

COOLING TECHNOLOGY INSTITUTE

P. O. Box 681807, Houston, Texas 77268 • 3845 Cypress Creek Parkway, Ste 420, Houston, Texas 77068 Phone: 281.583.4087 • Fax: 281.537.1721 • email: vmanser@ cti.org • http://www.cti.org

Advance Cooling Towers Pvt. Ltd. Advance 2020 – Series A Line of CTI Certified Cooling Towers CTI Certification Validation Number C31A-07R05 August 31, 2023 (Revision 5)

(Note: Number of Certified Cells Denoted by Prefix 1 through 6)A37-0.75A91-3.75A145-18.3A37-1.10A91-5.50A145-22.0A37-1.50A91-7.50A145-30.0A37-2.20A91-9.30A145-37.0A37-3.75A91-11.0A145-45.0A37-3.75A91-11.0A145-45.0A46-1.50A100-9.30A154-30.0A46-2.20A100-11.0A154-37.0A46-3.75A100-15.0A154-45.0A46-5.50A100-15.0A154-45.0A46-5.50A100-15.0A163-22.0A55-1.10A109-9.3A163-22.0A55-1.50A109-11.0A163-37.0A55-3.75A109-15.0A163-37.0A55-3.75A109-18.3A163-45.0A55-7.50A109-22.0A163-55.0A64-1.50A118-11.0A172-30.0A64-3.75A118-15.0A172-37.0A64-3.75A118-18.3A172-45.0A64-9.30A127-15.0A181-37.0A73-2.20A127-15.0A181-37.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A127-30.0A181-55.0A73-7.50A136-37.0A181-55.0A73-7.50A136-37.0A181-55.0A73-7.50A136	Group A Models (Standard AC Fan Type)		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(Note: Number of Certified Cells Denoted by Prefix 1 through 6)		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A37-0.75	A91-3.75	A145-18.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A37-1.10	A91-5.50	A145-22.0
A37-3.75A91-11.0 A91-15.0A145-45.0A46-1.10A100-7.50A154-22.0A46-1.50A100-9.30A154-30.0A46-2.20A100-11.0A154-37.0A46-3.75A100-15.0A154-45.0A46-5.50A100-18.3A163-22.0A55-1.10A109-9.3A163-22.0A55-1.50A109-11.0A163-30.0A55-2.20A109-15.0A163-37.0A55-3.75A109-18.3A163-45.0A55-5.50A109-22.0A163-55.0A64-1.50A118-11.0A172-30.0A64-3.75A118-15.0A172-37.0A64-3.75A118-18.3A172-45.0A64-5.50A118-22.0A172-55.0A64-9.30A127-15.0A181-37.0A73-2.20A127-15.0A181-37.0A73-7.50A127-30.0A181-75.0A73-9.30A127-37.0A181-55.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-7.50A136-30.0A190-75.0A82-7.50A136-37.0A190-75.0	A37-1.50	A91-7.50	A145-30.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A37-2.20	A91-9.30	A145-37.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A37-3.75	A91-11.0	A145-45.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		A91-15.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A46-1.10	A100-7.50	A154-22.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A46-1.50	A100-9.30	A154-30.0
A46-5.50A100-18.3A154-55.0A55-1.10A109-9.3A163-22.0A55-1.50A109-11.0A163-30.0A55-2.20A109-15.0A163-37.0A55-3.75A109-18.3A163-45.0A55-5.50A109-22.0A163-55.0A55-7.50A109-22.0A163-55.0A64-1.50A118-11.0A172-30.0A64-2.20A118-15.0A172-37.0A64-3.75A118-18.3A172-45.0A64-5.50A118-22.0A172-55.0A64-7.50A118-30.0A172-75.0A64-9.30A127-15.0A181-37.0A73-2.20A127-18.3A181-45.0A73-5.50A127-20.0A181-55.0A73-7.50A127-30.0A181-55.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-7.50A136-37.0A190-100.0	A46-2.20	A100-11.0	A154-37.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A46-3.75	A100-15.0	A154-45.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A46-5.50	A100-18.3	A154-55.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A55-1.10	A109-9.3	A163-22.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A55-1.50	A109-11.0	A163-30.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A55-2.20	A109-15.0	A163-37.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A55-3.75	A109-18.3	A163-45.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		A109-22.0	A163-55.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A55-7.50		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A64-1.50	A118-11.0	A172-30.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	A64-2.20	A118-15.0	A172-37.0
A64-7.50 A64-9.30A118-30.0A172-75.0A73-2.20 A73-3.75A127-15.0A181-37.0A73-3.75 A73-5.50A127-18.3A181-45.0A73-7.50 A73-7.50A127-22.0A181-55.0A73-9.30A127-30.0A181-75.0A73-9.30A127-37.0A181-100.0A82-2.20 A82-3.75A136-18.3 A136-22.0A190-45.0A82-5.50 A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A64-3.75	A118-18.3	A172-45.0
A64-9.30 A73-2.20 A127-15.0 A181-37.0 A73-3.75 A127-18.3 A181-45.0 A73-5.50 A127-22.0 A181-55.0 A73-7.50 A127-30.0 A181-75.0 A73-9.30 A127-37.0 A181-100.0 A82-2.20 A136-18.3 A190-45.0 A82-5.50 A136-22.0 A190-55.0 A82-5.50 A136-30.0 A190-75.0 A82-7.50 A136-37.0 A190-100.0			
A73-2.20A127-15.0A181-37.0A73-3.75A127-18.3A181-45.0A73-5.50A127-22.0A181-55.0A73-7.50A127-30.0A181-75.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A64-7.50	A118-30.0	A172-75.0
A73-3.75A127-18.3A181-45.0A73-5.50A127-22.0A181-55.0A73-7.50A127-30.0A181-75.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A64-9.30		
A73-5.50A127-22.0A181-55.0A73-7.50A127-30.0A181-75.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A73-2.20	A127-15.0	A181-37.0
A73-7.50A127-30.0A181-75.0A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0		A127-18.3	A181-45.0
A73-9.30A127-37.0A181-100.0A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A73-5.50	A127-22.0	A181-55.0
A82-2.20A136-18.3A190-45.0A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A73-7.50	A127-30.0	A181-75.0
A82-3.75A136-22.0A190-55.0A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0	A73-9.30	A127-37.0	A181-100.0
A82-5.50A136-30.0A190-75.0A82-7.50A136-37.0A190-100.0			
A82-7.50 A136-37.0 A190-100.0		A136-22.0	A190-55.0
		A136-30.0	A190-75.0
A 92 0 20 A 126 45 0 A 100 125 0			
	A82-9.30	A136-45.0	A190-135.0
A82-11.0	A82-11.0		

