



The  
***All-Fiberglass***  
Cooling Towers



**HRFG**  

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SERIES

***Durable  
Corrosion Resistant  
Cooling Towers***



REYMSA COOLING TOWERS, INC. has been committed for over 30 years to the Commercial and Industrial Market in providing solutions to their particular cooling needs, always looking for the total satisfaction of our customers.

This commitment and the experience of our Engineers, combined with supreme quality, premium materials and components used to manufacture our products, gave birth to the “state of the art” HRFG Series by REYMSA Cooling Towers.

100% FRP manufactured in order to provide the highest performance and longest service life possible, to serve those who demand the best and we are also committed to maintaining all production equipment at its optimum condition.

## FIBERGLASS REINFORCED POLYESTER (FRP) PROPERTIES

### HIGH MECHANICAL RESISTANCE

FRP material is highly resistant to tension and compression stresses and to impact forces as well; making it a frequently used material in structural applications.

As a rule of thumb, an FRP laminate requires three times the thickness than a steel laminate in order to have the same mechanical resistance.

A very simple analogy can be used to have a clear understanding of the FRP properties: The Polyester Resin can be seen as the Cement and the Fiberglass as the corrugated bars in reinforced concrete.

### GREAT CHEMICAL AND WEATHER RESISTANCE

There are several types of polyester resin available in the market for different applications and resistances. The highest protection against environmental attacks is reached by using Premium Isophthalic Polyester Resin with UV inhibitor in the manufacturing process of all our Cooling Towers. The life of FRP with Premium Isophthalic resin is said to be endless, however, REYMSA recommends using 30 years when making a life-cycle cost analysis.

### CORROSION RESISTANCE

Great Resistance to Corrosion and many chemical agents.

### LIGHT WEIGHT

An FRP laminate is 5 times lighter than its equivalent of the same size and thickness made from steel. You will also find that when compared to a steel laminate of the same mechanical resistance, the FRP laminate is about half as heavy.

### STABILITY

The low coefficient of expansion of the FRP material makes it highly resistant to wide variations of temperature and humidity without showing any deformation. These properties allow REYMSA Cooling Towers to withstand many different types of environments.

### ZERO OR NO MAINTENANCE REQUIRED

Only for appearance purposes, such as dusting or waxing.

### VERY EASY TO WORK WITH

It is very easy to perform minor repair work on the fiberglass. Materials are available all across the country, and the fixing process is as easy as grinding the surface, applying the Polyester Resin, which is in the form of a liquid, to a layer of fiberglass cloth and applying the resin again. Finally, wait until the resin is dried.

## HRFG SERIES FEATURES

- All FRP unitized casing and internal structure
- UV Protection for extended life & strength
- Optimum Design for all season performance including freezing climates
- PAG Glass-Reinforced-Polyamide adjustable pitch Fans
- Self extinguish PVC fill & PVC drift eliminator
- Direct drive, low speed, TEFC, NEMA fan motors
- Low noise operation
- No moving internal parts
- Fixed distribution nozzles with variable flow rates
- Triple-pass PVC Air Inlet Louvers
- Large, easily removable access doors
- Corrosion resistant strainers.
- Single or multiple fan configurations with common sump





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# Maximum Reliability with Efficiency

## ALL FIBERGLASS, ONE PIECE, SEAMLESS CONSTRUCTION WITH HIGH MECHANICAL RESISTANCE, LONG LIFE CONSTRUCTION, AND MINIMUM OR ZERO MAINTENANCE, WITHOUT WATER LEAKAGE PROBLEMS

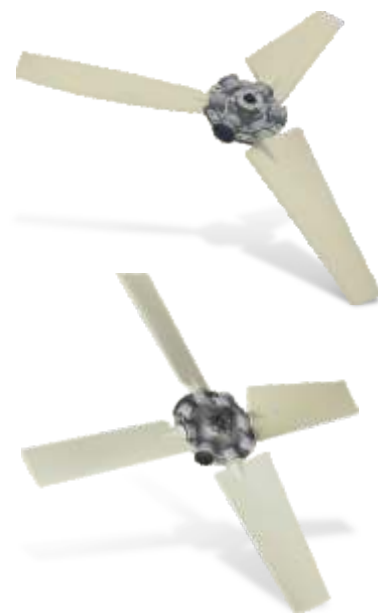
- Corrosion resistant.
- Major longevity, life expectancy of 30 plus years.
- No risk of water leakage, a unique seamless, one piece construction.
- Better appearance, aesthetically superior.
- Excellent mechanical resistance and stability capable of working in all kinds of environments weathers.
- Exterior and interior gelcoat protective layer with UV Inhibitor:  
Great resistance against:
  - 1- Aggressive chemical conditions of the water
  - 2- Weathering
  - 3- Harmful industrial contaminates
- Not affected by corrosive sediments caused by airborne impurities collected in the basin that require all the cold water in the basin of galvanized and stainless steel towers to be drained, cleaned and flushed quarterly.
- Greater resistance to a wide spectrum of pH 's, total dissolved solids, chlorides and sulfates from the water treatment.
- REYMSA Cooling Towers have the capacity to endure higher levels of concentration of chlorides in the water than Steel (galvanized and/or stainless) Towers. Typically a Pulsed Power Non Chemical water treatment is able to handle up to 400 ppm of concentration of chlorides in the recirculation water, which means more cycles of concentration and less water losses caused by bleeds or blowdowns.



