



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

February 21, 2024
(Revision 6)

Liang Chi Industry Company, Ltd.
No. 1, Sec. 3, Nan King East Road
Taipei, Taiwan, R.O.C.

Subject: CTI Cooling Tower Certification
Liang Chi Industry Company, Ltd.
Series U-LC Line of Cross-flow, Induced-draft, Low-noise Cooling Towers

Greetings:

The Liang Chi Industry Company, Ltd. Series U-LC line of cross-flow, induced-draft, low-noise cooling towers, as described in your original application of April 9, 2010, and subsequent revisions through September 13, 2023, has satisfactorily fulfilled the requirements for certification of thermal performance by the Cooling Technology Institute (CTI), as set forth in the CTI Certification Standard STD-201(21). A listing of the two-hundred-ninety-two (292) primary, single-cell models included in the CTI Certified U-LC line is attached for reference.

The Liang Chi Series U-LC cooling towers has been assigned and should begin to use CTI Certification Validation Number C20D-10R06 (originally 10-20-04) and you are hereby authorized and encouraged to display the CTI Certification Logo in all pertinent literature and are required to affix the CTI Certification Label on all towers comprising the line, as provided in the CTI STD-201 Certification Standard.

This CTI Certification requires the successful completion of a CTI Annual Reverification Test to remain in effect in subsequent years.

Very truly yours,

Michael G. Womack, PE
CTI Thermal Certification Administrator



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CTI Certification Validation Number C20D-10R06
February 21, 2024 (Revision 6)

U-LC-1010C	U-LC-1017C	U-LC-1022C
U-LC-1010C-P-2W	U-LC-1017C-P-2W	U-LC-1022C-P-2W
U-LC-1010C-P-4W	U-LC-1017C-P-4W	U-LC-1022C-P-4W
U-LC-1010C-P-7W	U-LC-1017C-P-7W	U-LC-1022C-P-7W
U-LC-1012C	U-LC-1017D	U-LC-1022D
U-LC-1012C-P-2W	U-LC-1017D-P-2W	U-LC-1022D-P-2W
U-LC-1012C-P-4W	U-LC-1017D-P-4W	U-LC-1022D-P-4W
U-LC-1012C-P-7W	U-LC-1017D-P-7W	U-LC-1022D-P-7W
U-LC-1012D	U-LC-1017E	U-LC-1022E
U-LC-1012D-P-2W	U-LC-1017E-P-2W	U-LC-1022E-P-2W
U-LC-1012D-P-4W	U-LC-1017E-P-4W	U-LC-1022E-P-4W
U-LC-1012D-P-7W	U-LC-1017E-P-7W	U-LC-1022E-P-7W
U-LC-1015B	U-LC-1020B	U-LC-1025B
U-LC-1015B-P-2W	U-LC-1020B-P-2W	U-LC-1025B-P-2W
U-LC-1015B-P-4W	U-LC-1020B-P-4W	U-LC-1025B-P-4W
U-LC-1015B-P-7W	U-LC-1020B-P-7W	U-LC-1025B-P-7W
U-LC-1015C	U-LC-1020C	U-LC-1025C
U-LC-1015C-P-2W	U-LC-1020C-P-2W	U-LC-1025C-P-2W
U-LC-1015C-P-4W	U-LC-1020C-P-4W	U-LC-1025C-P-4W
U-LC-1015C-P-7W	U-LC-1020C-P-7W	U-LC-1025C-P-7W
U-LC-1015D	U-LC-1020D	U-LC-1025D
U-LC-1015D-P-2W	U-LC-1020D-P-2W	U-LC-1025D-P-2W
U-LC-1015D-P-4W	U-LC-1020D-P-4W	U-LC-1025D-P-4W
U-LC-1015D-P-7W	U-LC-1020D-P-7W	U-LC-1025D-P-7W
U-LC-1015E	U-LC-1020E	U-LC-1025E
U-LC-1015E-P-2W	U-LC-1020E-P-2W	U-LC-1025E-P-2W
U-LC-1015E-P-4W	U-LC-1020E-P-4W	U-LC-1025E-P-4W
U-LC-1015E-P-7W	U-LC-1020E-P-7W	U-LC-1025E-P-7W
U-LC-1017B	U-LC-1022B	U-LC-1030A
U-LC-1017B-P-2W	U-LC-1022B-P-2W	U-LC-1030A-P-2W
U-LC-1017B-P-4W	U-LC-1022B-P-4W	U-LC-1030A-P-4W
U-LC-1017B-P-7W	U-LC-1022B-P-7W	U-LC-1030A-P-7W

