

VOLGA COOLING TECHNOLOGIES - USA



VOLGA – HVAC.® Cooling Tower

VWT Series Round Type F.R.P

VSH Series Square Type F.R.P & GI Steel



VOLGA Cooling Technologies, United States Of America

ABOUT VOLGA MOHAMMAD ALSHEHRI GROUP

VOLGA COOLING TECHNOLOGIES, USA. are leading exporters, Suppliers and Manufacturers of all types of cooling towers in 13 Countries Over The World And This Website For VOLGA COOLING TOWER Saudi Arabia & GCC Countries, We at VOLGA Cooling Tower having more than 12 years of experience in the field of cooling tower. We are located in United States Of America As Head Office And Our Branch In Saudi Arabia By VOLGA COOLING TOWER/ MOHAMMAD ALSHEHRI GROUP, Jeddah SAUDI ARABIA. Hong Kong Branch, - HONG KONG. & CHINA Branch - Guangzhou City. We established in the year of 2007 and we are member with Cooling Technology Institute USA (CTI). Our designing and development departments are regularly updated with world standards by CTI membership. VOLGA – HVAC are exporting of cooling towers for all types of industries in Saudi Arabia, GCC Countries, Middle East & North Africa Area. Corporate Member of CTI USA (Cooling Technology Institute USA) VOLGA COOLING TECHNOLOGIES, - UNITED STATES OF AMERICA. VOLGA COOLING TOWER / MOHAMMAD ALSHEHRI GROUP, - SAUDI ARABIA. VOLGA - HVAC / ALSHEHRI INTERNATIONAL GROUP, - HONG KONG

VOLGA HVAC – SAUDI ARABIA Welcome to VOLGA COOLING TECHNOLOGIES / Mohammad Alshehri Group Branch is the largest manufacturer, Trader, And Supplier of Cooling Systems – Cooling Tower, Heat Exchanger, Cooling Coils, Process Chillers And Refrigeration and Air-conditioning, having exports to over 13 countries around the world, including North Africa & GCC Countries. Our Product range includes the advanced Cooling Tower, Evaporative Condenser, Heat Exchanger, Cooling Coils and Chillers, rugged Reciprocating Chillers as well as Customized Chillers, precisely designed and made as per the peculiar process cooling applications, some of them being Brine Chillers, Oil Chillers, Gas liquefaction Chillers, Batching Chillers, Cascade Chillers, Hazardous area Chillers etc. We have accredited through various prominent international organizations for the management as well as engineering processes and are approved through various prestigious consultants and certifying bodies for the specific process cooling applications across the world. As specialists in the refrigeration industry, we provide solutions for almost all the segments, through the widest range of technologies in fluid compression as well as the largest capacity and temperature ranges. We manufacture our products from three modern and equipped manufacturing facilities, one in Jeddah Saudi Arabia, Hong Kong And Guangzhou – China. And we Are Supply All Types of Cooling Systems Tools, Types of equipment And Refrigeration and Air-conditioning. KSA COOLING TOWER.

VOLGA®
HVAC

VOLGA Closed Circuit Cooling Tower

VOLGA Closed Circuit Cooling Tower

Closed Circuit Cooling Tower

VOLGA - HVAC/ MOHAMMAD ALSHEHRI GROUP is leading Closed Circuit Cooling Tower Manufacturer/ Supplier IN Saudi Arabia, GCC Countries, Middle East & North Africa. We also Cooling tower Manufacturer in China (SOON). Closed circuit cooling tower just like the open type, this type of heat exchangers are mostly in the huge industries. We manufacture two types of closed circuit cooling tower and combined flow and counterflow cooling tower. Closed Circuit Cooling Tower is suitable for Thermal Power Plants. Closed Circuit cooling tower certain processes need a closed loop, that's why the process water for cooling does not come in make contact with the full of atmospheric air. Closed loop type cooling is minimized process fouling.

Types of Closed-Circuit Cooling Tower

- Combined Flow
- Counter Flow

We may well include various percent of the cooling water from the available water resources to the closed circuit cooling system and we are able to decrease the cooling tower size.

Mixing ration means the percentage of the added water. If our mixing ratio is zero, it is called an absolutely closed system. When the mixing ratio is 100%, it is called an open system.

Closed Circuit Cooling Tower Water Temp.

Closed Circuit Cooling Towers are accomplished of incoming fluid temperatures as high as 180°F (82.2°C),.

Closed Circuit Cooling Tower Design

Our Closed Circuit Cooling System gives completely rated thermal presentation, which also by yourself verified over special types of flow and high-temperature requirements. Closed Circuit Cooling Towers are high efficiency and water saving.

VOLGA COOLING TECHNOLOGIES,

UNITED STATES OF AMERICA.

VOLGA - HVAC / MOHAMMAD ALSHEHRI GROUP.

SAUDI ARABIA.

VOLGA Closed Circuit Cooling Tower

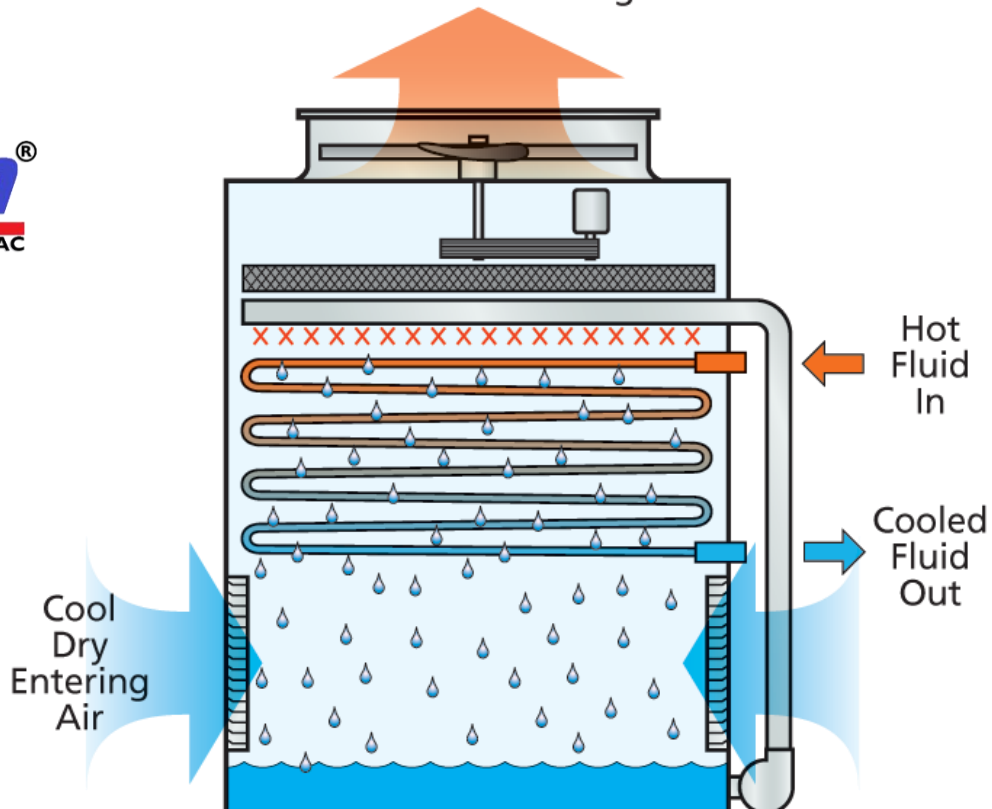
VOLGA Closed Circuit Cooling Tower

VOLGA[®]
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Hot Saturated Discharge Air