# Durability & Minimum Maintenance

## DIRECT DRIVE ON ALL OF OUR TOWER MODELS, FOR A MORE RELIABLE OPERATION WITH MUCH LOWER SERVICE AND OPERATION COSTS, AND MINIMAL RISK OF A FAILURE

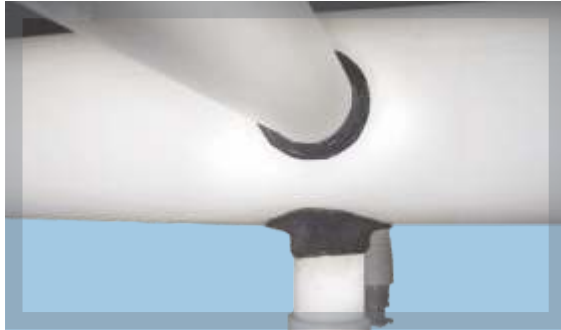
- Direct drive transmission that eliminates the use of pulleys, belts and bearings.
- Our direct drive motors eliminate the frequent service required by the V-belt drive transmissions that have higher operational and maintenance costs. Typically a V-belt drive transmission requires quarterly service for checking and readjusting the tension of the belt, lubrication of fan shaft bearings, lubrication of the motor base adjusting screws and drive alignment to ensure maximum belt life.
- Also, by having fewer components between the fan and the motor, the risk of a failure causing a sudden stop of the fan and higher operational water temperatures that may in turn stop the entire air conditioning system is reduced to a minimum.
- REYMSA uses the best fan in the market; manufactured using cast aluminum hubs and adjustable pitch air foil blades molded with engineering thermoplastics.
- Blade materials: PAG Glass reinforced polyamide, which is spark and corrosive resistant and is able to resist high vibration levels and high temperatures. Ambient operating air temperatures may fluctuate from – 50°F to 250°F.
- Fan Motors: all of our Towers feature motors that exceed the Cooling Tower duty characteristics: Severe, Marine and Inverter duty, Cast iron construction, Epoxy coated (internal and external), Inpro/seal VBX bearings isolators, Brass drain and breather, TEFC/1.15 SF/ 6-60 Variable torque, Premium efficient motor.



# Maximum Reliability with Efficiency

## THE MOST RELIABLE HOT WATER DISTRIBUTION SYSTEM

The hot water manifold is manufactured out of PVC, with PVC welded branches tested at 100 psig., to assure reliability and prevent water leakages that affect the tower efficiency. This avoids wearing of the union gasket unlike other tower manufacturers.



## NON CLOGGING SPRAY NOZZLES

Fixed, non-clogging, 2 1/2", N.P.T., large orifice nozzles are the largest on the market. They are manufactured out of ABS plastic and are able to handle water temperatures up to 180 °F. Nozzles have with interchangeable internal devices so that water is efficiently and uniformly distributed across the entire fill surface. Nozzle body has a threaded connection and is easy to remove.

2 1/2" N.P.T. ABS-Spray Nozzles  
with interchangeable  
internal devices



## HIGHEST SURFACE TO VOLUME RATIO PVC FILL FOR SMALLER FOOTPRINT

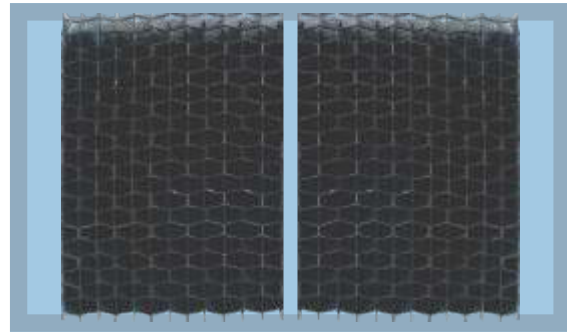
By having the highest specific surface area ( $\text{ft}^2/\text{ft}^3$ ), our fill provides the highest surface area for heat transfer for all HVAC and most Industrial applications. The PVC compounds used in our fill have outstanding resistance to weather exposure and are nearly impervious to chemical degradation by alkali, acids, grease, fats, oils and biological attack. Our fill also has an excellent fire rating due to its self-extinguishing characteristics and meets or exceeds Cooling Technology Institute (CTI) PVC materials standard 136.



