



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0473 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Baltimore Aircoil Company

Manufacturer's Technical Representative: Panos G. Papavizas, P.E., SECB

Mailing Address: 7600 Dorsey Run Road, Jessup, MD 20794

Telephone: (410) 799-6438 Email: ppapavizas@baltimoreaircoil.com

Product Information

Product Name: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Product Type: Mechanical Equipment

Product Model Number: See attachment

(List all unique product identification numbers and/or part numbers)

General Description: Galvanized carbon steel or stainless steel structural frame and cold water basin, with various access and accessories options, coils, motors, fans, pumps, and basin heaters. Seismic enhancements made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Both rigid and vibration spring isolated base mounted

Applicant Information

Applicant Company Name: The VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780 Email: john.giuliano@thevmcgroup.com

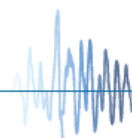
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 7/28/16

Title: President Company Name: The VMC Group

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)



OSHPD

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**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: The VMC Group
Name: Ken Tarlow California License Number: SE2851
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403
Telephone: (973) 838-1780 Email: Ken.tarlow@thevmcgroup.com

Supports and Attachments Preapproval

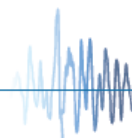
- ☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- ☒ Supports and attachments are not preapproved

Certification Method

- ☒ Testing in accordance with: ☒ ICC-ES AC156
- ☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Pacific Earthquake Engineering Research Center, UC Berkeley (PEER)
Contact Name: Clement Barthes
Mailing Address: 1301 S. 46th Street, Building 420, Richmond, CA 94804
Telephone: (510) 665-3409 Email: clementbarthes@berkeley.edu





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = Isolated [3.38 (z/h = 1) & 1.88 (z/h = 0)]
Rigid [2.25 (z/h = 1) & 1.25 (z/h = 0)]

S_{DS} (Design spectral response acceleration at short period, g) = 1.50 (z/h = 1) & 2.50 (z/h = 0)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 2.0 (Isolated) & 3.0 (Rigid)

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0 (S_{DS} = 1.50 g) & 0.0 (S_{DS} = 2.50 g)

Equipment or Component Natural Frequencies (Hz) = See attached

Overall dimensions and weight (or range thereof) = See attached

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☒ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☐ Other(s) (Please Specify): _____

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: M. R. Karim Date: 10/11/2016

