

EUROVENT



What is EUROVENT ?

EUROVENT ASSOCIATION

- Keep members informed of relevant legislation
- National Trade Associations for each country
- Development of product certification programs

EUROVENT CERTIFICATION COMPANY (E.C.C.)

- Independent from Eurovent Association
- Certification of cooling equipment/components



What is CTI ?

COOLING TECHNOLOGY INSTITUTE

Maintain and expand a broad-base membership of individuals and organizations interested in evaporative heat transfer equipment.

Mission

Promote environmentally responsible Evaporative Heat Transfer Systems

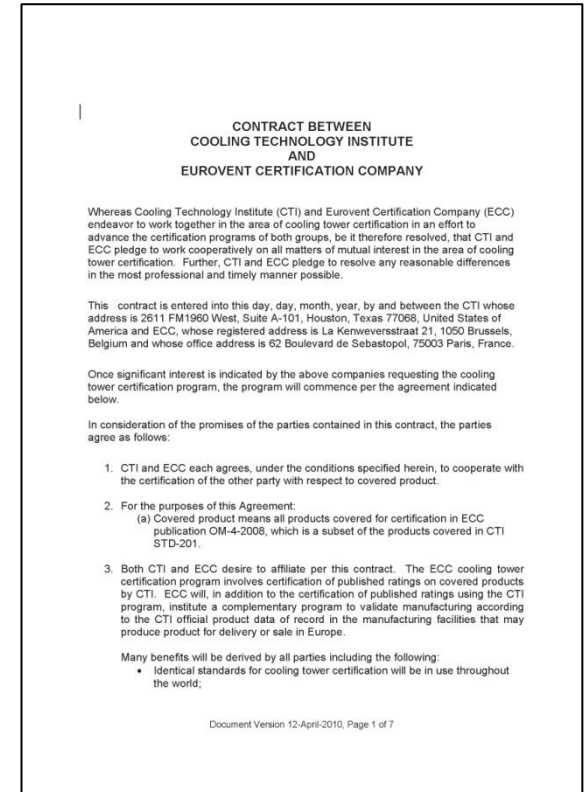


Eurovent Certification Company (ECC)– Cooling Technology Institute (CTI) Partnership

ECC – CTI Memorandum of Understanding Mutual recognition Eurovent – CTI

“CTI and ECC endeavor to work together in the area of cooling tower certification in an effort to advance the certification programs of both groups, be it therefore resolved, that CTI and ECC pledge to work Cooperatively on all matter of mutual interest In the area of coolint tower certification”

-Europe
-Middle East
-India



Launch of the Eurovent certification programmes

December 2010 **Launch of the Open Cooling Tower Certification**

May 2012 **Launch of the Closed Circuit Cooler Certification**



ECC-CTI Cooling Tower Certification participation

Initial Team:

Evapco Europe

SPX Cooling Technologies

Jacir Air-Traitement

Niba Water Cooling Towers Industry Co.

Baltimore Aircoil International

E.W. Gohl GmbH

Recently additional member

Mita



Scope of the certification

General Purpose

- Encourage honest competition
 - Assure correctly rated equipment on the market
- ⇒ Separate and specific certification programmes for each product type
- ⇒ Product performance tests through an independent third-party
- ⇒ Application and participation open to all manufacturers



Scope of the certification

Important Documents

Eurovent Certification Manual (CM):

“Make each certification programme sufficiently effective and reliable so the market recognize ECC certified equipment.”



Scope of the certification

CM defines that each certification programme has

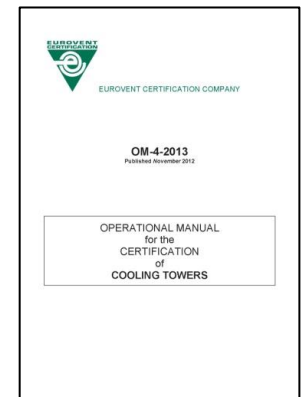
Rating Standards (RS)

Definitions and specifications for testing and rating



Operational Manual (OM)

Prescribe rules and procedures for the ECC certification programme

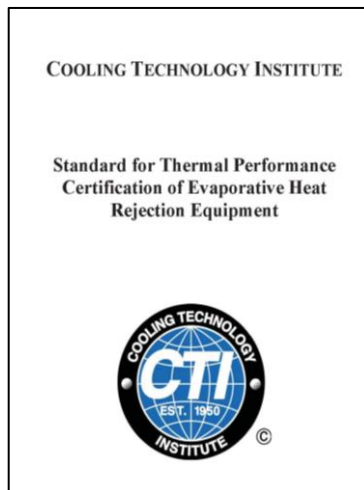


Scope of the certification

ECC Rating Standard (RS)

⇒ Reference to CTI STD-201

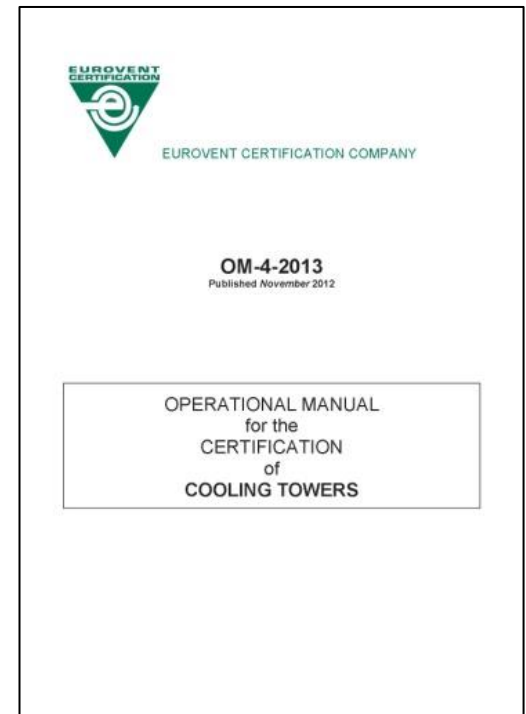
⇒ CTI STD-201 will be used for thermal performance testing