# Durability & Minimum Maintenance

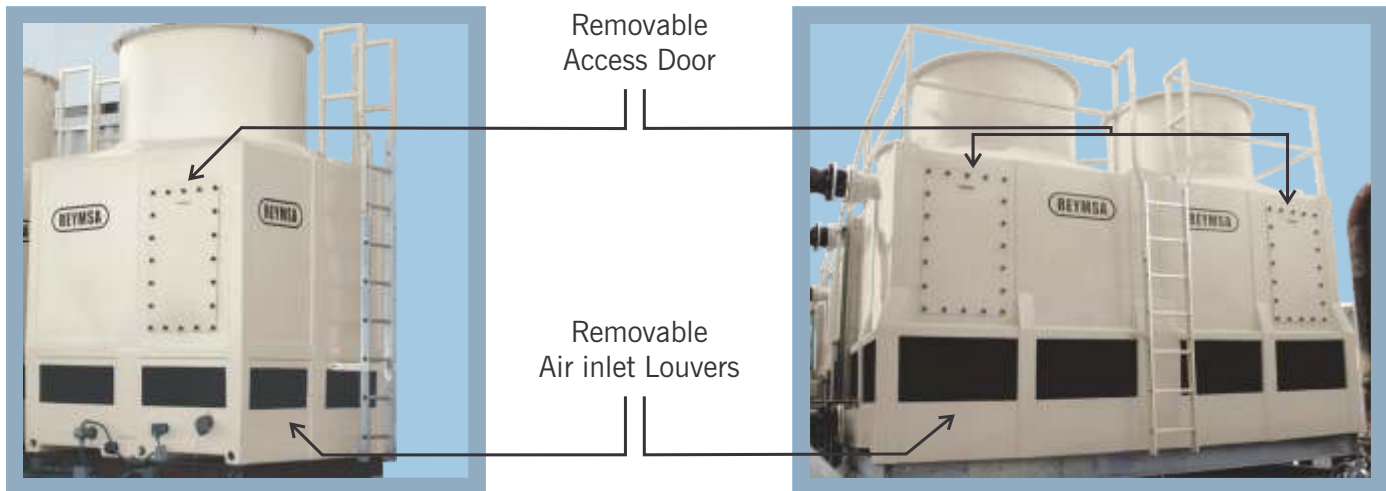
## EASY, REMOVABLE, ENVIRONMENTALLY FRIENDLY AIR INLET LOUVER DESIGN

Triple pass PVC air inlet louvers are designed to minimize direct sunlight, reduce splash-out and noise. Diminishing direct sunlight reduces algae growth which will result in lower water treatment cost and maintenance. The Louvers are designed for low pressure drop that results in less energy consumption. Louvers are durable, corrosion resistant, and impervious to chemical attacks. The PVC is specially formulated for UV protection, fire resistance, non-combustible and self-extinguishing.



## EASY MAINTENANCE AND CLEANING ACCESS

Wide and easy access for monitoring or cleaning the inside of the Tower and the cold water basin by removing the access door or the air inlet louvers.



# Maximum Reliability with Efficiency

## FACTORY TESTS

Every single tower is assembled and tested at our factory prior to shipment.



## FRIENDLY, EASY TO DEAL WITH COMPANY

A family owned Company founded in 1969 who really understands the importance of having satisfied customers to build long term relationships.



## EASY AND ECONOMICAL ASSEMBLY AND INSTALLATION

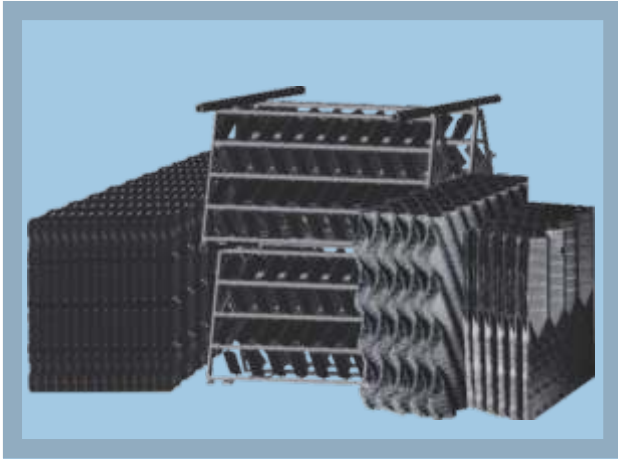
- Assembly is reduced to placing and bolting the fan cylinder on top of the one-piece body and basin section. No gasket or caulking is required.
- The reduced footprint of our Induced Draft, Counterflow design requires less structural base support, and frequently less piping than the crossflow towers.





# Durability & Minimum Maintenance

## OPTIONAL DESIGNS WITH CUSTOMIZED COMPONENTS OR COLORS FOR SPECIAL APPLICATIONS



- Special fills for industrial applications with bigger flutes, vertical design or for higher than 130°F water temperature.

- Tower casing construction with flame retardant resin according to the ASTM-E84 Standard.