Print Name: M. R. Karim Title: SHFR

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): _____

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0806A-12D-G	88	101.8	89.8	150.3	5,005	7,799	Extrapolated
FXV-0806A-12D-H	99	101.8	89.8	150.3	5,015	7,809	Extrapolated
FXV-0806A-12D-J	108	101.8	89.8	150.3	5,068	7,862	Extrapolated
FXV-0806A-12D-K	115	101.8	89.8	150.3	5,083	7,877	Extrapolated
FXV-0806A-16D-G	105	101.8	89.8	150.3	5,298	8,213	Extrapolated
FXV-0806A-16D-H	119	101.8	89.8	150.3	5,308	8,224	Extrapolated
FXV-0806A-16D-J	131	101.8	89.8	150.3	5,361	8,276	Extrapolated
FXV-0806A-16D-K	140	101.8	89.8	150.3	5,377	8,292	Extrapolated
FXV-0806A-20D-G	118	101.8	89.8	150.3	5,592	8,629	Extrapolated
FXV-0806A-20D-H	134	101.8	89.8	150.3	5,602	8,639	Extrapolated
FXV-0806A-20D-J	148	101.8	89.8	150.3	5,655	8,692	Extrapolated
FXV-0806A-20D-K	159	101.8	89.8	150.3	5,670	8,708	Extrapolated
FXV-0806A-24D-G	134	101.8	89.8	184.9	6,441	9,599	Extrapolated
FXV-0806A-24D-H	155	101.8	89.8	184.9	6,451	9,610	Extrapolated
FXV-0806A-24D-J	173	101.8	89.8	184.9	6,504	9,662	Extrapolated
FXV-0806A-24D-K	187	101.8	89.8	184.9	6,519	9,678	Extrapolated
FXV-0806B-12D-G	101	101.8	89.8	182.3	5,433	8,227	Extrapolated
FXV-0806B-12D-H	113	101.8	89.8	182.3	5,443	8,237	Extrapolated
FXV-0806B-12D-J	122	101.8	89.8	182.3	5,496	8,290	Extrapolated
FXV-0806B-12D-K	130	101.8	89.8	182.3	5,512	8,306	Extrapolated
FXV-0806B-12D-L	138	101.8	89.8	182.3	5,656	8,450	Extrapolated
FXV-0806B-16D-G	122	101.8	89.8	182.3	5,726	8,642	Extrapolated
FXV-0806B-16D-H	137	101.8	89.8	182.3	5,737	8,652	Extrapolated
FXV-0806B-16D-J	150	101.8	89.8	182.3	5,789	8,705	Extrapolated
FXV-0806B-16D-K	159	101.8	89.8	182.3	5,805	8,720	Extrapolated
FXV-0806B-16D-L	170	101.8	89.8	182.3	5,950	8,865	Extrapolated
FXV-0806B-20D-G	136	101.8	89.8	182.3	6,020	9,057	Extrapolated
FXV-0806B-20D-H	154	101.8	89.8	182.3	6,030	9,068	Extrapolated
FXV-0806B-20D-J	169	101.8	89.8	182.3	6,083	9,120	Extrapolated
FXV-0806B-20D-K	180	101.8	89.8	182.3	6,099	9,136	Extrapolated
FXV-0806B-20D-L	193	101.8	89.8	182.3	6,243	9,281	Extrapolated
FXV-0806B-24D-G	157	101.8	89.8	216.9	6,869	10,028	Extrapolated
FXV-0806B-24D-H	180	101.8	89.8	216.9	6,879	10,038	Extrapolated
FXV-0806B-24D-J	200	101.8	89.8	216.9	6,932	10,091	Extrapolated
FXV-0806B-24D-K	215	101.8	89.8	216.9	6,948	10,106	Extrapolated
FXV-0806B-24D-L	232	101.8	89.8	216.9	7,092	10,251	Extrapolated
FXV-0806B-28D-G	166	101.8	89.8	216.9	7,162	10,443	Extrapolated
FXV-0806B-28D-H	191	101.8	89.8	216.9	7,173	10,453	Extrapolated
FXV-0806B-28D-J	213	101.8	89.8	216.9	7,225	10,506	Extrapolated
FXV-0806B-28D-K	229	101.8	89.8	216.9	7,241	10,521	Extrapolated
FXV-0806B-28D-L	247	101.8	89.8	216.9	7,386	10,666	Extrapolated
FXV-0806B-32D-G	174	101.8	89.8	216.9	7,456	10,858	Extrapolated
FXV-0806B-32D-H	200	101.8	89.8	216.9	7,467	10,869	Extrapolated
