

**Paharpur Cooling Towers Ltd.  
CF3 Series Line of CTI Certified  
Cooling Towers CTI Certification  
Validation Number C51A-13R1  
May 19, 2014 (Revision 1)**

31441	3167S/10HP	3188S/10HP
31442	3167S/15HP	3188S/15HP
31443	3167S/20HP	3188S/20HP
	31671	3188S/25HP
3145S/7.5HP	31672	3188S/30HP
31451	31673	31881
31452		31882
31453	3177S/10HP	31883
	3177S/15HP	
3155S/10HP	3177S/20HP	3189S/10HP
31551	3177S/25HP	3189S/15HP
31552	31771	3189S/20HP
31553	31772	3189S/25HP
	31773	3189S/30HP
3156S/10HP		31891
3156S/15HP	3178S/10HP	31892
31561	3178S/15HP	31893
31562	3178S/20HP	
31563	3178S/25HP	3199S/10HP
	31781	3199S/15HP
3166S/10HP	31782	3199S/20HP
3166S/15HP	31783	3199S/25HP
3166S/20HP		3199S/30HP
31661		31991
31662		31992
31663		31993

**See Footnotes, Next Page**

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**Footnotes for C51A-13R1 Model List**

1. Standard materials of construction are FRP for casing, collection basin, fan deck, fan cylinder and structure; and, aluminum fan blades. Stainless steel structure materials, FRP fan blades and alternate component materials and coatings are also available without capacity changes.
2. Models are available with or without FRP cold water basin. The suffix (TB) added to the model numbers above indicates standard towers with integral FRP basins while the suffix (TO) added to the model numbers above indicates towers with basins supplied by others.
3. Multi-cell models of the single cell models listed above are also available. These models are designated by adding a prefix 'X', where X is the number of cells. For example, 2-31561 indicates two 31561 cells in a continuous twin-cell configuration. Multi-cell models are also available with enlarged (double height) inlet air openings designed to offset the performance derating when the number of inlet air openings is less than four. Towers with enlarged air openings are identified by a suffix D in the model number, for example 2-31993D or 2-3199SD/25HP

Multi-cell, standard inlet height, models require the following derating method:

For cells with three air entry sides, a 3% derating of the cell capacity will apply.

For cells with two air entry sides, a 5% derating of the cell capacity will apply.

For example, if a model has a capacity of 100 tower units, its two-cell version will have a capacity of  $(97 + 97) = 194$  tower units, its three-cell version will have a capacity of  $(97 + 95 + 97) = 289$  tower units, its four-cell version will have a capacity of  $(97 + 95 + 95 + 97) = 384$  tower units, etc.

4. Some applications may require special materials and coatings. This will not affect the tower capacity.