- Special Colors, Designs or Configurations

## OPTIONAL EQUIPMENT

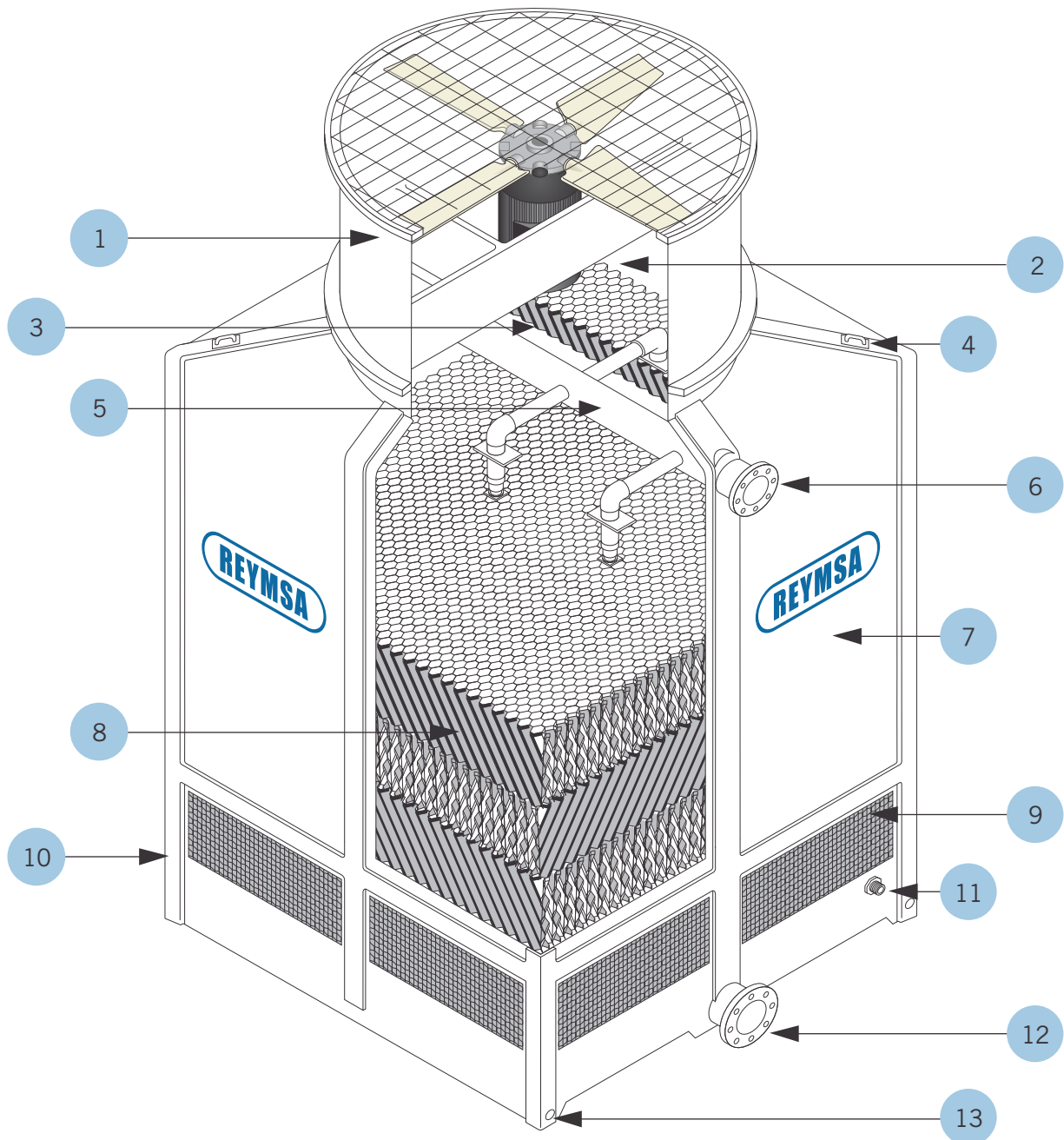


- Sound Deflectors
- Access Ladder
- Stainless Steel Handrail
- Vibration Cut off Switch
- Electric Heaters
- Electric Water Level Control
- Bottom Outlet (Dry Sump)
- Basin Equalizer Connections
- Stainless Steel Davit Support
- Special Fan Motor Construction
- Stainless Steel Non-Skid Catwalk



- Automatic Sand Filtration System for Suspended Solids RFS Series
- Sweeper Piping for Water Filtration
- Vibration Isolators
- Variable Frequency Drive
- Basket Non-Corrosive Strainers for Outlet Connection (Standard)