FXV-0806B-32D-J	223	101.8	89.8	216.9	7,519	10,921	Extrapolated
FXV-0806B-32D-K	240	101.8	89.8	216.9	7,535	10,937	Extrapolated
FXV-0806B-32D-L	260	101.8	89.8	216.9	7,679	11,082	Extrapolated
FXV-0806B-36D-G	179	101.8	89.8	216.9	7,750	11,274	Extrapolated
FXV-0806B-36D-H	207	101.8	89.8	216.9	7,760	11,284	Extrapolated
FXV-0806B-36D-J	231	101.8	89.8	216.9	7,813	11,337	Extrapolated
FXV-0806B-36D-K	249	101.8	89.8	216.9	7,829	11,352	Extrapolated
FXV-0806B-36D-L	270	101.8	89.8	216.9	7,973	11,497	Extrapolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0809A-12D-G	145	101.8	131.8	148.3	6,990	11,267	Extrapolated
FXV-0809A-12D-H	165	101.8	131.8	148.3	7,000	11,277	Extrapolated
FXV-0809A-12D-J	182	101.8	131.8	148.3	7,053	11,330	Extrapolated
FXV-0809A-12D-K	195	101.8	131.8	148.3	7,069	11,345	Extrapolated
FXV-0809A-12D-L	214	101.8	131.8	148.3	7,200	11,477	Extrapolated
FXV-0809A-16D-G	163	101.8	131.8	148.3	7,430	11,889	Extrapolated
FXV-0809A-16D-H	187	101.8	131.8	148.3	7,440	11,899	Extrapolated
FXV-0809A-16D-J	208	101.8	131.8	148.3	7,493	11,952	Extrapolated
FXV-0809A-16D-K	224	101.8	131.8	148.3	7,508	11,967	Extrapolated
FXV-0809A-16D-L	247	101.8	131.8	148.3	7,640	12,099	Extrapolated
FXV-0809A-20D-G	176	101.8	131.8	148.3	7,869	12,511	Extrapolated
FXV-0809A-20D-H	203	101.8	131.8	148.3	7,880	12,521	Extrapolated
FXV-0809A-20D-J	227	101.8	131.8	148.3	7,932	12,574	Extrapolated
FXV-0809A-20D-K	245	101.8	131.8	148.3	7,948	12,590	Extrapolated
FXV-0809A-20D-L	271	101.8	131.8	148.3	8,079	12,721	Extrapolated
FXV-0809A-24T-G	181	101.8	131.8	182.9	9,212	14,062	Extrapolated
FXV-0809A-24T-H	210	101.8	131.8	182.9	9,222	14,072	Extrapolated
FXV-0809A-24T-J	236	101.8	131.8	182.9	9,275	14,125	Extrapolated
FXV-0809A-24T-K	256	101.8	131.8	182.9	9,291	14,141	Extrapolated
FXV-0809A-24T-L	287	101.8	131.8	182.9	9,422	14,272	Extrapolated
FXV-0809B-16D-G	188	101.8	131.8	180.3	7,986	12,672	Extrapolated
FXV-0809B-16D-H	215	101.8	131.8	180.3	7,996	12,683	Extrapolated
FXV-0809B-16D-J	237	101.8	131.8	180.3	8,049	12,735	Extrapolated
FXV-0809B-16D-K	254	101.8	131.8	180.3	8,065	12,751	Extrapolated
FXV-0809B-16D-L	279	101.8	131.8	180.3	8,196	12,882	Extrapolated
FXV-0809B-16D-M	297	101.8	131.8	180.3	8,259	12,945	Extrapolated
FXV-0809B-20D-G	204	101.8	131.8	180.3	8,426	13,295	Extrapolated
FXV-0809B-20D-H	234	101.8	131.8	180.3	8,436	13,305	Extrapolated
FXV-0809B-20D-J	260	101.8	131.8	180.3	8,489	13,358	Extrapolated
FXV-0809B-20D-K	279	101.8	131.8	180.3	8,505	13,374	Extrapolated
FXV-0809B-20D-L	308	101.8	131.8	180.3	8,636	13,505	Extrapolated
FXV-0809B-20D-M	329	101.8	131.8	180.3	8,699	13,568	Extrapolated
FXV-0809B-24D-G	227	101.8	131.8	214.9	9,540	14,645	Extrapolated
FXV-0809B-24D-H	264	101.8	131.8	214.9	9,551	14,656	Extrapolated
FXV-0809B-24D-J	296	101.8	131.8	214.9	9,603	14,708	Extrapolated
FXV-0809B-24D-K	321	101.8	131.8	214.9	9,619	14,724	Extrapolated
