

RSD FIBERGLASS COOLING TOWERS..

MOTORS

All motors are UL Recognized, TEFC or TEAO construction. Due to superior tower design, motor H.P. and energy consumption are significantly less than that of traditional tower designs.

FAN BLADES

Our axial flow fan blades have been specifically designed for cooling tower application, providing a large volume of stable air at constant pressure.

TOWER SHELL

The tower shell is constructed of F.R.P. (Fiberglass Reinforced Polyester), making it extremely lightweight, durable and non-corrosive.

WATER DISTRIBUTION SYSTEM

The water distribution system is constructed of 100% non-corrosive materials. The rotating sprinkler assembly ensures low velocity waterflow and excellent distribution over the fill deck. The assembly is field adjustable to compensate for your specific system flow requirements.

TOWER FILL

Our honeycombed PVC fill is designed to promote turbulent waterflow for maximum heat transfer. The heat embossed construction will prevent loss of shape due to the high inlet water temperature.

FASTENERS

100% Stainless Steel fasteners ensure trouble free maintenance.

FLUID CONNECTIONS

All fluid connections are located on a common bulkhead for easy access. All fittings are American standard for easy installation. Our unique makeup valve assembly is designed to meet all plumbing code requirements.

INLET LOUVERS

Non-corrosive PVC louvers prevent debris from entering the tower basin. All towers RSD 040 and above come standard with our premium louvers that eliminate splash from the tower basin.

WATER BASIN

Our tapered basin design ensures a steady flow of water to the system pump, even at low water levels. With 360 degree access, routine cleaning is a breeze.

FAN DRIVES

All towers RSD 003 through RSD 175 feature maintenance free, direct drive fans. All towers RSD 200 and above are equipped with a one step gear reducer. The gear reducers are designed specifically for cooling tower application, and require virtually no maintenance.

10 YEAR LIMITED WARRANTY

STAINLESS STEEL OPTIONS

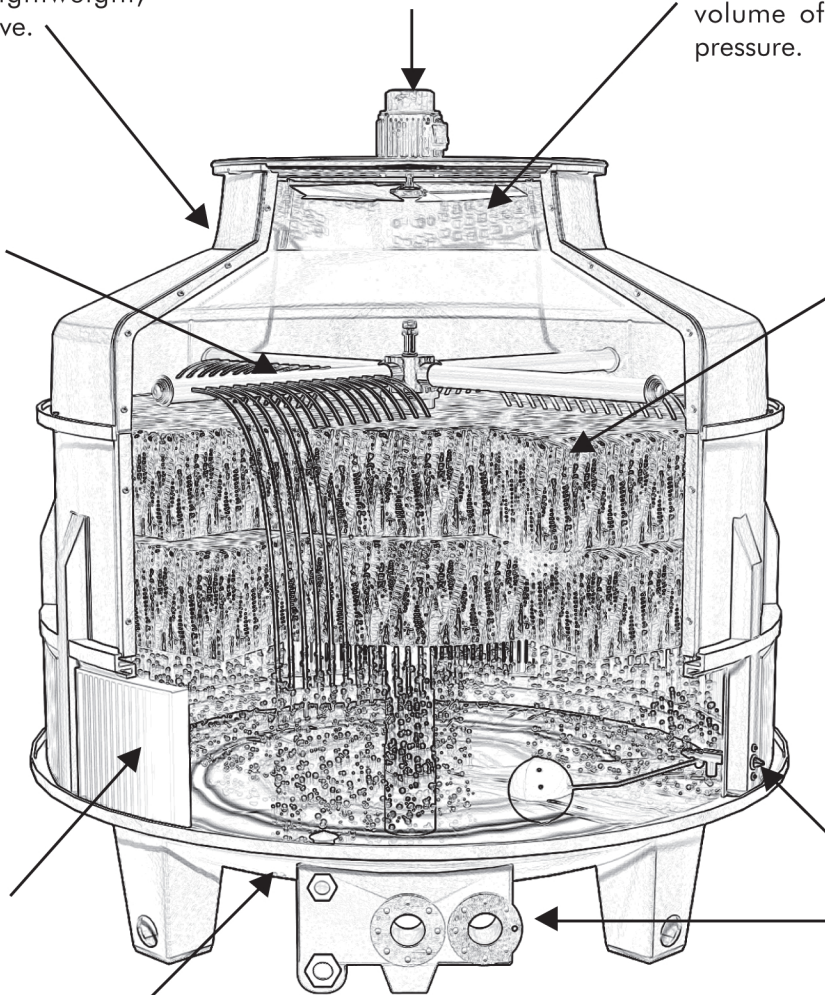
For added corrosion protection, most steel and aluminum components are available in stainless steel. (Excluded: fan blades, motors and gear reducers)