# Construction Details



1. Fan Section

2. Plenum

3. Drift Eliminator

4. Lifting Eyes

5. Spray Nozzle Manifold

6. Hot Water Inlet

7. Body Section

8. Cellular Fill

9. Air Inlet Louvers

10. Basin Section

11. Water Make up

12. Cold Water Outlet

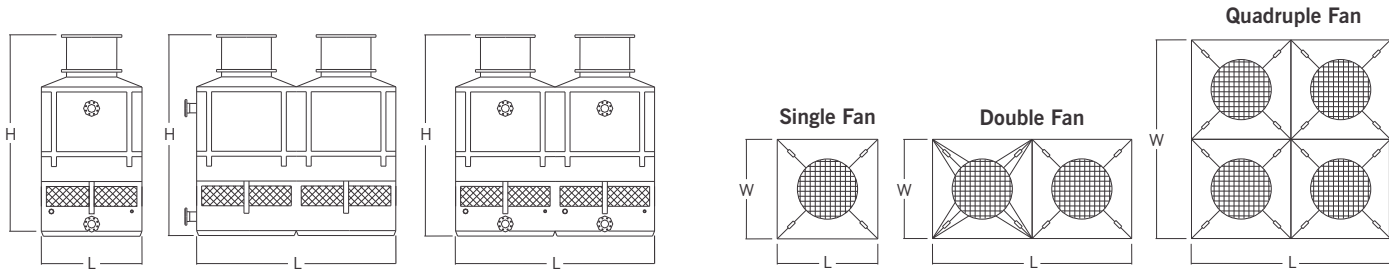
13. Mounting Holes

14. Overflow (back side)

15. Drain (back side)

16. Purge (back side)

# Engineering Data



MODEL	*Nominal Tons	DIMENSIONS (in.)				CONNECTION DIAMETER (in.)						WEIGHT (lbs.)		Motor HP
		L	W	H	Height W/O Fan	Cold Water Outlet	Overflow	Water Makeup	Hot Water Inlet	Drain	Purge	Shipping	Operating	
HRFG-303115	24	35¼	35¼	107½	90	2½	¾	½	2½	1	½	727	1427	1.5
HRFG-303102	26	35¼	35¼	107½	90	2½	¾	½	2½	1	½	727	1427	2
HRFG-404103	43	48	48	122	98	2½	¾	½	2½	1	½	1022	2234	3
HRFG-404105	53	48	48	122	98	2½	¾	½	2½	1	½	1022	2234	5
HRFG-505103	61	61	61	127½	97	4	1	½	4	1	¾	1366	3189	3
HRFG-505105	75	61	61	127½	97	4	1	½	4	1	¾	1366	3189	5
HRFG-606105	90	73	73	128	98	4	1	½	4	1	¾	1890	4415	5
HRFG-606175	107	73	73	128	98	4	1	½	4	1	¾	1890	4415	7.5
HRFG-707175	141	83½	83½	134	98	6	1½	1	6	1½	¾	2553	5624	7.5
HRFG-707110	155	83½	83½	134	98	6	1½	1	6	1½	¾	2553	5624	10
HRFG-708175	152	96	84	134	98	6	1½	1	6	1½	¾	2717	6230	7.5
HRFG-708110	169	96	84	134	98	6	1½	1	6	1½	¾	2717	6230	10
HRFG-708115	192	96	84	134	98	6	1½	1	6	1½	¾	2717	6230	15
HRFG-709175	163	110¾	85¾	134	98	6	1½	1	6	1½	¾	2912	6863	7.5
HRFG-709110	184	110¾	85¾	134	98	6	1½	1	6	1½	¾	2912	6863	10
HRFG-709115	205	110¾	85¾	134	98	6	1½	1	6	1½	¾	2912	6863	15
HRFG-808175-SL	162	96	96	163½	119	6	1½	1	6	1½	¾	2913	6919	7.5
HRFG-808175	171	96	96	154	119	6	1½	1	6	1½	¾	2986	6992	7.5
HRFG-808110-SL	180	96	96	163½	119	6	1½	1	6	1½	¾	2913	6919	10
HRFG-808110	190	96	96	154	119	6	1½	1	6	1½	¾	2986	6992	10
HRFG-808115	210	96	96	154	119	6	1½	1	6	1½	¾	2986	6992	15
HRFG-810110-SL	199	120½	96	162½	118	6	2	1	6	2	¾	3475	8449	10
HRFG-810110	210	120½	96	153	118	6	2	1	6	2	¾	3548	8522	10
HRFG-810115	243	120½	96	153	118	6	2	1	6	2	¾	3548	8522	15
HRFG-810120	266	120½	96	153	118	6	2	1	6	2	¾	3548	8522	20
HRFG-812115	267	145	96	154	119	8	2	1	8	2	¾	4028	9965	15
HRFG-812120	291	145	96	154	119	8	2	1	8	2	¾	4028	9965	20
HRFG-812125	313	145	96	154	119	8	2	1	8	2	¾	7028	9965	25
HRFG-714275	281	167	83½	134	98	8	2	1	8	1½	¾	4674	10818	(2)7.5
HRFG-714210	311	167	83½	134	98	8	2	1	8	1½	¾	4674	10818	(2)10
HRFG-816275-SL	326	199½	104¾	168½	123	8	2	1½	8	2	¾	5329	13066	(2)7.5
HRFG-816275	343	199½	104¾	159	123	8	2	1½	8	2	¾	5476	13213	(2)7.5
HRFG-816210-SL	361	199½	104¾	168½	123	8	2	1½	8	2	¾	5329	13066	(2)10
HRFG-816210	380	199½	104¾	159	123	8	2	1½	8	2	¾	5476	13213	(2)10
HRFG-816215	420	199½	104¾	159	123	8	2	1½	8	2	¾	5476	13213	(2)15
HRFG-822215**	477	268	98¾	282	246	10	2	1½	8	2	¾	9105	19990	(2)15
HRFG-822220**	528	268	98¾	282	246	10	2	1½	8	2	¾	9105	19990	(2)20
HRFG-827215**	578	328	98¾	301	263	10	2	1½	8	2	¾	11165	25665	(2)15
HRFG-827220**	618	328	98¾	301	263	10	2	1½	8	2	¾	11165	25665	(2)20
HRFG-1414475	565	175	174	134	98	(2) 8	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	9349	21637	(4)7.5
HRFG-1414410	622	175	174	134	98	(2) 8	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	9349	21637	(4)10
HRFG-1616475-SL	651	199½	201	168½	123	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	10600	26074	(4)7.5
HRFG-1616475	685	199½	201	159	123	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	10953	26427	(4)7.5
HRFG-1616410	760	199½	201	159	123	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	10953	26427	(4)10
HRFG-1616415	840	199½	201	159	123	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	10953	26427	(4)15
HRFG-1622415	954	268	197½	205	246	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	18210	39980	(4)15
HRFG-1622420	1056	268	197½	205	246	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	18210	39980	(4)20
HRFG-1627415	1156	328	197½	282	263	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	22330	51330	(4)15
HRFG-1627420	1236	328	197½	282	263	(2) 10	(2) 2	(2) 1½	(2) 8	(2) 2	(2) ¾	22330	51330	(4)20

\* A Nominal TON is defined as 3 GPM of water cooled from 95°F to 85°F with a 78°F entering wet bulb.

\*\* Modular sections to be assembled for higher tonnage requirements. Minimum two modules. Contact your Rep for proper selection.

1. All dimensions, weights and capacities are in inches, pounds and gallons. Physical dimensions of each tower are approximate and are subject to change.
2. All double and quadruple models have double fittings and connections.

Models with suffix "-SL" are equipped with 60-in diameter std fan blades at 700 RPM for low sound application and incur a 5% capacity reduction compared to standard models of the same physical size.

# Maximum Reliability with Efficiency

## HRFG SERIES TOWER SELECTION

### EXAMPLE:

Select the HRFG Model REYMSA Cooling Tower to cool 1200 GPM of clear water from 95 °F to 85 °F at entering air wet bulb of 78 °F.

