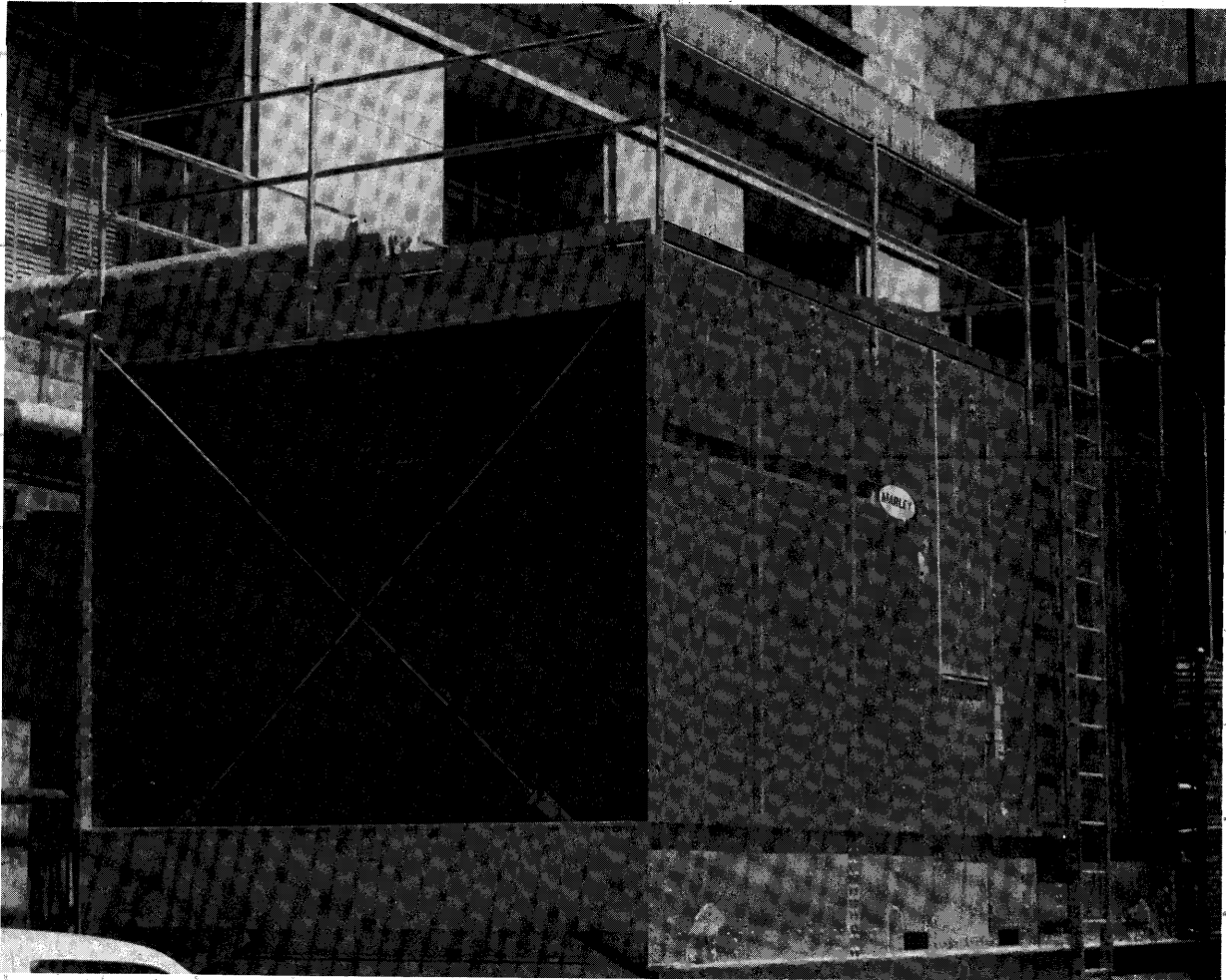


Model #: NC6012SM
Serial #: 044691-001-93

Size: 488 Ton
Year: 1993

Series NC[®]



L: 11' 11" W: 19' 2" H: 13'

