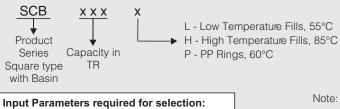
L - Low Temperature Fills, 55°C ► H - High Temperature Fills, 85°C

P - PP Rings, 60°C

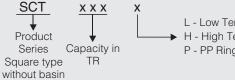
Cooling Tower, Evaporative, Square Type

Base Model Variance			Motor	Fan Dia, mm	In / Out Size (NB)	Overall Dimension	Shipping Weight,	Operating Weight,	
	L	н	Р	HP / rpm	P/rpm mm	512e (ND)	(LxWxH), mm	kg	kg
SCB 010	1	1	✓	0.5 / 1440	450 (PVC)	2" / 2½"	815 x 815 x 1600	80	220
SCB 015	1	✓	✓	0.5 / 1440	450 (PVC)	2" / 2½"	815 x 815 x 1950	80	220
SCB 030	1	✓	✓	1 / 950	750 (Nylon)	2" / 2½"	1130 x 1130 x 2235	235	790
SCB 040	1	✓	✓	2 / 950	1000 (AI)	3" / 3"	1440 x 1440 x 2590	255	805
SCB 060	1	1	✓	3 / 950	1000 (AI)	3" / 3"	1740 x 1740 x 2810	310	1070
SCT 100	1	√	✓	5 / 950	1400 (AI)	5" / 5"	2130 x 2130 x 3100	575	1675
SCT 150	1	1	✓	5 / 950	1400 (AI)	6" / 6"	2650 x 2150 x 3200	690	2075
SCT 200	1	✓	✓	7.5 / 710	1800 (AI)	8" / 8"	2650 x 2650 x 3225	950	2200
SCT 250	1	1	✓	10 / 710	1800 (AI)	8" / 8"	3150 x 2650 x 3350	1075	2340
SCT 300	1	√	✓	12.5 / 600	2200 (AI)	8" / 8"	3150 x 3150 x 3500	1270	2605
SCT 400	✓	1	✓	15 / 360	2400 (FRP)	10" / 10"	4000 x 4000 x 3965	2150	4300
SCT 500	√	√	√	20 / 360	3000 (FRP)	10" / 10"	4500 x 4500 x 3965	2400	4700
SCT 600	1	√	✓	20 / 270	3660 (FRP)	10" / 10"	5200 x 5200 x 4465	2700	5200
SCT 800	1	√	✓	25 / 270	4260 (FRP)	12" / 12"	6000 x 6000 x 4465	3200	5600
SCT 1000	✓	1	1	25 / 200	4870 (FRP)	14" / 14"	6700 x 6700 x 5020	3800	5900

#### Model Nomenclature :



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L - Low Temperature Fills, 55°C H - High Temperature Fills, 85°C P - PP Rings, 60°C

#### Note: SCB model variance from 100 to 300 TR are also available.

Illustrations / Specifications are subject to change due to constant upgradation of products. For Shipping dimension of Overseas supply, please contact factory.

1. Hot water temperature

- 2. Cold water temperature
- 3. Wet bulb temperature
- 4. Water flow

# Some OF OUR VALUABLE CUSTOMERS

Advanced Enzyme Technologies Ltd, Sinnar, Nashik, MH Arjuna Naturals, Alway, Kerala Artimish Biotech - Hyderabad, AP Ashok Iron Works, Belgaum, KA Ashok Leyland, Hosur, TN B. Seenaiah & Company Projects, Chittore, AP Bajajsons Ltd, Nashik, MH Bannari Amman Sugars, Sathyamangalam, TN Bedmutha Wire Company Ltd, Sinnar, Nashik, MH BOC India Ltd, Kolkata, WB Capro Engineering India Pvt Ltd, Jamshedpur, JH Cethar Vessals Ltd, Trichy, TN Chettinad Cements, Karur, TN Crompton Greaves Ltd, Nashik, MH Delta Finochem, Nashik, MH Elgi Equipments Ltd, Coimbatore, TN Finolex Industries, Pune, MH Hetro Drugs Ltd, Hyderabad, AP Hetro Labs Ltd, Hyderabad, AP Hi-Tech Minerals Industries, Salem, TN Hyndai Ltd, Sriperumpudur, TN JBM Auto Ltd, Nashik, MH Jyoti Structures Ltd, Nashik, MH Kannappan Iron & Steel, Karaikkal, TN Kilburn Chemicals, Tuticorin, TN L.S. Mills, Theni, TN Lakshmi Machine Works, Coimbatore, TN Micro Labs Ltd, Bangalore, KA

Nutrine Confectionery, Chittore, AP ONGC, Jorhat, Assam, Peekay Steels Pvt Ltd, Cochin, Kerala Pioneer Miyagi Chemicals, Cuddalore, TN Premier Mins Ltd, Coimbatore, TN Pricol Ltd, Coimbatore, TN Rajshree Sugars & Chemicals Ltd, Villupuram, TN Regency Garments, Thiruvallur, TN Reliable Auto Tech Pvt Ltd, Nashik, MH RMKV, Tirunelveli, TN Saint - Gobain Glass India Ltd, Sriperumpudur, TN Sakthi Sugars, Erode, TN Seagram Distillaries Ltd, Nashik, MH Seshasayee Paper Board, Erode, TN Shanti Gears Ltd, Coimbatore, TN Shree Cements Industries, Rajasthan Sree Akkamamba Textiles, Tanuga, AP Sri Shanmugavee Mins, Dindugal, TN Sri Srinivasa Paper Mins, Tiruvallur, TN Sri Venkatachalapathi Paper Board, Thiruvallur, TN SSM Fine Yarns, Dindugal, TN Suguna Poultry, Coimbatore, TN Suguna Poultry, Nashik, MH Tata Projects, Singur, WB Texmo Precision, Coimbatore, TN Triveny Engineering, Bangalore, KA Venture Steels, Pune, MH Vijeshwari Textiles, Coimbatore, TN Webal SL Energy Systems Ltd, Kolkata, WB

### TYPICAL APPLICATION

Air Compressor Air Conditioning Plants Alumnium Die Casting Machinery **Diesel Generator** Furnace Plastic Machinery Process Industries



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