STEP 1 RANGE is equal to the temperature differential between the entering water temperature ( T1 ) and the leaving water temperature ( T2).  $(95\text{ °F} - 85\text{ °F}) = 10$

STEP 2 APPROACH is equal to the temperature differential between the leaving cool water temperature ( T2 ) and wet bulb temperature ( TWB).  $(85\text{ °F} - 78\text{ °F}) = 7$

STEP 3 From Section A: TOWER SELECTION FACTORS; Select the appropriate wet bulb temperature table (78 °F ). Select the range column ( 10 ) and in Approach row ( 7 ), the Tower Selection Factor = 4.8

STEP 4 Next, go to Section B: CAPACITY TABLES; Enter the column headed by the “ Tower Selection Factor ” determined from Section A ( 4.8 ) and read down that column to the desired cooling water flow rate equal to or greater than that specified ( 1200 GPM ). Look to the left on the row with the desired cooling water flow and read the corresponding HRFG816215 REYMSA Cooling Tower model to satisfy your requirements.

## Sección A: TOWER SELECTION FACTORS

### 60 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	3.15	2.70	2.43						
6	3.60	3.03	2.73	2.49					
7	4.05	3.42	3.00	2.73	2.49				
8	4.50	3.75	3.36	3.00	2.70	2.40			
10	5.49	4.50	3.96	3.60	3.21	2.79	2.55	2.40	
12	6.36	5.31	4.59	4.14	3.66	3.18	2.88	2.76	2.61
14		6.00	5.25	4.65	4.14	3.60	3.21	3.09	2.88
16			5.91	5.25	4.62	4.05	3.60	3.45	3.21

### 62 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	3.33	2.85	2.55	2.34					
6	3.78	3.21	2.88	2.61	2.37				
7	4.26	3.75	3.18	2.91	2.61	2.34			
8	4.65	3.96	3.51	3.18	2.85	2.55	2.31		
10	5.70	4.71	4.14	3.78	3.33	2.88	2.67	2.55	2.40
12	6.75	5.55	4.80	4.32	3.84	3.36	3.00	2.91	2.73
14		6.45	5.55	4.95	4.35	3.81	3.39	3.24	3.06
16			6.21	5.55	4.85	4.23	3.78	3.63	3.45

# Durability & Minimum Maintenance

## 63 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	3.42	2.88	2.58	2.40						
6	3.90	3.30	2.91	2.67	2.43					
7	4.35	3.66	3.21	2.94	2.67	2.40				
8	4.80	4.05	3.54	3.24	2.91	2.61	2.37			
10	5.85	4.80	4.23	3.81	3.42	3.00	2.73	2.64	2.49	
12		5.61	4.89	4.41	3.96	3.48	3.12	2.97	2.79	
14		6.54	5.61	5.04	4.44	3.90	3.54	3.36	3.15	
16			6.36	5.64	5.04	4.35	3.90	3.75	3.54	

## 64 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	3.54	2.97	2.64	2.43						
6	4.02	3.39	2.91	2.73	2.49					
7	4.47	3.75	3.30	3.00	2.76	2.46				
8	5.01	4.14	3.63	3.30	2.97	2.70	2.43	2.31		
10	6.00	4.95	4.29	3.90	3.54	3.09	2.82	2.67	2.55	
12		5.79	5.01	4.50	4.02	3.60	3.21	3.00	2.91	
14		6.60	5.70	5.16	4.56	3.99	3.63	3.39	3.24	
16			6.36	5.85	5.16	4.50	4.02	3.78	3.63	

## 66 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	3.72	3.21	2.82	2.61	2.37					
6	4.26	3.63	3.15	2.91	2.61	2.37				
7	4.74	3.99	3.54	3.21	2.88	2.61	2.37			
8	5.31	4.41	3.84	3.54	3.12	2.82	2.55	2.43	2.34	
10	6.36	5.19	4.59	4.17	3.72	3.27	2.91	2.82	2.70	
12		6.09	5.31	4.80	4.26	3.75	3.36	3.21	3.03	
14			6.06	5.52	4.80	4.26	3.78	3.60	3.42	
16				6.15	5.46	4.71	4.23	3.99	3.81	

## 68 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	3.93	3.33	2.94	2.73	2.49	2.25				
6	4.41	3.75	3.30	3.03	2.91	2.49	2.28			
7	4.95	4.17	3.69	3.39	3.00	2.70	2.49	2.40	2.31	
8	5.55	4.59	4.05	3.72	3.30	2.94	2.70	2.61	2.49	
10	6.75	5.52	4.74	4.35	3.90	3.42	3.09	2.97	2.85	
12		6.45	5.58	5.04	4.44	3.93	3.57	3.39	3.21	
14			6.36	5.76	5.04	4.41	3.99	3.81	3.60	
16				6.51	5.70	4.95	4.41	4.26	4.02	

## 70 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	4.05	3.54	3.12	2.88	2.61	2.37				
6	4.56	3.96	3.51	3.21	2.91	2.61	2.40	2.31		
7	5.16	4.41	3.90	3.54	3.21	2.85	2.64	2.52	2.43	
8	5.46	4.89	4.26	3.90	3.51	3.06	2.85	2.73	2.67	
10		5.82	5.04	4.56	4.11	3.60	3.30	3.15	3.00	
12		6.90	5.91	5.34	4.65	4.14	3.78	3.60	3.48	
14			6.75	6.00	5.34	4.65	4.23	4.02	3.87	
16					5.94	5.28	4.74	4.47	4.32	

## 72 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	4.35	3.69	3.27	3.00	2.73	2.52	2.31			
6	4.95	4.14	3.72	3.42	3.03	2.79	2.55	2.43	2.34	
7	5.55	4.59	4.11	3.75	3.36	3.03	2.79	2.67	2.55	
8	6.09	5.04	4.47	4.11	3.69	3.30	3.00	2.85	2.79	
10		6.00	5.34	4.80	4.32	3.84	3.51	3.30	3.18	
12			6.15	5.55	5.01	4.38	3.93	3.78	3.60	
14				6.36	5.64	5.04	4.44	4.26	4.05	
16					6.36	5.61	5.04	4.71	4.50	

