Inspections Division
Date: 06/20/17

EVAPCO, INC.
P.O. Box 1300
Westminster, Maryland 21158, USA
Telephone (410) 756-2600
FAX (410) 756-6450

DATE **May 02, 2017**

SUBMITTAL APPROVAL REQUIRED For EQUIPMENT RELEASE

Customer: **Thayer Corporation**

Project: **Portland Fish Exchange**

EVAPCO Serial Number: **17-814777**

Model Number: **(1) LSC-135E Evaporative Condenser**

	INITIALS	DATE	REQUESTED SHIP DATE
Approved for Release as Submitted			
Approved for Release with Changes as Noted			
Not Approved as Noted			

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EVAPCO, INC
P.O. Box 1300
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May 02, 2017

Mr. Andy Kent
Thayer Corporation
1400 Hotel Road
Auburn, ME 04210

RE: Purchase Order # 46207
EVAPCO Order # 17-814777
(1) LSC-135E Evaporative Condenser
Project - Portland Fish Exchange

Dear Mr. Kent:

Enclosed is the certified submittal data for the above referenced order.

We look forward to receiving submittal approval and release for production in the near future. If you have not already done so, please forward a copy of your purchase order along with the approved submittals.

If we may be of any further assistance please contact your local EVAPCO representative, North Atlantic Refrigeration, as soon as possible.

Thank you for selecting EVAPCO as your supplier. We appreciate your business and look forward to working with you in the future.

Sincerely,

EVAPCO, INC

Beth Fox
Beth Fox
Regional Sales Manager

ENCLOSURE(S)

cc: North Atlantic Refrigeration - Al Melanson

Inspections Division
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May 03, 2017

EVAPCO® SUBMITTAL PACKAGE

PROJECT	PORTLAND FISH EXCHANGE	UNIT	(1) LSC-135E EVAPORATIVE CONDENSER
CUSTOMER	THAYER CORPORATION	P.O.	46207
EVAPCO SERIAL NO.	17-814777	ENGINEER	THAYER CORPORATION

SUBMITTAL DATA ENCLOSED

DESCRIPTION	DOCUMENT NUMBER
PERFORMANCE AND MECHANICAL SPECIFICATIONS	LSCB 4&8ST-ST
UNIT CERTIFIED DRAWING	WLE041208-DRC-002
STEEL SUPPORT CONFIGURATION	SLCWE0412-DC
CERTIFICATE OF COMPLIANCE	IBCFDCOC001
GUARANTEE OF THERMAL PERFORMANCE	AOS2636

EVAPCO…TAKING QUALITY AND SERVICE TO A HIGHER LEVEL!

Date 5/2/2017

Inspections Division
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PERFORMANCE AND MECHANICAL SPECIFICATIONS

EVAPCO® EVAPORATIVE CONDENSER

PROJECT: Portland Fish Exchange

CUSTOMER: Thayer Corporation

ENGINEER: Thayer Corporation

UNIT: (1) LSC-135E Evaporative Condenser

CUSTOMER P.O. NO. 46207 EVAPCO SERIAL NO. 17-814777

CAPACITY: 2100 MBH R-22 REFRIG 105 °F COND °F SUCT 75 °F E.W.B.

FAN MOTOR: (1) 10 HP ELEC. SPEC. 460/3/60

PUMP MOTOR: ELEC. SPEC.

DRIVES SIZED FOR 0" ESP.

UNIT TYPE	All hot-dip galvanized steel, factory-assembled, counterflow blow-through.
PAN FAN SECTION	Pan constructed of heavy gauge mill hot-dip galvanized steel. All galvanized steel is coated with a minimum of 2.35 ounces of zinc per square foot of area (G-235 designation). Pan-Fan section includes centrifugal fans and drives mounted and aligned at the factory. All fan components are located in the dry entering air stream. During fabrication, all panel edges are coated with a 95% pure zinc-rich compound.
IBC COMPLIANT	The unit structure is designed, analyzed, and constructed in accordance with the latest edition of International Building Code (IBC) for: Ip = 1.00, Sds = 0.42, P = 288.3 psf.
MAKE UP FLOAT VALVE ASSEMBLY*	Brass float valve with adjustable, unsinkable, foam-filled plastic float.
PAN STRAINER*	All Type 304 stainless steel with large area removable perforated screens.
FAN DISCHARGE COWLS	G-235 hot-dip galvanized steel cowls provided on each fan discharge extending within the pan to increase fan efficiency and prevent water from entering fans.
ACCESS	G-235 hot-dip galvanized steel circular access doors held in place by wingnuts.
BLEED-OFF*	Waste water bleed line with adjustable valve provided.
PUMP*	Close-coupled centrifugal pump with mechanical seal. The pump is installed in a vertical position so that water will drain from the pump when the cold water basin is emptied. Pump motor is totally enclosed with protective canopy for outdoor operation.
FAN WHEELS	Fans are forwardly curved centrifugal type of hot-dip galvanized steel factory installed into the pan/fan section. They are statically and dynamically balanced for vibration free operation. Fan housings have compound curve inlet rings for efficient air entry.