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- | | | |
|-----------------|-----------------|-----------------|
| U-LC-1030B | U-LC-1035E | U-LC-1045C |
| U-LC-1030B-P-2W | U-LC-1035E-P-2W | U-LC-1045C-P-2W |
| U-LC-1030B-P-4W | U-LC-1035E-P-4W | U-LC-1045C-P-4W |
| U-LC-1030B-P-7W | U-LC-1035E-P-7W | U-LC-1045C-P-7W |
| U-LC-1030C | U-LC-1040A | U-LC-1045D |
| U-LC-1030C-P-2W | U-LC-1040A-P-2W | U-LC-1045D-P-2W |
| U-LC-1030C-P-4W | U-LC-1040A-P-4W | U-LC-1045D-P-4W |
| U-LC-1030C-P-7W | U-LC-1040A-P-7W | U-LC-1045D-P-7W |
| U-LC-1030D | U-LC-1040B | U-LC-1045E |
| U-LC-1030D-P-2W | U-LC-1040B-P-2W | U-LC-1045E-P-2W |
| U-LC-1030D-P-4W | U-LC-1040B-P-4W | U-LC-1045E-P-4W |
| U-LC-1030D-P-7W | U-LC-1040B-P-7W | U-LC-1045E-P-7W |
| U-LC-1030E | U-LC-1040C | U-LC-1050A |
| U-LC-1030E-P-2W | U-LC-1040C-P-2W | U-LC-1050A-P-2W |
| U-LC-1030E-P-4W | U-LC-1040C-P-4W | U-LC-1050A-P-4W |
| U-LC-1030E-P-7W | U-LC-1040C-P-7W | U-LC-1050A-P-7W |
| U-LC-1035A | U-LC-1040D | U-LC-1050B |
| U-LC-1035A-P-2W | U-LC-1040D-P-2W | U-LC-1050B-P-2W |
| U-LC-1035A-P-4W | U-LC-1040D-P-4W | U-LC-1050B-P-4W |
| U-LC-1035A-P-7W | U-LC-1040D-P-7W | U-LC-1050B-P-7W |
| U-LC-1035B | U-LC-1040E | U-LC-1050C |
| U-LC-1035B-P-2W | U-LC-1040E-P-2W | U-LC-1050C-P-2W |
| U-LC-1035B-P-4W | U-LC-1040E-P-4W | U-LC-1050C-P-4W |
| U-LC-1035B-P-7W | U-LC-1040E-P-7W | U-LC-1050C-P-7W |
| U-LC-1035C | U-LC-1045A | U-LC-1050D |
| U-LC-1035C-P-2W | U-LC-1045A-P-2W | U-LC-1050D-P-2W |
| U-LC-1035C-P-4W | U-LC-1045A-P-4W | U-LC-1050D-P-4W |
| U-LC-1035C-P-7W | U-LC-1045A-P-7W | U-LC-1050D-P-7W |
| U-LC-1035D | U-LC-1045B | U-LC-1050E |
| U-LC-1035D-P-2W | U-LC-1045B-P-2W | U-LC-1050E-P-2W |
| U-LC-1035D-P-4W | U-LC-1045B-P-4W | U-LC-1050E-P-4W |
| U-LC-1035D-P-7W | U-LC-1045B-P-7W | U-LC-1050E-P-7W |