VOLGA[®]
HVAC



VOLGA RCC Cooling Tower

VOLGA - HVAC Cooling Tower as a one of the leading Supplier of RCC Cooling Tower and all types of industrial cooling tower and also we are member with CTI (Cooling Technology Institute USA). VOLGA - HVAC I ALSHEHRI GROUP offers the high quality Counterflow and Cross flow cooling tower design with RCC Cooling Tower for huge level and various applications. Plastic and concrete fills are additional with the purpose of makes the tower extra heavy-duty.

The RCC Cooling Towers are mostly used by the following industries, Engineering industries, Huge industry Plants, Power Plants, Chemical Processing Industries are used this type of cooling tower and etc.

Specification of RCC Cooling Tower

- Range of our RCC Cooling Tower Capacity 200CuM/hr. to 3500 CuM/hr. per cell
- Package type (Range from 5TR to 500TR).
- High effectiveness mechanicals such as gear boxes, axial flow fans and drive shafts.
- Spiral Bevel type Gear.
- Higher capacities are offered in multi cell production.
- Available sizes are 1Cell to Many cells.
- Privileged capacities are offered in multi cell production.
- Wood used can be preferred by the customers
- Types: Cross Flow and Counter Flow.

Features of VOLGA Saudi RCC Cooling Tower

- We manufactured Cross flow type and Counter Flow Type cooling towers
- Lower maintenance for this type of cooling tower.

RCC Cooling Tower Design

- We are using latest design technology to manufacturing the RCC cooling tower.
- We design and developed the cross flow and counter flow type for specific requirements.
- We are Structural and standard design of RCC Cooling Tower in the market.
- Our new special design makes it a less important maintained rotary sprinklers or tiny nozzles.

RCC Cooling Tower at Power Plant: For All types of power plants we offer our rcc cooling tower. The RCC Cooling Towers are mostly used in the power plants. we offer you to go for RCC Cooling Tower for your thermal power plants.

RCC Cooling Tower

RCC Cooling Tower

Types of RCC Cooling Tower

- Cross Flow Cooling Tower
- Counter Flow Cooling Tower

Capacity of RCC Cooling Tower

- Capacity Available: 500 m³/hr to 4,500 m³/hr per cell and upto any capacity in multi cell.
- RCC Cooling Tower Capacity 200CuM/hr. to 3500 CuM/hr. per cell
- VOLGA COOLING TECHNOLOGIES – USA, Equipment has a enormous variety of models to go well with different requirements.

RCC Cooling Tower Applications

- RCC Cooling Tower in Power Plant,
- Engineering industry plants,
- Industrial processing units
- Huge industry Plants,
- Steel Manufacturing industry plants
- Power Plants,
- Cement factory industries,
- Chemical Processing

Industries are used this type of cooling tower



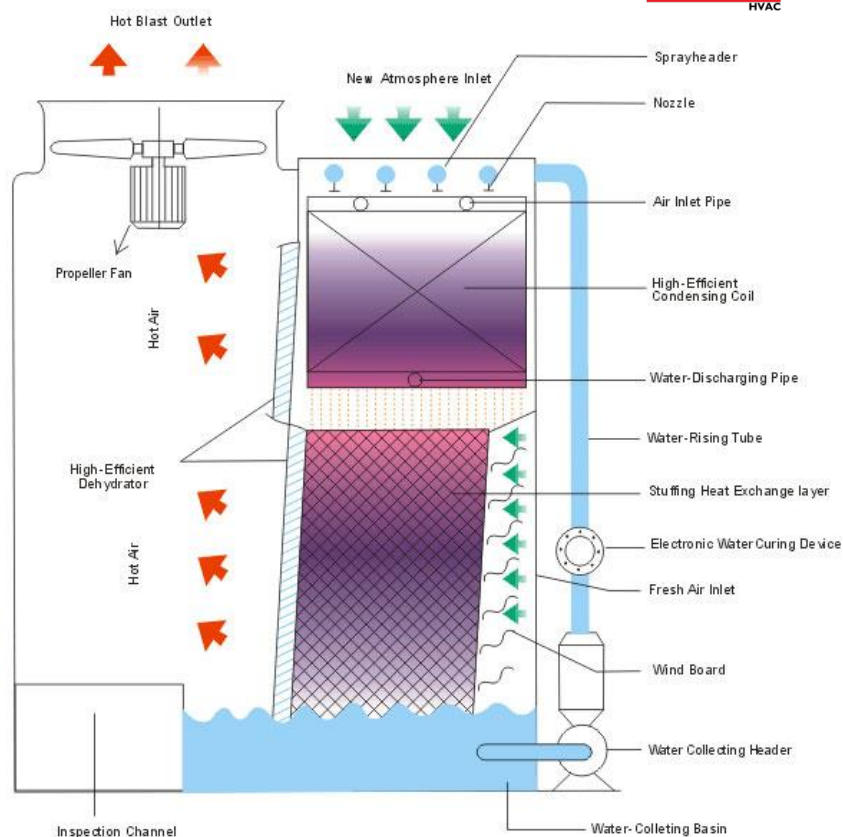
VOLGA Evaporative Condenser

Evaporative Condenser

VOLGA - HVAC Series Evaporative Condenser – Saudi Arabia - uses water and air as cooling medium. The cooling medium exchanges the heat with high-heat gaseous refrigerant medium and hence the refrigerant medium becomes liquid. Inside, there are water dispatching system, condensing coils/plate, wet padding heat exchange layer, and dehydrator and so on. Outside, there are water circulating pump, an electronic water-curing device and a propeller fan on the top of condensing coil/plate. The propeller fan strengthens the flow of the air and causes negative pressure inside. When the condenser works, the cooling water is sprayed from water dispatching system to the surface of condensing coils/plate equably to form a thin layer of water film. The high-heat steam of refrigerant medium enters from the top of condensing coil/plate and then the cooled liquid refrigerant medium is discharged from the bottom of the condensing coil/plate. During this process, high-heat refrigerant medium exchanges the heat with the water and air outside the coil/plate and increases the efficiency of medium exchange with the help of wind. After absorbing the heat of refrigerant medium, some water turns into steam and is discharged by propeller fan. Meanwhile, the moisture in the air is collected by dehydrator to collecting basin, and then the non-gasified cooling water flows into heat exchange layer and its heat is taken away by the airflow. The cooled water converges in the basin to be used circularly by the pump later. In addition, there is a ball cock in the basin. When the water is consumed to a certain point, the ball cock will automatically open to replenish the cooling water.