Scope of the certification

ECC Operational Manual (OM)

- Purpose
- Scope
- Basic Outline of the Programme
- Operation of the Programme
- Promotion of the Programme
- Forms
- ECC Mark
- Cooling towers – Application Schedule
- Audit Report
- Certification Process Map



Scope of the certification

Important steps in OM:

1. Thermal Performance Testing

- Manufacturers own lab
- Independent test agency
 - Lab
 - On site
- CTI approved test equipment



Scope of the certification

II. Factory Audits

- Verify the equipment is built conform as per registered data
- Identify issues which may arise with regard to differences in regional sourcing of components

⇒ Audit agency will send audit report to ECC.

- Compliance
- Non-Compliance

C – Critical non-compliance

I – Important non-compliance

S – Secundare non-compliance



Scope of the certification

Challenging Procedures

Participant X can challenge certified data or software of another participant Y

-Simplified Challenging Procedure

-Complete Challenging Procedure by independent laboratory



Certification Process

Certification process

- Application

submit all relevant documentation for each applied product range

- Qualification

- after analysis, ECC will select type of unit for test

- equipment test - conducted by an independent agency, selected by ECC

=> Test rapport send to ECC

=> ECC transfer test results to the manufacturer

When all results are conform with the relevant Rating Standard, certification is granted.

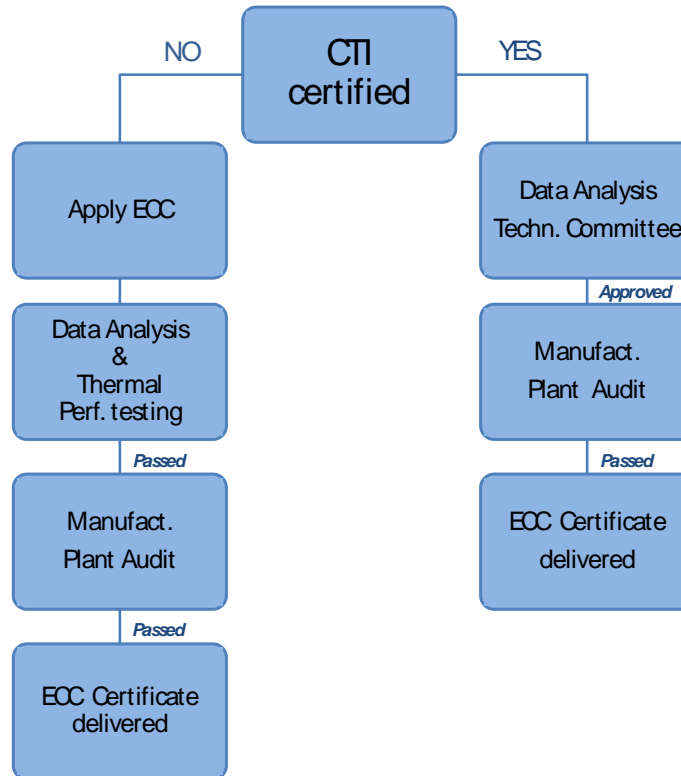
-Repetition

thermal performance conformity is verified on an annual base by an independent testing agency.



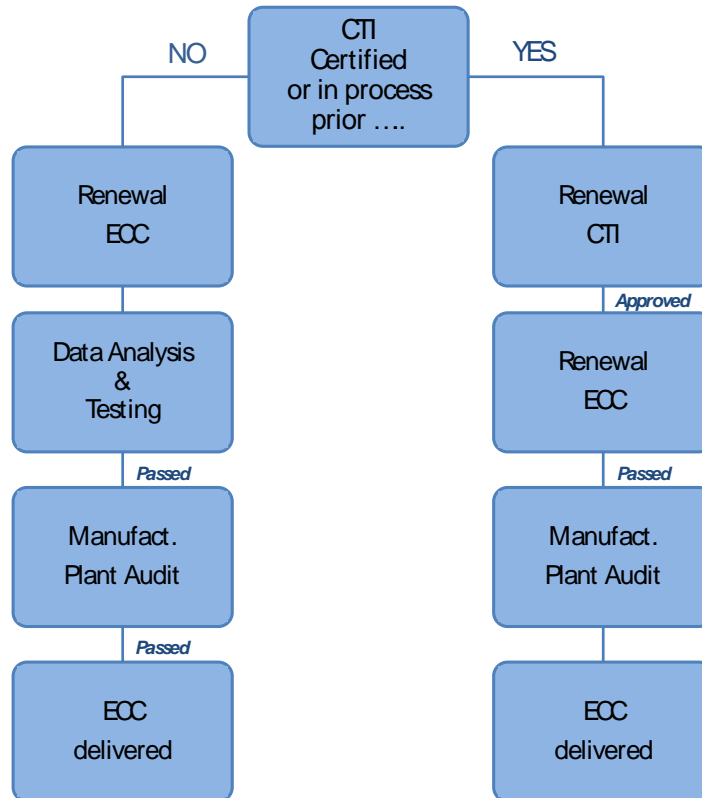
Certification Process

Initial Certification process



Certification Process

Renewal Certification process



Value Ad

- Honest and fair competition
- Correctly rated equipment on the market
- Enables accurate energy comparison calculations
- Enforceable, specifiable and available for all manufacturers
- Energy consumption of the system. An underrated cooling tower will require the chiller to operate at a higher condensing temperature. A high condensing temperature results in a higher power consumption by the chiller.



Success Story



Customized Area