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U-LC-1060A	U-LC-1070D	U-LC-1090B	U-LC-1100E
U-LC-1060A-P-2W	U-LC-1070D-P-2W	U-LC-1090B-P-2W	U-LC-1100E-P-2W
U-LC-1060A-P-4W	U-LC-1070D-P-4W	U-LC-1090B-P-4W	U-LC-1100E-P-4W
U-LC-1060A-P-7W	U-LC-1070D-P-7W	U-LC-1090B-P-7W	U-LC-1100E-P-7W
U-LC-1060B	U-LC-1070E	U-LC-1090C	
U-LC-1060B-P-2W	U-LC-1070E-P-2W	U-LC-1090C-P-2W	
U-LC-1060B-P-4W	U-LC-1070E-P-4W	U-LC-1090C-P-4W	
U-LC-1060B-P-7W	U-LC-1070E-P-7W	U-LC-1090C-P-7W	
U-LC-1060C	U-LC-1080A	U-LC-1090D	
U-LC-1060C-P-2W	U-LC-1080A-P-2W	U-LC-1090D-P-2W	
U-LC-1060C-P-4W	U-LC-1080A-P-4W	U-LC-1090D-P-4W	
U-LC-1060C-P-7W	U-LC-1080A-P-7W	U-LC-1090D-P-7W	
U-LC-1060D	U-LC-1080B	U-LC-1090E	
U-LC-1060D-P-2W	U-LC-1080B-P-2W	U-LC-1090E-P-2W	
U-LC-1060D-P-4W	U-LC-1080B-P-4W	U-LC-1090E-P-4W	
U-LC-1060D-P-7W	U-LC-1080B-P-7W	U-LC-1090E-P-7W	
U-LC-1060E	U-LC-1080C	U-LC-1100A	
U-LC-1060E-P-2W	U-LC-1080C-P-2W	U-LC-1100A-P-2W	
U-LC-1060E-P-4W	U-LC-1080C-P-4W	U-LC-1100A-P-4W	
U-LC-1060E-P-7W	U-LC-1080C-P-7W	U-LC-1100A-P-7W	
U-LC-1070A	U-LC-1080D	U-LC-1100B	
U-LC-1070A-P-2W	U-LC-1080D-P-2W	U-LC-1100B-P-2W	
U-LC-1070A-P-4W	U-LC-1080D-P-4W	U-LC-1100B-P-4W	
U-LC-1070A-P-7W	U-LC-1080D-P-7W	U-LC-1100B-P-7W	
U-LC-1070B	U-LC-1080E	U-LC-1100C	
U-LC-1070B-P-2W	U-LC-1080E-P-2W	U-LC-1100C-P-2W	
U-LC-1070B-P-4W	U-LC-1080E-P-4W	U-LC-1100C-P-4W	
U-LC-1070B-P-7W	U-LC-1080E-P-7W	U-LC-1100C-P-7W	
U-LC-1070C	U-LC-1090A	U-LC-1100D	
U-LC-1070C-P-2W	U-LC-1090A-P-2W	U-LC-1100D-P-2W	
U-LC-1070C-P-4W	U-LC-1090A-P-4W	U-LC-1100D-P-4W	
U-LC-1070C-P-7W	U-LC-1090A-P-7W	U-LC-1100D-P-7W	

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Footnotes:

1. Multiple cell configurations of the single cell models above are also available but not listed individually. Multi-cell configurations are end-wall to end-wall arrangements of the single cell designs which do not impact the air flow rate or capacity of the individual cells, and are included in the certification. See example model number, below.
2. Sample Model Number for Multiple Cell Model:
U-LC-1015B-C3 where:
 U-LC = Product Line Designator
 -1015B = Box Size and Motor Size Designator
 -C = Cell
 3 = Number of Cells (When the number is 1, it stands for the single-cell tower, so U-LC-1015B-C1 and U-LC-1015B are identical single-cell towers.)
3. Certification includes the optional stainless steel components that do not affect thermal capacity in addition to standard Hot Dip Galvanized Steel components.
4. Certification includes optional stainless steel and Hot Dip Galvanized Steel piping components that do not affect thermal capacity in addition to standard PVC piping components.
5. Certification includes optional gear and belt reducers that do not affect thermal capacity in addition to standard belt reducers.
6. Certification includes optional internal piping arrangements for A, B, D, E types that are not affect thermal capacity in addition to standard external piping arrangements.
7. Certification includes optional external piping arrangements for C types that are not affect thermal capacity in addition to standard internal piping arrangements.
8. Certification includes optional Stainless Steel and Hot Dip Galvanized Steel fan stacks, casings and water basins/sumps that do not affect thermal capacity, in addition to the standard FRP fan stacks, casings and water basins/sumps.
9. Certification includes optional items that do not affect thermal capacity, such as access ladder, handrails, maintenance platform and walkway, etc.
10. Suffixes -P-2W, -P-4W, or -P-7W have optional plume reduction fill modifications.