LADDERS

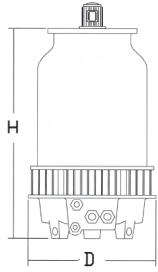
All towers RSD 100 and above are equipped with an OSHA standard ladder for safety and convenience.

AGENCY APPROVALS

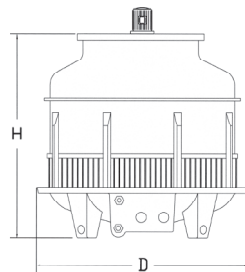
City of Los Angeles Mechanical Testing Laboratory Approved.
Fan motors are UL recognized TEFC or TEAO construction.



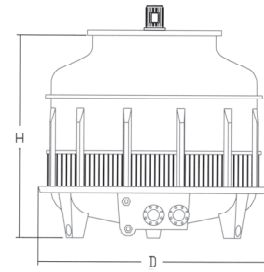
QUALITY THAT IS OUT OF THIS WORLD



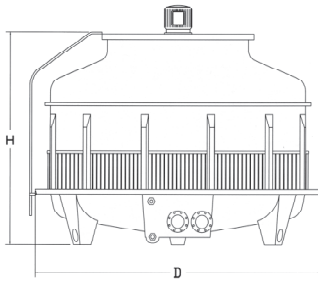
RSD 003-030



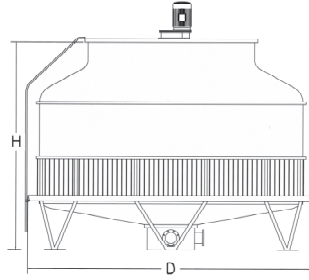
RSD 040-060



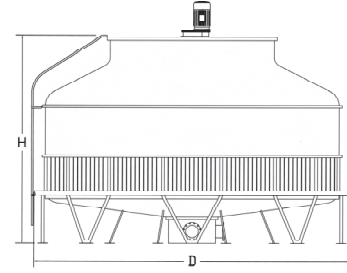
RSD 070-080



RSD 100-300



RSD 400-500



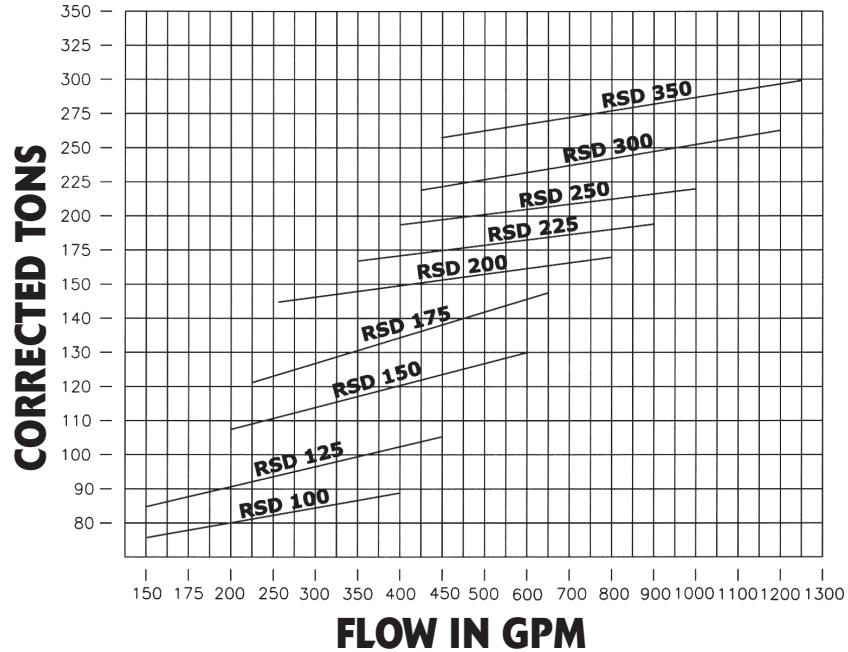
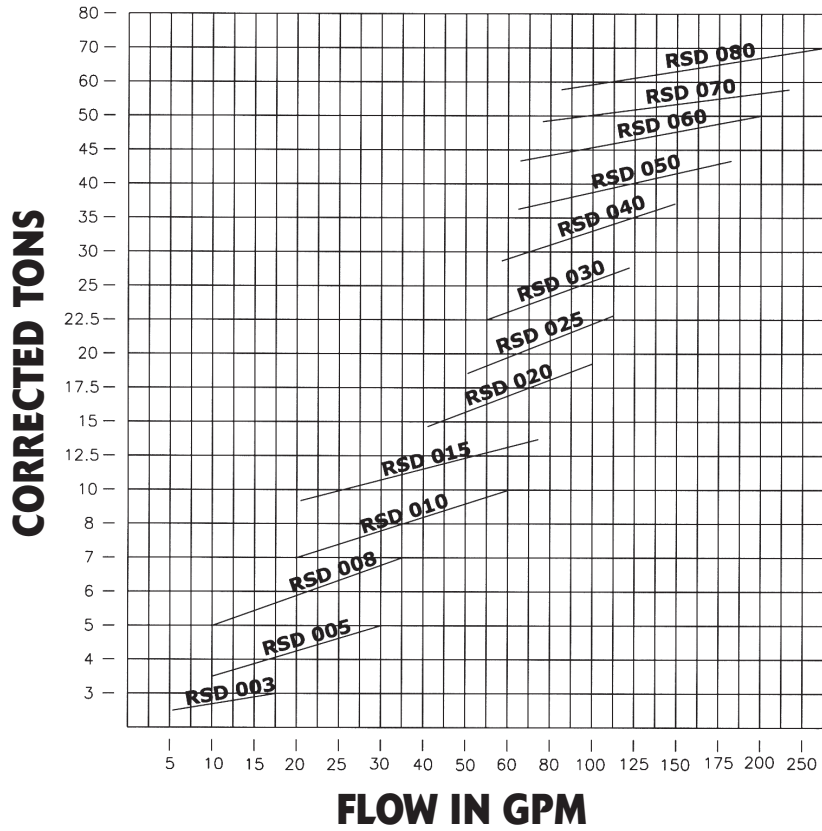
RSD 600-1000