## 73 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	4.38	3.78	3.39	3.12	2.82	2.55	2.40	2.28		
6	4.98	4.29	3.81	3.54	3.18	2.85	2.64	2.52	2.40	
7	5.58	4.71	4.23	3.93	3.51	3.09	2.91	2.73	2.64	
8	6.15	5.25	4.62	4.26	3.78	3.42	3.09	2.94	2.85	
10		6.21	5.55	4.89	4.44	3.96	3.60	3.42	3.27	
12			6.36	5.79	5.10	4.50	4.11	3.90	3.72	
14				6.60	5.79	5.10	4.65	4.35	4.17	
16					6.45	5.70	5.16	4.86	4.59	

## 74 Deg. Wet Bulb

APPROACH	RANGE									
	6	8	10	12	15	20	26	30	35	
5	4.47	3.84	3.48	3.18	2.91	2.67	2.43	2.37	2.28	
6	5.19	4.35	3.90	3.60	3.24	2.91	2.67	2.58	2.49	
7	5.76	4.86	4.32	3.96	3.60	3.21	2.91	2.82	2.70	
8	6.90	5.34	4.74	4.32	3.90	3.48	3.18	3.00	2.91	
10		6.36	5.61	5.13	4.56	4.05	3.66	3.54	3.39	
12			6.60	5.88	5.31	4.59	4.14	3.99	3.84	
14				6.75	6.00	5.22	4.68	4.47	4.29	
16						5.85	5.25	5.04	4.77	

# Maximum Reliability with Efficiency

## 75 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	4.62	3.96	3.54	3.27	3.00	2.70	2.52	2.40	2.34
6	5.31	4.44	3.99	3.66	3.36	2.97	2.79	2.67	2.55
7	5.91	5.01	4.41	4.05	3.69	3.30	3.00	2.88	2.79
8	6.45	5.52	4.89	4.41	4.02	3.60	3.30	3.09	2.97
10		6.06	5.76	5.16	4.71	4.17	3.81	3.60	3.36
12			6.66	6.00	5.46	4.71	4.32	4.05	3.90
14					6.15	5.40	4.86	4.56	4.38
16						6.00	5.40	5.16	4.89

## 76 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	4.71	4.05	3.69	3.42	3.06	2.79	2.61	2.49	2.40
6	5.40	4.56	4.14	3.78	3.45	3.09	2.85	2.73	2.64
7	6.00	5.10	4.53	4.17	3.78	3.42	3.12	2.97	2.85
8	6.75	5.61	5.04	4.56	4.14	3.72	3.42	3.24	3.06
10		6.75	5.91	5.40	4.80	4.29	3.90	3.72	3.60
12				6.15	5.55	4.89	4.44	4.26	4.05
14					6.24	5.55	5.04	4.74	4.50
16						6.15	5.58	5.28	5.10

## 77 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	4.86	4.20	3.75	3.48	3.18	2.91	2.67	2.55	2.49
6	5.55	4.71	4.23	3.87	3.54	3.21	2.91	2.79	2.70
7	6.15	5.28	4.59	4.29	3.87	3.51	3.18	3.06	2.94
8		5.79	5.10	4.65	4.26	3.84	3.45	3.30	3.21
10			6.00	5.52	4.95	4.41	3.99	3.81	3.69
12				6.36	5.70	5.04	4.50	4.35	4.17
14					6.45	5.70	5.16	4.86	4.65
16						6.36	5.76	5.52	5.19

## 78 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	5.04	4.38	3.87	3.57	3.21	2.97	2.70	2.67	2.52
6	5.70	4.95	4.32	3.99	3.60	3.27	2.97	2.91	2.76
7	6.36	5.52	4.80	4.38	3.93	3.60	3.27	3.15	2.97
8		6.00	5.28	4.80	4.32	3.90	3.57	3.45	3.21
10			6.24	5.67	5.07	4.50	4.11	3.93	3.75
12				6.60	5.85	5.19	4.65	4.47	4.26
14					6.60	5.85	5.25	5.04	4.74
16						6.60	5.85	5.64	5.28

## 79 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	5.10	4.44	3.93	3.69	3.36	3.00	2.82	2.70	2.58
6	5.79	5.04	4.41	4.11	3.75	3.36	3.09	2.94	2.88
7	6.51	5.55	4.89	4.50	4.11	3.69	3.42	3.21	3.09
8		6.15	5.40	4.92	4.44	3.96	3.69	3.51	3.39
10			6.36	5.85	5.25	4.59	4.26	4.02	3.90
12				6.75	6.00	5.25	4.80	4.59	4.38
14						5.94	5.46	5.16	4.92
16						6.75	6.00	5.79	5.52

## 80 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	5.28	4.50	4.11	3.78	3.45	3.09	2.85	2.79	2.70
6	6.00	5.10	4.56	4.20	3.81	3.48	3.15	3.03	2.94
7	6.75	5.70	5.10	4.65	4.20	3.78	3.45	3.33	3.21
8		6.24	5.61	5.10	4.56	4.14	3.75	3.63	3.51
10			6.60	6.00	5.40	4.74	4.35	4.14	3.99
12					6.15	5.46	4.92	4.68	4.50
14						6.09	5.55	5.34	5.10
16							6.15	5.85	5.64

