



SITS COOLING SYSTEMS PVT. LTD.

ISO 9001:2015 CERTIFIED COMPANY

Manufacturers of :
NATURAL AND INDUCED DRAFT COOLING TOWERS
(FRP / PULTRUDED / RCC / TIMBER)
AND
WATER & AIR COOLING SYSTEMS



www.sitscoolingsystems.com

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 SITSCSPL 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	Operating Weight kg
CSPL-RB-9	125	200
CSPL-RB-18	200	200
CSPL-RB-27	310	350
CSPL-RB-36	400	600
CSPL-RB-45	500	800
CSPL-RB-54	600	1000
CSPL-RB-63	750	1300
CSPL-RB-72	1000	1300
CSPL-RB-81	1250	1800
CSPL-RB-90	1500	1800
CSPL-RB-99	1750	2000
CSPL-RB-108	2000	2500
CSPL-RB-117	2300	3000
CSPL-RB-126	3000	3600
CSPL-RB-135	-	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

SITSCSPL MODULAR TYPE FRP COOLING TOWER DATA SHEET

Tower Model	Nominal Cell Size M
CSPL-SQ-9	2.0 x 2.0 x 3.5
CSPL-SQ-18	2.4 x 2.4 x 3.5
CSPL-SQ-27	3.0 x 3.0 x 3.5
CSPL-SQ-36	3.6 x 3.6 x 3.5
CSPL-SQ-45	4.2 x 4.2 x 4.0
CSPL-SQ-54	4.5 x 4.8 x 4.0
CSPL-SQ-63	6.0 x 3.0 x 3.6 (2 Cells)
CSPL-SQ-72	7.2 x 3.0 x 3.6 (2 Cells)
CSPL-SQ-81	8.4 X 4.2 X 4.0 (2 Cells)
CSPL-SQ-90	9.6 X 4.8 X 4.0 (2 Cells)

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



PULTRUDED CONSTRUCTION



RCC CONSTRUCTION



MATERIALS USED

TOWER FRAME WORK	MSHDG /RCC / Wooden / Pultruded
CASING	FRP / RCC
PACKING	PVC FILM / PVC SPLASH / PP Grids
FAN DRIVE	DIRECT / GEAR DRIVE
FAN BLADE	FRP / ALUMINIUM ALLOY
DRIFT ELIMINATOR	PVC
LOUVERS	FRP / RCC
FILL SUPPORT	MSHDG / MSFRP / RCC
LADDER	MSHDG / FRP
SUMP	RCC / FRP
HOT WATER DISTRIBUTION SYSTEM	MS / PVC-FRP / HDPE with FRP / PP SPRAY NOZZLES
FAN STACK	FRP / RCC



◀ 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 hollow section 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

**SITSCSPL 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

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