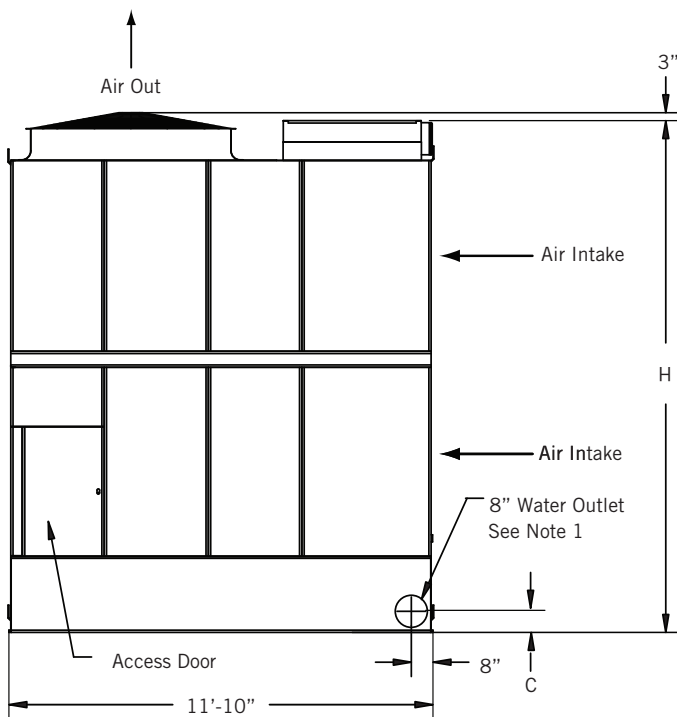


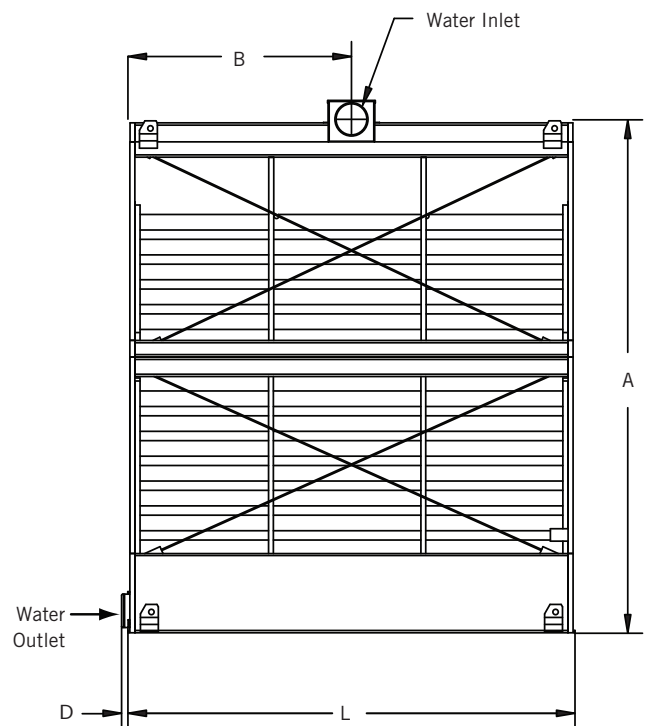
# Series 1500 Engineering Data



**NOTE: Do not use for construction.** Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase. Up-to-date engineering data, free product selection software, and more can be found at [www.BaltimoreAircoil.com](http://www.BaltimoreAircoil.com).



End Elevation: Single Cell Unit



Side Elevation: Single Cell Unit



## NOTES:

1. The specific size of the inlet and outlet connection may vary with the cooling water design flow rate. Consult unit print for dimensions.

2. 9" for units with Whisper Quiet Fans.