## 81 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	5.49	4.65	4.20	3.84	3.54	3.21	2.94	2.85	2.73
6	6.15	5.31	4.62	4.32	3.96	3.57	3.24	3.18	3.00
7	6.90	5.88	5.16	4.74	4.32	3.90	3.57	3.48	3.30
8		6.54	5.70	5.16	4.71	4.26	3.81	3.75	3.60
10			6.75	6.15	5.49	4.89	4.41	4.29	4.08
12					6.36	5.61	5.04	4.86	4.65
14						6.36	5.70	5.49	5.16
16							6.36	6.09	5.79

## 82 Deg. Wet Bulb

APPROACH	RANGE								
	6	8	10	12	15	20	26	30	35
5	5.55	4.74	4.26	3.96	3.60	3.20	3.03	2.94	2.85
6	6.33	5.40	4.74	4.44	3.99	3.63	3.36	3.21	3.09
7		6.00	5.28	4.89	4.38	3.93	3.69	3.54	3.42
8		6.60	5.79	5.40	4.77	4.29	3.96	3.81	3.63
10			6.90	6.30	5.64	5.01	4.56	4.35	4.20
12					6.45	5.70	5.25	5.04	4.74
14						6.45	5.85	5.64	5.34
16							6.60	6.21	5.94

# Durability & Minimum Maintenance

## Section B: CAPACITY TABLES [GPM]

MODEL	SELECTION FACTORS											
	2.4	2.8	3.2	3.6	4	4.4	4.8	5	5.4	5.8	6.2	6.6
303115	36	42	48	54	60	66	72	75	81	87	93	99
303102	39	46	52	59	65	72	78	81	88	94	101	107
404103	65	75	86	97	108	118	129	134	145	156	167	177
404105	80	93	106	119	133	146	159	166	179	192	205	219
505103	92	107	122	137	153	168	183	191	206	221	236	252
505105	113	131	150	169	188	206	225	234	253	272	291	309
606105	135	158	180	203	225	248	270	281	304	326	349	371
606175	161	187	214	241	268	294	321	334	361	388	415	441
707175	212	247	282	317	353	388	423	441	476	511	546	582
707110	233	271	310	349	388	426	465	484	523	562	601	639
708175	228	266	304	342	380	418	456	475	513	551	589	627
708110	254	296	338	380	423	465	507	528	570	613	655	697
708115	288	336	384	432	480	528	576	600	648	696	744	792
709175	245	285	326	367	408	448	489	509	550	591	632	672
709110	276	322	368	414	460	506	552	575	621	667	713	759
709115	308	359	410	461	513	564	615	641	692	743	794	846
808175-SL	244	284	325	366	407	446	487	507	548	589	630	670
808175	257	299	342	385	428	470	513	534	577	620	663	705
808110-SL	271	316	361	407	451	497	541	564	609	654	699	745
808110	285	333	380	428	475	523	570	594	641	689	736	784
808115	315	368	420	473	525	578	630	656	709	761	814	866
810110-SL	299	350	399	449	499	549	598	623	673	723	773	823
810110	315	368	420	473	525	578	630	656	709	761	814	866
810115	365	425	486	547	608	668	729	759	820	881	942	1002
810120	399	466	532	599	665	732	798	831	898	964	1031	1097
812115	401	467	534	601	668	734	801	834	901	968	1035	1101
812120	437	509	582	655	728	800	873	909	982	1055	1128	1200
812125	470	548	626	704	783	861	939	978	1056	1135	1213	1291
714275	422	492	562	632	703	773	843	878	948	1019	1089	1159
714210	467	544	622	700	778	855	933	972	1050	1127	1205	1283
816275-SL	487	569	650	731	812	894	975	1015	1096	1178	1259	1340
816275	513	599	684	770	855	941	1026	1069	1154	1240	1325	1411
816210-SL	541	632	722	812	902	993	1083	1129	1219	1309	1399	1490
816210	570	665	760	855	950	1045	1140	1188	1283	1378	1473	1568
816215	630	735	840	945	1050	1155	1260	1313	1418	1523	1628	1733
822215	716	834	954	1074	1193	1311	1431	1490	1609	1729	1849	1967
822220	792	925	1056	1189	1321	1454	1585	1651	1782	1915	2046	2179
827215	869	1012	1157	1302	1448	1590	1736	1807	1952	2098	2243	2385
827220	929	1083	1237	1391	1547	1701	1855	1933	2087	2241	2395	2552
1414475	848	989	1130	1271	1413	1554	1695	1766	1907	2048	2189	2331
1414410	933	1089	1244	1400	1555	1711	1866	1944	2099	2255	2410	2566
1616475-SL	977	1139	1301	1464	1627	1790	1952	2034	2196	2359	2521	2685
1616475	1028	1199	1370	1541	1713	1884	2055	2141	2312	2483	2654	2826
1616410	1140	1330	1520	1710	1900	2090	2280	2375	2565	2755	2945	3135
1616415	1260	1470	1680	1890	2100	2310	2520	2625	2835	3045	3255	3465
1622415	1432	1668	1908	2148	2386	2622	2862	2980	3218	3458	3698	3934
1622420	1584	1850	2112	2378	2642	2908	3170	3302	3564	3830	4092	4358
1627415	1738	2024	2314	2604	2896	3180	3472	3614	3904	4196	4486	4770
1627420	1858	2166	2474	2782	3094	3402	3710	3866	4174	4482	4790	5104

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## REYMSA COOLING TOWERS, INC.

Tel (972) 853 8812, (956) 568 4062  
sales@reymosa.com

Toll Free Number 1-866-445-2043  
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