



COOLING TOWERS

SAI INDUSTRIAL TECHNO-SERVICES

ISO 9001:2008 CERTIFIED COMPANY

Manufacturers of :

**FRP INDUCED DRAFT COOLING TOWERS
AND**

**FRP NATURAL DRAFT (SPRAY TYPE COOLING TOWERS)
CUSTOM BUILT COOLING TOWERS**

ALL RANGES AVAILABLE



SAI INDUSTRIAL TECHNO-SERVICES

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Whichever the industry you belong to, if you have a requirement for Cooling Towers, rest assured we will deliver.

We have an active team of designers and technologists who have spent long years in design, engineering, Manufacturing, supply and erection of Cooling Towers. And their combined expertise is now available for your installations.



The Tower built at SITS keep simplicity in mind and your future needs in view. Developed on the counter flow with induced draft fans, smaller sized towers are fabricated and delivered in completely assembled state, ready for installation.

For larger units, several towers can be arranged adjacent to each other. Since they are light in weight, it is easy to install them even on rooftops.

Alternatively, your Towers can be custom-built, to suit your requirements for optimal performance.

STANDARD PACKAGE TYPE COOLING TOWERS

Our range of FRP Towers covers diverse industrial applications, large and small

THESE INCLUDE:

- Airconditioning and Refrigeration
- DG Sets
- Air Compressors
- Induction Furnaces
- Process Industries
- Plastic Moulding Machines
- Automobile Industries etc.
- Pharmaceutical & Drugs Industries
- Extruders

The special features of these Towers include:

- Corrosion Resistance
- High Efficiency
- No contamination due to dust
- Power saving
- Larger cooling surface
- Compactness : low weight and volume
- Long life with low maintenance
- Elegant look

WHICH COOLING TOWER WOULD FIT YOUR REQUIREMENT?

ROUND BOTTLE TYPE COOLING TOWERS

Model	DG set Capacity KVA	Overall Dimensions		Fan Dia mm	Motor HP	Operating Weight kg
		Dia. mm	Height mm			
SITS-RB-9	125	900	1900	450	0.5	200
SITS-RB-18	200	900	2000	450	1.0	200
SITS-RB-27	310	1700	2500	850	1.5	350
SITS-RB-36	500	2000	2600	1150	2.0	600
SITS-RB-45	600	2000	2600	1150	2.0	800
SITS-RB-54	750	2000	2900	1150	2.0	1000
SITS-RB-63	1000	2400	2900	1450	3.0	1300
SITS-RB-72	1250	2800	3000	1450	5.0	1300
SITS-RB-81	1500	2800	3100	1450	5.0	1800
SITS-RB-90	1750	3200	3100	1750	7.5	1800
SITS-RB-99	2000	3200	3100	1750	7.5	2000
SITS-RB-108	2300	3600	3200	1750	7.5	2500
SITS-RB-117	3000	3600	3400	1750	10.0	3000
SITS-RB-126	-	3600	3400	1750	10.0	3600
SITS-RB-135	-	3600	3400	1750	12.5	3700

The cooling capacity for towers operated in humid areas near sea is based on 15 LMP/LR, water inlet 99 F: and ambient wet bulbtemp 83 F. For dry areas, the Tower capacity can be increased by 10-20%. Models not shown in the table are available on request.

MATERIALS USED

CASING	FRP
PACKING	PVC FILM
FAN DRIVE	DIRECT
FAN BLADE	ALUMINIUM ALLOY / FRP
DRIFT ELIMINATOR	PVC
LOUVERS	FRP
FILL SUPPORT	MS HGD / ANTI CORROSIVE PAINTING
LADDER	GI
BASIN	FRP
HOT WATER DISTRIBUTION SYSTEM	PVC / FRP PIPE WITH HDPE / PP SPRAY NOZZLES



STANDARD PACKAGE TYPE COOLING TOWER

CUSTOM BUILT COOLING TOWERS



Tailor made Towers are ideally suited to the requirements of :

- Power Plants
- Refineries
- Chemical & Petrochemical Industries
- Metallurgical Units
- Fertilizer Industries
- Cement Plants
- Pharmaceutical & Drugs Industries
- Air Handling Products
- Plastic Industries
- Paper Mills
- Sugar Mills
- Textile Industries
- Steel Plants
- Food Industries



FRP CONSTRUCTION

SITS MODULAR TYPE FRP COOLING TOWER DATA SHEET

Tower Model	Nominal Cell Size M	Fan Dia. mm
SITS-SQ-9	3.0 x 3.0 x 3.6	1750
SITS-SQ-18	3.6 x 3.6 x 3.6	2050
SITS-SQ-27	4.2 x 4.2 x 4.0	2450
SITS-SQ-36	4.8 x 4.8 x 4.0	2450
SITS-SQ-45	6.0 x 3.0 x 3.6	1750 (2 No's)
SITS-SQ-54	7.2 x 3.0 x 3.6	2050 (2 No's)
SITS-SQ-63	8.4 x 4.2 x 4.0	2450 (2 No's)
SITS-SQ-72	9.6 x 4.8 x 4.0	2450 (2 No's)

To accommodate variations, and configurations of design, specific, detailed data will be provided for your individual enquiry.