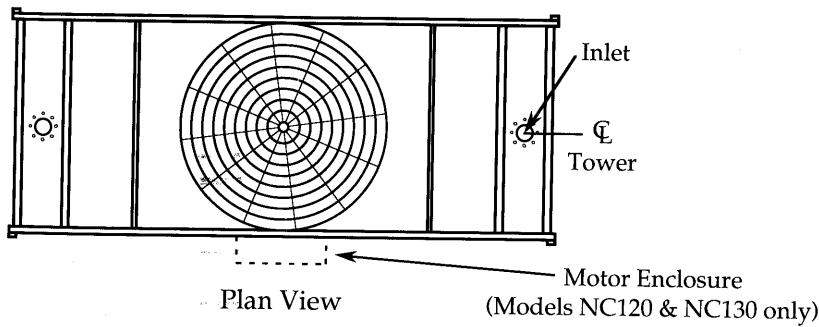
Shipping Weight: 9,930 lbs.
Operating Weight: 24,600 lbs.

**Factory
Mutual
System**

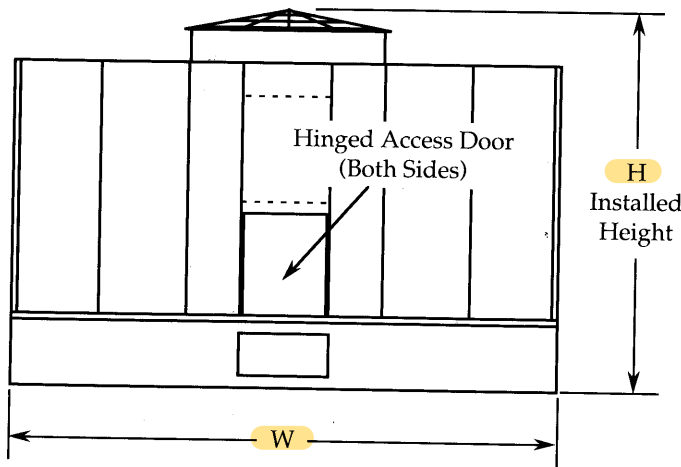
Approval Available



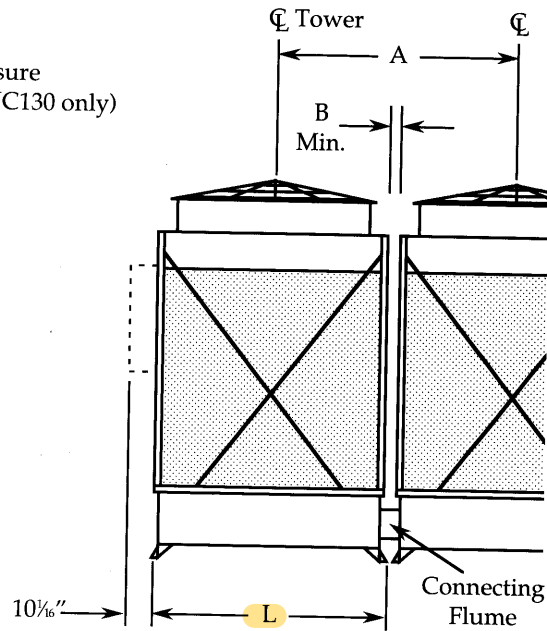
*Heavy Duty Cooling Towers
for HVAC and Industrial Service*