MODEL	DIMENSIONS		FLUID CONNECTIONS*					MOTOR H.P.	FAN CFM	NOM. WATER FLOW† IN GPM	FEET PUMP HEAD	WEIGHTS	
	HT	DIA	IN	OUT	MAKE UP	OVER FLOW	DRAIN					DRY	OPERATING
RSD 003	48"	27"	1"	1"	3/4"	1"	3/4"	1/6	953	9	3.9	57	143
RSD 005	50"	35"	1.5"	1.5"	3/4"	1"	3/4"	1/6	2,120	15	3.9	77	221
RSD 008	57"	33"	1.5"	1.5"	3/4"	1"	3/4"	1/6	2,650	24	3.9	88	304
RSD 010	55"	43"	1.5"	1.5"	3/4"	1"	1"	1/4	3,530	30	4.3	106	392
RSD 015	60"	43"	2"	2"	3/4"	1"	1"	1/2	4,950	45	4.6	148	573
RSD 020	62"	47"	2"	2"	3/4"	1"	1"	1/2	6,350	60	4.9	172	728
RSD 025	67"	55"	2.5"	2.5"	3/4"	1"	1"	3/4	7,060	75	5.2	209	926
RSD 030	70"	64"	2.5"	2.5"	3/4"	1"	1"	3/4	7,950	90	5.9	243	1,103
RSD 040	70"	71"	3"	3"	3/4"	1"	1.5"	1	9,890	120	5.9	353	1,213
RSD 050	72"	78"	3"	3"	3/4"	1"	1.5"	1	11,650	165	6.2	461	1,544
RSD 060	78"	78"	3"	3"	3/4"	1"	1.5"	1.5	14,830	180	6.2	474	1,654
RSD 070	76"	87"	4"	4"	3/4"	1"	1.5"	1.5	18,010	210	6.6	562	2,117
RSD 080	80"	87"	4"	4"	3/4"	1"	1.5"	1.5	19,420	255	6.6	573	2,293
RSD 100	85"	110"	4"	4"	1"	1"	1.5"	2	24,720	330	9.8	882	2,778
RSD 125	89"	122"	5"	5"	1"	1"	1.5"	3	29,310	375	9.8	948	3,572
RSD 150	102"	138"	5"	5"	1"	1"	1.5"	3	33,550	480	10.5	1,433	5,998
RSD 175	106"	138"	6"	6"	1"	1"	1.5"	3	40,600	540	10.5	1,499	6,395
RSD 200	114"	154"	6"	6"	1.5"	2"	2"	7.5	44,140	640	11.5	1,720	7,343
RSD 225	114"	154"	6"	6"	1.5"	2"	2"	7.5	61,790	690	11.5	1,742	7,497
RSD 250	118"	154"	8"	8"	1.5"	2"	2"	7.5	65,320	800	13.1	1,786	7,718
RSD 300	120"	184"	8"	8"	1.5"	3"	2"	10	77,690	975	13.1	2,205	8,820
RSD 350	124"	184"	8"	8"	1.5"	3"	2"	10	81,210	1,125	13.1	2,426	9,592
RSD 400	159"	211"	8"	8"	2"	3"	2"	15	91,810	1,350	16.4	5,072	15,656
RSD 500	167"	211"	10"	10"	2"	3"	2"	15	97,100	1,650	16.4	5,292	16,890
RSD 600	175"	260"	10"	10"	2"	3"	2"	20	132,410	2,000	18.0	7,497	21,874
RSD 700	183"	260"	10"	10"	2"	3"	2"	20	137,710	2,300	18.0	8,379	25,688
RSD 800	205"	291"	12"	12"	2"	4"	2.5"	25	176,550	2,650	19.7	9,923	26,460
RSD 1000	211"	291"	12"	12"	2"	4"	2.5"	30	183,610	3,000	19.7	10,584	27,122