## SINGLE CELL UNIT

Model Number	Nominal Tonnage <sup>(1)</sup>	Motor HP	Ind. Fan Motor Option	Fan (CFM)	Weights (lbs)			Dimensions						Inlet Conn. <sup>(4)</sup>
					Operating <sup>(2)</sup>	Shipping	Heaviest Section <sup>(3)</sup>	L	H	A	B	C	D	
15146	146	7.5	—	40,320	7,920	3,940	3,940	8'-6"	10'-3"	9'-9"	4'-3"	7"	1/4"	6"
15160	160	10	—	44,190	7,940	3,960	3,960							
15176	176	15	—	43,080	7,990	4,010	4,010							
15162	162	7.5	—	48,160	8,610	4,200	4,200	8'-6"	11'-7"	11'-1"	4'-3"	7"	1/4"	6"
15177	177	10	—	47,070	8,630	4,220	4,220							
15201	201	15	—	58,240	8,690	4,280	4,280							
15219	219	20	—	59,380	8,710	4,300	4,300	8'-6"	14'-4"	13'-10"	4'-3"	7"	1/4"	6"
15200	200	10	—	53,450	11,430	5,350	2,770							
15227	227	15	—	65,400	11,490	5,410	2,780							
15250	250	20	—	64,810	11,510	5,430	2,800	8'-6"	15'-8"	15'-2"	4'-3"	7"	1/4"	6"
15214	214	10	—	52,320	12,450	5,640	2,920							
15245	245	15	—	56,610	12,510	5,700	2,920							
15270	270	20	—	71,420	12,530	5,720	2,920	8'-6"	15'-8"	15'-2"	4'-3"	7"	1/4"	6"
15282	282	25	—	74,600	12,610	5,800	2,920							
15296	296	15	(2) 7.5	77,440	15,540	6,750	3,540							
15325	325	20	(2) 15	91,560	15,590	6,800	3,590	12'-2"	14'-4"	13'-10"	6'-1"	8"	2 1/8"	8"
15350	350	25	(2) 7.5	82,000	15,640	6,850	3,640							
15368	368	30	(2) 15	96,550	15,660	6,870	3,660							
15310	310	15	(2) 10	85,030	17,050	7,070	3,540	12'-2"	15'-8"	15'-2"	6'-1"	8"	2 1/8"	8"
15340	340	20	(2) 15	96,280	17,100	7,120	3,590							
15365	365	25	(2) 10	89,940	17,150	7,170	3,640							
15385	387	30	(2) 15	101,840	17,180	7,200	3,670							
15425	428	40	(2) 20	112,430	17,450	7,470	3,940							



### NOTES:

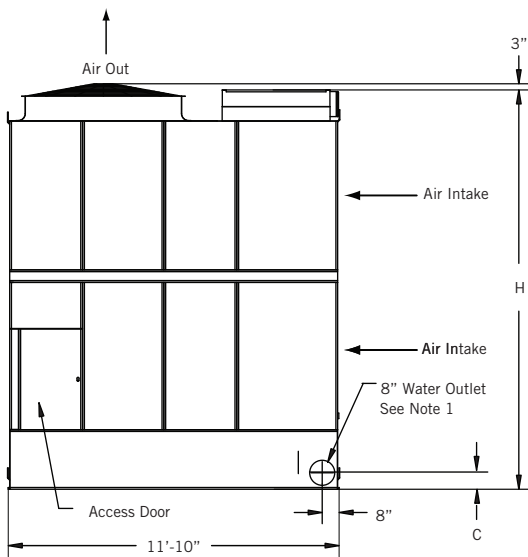
- Nominal tons of cooling represents 3 water of water cooled from 95°F to 85°F at a 78°F entering wet-bulb temperature.
- Operating weight is for the tower with water level in the cold water basin at overflow. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.
- The heaviest section for all models except 15214 through 15282 is the upper section. Models 15146 to 15219 ship in one piece.
- Unless otherwise indicated, all connections 3" and smaller are MPT. Connections 4" and larger are beveled for welding and mechanically grooved.

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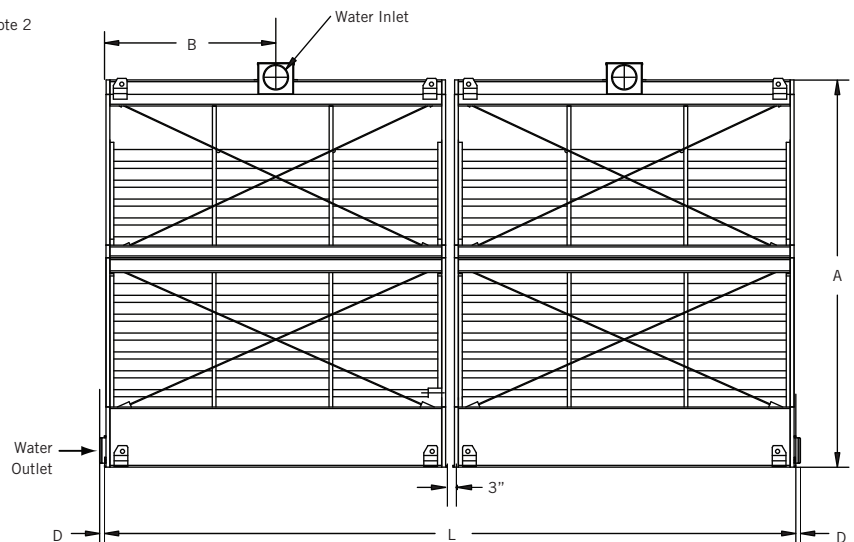
# Series 1500 Engineering Data



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End Elevation: Double Cell Unit



Side Elevation: Double Cell Unit



## NOTES:

1. The specific size of the inlet and outlet connection may vary with the cooling water design flow rate. Consult unit print for dimensions.