Chart of Operation Principle



Why Dry Cooling Tower?

- Dry cooling tower be able to a great extent speed up the Planning approvals process.
- Options are ever-increasing expenditure premiums are falling.
- Preservation expenses a great deal reduced
- Legislation is able to protect water provisions to power stations in droughts
- **Dry Cooling Tower Benefits are:** Very economical in cost, Conserving significant amount of water, Minimizing environmental impact.

Dry Cooling Tower Design

- VOLGA SAUDI COOLING TOWER are designed and developed with to work with any size for various industries.
- VOLGA SAUDI Dry Cooling Tower designing department is routine updated with world standards according to the International Standards designing by CTI membership.
- Dry Cooling Tower Designing teams are technically qualified of engineer with facility to meet various application need.

Applications of Dry Cooling Tower

- Dry Cooling Tower used for air compressor
- Lots power plants are using the Dry Cooling Tower
- Steel manufacturing industries are used Dry Cooling System
- Dry cooling towers for geothermal power plants
- Diesel Power Plants are using this type of cooling tower

Advantages of Dry Cooling Tower

- No water consumption in this type of Dry Cooling Tower System because the air does not in a straight-line contact between the water.
- This cooling tower efficacy ensures minimum ecological impact
- A huge of water gets conserved on using dry cooling towers.
- Less water resources and greater than before water pollutions concerns have led to explosive development of Dry Cooling worldwide

How to Design Dry Cooling Tower?

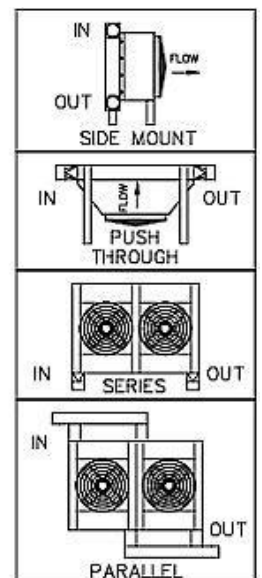
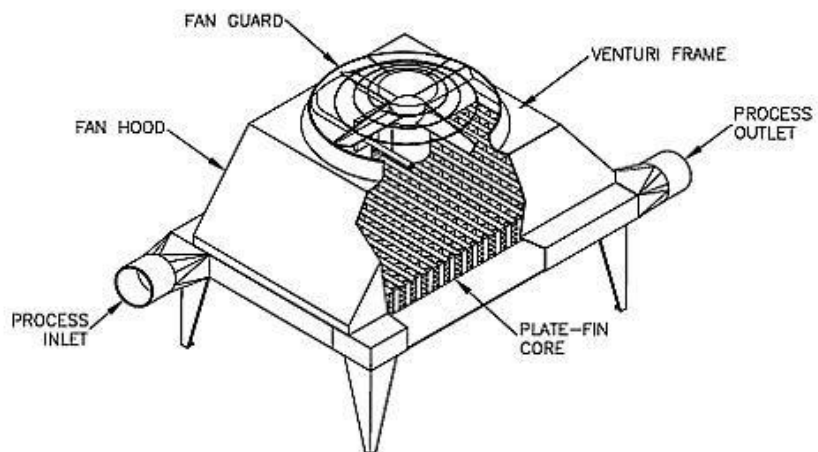
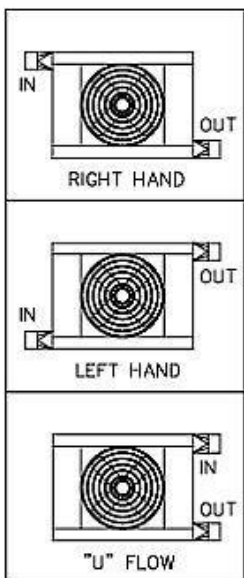
We are designing the dry cooling tower as per the client requirements and we in Our Head Office In Hong Kong - cooling tower industry Division We have well designed and develop the timber cooling tower for various industries. Our designing department is updated and very qualified engineers with designing knowledge and designing standards by cooling tower technology.

VOLGA Dry Cooling Tower

Dry Cooling Tower



VOLGA - HVAC®



VOLGA[®]
HVAC

VOLGA Open Circuit Cooling Tower

Open Circuit Cooling Tower

VOLGA - HVAC, Open Circuit Cooling Tower

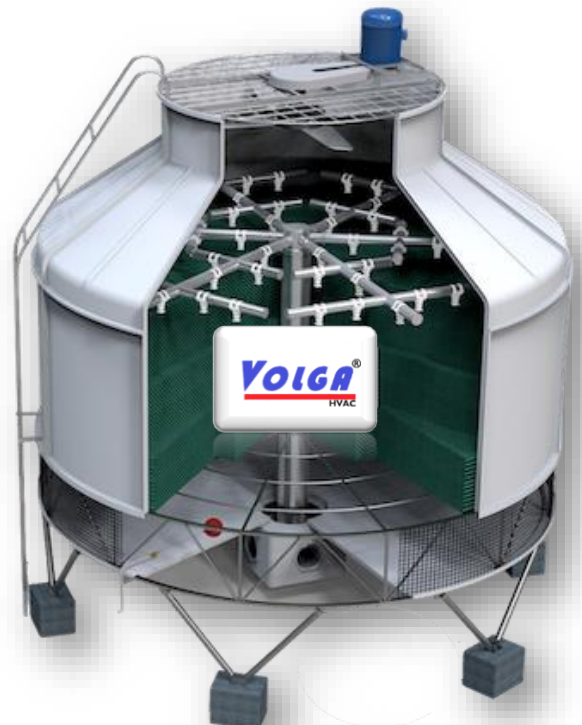
VOLGA – HVAC, Open Circuit Cooling Tower Saudi Arabia. The casing and basins are designed to withstand severe vibration, high wind load and to resist corrosion

The VOLGA Saudi Cooling Tower Bottle Shape Cooling Tower/ NORMAL DESIGN/ TYPE. consists of Honeycomb PVC fills and eliminators in a design that maximizes economy and efficiency and directly driven fan and Motor 'Minimum drift Losses'. Uniform distribution of hot water by rotating arm sprinkler

Hot dipped Galvanized hardware to withstand wind forces. The bottle shape makes possible to provide maximum cooling efficiency in minimum plan area with lower energy consumption

Specifications of Round FRP Cooling Tower

- The Ranges are from 8 m³/Hr to 1000 CMH.
- Send your requirement to get our best free quote
 1. Water flow rate,
 2. Hot water Inlet temperature,
 3. Required cold water Outlet temperature and
 4. Wet bulb temperature.