*2.5" AND BELOW FPT, 3" MPT, 4" AND ABOVE FLANGE CONNECTION †NOMINAL WATER FLOW BASED ON 95° IN 85° OUT 75° WET BULB

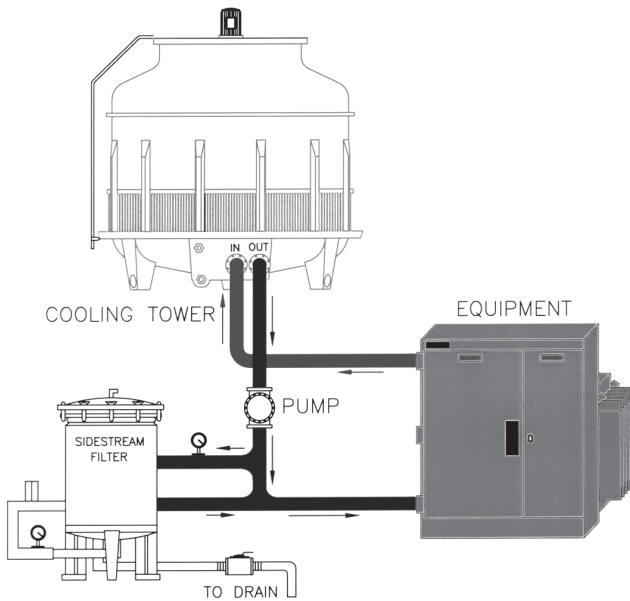
ST/CITY	DESIGN W.B.
AK ANCHORAGE	60.0
AK FAIRBANKS	64.0
AL AUBURN	79.0
AL BIRMINGHAM	78.0
AL MOBILE AP	80.0
AR FAYETTEVILLE	77.0
AR JONESBORO	81.0
AR LITTLE ROCK	80.0
AZ FLAGSTAFF	61.0
AZ PHOENIX	76.0
AZ TUCSON	72.0
AZ YUMA	79.0
CA EL CENTRO	81.0
CA FRESNO	72.0
CA LOS ANGELES	70.0
CA MONTEREY	64.0
CA PALM SPRINGS	76.0
CA POMONA	74.0
CA SACRAMENTO	72.0
CA SAN FRANCISCO	65.0
CA SAN JOSE	68.0
CA BURBANK	71.0
CT HARTFORD	77.0
CO COLORADO SPG.	63.0
CO DENVER AP	64.0
DC WASHINGTON	78.0
DE DOVER	79.0
FL MIAMI BEACH	79.0
FL ORLANDO	79.0
FL PANAMA CITY	81.0
FL PENSACOLA	80.0
FL TAMPA	79.0
FL CAPE KENNEDY	80.0
GA ATHENS	78.0
GA ATLANTA	77.0
GA AUGUSTA	80.0
GA MACON	79.0
HI HILO	75.0
HI HONOLULU	76.0
IA DUBUQUE	77.0
IA IOWA CITY	80.0
IA DES MOINES	78.0
ID POCAHELLO	64.0
ID BOISE	68.0
IL CHICAGO	79.0
IL DANVILLE	78.0
IL ROCKFORD	77.0
IL CARBONDALE	80.0
IN INDIANAPOLIS	78.0
IN MUNCIE	76.0
IN TERRE HAUTE	79.0
IN FORT WAYNE	77.0
KS ATCHISON	81.0
KS DODGE CITY	74.0
KS HUTCHINSON	77.0
KS RUSSELL	78.0
KS WICHITA	77.0
KY BOWLING GREEN	79.0
KY LEXINGTON	77.0
LA BATON ROUGE	80.0
LA NEW ORLEANS	81.0
LA SHREVEPORT	79.0
MA GREENFIELD	74.0
MA WORCESTER	73.0
MA BOSTON	75.0
MD BALTIMORE	80.0
MD HAGERSTOWN	77.0
MD SALISBURY	79.0
ME BANGOR	73.0
ME PORTLAND	74.0
MI LANSING	75.0
MI SAGINAW	76.0
MI TRAVERSE CITY	75.0
MI DETROIT	76.0
MN DULUTH	72.0
MN INTL. FALLS	71.0
MN MINNEAPOLIS	77.0
MO HANNIBAL	80.0
MO KANSAS CITY	78.0
MO POPLAR BLUFF	81.0
MO ST. LOUIS	78.0
MS BILOXI	82.0
MS HATTIESBURG	81.0
MS JACKSON	79.0
MS TUPELO	80.0
MT BUTTE	60.0
MT MISSOULA	65.0
MT BILLINGS	67.0
NC CHARLOTTE	77.0
NC FAYETTEVILLE	79.0
NC JACKSONVILLE	80.0
NC RALEIGH/DURHAM	78.0
NC WILMINGTON	81.0
NC WINSTON-SALEM	76.0
ND BISMARCK	73.0
ND DICKINSON	71.0
ND FARGO	76.0
NE LINCOLN	78.0
NE NORTH PLATTE	74.0
NE GRAND ISLAND	75.0
NH BERLIN	73.0
NH CONCORD	74.0
NJ ATLANTIC CITY	78.0
NJ NEW BRUNSWICK	77.0
NJ TRENTON	78.0
NM ALBUQUERQUE	66.0
NM CARLSBAD	72.0
NM LAS CRUCES	69.0
NM SANTA FE	63.0
NV LAS VEGAS	71.0
NV RENO	64.0
NY ALBANY	75.0
NY ITHACA	74.0
NY NYC-KENNEDY	75.0
NY ROCHESTER	75.0