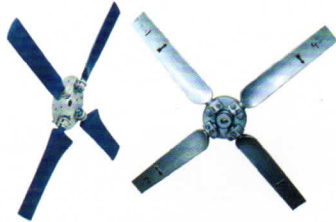
RCC CONSTRUCTION

MATERIALS USED

TOWER FRAME WORK	MSHDG /RCC
CASING	FRP / PCC / RCC
PACKING	PVC FILM / PVC SPLASH BARS
FAN DRIVE	DIRECT / GEAR DRIVE
FAN BLADE	ALUMINIUM ALLOY / FRP
DRIFT ELIMINATOR	PVC
LOUVERS	FRP / RCC
FILL SUPPORT	MSHDG / RCC
LADDER	MSHDG / MS (SPRAY PAINTED)
SUMP	RCC
HOT WATER DISTRIBUTION SYSTEM	MS / PVC-FRP / FRP PIPE WITH HDPE / PP SPRAY NOZZLES
FAN STACK	FRP / RCC

QUALITY IN EVERY PART BUILDS UP THE WHOLE

SITSTM
COOLING TOWERS

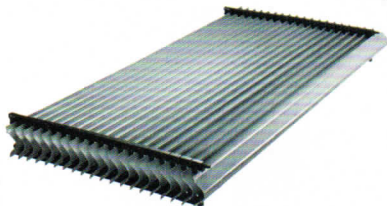


◀ FANS

Fan blades made of cast Aluminium Alloy / FRP with aerodynamic profile wear and tear - resistant leading edges.

HOT WATER DISTRIBUTION SYSTEM WITH SPRAY NOZZLES ▶

The hot water distribution is made of FRP/PVC pipes. The spray nozzles are made of PP/HDPE. The non-clogging characteristic of these nozzles guarantees water distribution at low pressure drop even over a 0 to 100% flow rates.



◀ DRIFT ELIMINATOR

Three pass Drift Eliminator made of PVC have hallowsection blades and achieve a high degree of separation at low pressure loss.

PVC FILLS FILLING ▶

Film type filling made of high efficient plastic fill with large cooling surface of small volume and light weight which decreases pumping head considerably.



To install a Cooling tower for you, we would need the following parameters.

- Water Circulation rate
- Hot water inlet temperature
- Required cold water temperature
- Wet bulb temperature - Water quality
- Application

**SITS IS ALWAYS COMMITTED TO CUSTOMER
SATISFACTION BY RENDERING QUALITY AND
DURABLE PRODUCTS WITHIN THE TIME**

* On account of continuous development the specifications mentioned in this brochure are subject to change without prior information

FEW OF OUR ESTEEMED CUSTOMERS LIST:

M/s. Bharat Heavy Electricals Ltd.
M/s. Gail India Ltd.
M/s. Damodar Valley Corporation
M/s. Southern Railway Chennai
M/s. Integral Coach Factory, Chennai
M/s. Electronic Corporation India Ltd.
M/s. Hindustan Aeronautics Ltd.
M/s. Nuclear Fuel Complex
M/s. Bharat Dynamics Limited
M/s. ISRO
M/s. Madurai District Co-operative
Milk Producers Union Ltd
M/s. HLL Lifecare Limited
M/s. Emmennar Group
M/s. MSN Group
M/s. Hira Group
M/s. Siri Smelters & Energy Pvt. Ltd.
M/s. Siva Shakthi Laboratories Pvt. Ltd.
M/s. Sai Rayalaseema Paper Mills Ltd.
M/s. SMS Pharmaceuticals Ltd.
M/s. R.K. Aircon Industries
M/s. Sainor Laboratories Pvt. Ltd.

M/s. Kshatriya Laboratories Pvt. Ltd.
M/s. Maheswara Industries
M/s. Amba International
M/s. Jayabheri Properties Pvt. Ltd.
M/s. Vet India Pharmaceuticals Ltd.
M/s. Alkali Metals Ltd.
M/s. Megha Fiber Glass Industries Ltd.
M/s. MEIL Green Power Ltd.
M/s. MSN Pharma Chem. Pvt. Ltd.
M/s. Lee Pharma Ltd.
M/s. Saraca Laboratories Ltd.
M/s. Tyche Industries Ltd.
M/s. Ever Health Life Sciences Pvt. Ltd.
M/s. Arani Power Systems Ltd.
M/s. Shodhana Laboratories Ltd.
M/s. VKT Pharma Pvt. Ltd.
M/s. Kemira Chemicals India Pvt. Ltd.
M/s. E.P Industrial Agro Products Pvt. Ltd.
M/s. Albattal Chemicals, Saudi Arabia
M/s. Lakshmi Organics Pvt. Ltd.
M/s. Smruthi Organics Ltd.
M/s. Alkaloids Pvt. Ltd.
and more....