VOLGA Open Circuit Cooling Tower

Open Circuit Cooling Tower

- ◆ High efficiency, save energy to the largest extent
- ◆ Fit with various environment changes in different industries
- ◆ Matched equipment running normally
- ◆ Completely comply with national standards
- ◆ Fixed pipe with nozzle distribution
- ◆ Three layers infill
- ◆ High efficiency drift eliminator



Components Instruction

CASING AND WATER BASIN

Fiberglass reinforced polyester (FRP) is applied with water-resistance resin and high quality fiberglass mat. With good moisture, high gel, high strength, spray the gel-coat on FRP parts by machine and is thermal formed.

FAN & DRIVING SYSTEM

All cooling tower fans with adjustable pitch blades are applied to being balanced, it operates stably and quietly. Material chosen are A.B.S, aluminum alloy for normal standard, F.R.P or stainless steel material available for option. Small capacity cooling tower adopts direct drive low noise fan. Bigger capacity fan equipped with Belt drive speed reducer or Gear box.

WATER DISTRIBUTION

Using high coefficient rotating sprinkler head made of plastic or aluminum alloy could reduce the pressure of friction loss, and the water can be distributed evenly to achieve the max thermal cooling performance.

FILL PACKING

Used high quality & improved performance PVC with good material, it is high cooling efficiency and anti-corrosive & UL V-0. The surface of infill is corrugated to increase the filling pitch to make sure that infill is clog-free and overcome the problem of water quality. Special material for option if high entering water temperature.

FRAME

The framework is made of hot dip galvanized steel (HDGS), to makes the cooling tower in rust-free, durable and long service life.

Optional Accessories

- ◆ Noise reduction upgrade
- ◆ Vibration isolator & rubber mat
- ◆ High-temperature upgrade
- ◆ Anti-Freeze heater
- ◆ Stainless steel framework / bolts and nuts (304 / 316)
- ◆ Dual-speed Motor & VFD motor

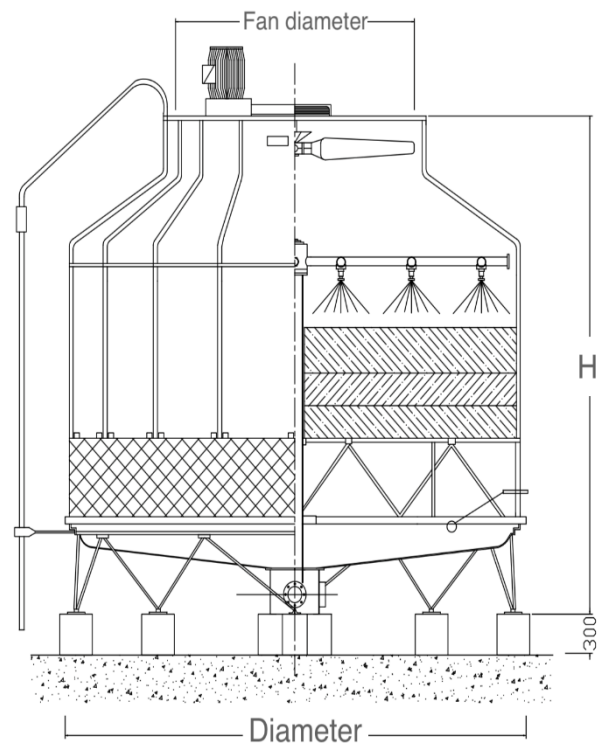
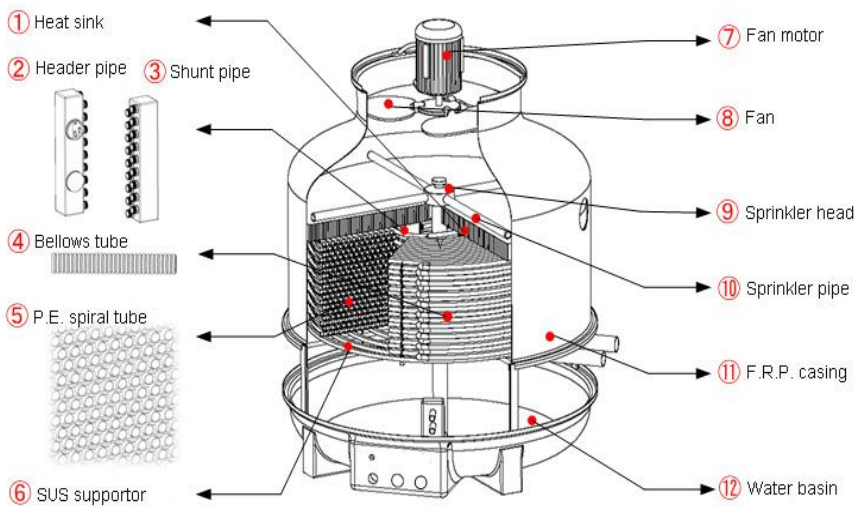
FRP Cooling Tower (Bottle Type)

Open Circuit Cooling Tower Series VWT & VNT

DESIGN CONDITION

- A)- Entrance temp. $t_1=37^\circ\text{C}$
- C)- Leaving temp. $t_2= 32^\circ\text{C}$
- F)- Atmospheric pressure=99.4 KPa

- B)- Wet bulb temp. $t_{WB}=28^\circ\text{C}$
- D)- Dry bulb temp. $t_{DB}=31.5^\circ\text{C}$



FRP Cooling Tower (Bottle Type)