CAPACITY CURVES

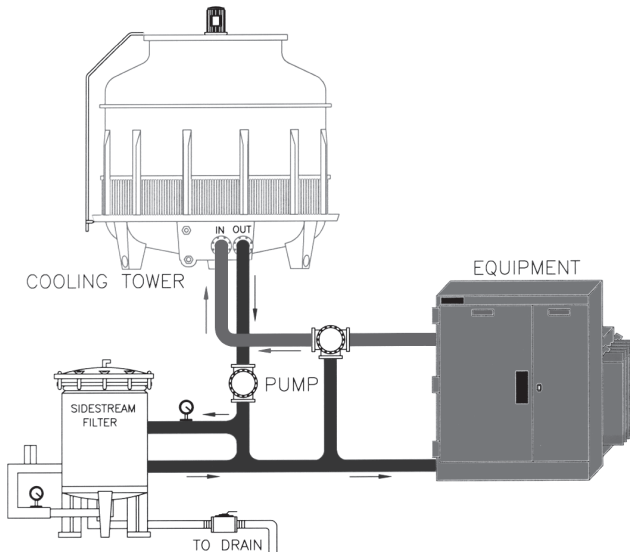


ST/CITY	DESIGN W.B.	ST/CITY	DESIGN W.B.	ST/CITY	DESIGN W.B.
NY SYRACUSE	75.0	SC CHARLESTON	81.0	VT BURLINGTON	74.0
OH CINCINNATI	77.0	SC COLUMBIA	79.0	VA FREDERICKSBURG	78.0
OH CLEVELAND	76.0	SC FLORENCE	80.0	VA NORFOLK	79.0
OH TOLEDO	76.0	SC SPARTANBURG	77.0	VA RICHMOND	79.0
OH YOUNGSTOWN	74.0	SD ABERDEEN	77.0	VA WINCHESTER	77.0
OH AKRON-CANTON	75.0	SD RAPID CITY	71.0	WA OLYMPIA	67.0
OK OKLAHOMA CITY	78.0	TN CHATTANOOGA	78.0	WA SEATTLE-TACOMA	66.0
OK TULSA	79.0	TN DYERSBURG	81.0	WA SPOKANE	65.0
OK ALTUS	77.0	TN KNOXVILLE	77.0	WA EVERETT	67.0
OR BEND	64.0	TN NASHVILLE	78.0	WI GREEN BAY	76.0
OR EUGENE	69.0	TX AMARILLO	71.0	WI MADISON	77.0
OR GRANTS PASS	71.0	TX AUSTIN	78.0	WI MILWAUKEE	76.0
OR PENDLETON	66.0	TX DALLAS	78.0	WI ASHLAND	72.0
OR PORTLAND	69.0	TX EL PASO	69.0	WV CHARLESTON	76.0
OR ALBANY	69.0	TX GALVESTON	81.0	WV HUNTINGTON	78.0
PA ERIE	75.0	TX HOUSTON	80.0	WV WHEELING	74.0
PA PHILADELPHIA	77.0	TX LUBBOCK	73.0	WY CHEYENNE	63.0
PA PITTSBURGH	74.0	TX SAN ANTONIO	77.0	WY CASPER	63.0
PA READING	76.0	UT SALT LAKE CITY	66.0		
RI NEWPORT	76.0	UT ST. GEORGE	70.0		
RI PROVIDENCE	75.0	UT CEDAR CITY	65.0		