Inspections Division
Date: 06/20/17

FAN SHAFT	**Heavy duty, hollow steel shaft with forged bearing journals, ground and polished forging.**
FAN SHAFT BEARINGS	**Self-aligning, heavy duty grease packed ball bearings with eccentric locking collars.**
FAN MOTOR	**Totally enclosed, ball bearing type electric motor(s) suitable for moist air service. Motor(s) are Premium Efficient, Class F insulated, 1.15 service factor design. Inverter rated per NEMA MG1 Part 31.4.4.2 and suitable for variable torque applications and constant torque speed range with properly sized and adjusted variable frequency drives.**
FAN DRIVE	**V-belt type with taper lock sheaves. Selected for 150% motor nameplate horsepower. Mounted and aligned at the factory.**
COIL	**Thermal-Pak coil design of all prime surface steel, encased in steel framework with entire assembly hot-dip galvanized after fabrication. Designed with sloping tubes for liquid drainage and tested to 390 psig air under water.**
WATER DISTRIBUTION SYSTEM	**Heavy-duty precision molded ABS spray nozzles with large orifice to eliminate clogging. The spray nozzles shall be threaded into spray branches to provide easy removal for maintenance. The spray branches shall be constructed of Schedule 40, PVC pipe for corrosion resistance. All spray branches shall be removable and include a threaded end plug for ease of cleaning.**
ELIMINATORS	**The eliminators are constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. Design incorporates three changes in air direction and limits the water carryover to a maximum of 0.001% of the circulating water rate.**
FAN GUARD SCREEN	**Hot-dip galvanized steel screens, 1" wire mesh.**
HEAT TRANSFER CASING CONSTRUCTION	**G-235 hot-dip galvanized steel panel construction, separable from pan section.**
PASSIVATION	**All evaporative cooling equipment utilizing galvanized construction requires initial passivation to maximize the service life of the equipment. The sites water treatment vendor should be contacted several weeks prior to adding any water to the system to provide a passivation plan along with associated passivation plan costs.**

***OMITTED ON UNITS FOR REMOTE SUMP OPERATION**

SPECIAL REMARKS:

- **Omit pump.**
- **Additional Coil Circuits .**
- **Unit(s) is arranged for remote sump operation. Suction hood, strainers and make-up valve(s) are not provided for this application.**
- **Nitrogen charged coils (removal of welded end plate and coil connection preparation by others).**
- **Remote Sump Operation Note: The remote pump (by others) must be selected to deliver 245 GPM @ 1.5 PSIG to each inlet of the unit's water distribution system.**
- **IBC Standard Structural Design.**

Inspections Division
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Certificate of Compliance

LSTE, LPT, PMTQ Cooling Towers
PMWQ, LSWE, LRWB Closed Circuit Coolers
eco-PMC, PMC-E, LSC-E and LRC Evaporative Condensers

Are certified to meet or exceed the Seismic and Wind Load Provisions set forth in the applicable building codes for this project.

These products have been manufactured following all applicable quality assurance programs.

Applicable Building Codes:
IBC 2012
ASCE-7
NFPA 5000

Referenced Report:
VMA-43387

Approval Agency:
VMC Seismic Consulting Group

THE VMC GROUP
The Power of Together

EVAPCO...Specialists in Heat Transfer Products and Services.

FD IBC COC 001

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Guarantee of Thermal Performance

EVAPCO® unequivocally guarantees the thermal performance of its equipment as shown on the certified drawings, when the equipment is installed in accordance with good engineering practice. If after installation and start-up there is any question regarding thermal performance of the equipment, at the owner's request EVAPCO will send its engineers to the jobsite to conduct a performance test. This test may be observed by the owner and the consulting engineer or by their authorized representatives. If the results of the evaluation show the equipment to be deficient, EVAPCO will make the necessary repairs or alterations to correct the deficiency at no cost to the owner. If the equipment is found to be performing in accordance with its certified drawing, the owner is expected to reimburse the company for its costs associated with this performance test. This guarantee is subject to all conditions and limitations set forth in the express warranty that applies to the equipment.

EVAPCO...Specialists in Heat Transfer Products and Services.