Open Circuit Cooling Tower Series VWT & VNT

VOIGA[®]
HVAC

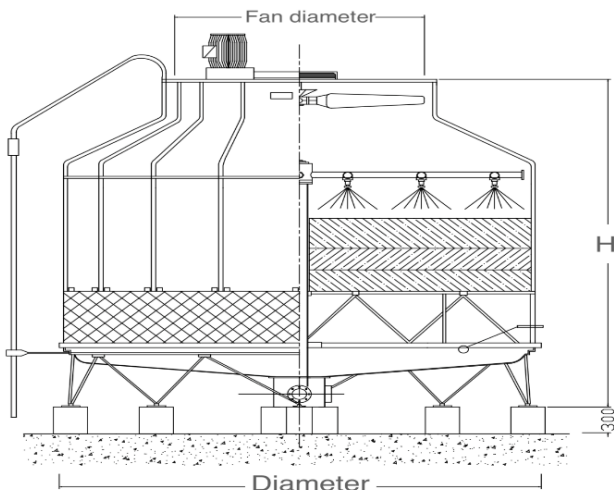


VOLGA Open Circuit VWT Series Cooling Tower

Open Circuit Cooling Tower

The Technical Specification of VOLGA-HVAC (VWT Series) Cooling Towers

MODEL:	Water Flow (m3/h)	Dimension (mm)		Fan		Water PRESSURE (KPA)	Weight (kg)	
		Diameter (mm)	Height (mm)	Diameter (mm)	Motor (Hp)		Dry	WET
VWT-10	10	1170	2370	600	0,25	18	120	460
VWT-20	20	1400	2400	770	0,75	20	180	860
VWT-30	30	1650	2420	890	1,5	20	240	1450
VWT-40	40	1830	2500	890	1,5	21	310	1790
VWT-50	50	2100	2550	1200	1,5	21	350	1970
VWT-60	60	2500	3100	1200	1,5	25	660	2310
VWT-70	70	2500	3100	1200	1,5	25	670	2340
VWT-80	80	2500	3000	1450	2,5	26	690	2400
VWT-90	90	2950	3800	1450	2,5	28	700	2400
VWT-110	100	2950	3800	1450	2,5	29	720	2450
VWT-125	125	2950	3600	1750	5,5	31	1020	2750
VWT-150	150	3420	3800	1750	5,5	32	1080	2940
VWT-175	175	3420	3700	2120	7,5	33	1320	4010
VWT-200	200	4160	4320	2120	7,5	38	1880	4880
VWT-225	225	4160	4220	2400	10,75	38	2180	5670
VWT-250	250	4730	4520	2400	10,75	40	2280	5800
VWT-300	300	4730	4320	2700	15	42	3450	7660
VWT-350	350	5760	5150	2700	15	43	3610	7800
VWT-400	400	5760	5000	3200	15	45	4850	11300
VWT-450	450	5760	4690	3400	20,5	46	4950	11500
VWT-500	500	6600	5500	3400	20,5	52	5240	12800
VWT-600	600	7600	5700	3700	20,5	55	5900	14600
VWT-700	700	7600	5700	4050	25,5	56	6350	15500



DESIGN CONDITION:

- Entrance temp. $t_1=37^{\circ}\text{C}$
- Leaving temp. $t_2= 32^{\circ}\text{C}$
- Wet bulb temp. $t_{WB}=28^{\circ}\text{C}$
- Dry bulb temp. $t_{DB}=31.5^{\circ}\text{C}$
- Atmospheric pressure= 99.4 KPa

VOLGA - HVAC, Open Circuit Series VSH

Two Designs

1- HD.GI Body/ Casing

2- FRP. Body/ Casing

VOLGA – HVAC, Open Circuit Cooling Tower For Saudi Arabia. The casing and basins are designed By Two Martials Of Manufacturing GI Steel And FRP.

.to withstand severe vibration, high wind load and to resist corrosion

The VOLGA Saudi Cooling Tower Bottle Shape Cooling Tower/ NORMAL DESIGN/ TYPE. consists of Honeycomb PVC, PP. fills and eliminators in a design that maximizes economy and efficiency and directly driven fan and Motor 'Minimum drift Losses'. Uniform distribution of hot .water by rotating arm sprinkler

Hot dipped Galvanized hardware to withstand wind forces. The bottle shape makes possible to provide maximum cooling efficiency in minimum plan area with lower energy consumption

Also The FRP. Is Better Than Any Other Martial For The Lead Guarantee

Specifications of Square Type GI. Cooling Tower

- **The Ranges are from 100 TR to 10000 TR.**
- **Send your requirement to get our best free quote**
 1. Water flow rate,
 2. Hot water Inlet temperature,
 3. Required cold water Outlet temperature
 4. Wet bulb temperature.

VOLGA Open Circuit Cooling Tower Series VSH

Open Circuit Cooling Tower Square VSH

Features

- ◆ High efficiency, save energy to the largest extent
- ◆ Fit with various environment changes in different industries
- ◆ Matched equipment running normally
- ◆ Completely comply with national standards

Components Instruction

CASING AND WATER BASIN

HD.GI Body/ Casing reinforced polyester (GI. Steel) is applied with water-resistance resin and high quality fiberglass mat. With good moisture, high gel, high strength, spray the coated on GI. With Epoxy parts by machine and is thermal formed.

FAN & DRIVING SYSTEM

All cooling tower fans with adjustable pitch blades are applied to being balanced, it operates stably and quietly. Material chosen are A.B.S, aluminum alloy for normal standard, F.R.P or stainless steel material available for option. Small capacity cooling tower adopts direct drive low noise fan. Bigger capacity fan equipped with Belt drive speed reducer or Gear box.

WATER DISTRIBUTION

Using high coefficient rotating sprinkler head made of plastic or aluminum alloy could reduce the pressure of friction loss, and the water can be distributed evenly to achieve the max thermal cooling performance.

FILL PACKING

Used high quality & improved performance PVC with good material, it is high cooling efficiency and anti-corrosive & UL V-0. The surface of infill is corrugated to increase the filling pitch to make sure that infill is clog-free and overcome the problem of water quality. Special material for option if high entering water temperature.

FRAME

The framework is made of hot dip galvanized steel (HDGS), to makes the cooling tower in rust-free, durable and long service life.

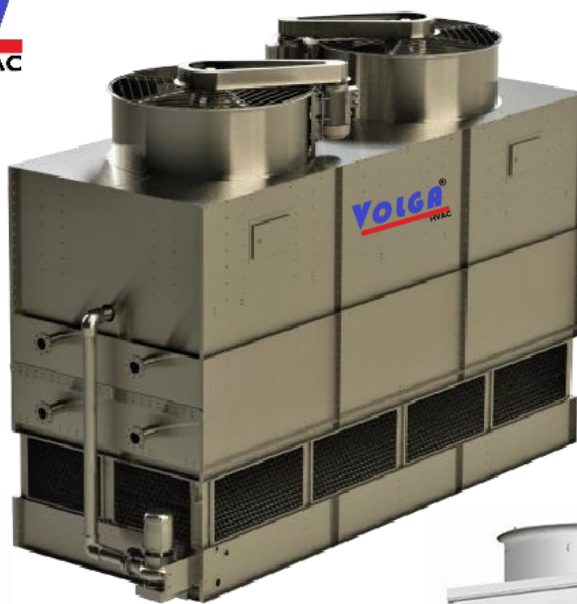
Optional Accessories

- ◆ Noise reduction upgrade
- ◆ Vibration isolator & rubber mat
- ◆ High-temperature upgrade
- ◆ Anti-Freeze heater
- ◆ Stainless steel framework / bolts and nuts (304 / 316)
- ◆ Dual-speed Motor & VFD motor

