

COOLING TECHNOLOGY INSTITUTE

PRICE LIST Publications



Publications List

A complete set of these Standard Specifications and Research Reports in a 3-ring vinyl binder with "Cooling Technology Institute Publications" lettered on it may be purchased for \$586 plus postage/handling in the U.S.A. For those who already have some or all of these publications, the binder may be purchased for \$15 post-paid. Prepayment is requested on orders of less than \$30. There is a 20% discount to Members. Quantity prices quoted upon request. Prices do not include postage.

Legend Used for Prefixes:

STD..... Standard	PTB..... P&T Committee Bulletin
ATC..... Test Code	PTG..... P&T Committee Guideline
BUL..... General Bulletin	WTB..... Water Treating Committee Bulletin
ESB..... ES&M Committee Bulletin	WTG..... Water Treating Committee Guideline
ESG..... ES&M Committee Guideline	ADM..... Administrative

CTI Code Tower Standard Specifications

STD-103 Redwood Lumber Specifications \$8.00

CTI Grades of Redwood Lumber; recommended grades and grading rules for redwood used in industrial towers and Framework Design Data: allowable design stresses (wet operating weight) nominal and dressed dimensions, wind loading and weight calculations. *Revised February 2007*

ESB-104 Wood Maintenance \$12.00

This is a report of 10 years field study of operating towers and eight preservative treatments. Discuss types of deterioration and means of prevention through water treating and preservative treatments. Tables and graphs of field study data, photographs of typical types of deterioration. *Reviewed February 2007*

ATC-105 Acceptance Test Code..... \$75.00

Part I - Test Procedure: methods and instrumentation for testing mechanical draft and natural draft cooling towers.

Part II - Evaluation of results: method for evaluation of the performance of mechanical draft cooling towers using both characteristic curves and performance curves; natural draft and natural draft-fan assisted cooling towers using characteristic curves and performance curves. The results are expressed in terms of water cooling capacity.

Part III - Appendix: example evaluation of mechanical draft cooling tower, natural draft cooling tower, and fan-assist cooling tower using either characteristic curve method or performance curve method; calculation of KaVL; enthalpy tables; facsimiles of ATC-106 Test Forms. *Revised February 2000*

**ATC-105S Acceptance Test Code..... \$25.00
for Closed Circuit Cooling Towers**

This code is similar to the open circuit tower in both form and function except for the fluid circuits. *Revised July 2004*

**ATC-106..... Acceptance Test Code..... \$25.00
for Mechanical Draft Evaporative Vapor Condensers**

This code specifies the procedures, apparatus, and instrumentation to be used for testing and evaluating the performance of evaporatively cooled, mechanical draft, vapor condensers. *July 2004*

**BUL-109 Nomenclature for Industrial \$8.00
Water Cooling Towers**

Recommended terms and definitions for use in describing tower components, designs and performance; includes abbreviations and letter symbols. *Revised February 1997*

PTB-110 Recirculation \$8.00

This is a summary of 7 years field study, and gives a procedure to determine maximum recirculation to be expected for any given operating condition; also recommendations for tower orientation to minimize recirculation. *June 1977*

ESG-111 Gear Speed Reducers \$8.00

Rated practice and operating considerations for use with propeller type fans; includes AGMA-approved service factors; recommendations for lubrication, alignment and protection during shutdown. *Revised May 1998*

**STD-112 Pressure Preservative..... \$10.00
Treatment of Lumber**

Minimum retention and penetrations in application of AWPA treatment standards for redwood, Douglas fir and southern yellow pie; moisture content determination; procedure for determining penetration. *Revised January 1997*

**ESG-114 Design of Cooling Towers with \$10.00
Douglas Fir Lumber**

Grades of Douglas Fir Lumber: recommended stress and non-framework grades and grading rules in application of WCLA grades and Design Data: allowable design stresses (wet operating weight), minimum requirements for non-framework members; nominal and dressed dimensions, wind loading and weight calculations. *Revised February 2007*