2. 9" for units with Whisper Quiet Fans.



## DOUBLE CELL UNIT

Model Number	Nominal Tonnage <sup>(1)</sup>	Motor HP	Ind. Fan Motor Option	Fan (CFM)	Weights (lbs)			Dimensions						
					Operating <sup>(2)</sup>	Shipping	Heaviest Section <sup>(3)</sup>	L	H	A	B	C	D	Inlet Conn. <sup>(4)</sup>
15146-2	292	(2) 7.5	—	80,640	15,840	7,880	3,940	17'-2"	10'-3"	9'-9"	4'-3"	7"	1/4"	6"
15160-2	320	(2) 10	—	88,380	15,880	7,920	3,960							
15176-2	352	(2) 15	—	86,160	15,980	8,020	4,010							
15162-2	324	(2) 7.5	—	96,320	17,220	8,400	4,200	17'-2"	11'-7"	11'-1"	4'-3"	7"	1/4"	6"
15177-2	354	(2) 10	—	94,140	17,260	8,440	4,220							
15201-2	402	(2) 15	—	116,480	17,380	8,560	4,280							
15219-2	438	(2) 20	—	118,760	17,420	8,600	4,300							
15200-2	400	(2) 10	—	106,900	22,860	10,700	2,770	17'-2"	14'-4"	13'-10"	4'-3"	7"	1/4"	6"
15227-2	454	(2) 15	—	130,800	22,980	10,820	2,780							
15250-2	500	(2) 20	—	129,620	23,020	10,860	2,800							
15214-2	428	(2) 10	—	104,640	24,900	11,280	2,920	17'-2"	15'-8"	15'-2"	4'-3"	7"	1/4"	6"
15245-2	490	(2) 15	—	113,220	25,020	11,400	2,920							
15270-2	540	(2) 20	—	142,840	25,060	11,440	2,920							
15282-2	564	(2) 25	—	149,200	25,220	11,600	2,920							
15296-2	592	(2) 15	(4) 7.5	154,880	31,080	13,500	3,540	24'-5"	14'-4"	13'-10"	6'-1"	8"	2 1/8"	8"
15325-2	650	(2) 20	(4) 15	183,120	31,180	13,600	3,590							
15350-2	700	(2) 25	(4) 7.5	164,000	31,280	13,700	3,640							
15368-2	736	(2) 30	(4) 15	193,100	31,320	13,740	3,660							
15310-2	620	(2) 15	(4) 10	170,060	34,100	14,140	3,540	24'-5"	15'-8"	15'-2"	6'-1"	8"	2 1/8"	8"
15340-2	680	(2) 20	(4) 15	192,560	34,200	14,240	3,590							
15365-2	730	(2) 25	(4) 10	179,880	34,300	14,340	3,640							
15385-2	774	(2) 30	(4) 15	203,680	34,360	14,400	3,670							
15425-2	856	(2) 40	(4) 20	224,860	34,900	14,940	3,940							