VOLGA Open Circuit Cooling Tower Square Type

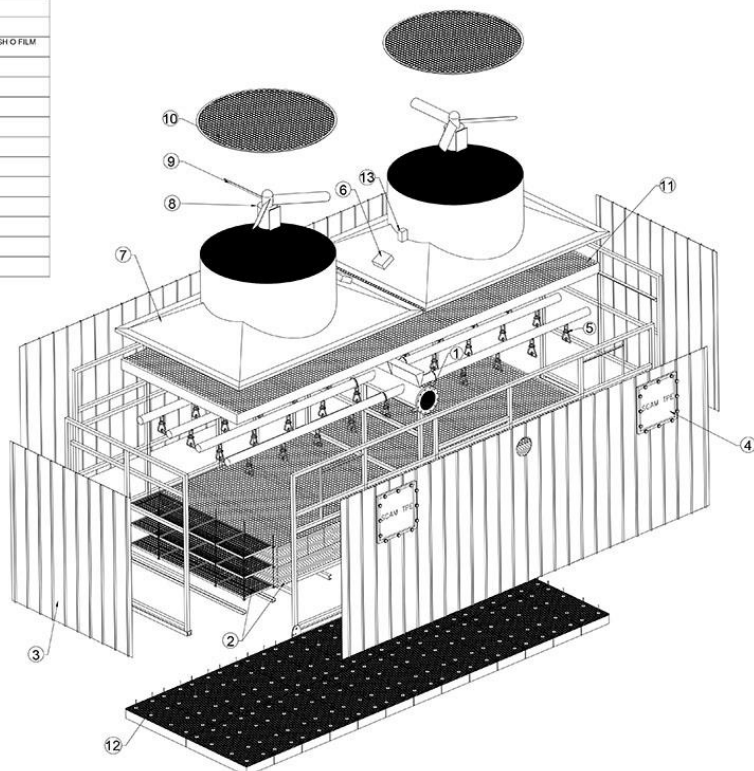
Cooling Tower (HdGI Body/ Casing)

VOLGA[®]
HVAC



LEGENDA / LEGEND

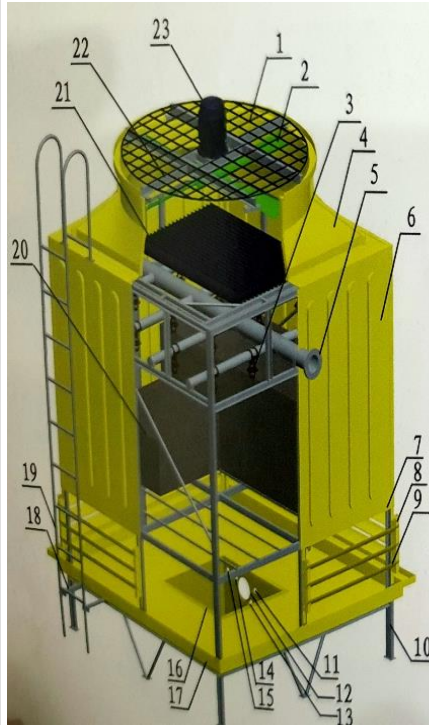
1	INGRESSO ACQUA DA RAFFREDDARE INLET COLD WATER
2	SISTEMA DI DISPERSIONE: PANNELLI SPLASH O FILM SPASH OR FILM DISPERSION
3	RIVESTIMENTO COVERING
4	PORTELLO DI ISPEZIONE INSPECTION DOOR
5	SISTEMA DI DISTRIBUZIONE: UGELLI DISTRIBUTION SYSTEM: NOZZLES
6	SCATOLA ELETTRICA JUNCTION BOX
7	DIFFUSORE SPRINK
8	MOTORE ELETTRICO ELECTRIC MOTOR
9	VENTILATORE FAN
10	RETE DI PROTEZIONE PROTECTION GRID
11	SEPARATORI DI GOCCE DRIFT ELIMINATORS
12	ATTENUATORI DI RUMORE SOUND ATTENUATORS
13	SENSORE DI VIBRAZIONI VIBRASWITCHES



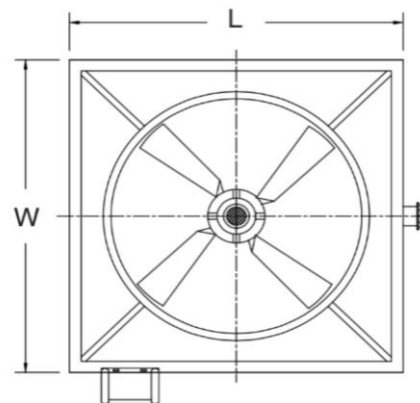
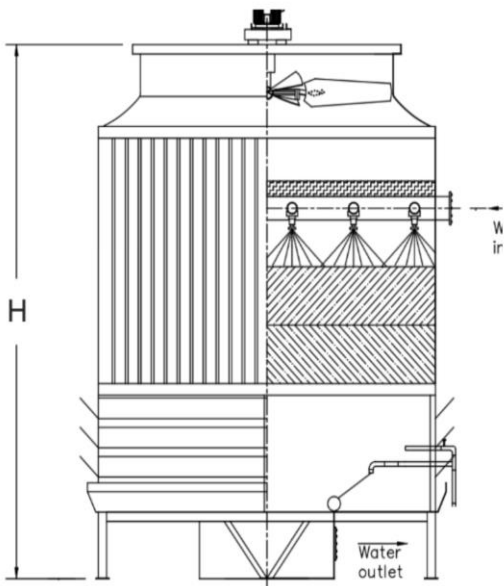
VOLGA[®]
HVAC

VOLGA – HVAC Square Type FRP. Cooling Tower VHS

FRP. Series VSH Open Circuit



- | | |
|-------------------|----------------------|
| 1, Fan guard | 14, Quick feed |
| 2, Fan | 15, Auto feed |
| 3, Nozzle | 16, Suction tank |
| 4, Fan stack | 17, Water basin |
| 5, Water inlet | 18, Ladder support |
| 6, Casing | 19, Ladder |
| 7, Breakwater | 20, Infill |
| 8, Blind carrier | 21, Drift eliminator |
| 9, Air inlet | 22, Motor support |
| 10, Tower support | 23, Motor |
| 11, Overflow | |
| 12, Water outlet | |
| 13, Drain | |