**PTG-116 Recommended Recirculation..... \$8.00
Allowances**

Application of average recirculation to wet bulb temperature to obtain design inlet wet bulb temperature corrected for recirculation. *April 1959*

**ESB-117 Recommendations for Maximum..... \$8.00
Life of Cooling Tower Lumber**

Summary of results, Cooling Tower Institute field study on wood maintenance. Includes recommendations for water and lumber treatment. *Revised February 2007*

Bid Form

PTG-118 SF/FA (Factory Assembled) \$5.00

PTG-118 SF/FE (Field Erected) \$5.00

The inquiry and Bid Form is used to show minimum information that is necessary to include inquiries and to show all pertinent data on the requested bids. Cooling tower purchasers use this form with their inquiries by filling out all the information marked with an asterisk (*). Manufacturers then return their bids on this form. This assures the purchaser of receiving adequate information on all bids. It also facilitates the comparison of bids by furnishing the same information in the same place on all bids. Further, it establishes uniform units for the various data. *July 1993*

ESG-119 Timber Connection Specification \$8.00

This standard sets forth in detail the recommended material and manufacturing limitations, design requirements and allowable loads for commonly used timber fasteners employed in the construction of industrial cooling towers. *Revised February 2007*

**ATC-128.....Code for Measurement of Sound\$15.00
From Water Cooling Towers**

This code applies to mechanical and natural draft towers. Test and measurement procedures, operating conditions and instrumentation are specified. *Revised July 2005*

**WTG-129 Handling Water Treatment\$8.00
Chemicals Safely**

Laminated poster for use where chemicals are handled. General and emergency procedures. *December 1996*

**WTG-130.....Guidelines for Evaluation of\$8.00
Cooling Tower Treatment Effectiveness**

Water treatment procedure, by the CTI Water Treatment Committee. *October 1981*

STD-131 Fiberglass-Reinforced Plastic Panels\$8.00

Covers the classification materials of construction, workmanship and methods of testing glass-fiber reinforced plastic panels in various profiles intended for use as casing, louvers and similar applications on cooling towers. *Revised March 2002*

**WTG-132..... Supervisory Guide.....\$8.00
Handling Water Treatment Chemicals**

A guide for first-line supervisors responsible for cooling tower treatment operations. *October 1984*

**ATC-133..... Acceptance Test Code for.....\$15.00
Spray Cooling Systems**

Part I - Test Procedure: methods and instrumentation to determine the capability of spray cooling systems.

Part II - Evaluation of Results: outlines a method of evaluation of the performance of spray cooling systems from test data using performance curves.

Part III - Appendix: performance curve method. *February 1985*

ESG-134..... Plywood for Use in Cooling Towers\$8.00

This standard sets forth specifications, grading rules, grades and species and design criteria for cooling tower components constructed of plywood. *Revised February 2007*

**PTG-135.....Guidelines for Thermal Upgrading of\$8.00
Mechanical Draft Cooling Towers**

The purpose of this document is to provide guidelines to assist the user in thermal upgrading, repair and rebuilding of mechanical draft cooling towers. *Revised March 1998*

**STD-136 Polyvinyl Chloride Materials Used for\$8.00
Film Fill, Splash Fill, Louvers and Drift Eliminators**

This specification covers the classification of rigid polyvinyl chloride (PVC); the physical properties, burning properties and recommended testing procedures employed to determine the defined values, whether processed from virgin or reground materials. *Revised February 2002*

**STD-137Fiberglass Pultruded Structural\$10.00
Products for Use in Cooling Towers**

This specification offers recommendations for classification, materials of construction, tolerances, defects, workmanship, inspection, physical, mechanical and design properties of glass fiber-reinforced pultruded structural shapes intended for use as construction items in cooling tower applications. *Revised February 2007*

**ESG-138..... Recommended Procedures\$8.00
Long Term Storage**

Procedures recommended for the long-term storage of industrial scale cooling towers. In general, long-term storage is for an extended period of more than one year, but these recommendations can also be modified for seasonal storage. The techniques are divided between Mechanical Equipment and Wood Structure. These two groups of components require the most attention because they will deteriorate rapidly if preventive measures are not taken. *March 2002*