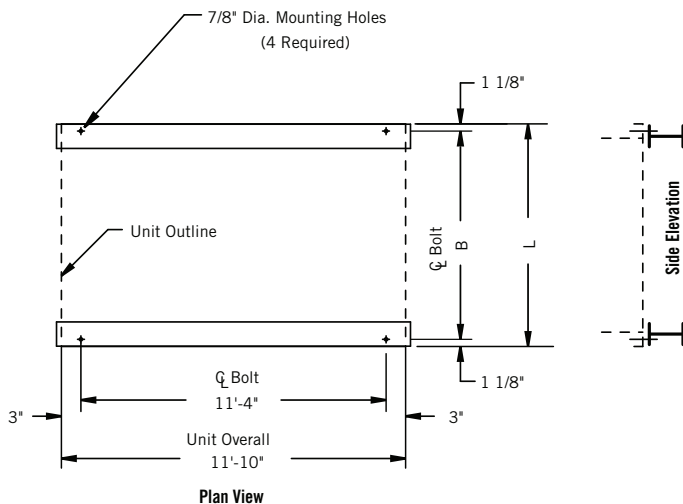
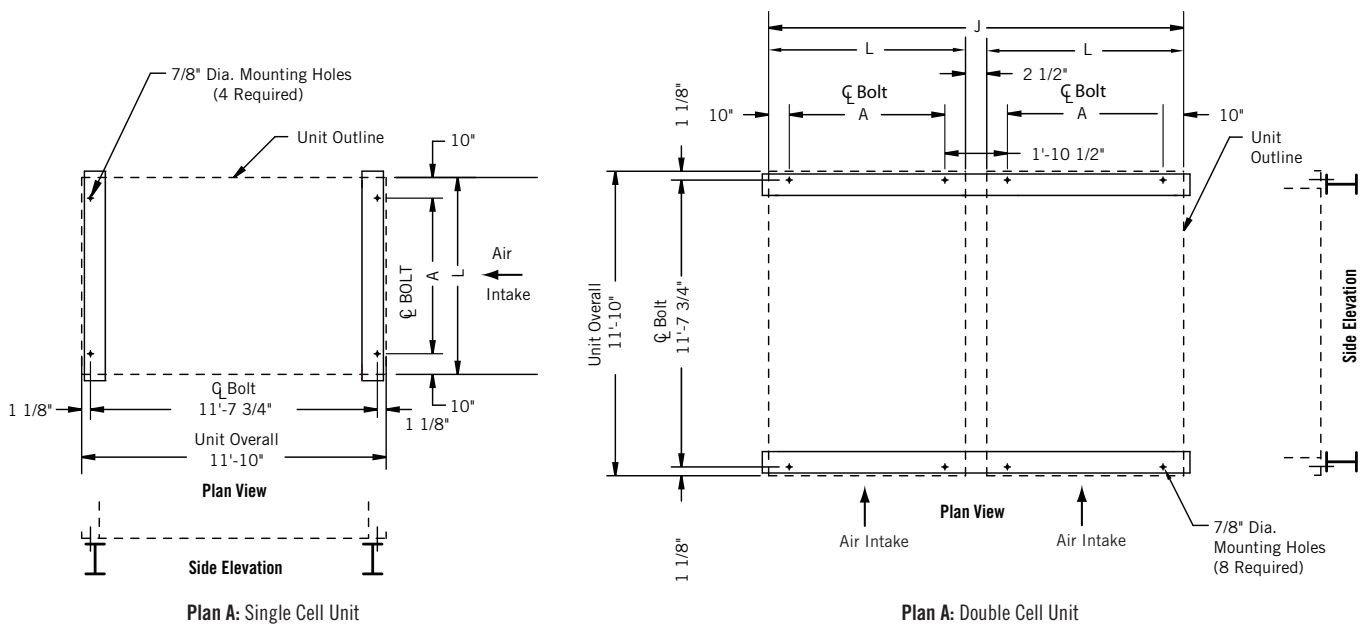
### NOTES:

- Nominal tons of cooling represents 3 USGPM of water cooled from 95°F to 85°F at a 78°F entering wet-bulb temperature.
- Operating weight is for the tower with water level in the cold water basin at overflow. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.
- The heaviest section for all models except 15214 through 15282 is the upper section. Models 15146 to 15219 ship in one piece.
- Unless otherwise indicated, all connections 3" and smaller are MPT. Connections 4" and larger are beveled for welding and mechanically grooved.

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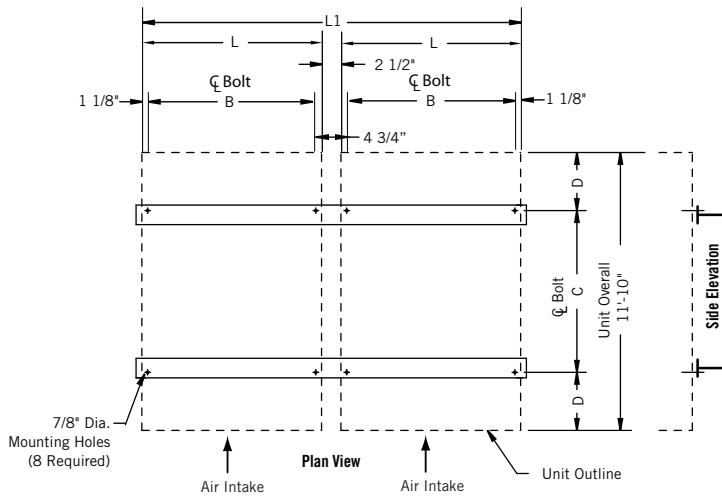
# Series 1500 Structural Support