VOLGA – HVAC VSH Models Cooling Tower

VSH– Models

Technical Specification of VSH Series Cooling Tower

Item	Water Flow (m ³ /h)	Dimension (mm)			Fan		Water Pressure (Kpa)	Weight (kg)	
		Length	Width	Height	Diameter (mm)	Motor (Kw)		Dry	Wet
VSH-100	100	2250	2250	4070	1750	4	45	1050	2150
VSH-125	125	2500	2500	4070	2100	4	45	1250	2580
VSH-150	150	2750	2750	4570	2100	5.5	45	1420	2900
VSH-175	175	3000	3000	4570	2400	5.5	46	1600	4290
VSH-200	200	3250	3250	4570	2400	7.5	46	1750	4520
VSH-250	250	3500	3500	4770	2400	7.5	46	2150	5290
VSH-300	300	3750	3750	4920	2850	11	49	2620	6050
VSH-350	350	4000	4000	4920	3200	11	50	2950	6590
VSH-400	400	4500	4500	5120	3200	15	52	3520	7850
VSH-500	500	5000	5000	5570	3700	15	54	4250	9180
VSH-600	600	5250	5250	5770	3700	18.5	54	4680	10220
VSH-700	700	5500	5500	5770	4200	22	56	5460	11380
VSH-800	800	6000	6000	5900	4200	30	56	6520	13300
VSH-900	900	6500	6500	6100	4500	30	58	7550	15270
VSH-1000	1000	7000	7000	6100	4500	30	58	8200	16870

DESIGN CONDITION:

- A)- Entrance temp. $t_1=37^{\circ}\text{C}$
- B)- Dry bulb temp. $t_{\text{DB}}=31.5^{\circ}\text{C}$
- C)- Leaving temp. $t_2= 32^{\circ}\text{C}$
- D)- Atmospheric pressure=99.4 KP
- E)- Wet Bulb $t_{\text{WB}}= 28^{\circ}\text{C}$

Motor Fan

Motor Fan For Cooling Tower

VOLGA COOLING TECHNOLOGIES (Volga Saudi) is a Global Supplier, Exporter, and Distributor of Cooling Tower Motors, delivering complete motor solutions to the world's most demanding industries. Our Cooling Tower Motors are approved by the international set of standards.

The Volga Cooling tower applications present extremely harsh environments the fan motors are often installed in 100% humid environments. They are available in Totally Enclosed Air Over enclosures for mounting in the air stream and Totally Enclosed Fan Cooled enclosures for mounting outside the air stream.

We have all kinds of motors for fans of cooling towers of different sizes, capacities. We produce our own cooling towers and supply all parts, components, and components of other cooling towers. We have VOLGA COOLING TECHNOLOGIES motors, and we are sure to try to provide different types and models to meet our customers' demands and give them the ability to choose according to quality and price but we confirm that all our motors and dynamos Competitive quality, please its many sources, as we provide many cooling towers motors American industry and the industry of English and European multiple and we have an Indian industry and Chinese quality and competitive price, In any case, we check the motors and engines of cooling towers in B LED through Volga engineering team and all of our products carry our trusted brand in the field of VOLGA - HVAC cooling towers We always advise you to choose the best motor engine for Your cooling towers fans In Saudi Arabia So You Can Contact Us Any Times For That.



COOLING TOWER FAN

COOLING TOWER FAN

To ensure the best performance and power consumption, VOLGA - HVAC, SAUDI ARABIA Is a Supplier and Sealer Of All Types Of the Cooling Tower Parts Included Fans special And Specially FRP Fan, (High Quality) which is a highly energy efficient axial product. These fans are specifically designed to meet the demands of cooling towers for all tropical conditions. FRP Energy Efficient Fans are made using quality raw materials and advanced technology to deliver high performance at the lower noise level. We make sure that these fans save up to 25% power as compared to conventional aluminum fans. (We Have Aluminum Fan Also)

Reinforced fiberglass polyester resin provides non-corrosive and shocks absorbent quality to the CT fan blades, which make them withstand the aggressive environment. In addition, it also reduces material cost, installation cost and the possibility of damage to the fan during sudden stops. Delta's FRP fans are electronically balanced on computerized dynamic balancing machines, which ensure maximum outputs on low vibrations.

The adjustable pitch enables the engineers or technicians to alter the pitch angles easily in order to optimize fan performance. The basic criterion of efficient axial flow fan design is uniform velocity over the entire blade area. For this, a fan blade must vary from a thin tip to thick cambered root. The proper combination of the chord (blade width) and angle must be maintained at each point on the blade. These blades are jig-formed to provide the complex contour, which is required for the high aerodynamic efficiency

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Fill Of Cooling Tower All Models

VOLGA cooling tower fill packing media all sizes Rectangle Cooling Tower PVC fills

the reputed organizations, highly engaged in offering an optimum quality range of **Honeycomb PVC Fill** that finds its wide usage in cooling towers. Available in various specifications, and sizes, this fill is widely admired in the market. The provided **Cooling Tower PVC Fill** is perfectly manufactured using best grade polyvinyl chloride and cutting-edge techniques by our diligent professionals at our well-established production unit.

Features:

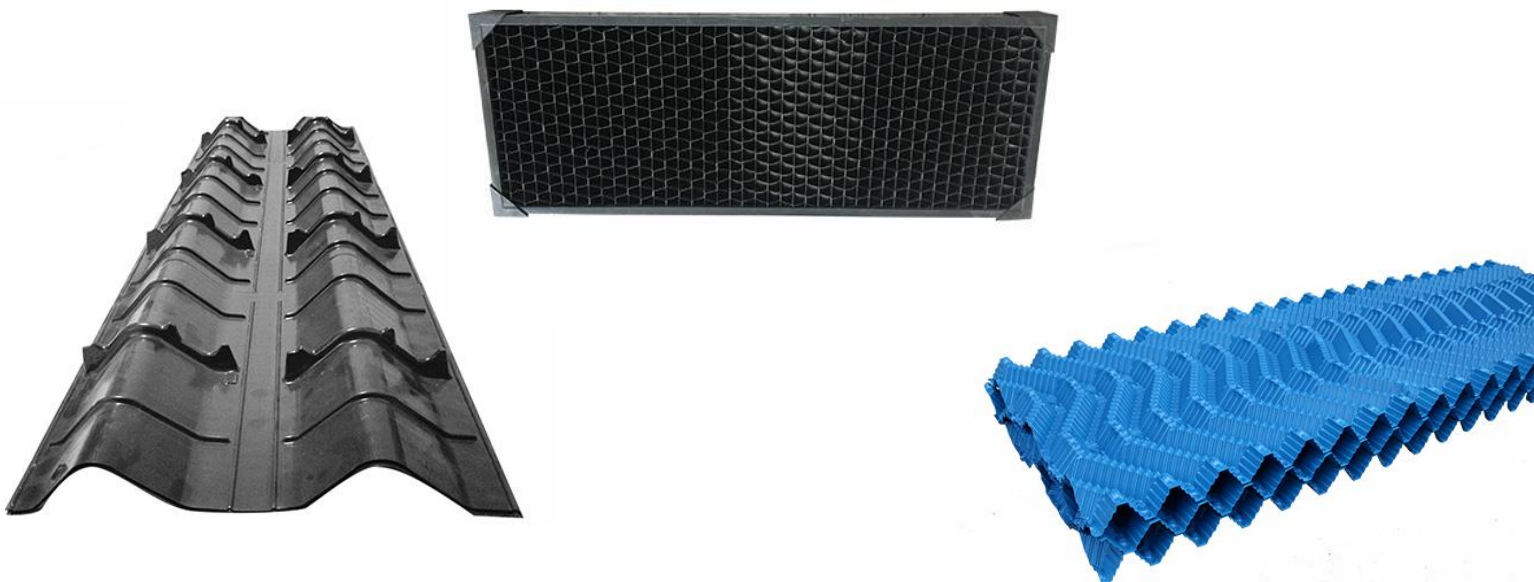
- Long working life
- Withstand with high temperature
- Seamless finish