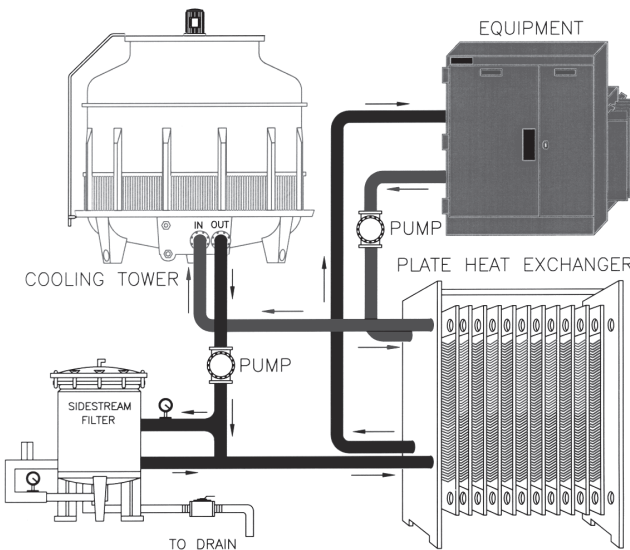
BASIC SYSTEM LAYOUT



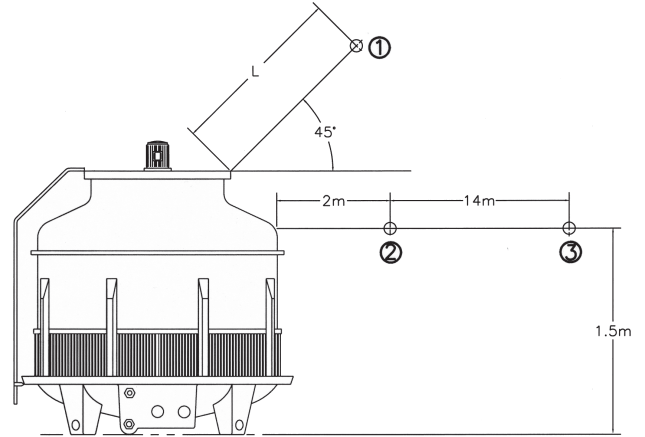
BYPASS SYSTEM LAYOUT



TYPICAL FLUID COOLER LAYOUT



SYSTEM LAYOUTS



NOISE LEVEL DATA (dB)_A

Tower Model	Position			Tower Model	Position		
	1	2	3		1	2	3
RSD 003	59	57	46	RSD 070	75	72	61
RSD 005	59	57	46	RSD 080	75	72	61
RSD 008	60	58	46	RSD 100	81	76	65
RSD 010	66	61	50	RSD 125	83	76	66
RSD 015	66	61	50	RSD 150	81	75	64
RSD 020	67	62	51	RSD 175	75	70	61
RSD 025	72	66	58	RSD 200	77	72	63
RSD 030	73	67	58	RSD 225	77	72	63
RSD 040	77	74	63	RSD 250	79	74	64
RSD 050	77	74	63	RSD 300	78	73	64
RSD 060	79	75	65	RSD 350	78	73	64

RSD COOLING TOWER WARRANTY

RSD warrants this product to be free of defects in materials and/or workmanship to the extent, but only the extent set forth below, and is limited to product that is properly applied and installed:

(A) FRP components for ten (10) years* from the date of installation. To be replaced or repaired as needed.

*Starting with serial #99000

(B) PVC fill material for two (2) years from date of installation. To be replaced as needed.

(C) All electrical, mechanical and non-FRP structural components for one (1) year from date of installation. To be repaired or replaced as needed.

The foregoing expressed warranty is in lieu of all other warranties, expressed, implied, or statutory (including, but not limited to, warranties of merchantability and fitness for a particular purpose.) RSD shall in no event be liable for any consequential, incidental or special damages and/or expenses.