**WTB-139..... Suggested Ozone Reading List\$8.00
WTB-139.1**

The CTI Water Treatment Committee has prepared the attached reading list on the use of ozone in cooling water systems. This suggested list of reading materials was developed to assist in the dissemination of information on the use of ozone in cooling water systems and in no way represents an endorsement by CTI on the use of ozone. This list will periodically be updated as new contributions to the literature are made on this topic. *April 1992 / July 1994*

**ATC-140 .. Isokinetic Drift Measurement Test Code...\$50.00
For Water Cooling Towers**

The purpose of this Code is to describe instrumentation and procedures for the testing and evaluation of drift from water-cooling towers. *June 1994*

WTG-141 Application of Oxidizing Biocides\$25.00

This document will cover the use and application of the four major oxidizing biocides used in treating cooling waters: chlorine, bromine, chlorine dioxide, and ozone. The document will help end users and all personnel involved in treating cooling systems to better understand the chemistry, the application methods and the safety and environmental issues concerning oxidizing biocides. *June 2004*

**ESG-142 Treatment of Galvanized.....\$10.00
Cooling Tower to Prevent White Rust**

The purpose of this document is to provide steps in preventing "white rust" through the application of appropriate water treatment programs. *June 1994*

**PTG-143Recommended Practice for\$10.00
Airflow Testing of Cooling Towers**

This document helps in determining the purposes for anemometer and/or pitot tube testing in cooling towers. *June 1994*

ESG-144 CTI Fastener Material Guidelines.....\$8.00

Sets forth guidelines for selecting fasteners and identifies and specifies materials typically used in cooling tower fasteners. *July 1994*

BUL-145International System of Units (SI)\$8.00

A practical medium of exchange for all basic data of interest to manufacturers, suppliers, and users of cooling towers. *July 1995*

STD-146.... Standard for Water Flow Measurement....\$16.00

Methods for cooling tower water flow measurement. *July 2006*

**WTB-147..... Water Reuse Paper of Interest\$8.00
To Cooling Tower Users**

This is a bibliography of published and presented papers on the general subject of water reuse in cooling tower systems. *August 1997*

WTB-148..... Legionellosis N/C

CTI Position Statement on the disease known as the Legionnaires' Disease, caused by the bacterium *Legionella pneumophila*. *July 2006*

STD-149..... Corrosion Testing Procedures.....\$10.00

A code to develop standardized test procedures and evaluation techniques also designed to provide a uniform method to compare relative water treatment program performance in a cooling water system. *October 2000*

**ATC-150 Acceptance Test Procedure for\$10.00
Wet-Dry Plume Abatement**

This code covers the determination of the effluent air or plume characteristics of wet-dry cooling towers, designed for plume abatement. *April 1999*

**STD-151..... Variable Frequency Drive\$8.00
Application Guidelines for Cooling Towers**

This standard covers the guidelines for operation of cooling towers at variable speeds. *July 2002*

ESG-152 ... Structural Design of FRP Components.....\$8.00

This standard provides minimum design standards and cautionary recommendations to designers of FRP structural cooling towers. *July 2002*

**ESG-153....Recommended Guidelines for Portland ...\$10.00
Cement Concrete for Mechanical Draft Cooling Towers**

This guideline offers recommendations for the use of Portland cement concrete in the use of mechanical draft cooling towers. *February 2007*

**PTG-156....Preparation for an Official CTI Thermal..... N/C
Performance Plume Abatement, or Drift Emission Test**

This bulletin covers test preparation for an official water cooling tower thermal performance test, plume abatement test or drift emissions test. *October 2000*

**STD-201Standard for the Certification of.....\$30.00
Water Cooling Tower Thermal Performance**

This Standard sets forth a program whereby the Cooling Tower Institute will certify that all models of a line of water cooling towers offered for sale by a specific Manufacturer will perform thermally in accordance with the Manufacturer's published ratings, as limited in Paragraph 2.8. *Revised September 2004*

**STD-202Standard for Publication of Custom\$10.00
Cooling Tower Thermal Performance Test Results**

This Standard sets forth a program whereby manufacturers of custom cooling towers voluntarily allow the results of their CLTTA tests to be published under the requirements of this program. *April 2001*

STD-203 Industrial Cooling Tower Standard\$10.00

This Standard covers the design, fabrication and inspection of crossflow and counterflow mechanical draft cooling towers. *October 2005*

(Prices do not include postage and handling.)