Note: Models NC120 & NC130 require special spacing for 3 or more cells



Casing Side Elevation



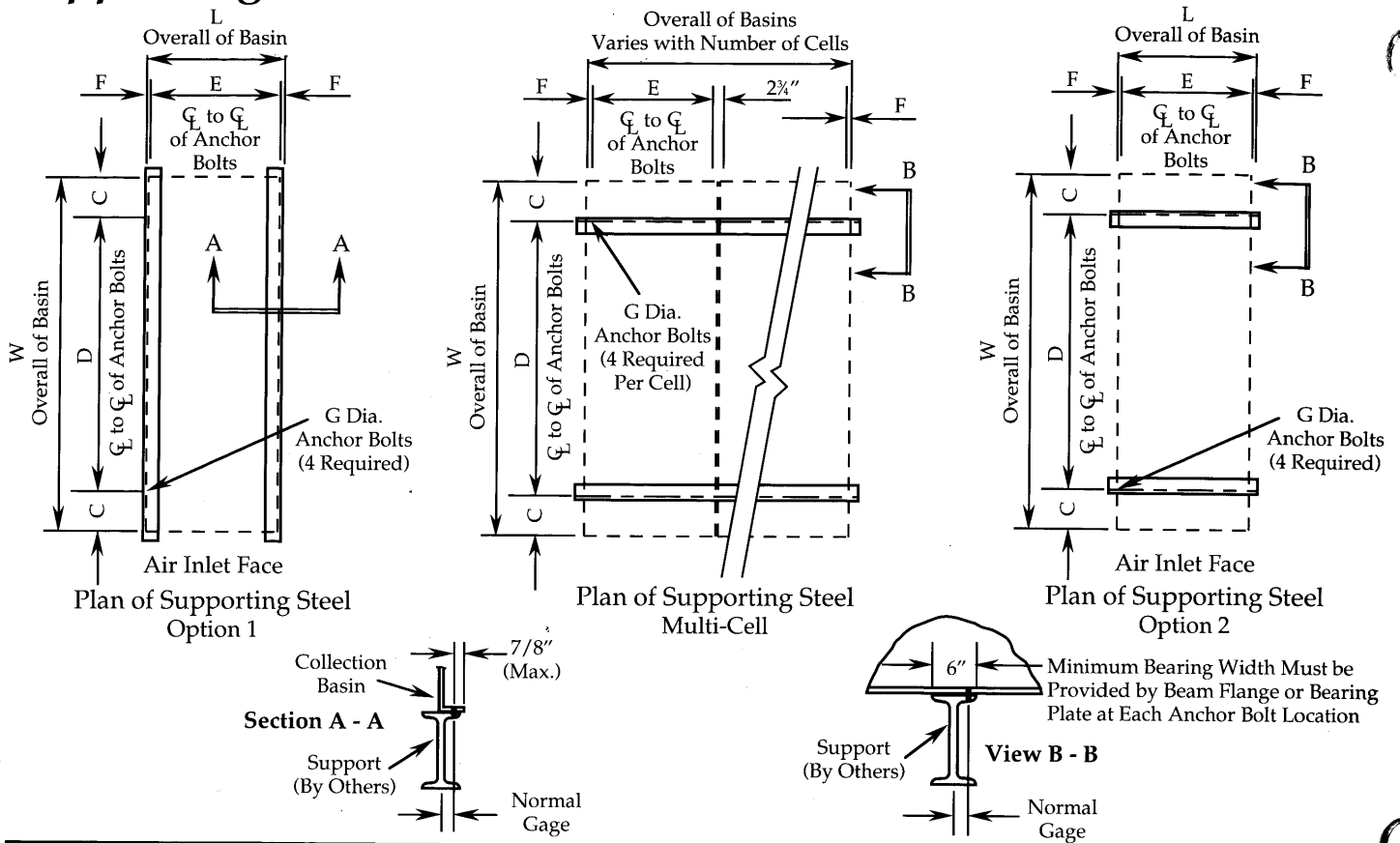
Air Inlet Side Elevation

Tower Model	Nominal Tons (1)	Dimensions					Shipping Weight (lbs.)	Motor HP	Nominal Airflow (CFM)	Inlet Connections
		W	L	H	A	B				
NC101	153	17'-1 1/4"	6'-4 1/2"	10'-1 1/2"	6'-5 1/2"	0'-1"	5045	5	42,050	2 @ 6"
NC111	175	17'-1 1/4"	6'-4 1/2"	10'-1 1/2"	6'-5 1/2"	0'-1"	5100	7.5	48,750	2 @ 6"
NC121	184	17'-1 1/4"	6'-4 1/2"	10'-1 1/2"	6'-5 1/2"	0'-1"	5265	10	51,700	2 @ 6"
NC131	212	17'-1 1/4"	6'-4 1/2"	10'-1 1/2"	6'-5 1/2"	0'-1"	5345	15	60,500	2 @ 6"
NC201	223	17'-1 1/4"	7'-10 1/2"	10'-2"	7'-11 1/2"	0'-1"	5960	10	62,400	2 @ 6"
NC211	257	17'-1 1/4"	7'-10 1/2"	10'-2"	7'-11 1/2"	0'-1"	6035	15	73,000	2 @ 6"
NC221	282	17'-1 1/4"	7'-10 1/2"	10'-2"	7'-11 1/2"	0'-1"	6110	20	80,800	2 @ 6"
NC301	299	19'-1 1/4"	7'-10 1/2"	12'-11 1/4"	7'-11 1/2"	0'-1"	7080	15	80,350	2 @ 8"
NC311	326	19'-1 1/4"	7'-10 1/2"	12'-11 1/4"	7'-11 1/2"	0'-1"	7145	20	88,500	2 @ 8"
NC401	333	19'-1 1/4"	8'-10 1/2"	12'-11 1/4"	8'-11 1/2"	0'-1"	7940	15	89,400	2 @ 8"
NC411	379	19'-1 1/4"	8'-10 1/2"	12'-11 1/4"	8'-11 1/2"	0'-1"	8000	20	102,950	2 @ 8"
NC421	412	19'-1 1/4"	8'-10 1/2"	12'-11 1/4"	8'-11 1/2"	0'-1"	8050	25	112,800	2 @ 8"
NC501	414	19'-1 1/4"	10'-10 1/2"	12'-11 1/4"	10'-11 1/2"	0'-1"	9155	20	111,150	2 @ 8"