The recommended support arrangement for the Series 1500 Cooling Tower consists of parallel I-beams positioned as shown in the following drawings. Besides providing adequate support, the steel also serves to raise the unit above any solid foundation to ensure access to the bottom of the tower. The Series 1500 may also be supported on columns at the anchor bolt locations shown in Plan A/C or Plan B. A minimum 12"x12" bearing surface must be provided under each of the concentrated load points. To support a Series 1500 Cooling Tower on columns or in an alternate steel support arrangement, consult your local BAC Representative.

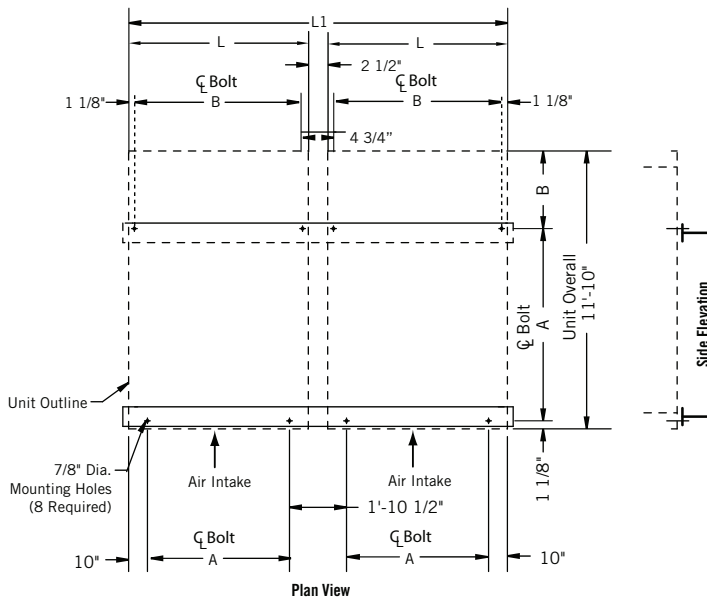


## STRUCTURAL SUPPORT

Model Number	A	B	L	L1
15146 to 15282	6'-9 3/4"	8'-3 1/2"	8'-5 3/4"	17'-2"
15296 to 15425	10'-5 1/4"	11'-11"	12'-1 1/4"	24'-5"



**Plan C: Cantilever Inlet and Blank-Off**  
(Double Cell Unit Shown)



**Plan C: Cantilever Blank-Off Only**  
(Double Cell Unit Shown)



**NOTES:**

1. Support beams and anchor bolts are to be selected and installed by others.
2. All supporting steel must be level at the top.
3. Beams must be selected in accordance with accepted structural practice. Maximum deflection of beam under unit to be 1/360 of span, not to exceed 1/2 inch.
4. If point vibrations isolation (provided by others) is used with multi-cell towers, the isolators must be located under the supporting steel, not between the support steel and the cooling towers.
5. When using Alternative Plan C support arrangements with optional bottom water outlet, size and location restrictions will apply to water outlet piping. Consider the Cantilevered Plan C support arrangement or consult your local BAC Representative for details.

**RECOMMENDED ALTERNATIVE STEEL SUPPORT FOR UNIT REPLACEMENT (PLAN C)**

Model Number	Unit Replaced	A	B	C	D	E	L	L1
15146 to 15282	VLT/VST	6'-9 3/4"	8'-3 1/2"	8'-9 1/8"	1'-6 7/16"	2'-11 3/4"	8'-5 3/4"	17'-2"
	CFT/Series 3000	6'-9 3/4"	8'-3 1/2"	8'-0"	1'-11"	3'-8 7/8"	8'-5 3/4"	17'-2"
15296 to 15425	VLT/VST/VXT	10'-5 1/4"	11'-11"	8' 11 1/4"	1'-5 3/8"	2'-9 5/8"	12'-1 1/4"	24'-5"
	VXT/VXMT	10'-5 1/4"	11'-11"	9'-7 1/2"	1'-1 1/4"	2'-1 3/8"	12'-1 1/4"	24'-5"
	CFT	10'-5 1/4"	11'-11"	8'-0"	1'-11"	3'-8 7/8"	12'-1 1/4"	24'-5"
	Series 30000	10'-5 1/4"	11'-11"	9'-6"	1'-2"	2'-2 7/8"	12'-1 1/4"	24'-5"