Educational Seminar Papers / Video

ESP93-01Guidelines for Cooling Tower Repair\$8.00

Maintenance History, Tower Process & Environment, Availability of Lumber, and Budget Restraints *February 1993*

ESP96-01 Cooling Tower Testing\$8.00

Paper explains how to help customers understand what a cooling tower test is all about and how the test is performed. *February 1996*

ESP99-01 Performance & Testing\$12.00

This paper was developed, reviewed and presented by the CTI Performance & Technology committee on the performance and testing of cooling towers. *February 1999*

**ESV08-01Ancillary Equipment and Services.....\$50.00
Relating to Cooling Towers**

This video contains the 4 sessions on structural issues with cooling tower. It focuses on lightning protection, fire protection, and water treating, safety and safety equipment. Available in DVD format. *February 2008*

Software

CTI Blue Book Application (CD-ROM)

A program to calculate demand curves for any range, wet bulb temperature and barometric pressure/altitude using the official CTI psychrometric calculations. It will also compute a performance evaluation using the characteristic curve method of CTI ATC-105.

Member.....\$395.00

Non-Member\$450.00

(Prices do not include postage and handling.)

CTI Journal

The *CTI Journal* is the first technical journal devoted solely to the subject of cooling towers and their operations. The *CTI Journal* is of current interest to Institute members and other professionals

responsible for the construction specifications, testing, maintenance and operation of cooling towers.

The *CTI Journal* is published each year in January and June. Complimentary subscriptions are mailed to individuals in the United States. Library subscriptions are \$30/year. Subscriptions mailed to individuals outside the United States are \$30/per year.

CTI Directory

Membership Directory

Spiral bound with membership categorized by Honorary Members, Manufacturers, Suppliers, Users and Individual Members. Includes a copy of the CTI Bylaws.

Membership Directory \$50.00
(Prices do not include postage and handling.)

CTI Manual

The purpose of the CTI Manual is to bring together into a common place, comprehensive information pertaining to cooling towers and other types of equipment that reject heat to the atmosphere. The Manual has been developed in the form of individual chapters, each of which stands on its own merit, and includes a list of references and a bibliography.

Chapters now available:

- Chapter 1 - Cooling Tower Operations
(February 1999)..... \$8.00
- Chapter 2 - Introduction to CTI Thermal Design
(March 1998) \$8.00
- Chapter 3 - Performance Variables of Cooling Towers
(March 1998) \$15.00
- Chapter 4 - Recommendations for Winter
(February 1991)..... \$10.00
- Chapter 5 - Field Test Handbook
(April 1998)..... \$30.00
- Chapter 6 - Water Chemistry and Treatments
(July 2005)..... \$18.00
- Chapter 8 - Environmental Aspects of Cooling System
Operation (June 1981)..... \$8.00
- Chapter 9 - Materials of Construction for Cooling Towers
(June 1975) \$10.00
- Chapter 10 - Mechanical Components for Cooling Towers
(April 1999)..... \$10.00
- Chapter 11 - Electrical Components for Cooling Towers
(January 1984) \$8.00
- Chapter 12 - Fire Protection for Cooling Towers
(November 1975)..... \$8.00
- Chapter 13 - Inspection of Cooling Towers
(Revised July 2005) \$15.00
- Complete manual with binder..... \$155.00
- 3-Ring 2" binder with "CTI Manual" lettered on it is available for \$15.00. Members receive a 20% discount.
(Prices do not include postage and handling.)

All listed rates and prices are subject to discount for CTI members. All rates, prices and conditions are subject to change without notice. Prices are FOB Houston, Texas U.S.A.

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