DRIFT ELIMINATOR PVC

In all different types of cooling towers drift eliminators are used to reduce the loss of water and emissions. Above the water distribution and the cooling fills, a layer of drift eliminators is installed for this purpose. It catches the water drops which are carried away with the air flow and redirects them into the cooling water circuit.

*These values base on the CTI ATC-140 test method (Isokinetic Drift Test Code) and are to be understood as guideline values only. The performance of the drift eliminator is indicated by the ratio drift loss/water flow rate (in % of the circulating water volume). These guideline values based on measurements with a rain density of 20 m³/m²h and an approximate medium air velocity of 3 m/s. To achieve these values, an absolutely tight assembly of drift eliminator elements to each other, to the housing wall and to any openings is required. The face velocity must not be exceeded at any point of the VOLGA SAUDI drift eliminator.



ABS VOLGA spray nozzle for cooling towers

The Spiral Target nozzle is an injection molded polypropylene unit consisting of two parts—the main body with integral target diffuser and a Snap-On insert or orifice cap.

The orifice cap is available in 13 diameters ranging from .362 through 1.099. This amount of flexibility allows for a wide range of adjustment in water flow rates and basin water levels.

The Spiral Target nozzle is available in three lengths. The 2.625 nozzle is used on wood, steel, and fiberglass cooling towers where basin support structure does not obstruct the release of water. The 4.875 nozzle is used on larger industrial wood and concrete cooling towers and on applications where clogging might be a concern. The 6.875 nozzle is used on towers where the release of the water has to clear obstructions within the tower structure.

In every application, the target portion of the nozzle should be located at the correct distance above the top of the cooling tower fill to obtain maximum water distribution over the fill area.



Notes

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No الرقم

Date التاريخ

Encl المرفقات

(٧٠٠٠٨٧٥٢١٦)

السادة/ مجموعة محمد الشهري " Volga cooling Technologies "

السلام عليكم ورحمة الله وبركاته وبعد،

إشارة إلى عقد توريد و تصنيع برج تبريد - دائرة مفتوحة لصالح مدينة الملك
عبدالعزيز للعلوم والتقنية.

نود أن نشكركم و العاملين المكلفين من قبلكم بتنفيذ هذا المشروع على حسن التنفيذ و
انجاز هذه الاعمال وفق الشروط و المواصفات الفنية المتفق عليها في الوقت المحدد.

وتفضلوا بقبول خالص تحياتي وتقديري ،،،

مدير المشروع

١٩ / ٤ / ٤
م. سعد محمد بن عوين



مدينة الملك عبد العزيز
للعلوم والتقنية KACST
المركز الوطني لتقنية الأقمار الاصطناعية
National Satellite Technology Center

VOLGA COOLING TECHNOLOGIES ISO 9001:2015



CERTIFICATE

*This is to Certify that the
Quality Management System
of*

Volga Cooling Technologies LLC.

**VOLGA-HVAC.Saudi Arabia Branch By Mohammed
Alshehri Group**

**has been independently assessed and is compliant
with the requirements of**

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

**Cooling Tower, Heat Exchanger, Industrial Chiller,
Industrial Cooling**

Certificate No.: SA85981A

Date of initial registration	10 July 2019
Date of this Certificate	10 July 2019
Surveillance audit on or before	09 July 2020
Recertification Due / Certificate expiry	09 July 2022

This Certificate is property of LMS Certifications and remains valid
subject to satisfactory surveillance audits.

Director

For verification and updated information concerning the present certificate visit to www.lmscert.com

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Certificate No. CN190755496

Date Of Issue: 2019-07-13





COOLING TECHNOLOGY INSTITUTE

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May 27, 2015

Mr. Mohammad Moshamal Alsheri
Handco Cooling Systems Factory
49 Street Jeddah 2nd
Industrial City Jeddah Makkah 70171
SAUDI ARABIA

Dear Mr. Moshamal:

It is indeed a pleasure to inform you that your application for Corporate Membership in the **Cooling Technology Institute** has been acknowledged and approved by the **Cooling Technology Institute**. We received your payment for 800.00 to cover the 2015 member dues

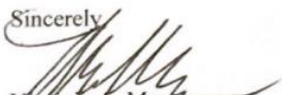
A complimentary set of **CTI** Standard Specifications and Research Reports, a membership directory, and the Bylaws are enclosed in a flash drive. You are now eligible to receive the updated pages of the directory once a year. Your firm will be listed in the manufacturer section of the directory with you as the voting delegate.

All employees of your firm will receive member discounts on publications and meeting fees. We encourage you to use the **CTI** logo on your letterhead, business cards and sales brochures. A copy is enclosed. The word "member" must accompany the logo.

An attractive walnut membership plaque engraved with your company name is available for \$70.00. Please place your order with the **CTI** office.

We look forward to your active participation in the meetings and committees. The next **CTI** 2015 Committee Workshop is scheduled for July 12-15, 2015 at the Trade Winds Island Hotel, St. Pete Beach, Florida. Information will come out soon. We hope that you will find it convenient to attend. Please call me if you have any questions, or if we may be of service to you.

Sincerely


Virginia A. Manser
CTI Administrator

VAM/
Enclosures

cc: w/o enclosures
Frank Michell, President
Anthony DePalma, Vice President
Billy Childress, Director
Frank Foster, Board Member, Mbr Chair
File



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