

Santa Fe Tank & Tower Co.

Since 1903

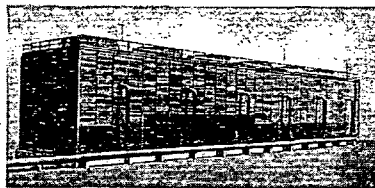
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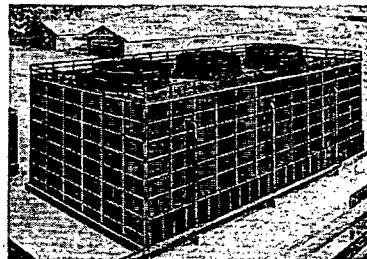
SANTA FE Induced Draft Cooling Towers

Santa Fe Induced Draft Cooling Towers are engineered to provide the most economical unit per cubic foot of space required. They are designed for continuous operation, and standard structural design will withstand wind loads up to 100 miles per hour. Specially designed decks assure proper break-up of water and a balanced distribution of air. Either gravity or spray type distributing system. Inner and outer sheathing serves as an insulator and prevents deterioration. Clear and select California Redwood provides a sturdy framework to withstand all live and dead loads. Mechanical equipment is selected for continuous operation.



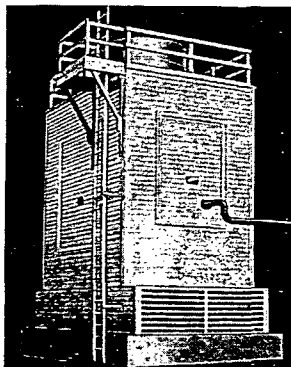
NEW "MD-54"

This tower represents an important step toward the development of a cooling tower with a substantially improved structural design. Simplified construction and better utilization of materials is the key to its improved performance. The "MD-54" requires fewer parts for construction, and thereby allows for faster erection and less maintenance. To make the "MD-54" adaptable to individual requirements, two separate standard types of decks were designed. One is best suited to lowest first cost, and the other to the lowest evaluated cost on an amortized basis. A new bracing system is used to minimize obstruction to the free flow of air. The result is better cooling performance. This new type of bracing requires only two specially designed joint connectors in conjunction with 3 standard braces to build any size or height of the "MD-54" cooling tower.



SANTA FE Econotower (Series V)

A prefabricated tower furnished with either a double Redwood shell or Redwood interior wall and Transite exterior wall. Prefabrication assures simple field erection. Available with gravity or uniform spray type distribution. Spray distribution system consists of steel pipe headers with Santa Fe bronze nozzles. Sturdy interlocking decks are made in assembled sections and can be removed. Multiple-blade, belt-driven fans are durable and corrosion resistant. Motors are NEMA standard specification, either totally enclosed fan cooled or splash proof type, as specified. Redwood towers may have collecting basins manufactured from durable Redwood. These units utilize bolted construction and are furnished with a heavy galvanized steel sump with Vortex breaker and float valve for make-up water.



Monarch Manufacturing Works, Inc.

2509 E. Ontario St., Philadelphia 34, Pa.

SPRAY NOZZLES FOR WATER AND OIL

NON-CLOG AIR WASHER NOZZLES

produce an exceptionally efficient, evenly distributed hollow cone spray. Single large tangential inlet to swirling chamber minimizes any possibility of clogging. Also available in 1/2 in. to 1 in. pipe sizes inclusive, and of Brass, Stainless and Monel.

Capacities: Gallons per Hour

Sizes			Lbs Operating Pressure					
Pipe	Orifice	Lead	10	20	30	40	60	100
1/4"	69	69			2.9	3.3	4.0	5.1
	61	61		4.0	5.0	5.5	7.0	8.7
	61	53	4.4	6.2	7.5	8.3	10.3	13.0
	53	53	5.8	8.2	9.8	10.9	14.1	17.3
	49	49	9.1	11.1	13.2	15.0	19.5	24.6
	1/2"	1/2"	11.8	16.6	20.4	23.4	29.0	36.5
	1/4"	1/4"	19.5	27.6	33.3	39.1	49.0	60.0
	1/4"	1/4"	24.3	34.6	42.8	50.0	64.0	78.5
	1/4"	1/4"	31.5	46.1	57.0	64.1	81.9	105
	1/4"	1/4"	52.2	75.0	92.5	109	138	189
1/2"	1/2"	1/2"	78.0	112	138	163	205	257
	1/2"	1/2"	82.0	121	152	180	225	300



Fig. 651

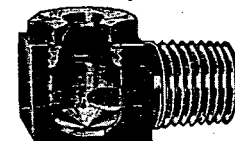


Fig. 622

AIR CONDITIONING AND OIL BURNER NOZZLES

Water Capacity in Gallons per Hour

Nozzle No.	Lb Operating Pressure				
	25	40	60	80	100
1.35		.57	.69	.83	.92
1.65		.75	.89	.99	1.12
2.00		.94	1.14	1.28	1.40
2.50		1.13	1.45	1.64	1.85
3.00	1.03	1.39	1.62	1.85	1.95
3.50	1.36	1.77	2.11	2.46	2.80
4.00	1.56	2.00	2.42	2.77	3.16
4.50	1.86	2.32	2.77	3.21	3.68
5.00	2.20	2.68	3.57	4.09	4.59
5.50	2.22	2.96	3.75	4.31	4.78
6.00	2.55	3.35	4.01	4.78	5.23
7.00	2.90	3.91	4.60	5.17	6.00



Fig. F-80

Produce finest breakup possible with direct pressure only. Capacities above are on water. "Nozzle No." is capacity on 34 second Saybolt viscosity oil at 100 lb pressure. Larger sizes up to 60.00 gph and smaller sizes down to 0.60 gph.

Furnished of all Brass for Water—Stainless Steel tip and disc for Oil. Standard with 1/2 in. or 1/4 in. female pipe Brass adapter and Monel gauze strainer.

SPRAY POND NOZZLES

For recooling condenser water, etc. Operate on pressures from 5 lb upward. Made of Cast Red Brass and in pipe sizes 1 in., 1 1/2 in., 2 in., and 2 1/2 in. Capacities from 4.1 to 88 gpm at 7 lb pressure.



Fig. B-3

Write for Detailed Catalogs