NC511	451	19'-1 1/4"	10'-10 1/2"	12'-11 1/4"	10'-11 1/2"	0'-1"	9205	25	122,200	2 @ 8"
NC521	470	19'-1 1/4"	10'-10 1/2"	12'-11 1/4"	10'-11 1/2"	0'-1"	9280	30	127,800	2 @ 8"
NC531	523	19'-1 1/4"	10'-10 1/2"	12'-11 1/4"	10'-11 1/2"	0'-1"	9585	40	143,650	2 @ 8"
NC601	488	19'-1 1/4"	11'-10 1/2"	12'-11 1/4"	11'-11 1/2"	0'-1"	9930	25	132,000	2 @ 8"
NC611	513	19'-1 1/4"	11'-10 1/2"	12'-11 1/4"	11'-11 1/2"	0'-1"	10,005	30	139,450	2 @ 8"
NC621	562	19'-1 1/4"	11'-10 1/2"	12'-11 1/4"	11'-11 1/2"	0'-1"	10,150	40	154,050	2 @ 8"
NC631	607	19'-1 1/4"	11'-10 1/2"	12'-11 1/4"	11'-11 1/2"	0'-1"	10,215	50	167,550	2 @ 8"
NC701	572	23'-10"	11'-11"	12'-11 1/4"	11'-11 1/2"	0'-1/2"	12,160	30	142,150	2 @ 8"
NC711	626	23'-10"	11'-11"	12'-11 1/4"	11'-11 1/2"	0'-1/2"	12,310	40	156,050	2 @ 8"
NC721	671	23'-10"	11'-11"	12'-11 1/4"	11'-11 1/2"	0'-1/2"	12,375	50	167,550	2 @ 8"

Table Notes

- Nominal tons are based upon 95°F HW, 85°F CW, 78°F WB and 3 GPM/ton.
- All table data is per cell.
- Last digit of model number indicates number of cells. Change as appropriate for your selection.
- Standard overflow is 4" dia. standpipe inside basin. Standpipe removes for flush-out and drain. See pages 20 & 21 for details & options.
- Outlet sizes vary according to GPM and arrangement. See pages 20 & 21 for outlet sizes and details.
- Make-up connection may be 1" or 2" dia., depending upon tower heat load, water pressure, and desired connections. See page 20.