TYPICAL COOLING TOWER APPLICATIONS

Type of Equipment	BTU	GPM	Cooling Range
Air Conditioning or Refrigeration Hermetic/Semi-Hermetic compressor	Per ton 15,000/hr	Per ton 1.5-3	10-20
Open drive compressor (external motor)	12,000/hr	3-3.6	10-12
Steam turbine driven compressor	30,000/hr	2-3	20-30
Absorption chiller	30,000/hr	3-4	15-20
Diesel Engine; jacket water & lube oil Four-cycle supercharged	2,600/hr	0.26	20
Four-cycle non supercharged	3,000/hr	0.30	20
Natural Gas Engine; jacket water & lube oil Four-cycle engine	per/bhp 4,500/hr	per/bhp 0.45	20
Two-cycle engine	4,500/hr	0.40	20
Electric Motor Driven Air Compressor Single stage	per/bhp 380/hr	per/bhp 0.076	10
Single stage, with aftercooler	2,545/hr	0.51	10
Two stage, with intercooler	1,530/hr	0.31	10
Plastic Injection Machines	Refer to the Hydraulic load demand		
Hydraulic Oil Coolers	2,545/hr/bhp	.51/bhp	10
Welding Tip Coolers	84/min(avg)	1	10
Dry Cleaning Machines	500 btu/lb cap.	3 gpm/ton	10

bhp = Brakehorse power 1 ton - 15,000 btu/hr

ACCESSORIES

CONTROL PANELS

RSD can provide control panels for any application. Whether your requirement is for simple fan cycling control or full system integration, our state-of-the-art Panel Division is uniquely equipped to engineer, design and build a control panel to meet your specific system demands. All control panels are UL 508 approved. This guarantees that your system will meet all code requirements and ensure years of trouble free operation.

HEAT EXCHANGERS

RSD can offer a variety of closed loop cooling systems. Many applications require water temperatures or water quality not normally attainable from a traditional open tower system. An RSD cooling tower in conjunction with a properly sized heat exchanger is an extremely cost effective and service friendly alternative to self contained fluid cooler designs. Simply provide us the system flow and water temperature requirements and leave the designing to us.

WATER TREATMENT

RSD can choose the correct water treatment for your needs. In all open cooling systems it is essential that the water be treated for dissolved solids and potential bacterial growth. Regardless of system design, over time, minerals in the water will form scale throughout the system that can affect heat transfer, water flow and ultimately system performance. In some systems, the formation of algae can also cause system problems. Let our water treatment specialists choose the proper chemical and feed system for your specific needs.

CIRCULATION SYSTEMS

RSD can design your water circulation system. Proper water flow is essential to ensure effective system performance. Since not all systems are created equally, efficient system design can save time and money. Our trained professionals can assist you in not only selecting the correct circulating pump for your flow requirements but also help design the most efficient piping layout for your system.

WATER FILTRATION

RSD can select the proper filtration option for you. One of the biggest challenges in any open cooling system is the control of foreign material in the water. This can cause everything from valve and control damage to the slow erosion of heat exchangers and the system piping. Whether the debris is introduced from the outside atmosphere or a by-product of the system itself, we can select a filtration option that is best suited to your specific needs.

COMPANY PROFILE

Refrigeration Supplies Distributor – Total Control has been a wholesale distributor of refrigeration, air conditioning and control products since 1933. Family owned and operated, RSD-TC was founded on the basis of quality products, knowledgeable staff and the highest in customer service, both before and after the sale.

In the early 1980's RSD-TC saw a need in the marketplace for a durable and economic alternative to the traditional metal and wood cooling towers. The RSD Fiberglass Cooling Tower was designed with the customer in mind. Fiberglass construction provides the double benefits of being lightweight and virtually non-corrosive. All the mechanical components have been engineered to meet the exacting standards of today's high tech marketplace.

RSD-TC takes pride in being more than a "me too" supplier. Though it is true that our Cooling Tower is the leader in its class, the benefits of choosing RSD-TC go far beyond the tower itself. Whether your requirements are for a simple HVAC application or a complex water-cooled system, RSD-TC has the technical support, products and services you need. With the largest inventory of Equipment, Controls and Accessories in the industry, RSD-TC is the clear choice when looking for a one-stop solution.

Our friendly technical support staff is trained to take your requirements and turn them into the most effective and cost efficient solution possible. To turn your problems into solutions, simply contact us via E-mail, Phone or Fax. We look forward to serving you.

RSD Fiberglass Cooling Towers, a Division of



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