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Group B Models (EC Fan Type) (Note: Number of Certified Cells Denoted by Prefix 1 through 6) A37ECMEDIUM A37ECSTANDARD A82ECMEDIUM A82ECSTANDARD

A46ECLOW A46ECMEDIUM A46ECSTANDARD

A55ECLOW A55ECMEDIUM A55ECSTANDARD

A64ECLOW A64ECMEDIUM A64ECSTANDARD

A73ECLOW A73ECMEDIUM A73ECSTANDARD A100ECLOW A100ECMEDIUM A100ECSTANDARD

A91ECLOW

A91ECMEDIUM A91ECSTANDARD

A109ECLOW A109ECMEDIUM A109ECSTANDARD

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Footnotes:

- 1. Advance 2020 Series A towers for export and domestic sales are by Advance Cooling Towers Pvt. Ltd.
- 2. Multi-cell models comprised of a combination of up to six (6) primary single-cells (listed above) are included in the certification. See example model number below.
- 3. Certified models listed above are for standard construction materials with FRP (Fiberglass Reinforced Plastic) casing, basin/sump and fan deck; HDG (Hot Dipped Galvanized) steel structure; belt drive fan; and, 415 Volt/50 Hz/3 Phase fan motor. Certification includes a number of options below which are also available.
- 4. Certified models with optional stainless steel 304, 316 grade or pultruded FRP Structure have the following suffixes added to the basic numeric model designation:

SS4 – 304 Grade Stainless Steel Structure

SS6 – 316 Grade Stainless Steel Structure

PLT – Pultruded FRP Structure

5. Certified models without the FRP basin/sump have the following suffix added to the basic numeric model designation:

WOB - Without Basin/Sump

6. Certified models with optional direct drive or gear drive in place of standard belt drive fan have the following suffixes added to the basic numeric model designation:

FD – Direct Drive Fan FG – Gear Drive Fan

7. Certified models with optional fan motors suitable for 220, 380 or 460 Volt/60 Hz operation or flame proof motors have the following suffixes added to basic numeric model designation:

 $\mathrm{H}-60~\mathrm{Hz}$

MF – Motor Flame Proof

- 8. Certified models include use of optional external platform with railing/ladder for access.
- 9. Cooling Towers which include the suffix "X" added to the Model No's above (e.g. 1A37-0.75-X) are not covered under CTI Certification due to either application, product accessories or modifications.

Example Model Number, Group A: 3A73-5.50

where, 3 – prefix denoting number of certified cells (values 1 through 6)

A73 – line designation and model size code

 $5.50 - fan \ motor \ size$

Example Model Number, Group B: 3A73ECLOW

where, 3 – prefix denoting number of certified cells (values 1 through 6)

A73EC – line designation and model size code

LOW - EC fan motor speed/power code