Supporting Steel



Tower Model	Dimensions							Maximum Operating Wt./Cell (lbs.)	Maximum Operating Load at Anchor (lbs.)	Wind Loads (lbs.)	
	W	L	C	D	E	F	G			Max. Vert. Reaction at Anchor	Max. Horiz. Reaction at Anchor
NC101	17'-1 1/4"	6'-4 1/2"	1'-11 1/16"	13'-2 1/2"	6'-2 1/4"	7/8"	1/2"	11,720	2930	1680	1150
NC111	17'-1 1/4"	6'-4 1/2"	1'-11 1/16"	13'-2 1/2"	6'-2 1/4"	7/8"	1/2"	11,780	2945	1680	1150
NC121	17'-1 1/4"	6'-4 1/2"	1'-11 1/16"	13'-2 1/2"	6'-2 1/4"	7/8"	1/2"	11,940	2985	1680	1150
NC131	17'-1 1/4"	6'-4 1/2"	1'-11 1/16"	13'-2 1/2"	6'-2 1/4"	7/8"	1/2"	12,020	3005	1680	1150
NC201	17'-1 1/4"	7'-10 1/2"	1'-11 1/16"	13'-2 1/2"	7'-8 3/4"	7/8"	1/2"	14,320	3580	1680	1150
NC211	17'-1 1/4"	7'-10 1/2"	1'-11 1/16"	13'-2 1/2"	7'-8 3/4"	7/8"	1/2"	14,380	3595	1680	1150
NC221	17'-1 1/4"	7'-10 1/2"	1'-11 1/16"	13'-2 1/2"	7'-8 3/4"	7/8"	1/2"	14,460	3615	1680	1150
NC301	19'-1 1/4"	7'-10 1/2"	1'-8 1/2"	15'-8 3/4"	7'-8 3/4"	7/8"	1/2"	16,340	4085	2580	1685
NC311	19'-1 1/4"	7'-10 1/2"	1'-8 1/2"	15'-8 3/4"	7'-8 3/4"	7/8"	1/2"	16,400	4100	2580	1685
NC401	19'-1 1/4"	8'-10 1/2"	1'-8 1/2"	15'-8 3/4"	8'-8 3/4"	7/8"	1/2"	18,420	4605	2580	1685
NC411	19'-1 1/4"	8'-10 1/2"	1'-8 1/2"	15'-8 3/4"	8'-8 3/4"	7/8"	1/2"	18,480	4620	2580	1685
NC421	19'-1 1/4"	8'-10 1/2"	1'-8 1/2"	15'-8 3/4"	8'-8 3/4"	7/8"	1/2"	18,540	4635	2580	1685
NC501	19'-1 1/4"	10'-10 1/2"	1'-8 1/2"	15'-8 3/4"	10'-8 3/4"	7/8"	1/2"	22,100	5525	2580	1685
NC511	19'-1 1/4"	10'-10 1/2"	1'-8 1/2"	15'-8 3/4"	10'-8 3/4"	7/8"	1/2"	22,160	5540	2580	1685
NC521	19'-1 1/4"	10'-10 1/2"	1'-8 1/2"	15'-8 3/4"	10'-8 3/4"	7/8"	1/2"	22,240	5560	2580	1685
NC531	19'-1 1/4"	10'-10 1/2"	1'-8 1/2"	15'-8 3/4"	10'-8 3/4"	7/8"	1/2"	22,540	5635	2580	1685
NC601	19'-1 1/4"	11'-10 1/2"	1'-8 1/2"	15'-8 3/4"	11'-8 3/4"	7/8"	1/2"	24,600	6150	2580	1685
NC611	19'-1 1/4"	11'-10 1/2"	1'-8 1/2"	15'-8 3/4"	11'-8 3/4"	7/8"	1/2"	24,680	6170	2580	1685
NC621	19'-1 1/4"	11'-10 1/2"	1'-8 1/2"	15'-8 3/4"	11'-8 3/4"	7/8"	1/2"	24,820	6205	2580	1685
NC631	19'-1 1/4"	11'-10 1/2"	1'-8 1/2"	15'-8 3/4"	11'-8 3/4"	7/8"	1/2"	24,880	6220	2580	1685
NC701	23'-10	11'-11	1'-8	20'-6	11'-8 3/4"	1-1/8"	5/8"	34,180	8545	2580	1685
NC711	23'-10	11'-11	1'-8	20'-6	11'-8 3/4"	1-1/8"	5/8"	34,340	8585	2580	1685
NC721	23'-10	11'-11	1'-8	20'-6	11'-8 3/4"	1-1/8"	5/8"	34,400	8600	2580	1685

Table Notes

- Use this bulletin for preliminary layouts only. Obtain current drawings from your Marley application engineer for final design.
- Purchaser to provide tower supports complete with holes for anchor bolts furnished by others. Anchor points must be framed flush and level at top.
- Maximum operating weight occurs with basin full to overflow level. Actual operating weight varies with GPM and piping scheme, but is usually less than shown here.
- Wind loads are based on 30 psf and are additive to operating loads. Reactions due to wind loads exceed those resulting from seismic loads based on UBC, Zone 4.
- You may support the tower on a flat concrete slab if you specify side outlet and optional side drain and overflow. See pages 20 & 21 and consult your Marley application engineer.