FXV-0809B-24D-L	357	101.8	131.8	214.9	9,750	14,855	Extrapolated
FXV-0809B-24D-M	385	101.8	131.8	214.9	9,813	14,918	Extrapolated
FXV-0809B-24T-G	212	101.8	131.8	214.9	9,757	14,862	Extrapolated
FXV-0809B-24T-H	245	101.8	131.8	214.9	9,767	14,872	Extrapolated
FXV-0809B-24T-J	274	101.8	131.8	214.9	9,820	14,925	Extrapolated
FXV-0809B-24T-K	296	101.8	131.8	214.9	9,835	14,941	Extrapolated
FXV-0809B-24T-L	329	101.8	131.8	214.9	9,967	15,072	Extrapolated
FXV-0809B-24T-M	353	101.8	131.8	214.9	10,030	15,135	Extrapolated
FXV-0809B-28D-G	235	101.8	131.8	214.9	9,980	15,267	Extrapolated
FXV-0809B-28D-H	275	101.8	131.8	214.9	9,990	15,278	Extrapolated
FXV-0809B-28D-J	310	101.8	131.8	214.9	10,043	15,330	Extrapolated
FXV-0809B-28D-K	336	101.8	131.8	214.9	10,059	15,346	Extrapolated
FXV-0809B-28D-L	376	101.8	131.8	214.9	10,190	15,477	Extrapolated
FXV-0809B-28D-M	405	101.8	131.8	214.9	10,253	15,540	Extrapolated
FXV-0809B-30T-G	227	101.8	131.8	214.9	10,472	15,851	Extrapolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0809B-30T-H	264	101.8	131.8	214.9	10,483	15,862	Extrapolated
FXV-0809B-30T-J	297	101.8	131.8	214.9	10,535	15,914	Extrapolated
FXV-0809B-30T-K	321	101.8	131.8	214.9	10,551	15,930	Extrapolated
FXV-0809B-30T-L	358	101.8	131.8	214.9	10,682	16,061	Extrapolated
FXV-0809B-30T-M	386	101.8	131.8	214.9	10,745	16,124	Extrapolated
FXV-0809B-32D-G	242	101.8	131.8	214.9	10,420	15,890	Extrapolated
FXV-0809B-32D-H	284	101.8	131.8	214.9	10,430	15,900	Extrapolated
FXV-0809B-32D-J	321	101.8	131.8	214.9	10,483	15,953	Extrapolated
FXV-0809B-32D-K	348	101.8	131.8	214.9	10,498	15,969	Extrapolated
FXV-0809B-32D-L	390	101.8	131.8	214.9	10,630	16,100	Extrapolated
FXV-0809B-32D-M	421	101.8	131.8	214.9	10,693	16,163	Extrapolated
FXV-0809B-36D-G	252	101.8	131.8	214.9	10,860	16,512	Extrapolated
FXV-0809B-36D-H	297	101.8	131.8	214.9	10,870	16,523	UUT 1A
FXV-0809B-36D-J	336	101.8	131.8	214.9	10,923	16,575	Interpolated
FXV-0809B-36D-K	365	101.8	131.8	214.9	10,938	16,591	Interpolated
FXV-0809B-36D-L	409	101.8	131.8	214.9	11,070	16,722	Interpolated
FXV-0809B-36D-M	441	101.8	131.8	214.9	11,133	16,785	Interpolated
FXV-0809B-36T-G	237	101.8	131.8	214.9	11,066	16,718	Interpolated
FXV-0809B-36T-H	278	101.8	131.8	214.9	11,076	16,729	Interpolated
FXV-0809B-36T-J	313	101.8	131.8	214.9	11,129	16,781	Interpolated
FXV-0809B-36T-K	340	101.8	131.8	214.9	11,144	16,797	Interpolated
FXV-0809B-36T-L	380	101.8	131.8	214.9	11,276	16,928	Interpolated
FXV-0809B-36T-M	410	101.8	131.8	214.9	11,339	16,991	Interpolated
FXV-0812A-12D-J	254	101.8	167.8	150.3	8,411	14,170	Interpolated
FXV-0812A-12D-K	274	101.8	167.8	150.3	8,427	14,186	Interpolated
FXV-0812A-12D-L	302	101.8	167.8	150.3	8,558	14,317	Interpolated
FXV-0812A-12D-M	324	101.8	167.8	150.3	8,621	14,380	Interpolated
FXV-0812A-16D-J	283	101.8	167.8	150.3	8,996	14,999	Interpolated
FXV-0812A-16D-K	306	101.8	167.8	150.3	9,012	15,015	Interpolated
FXV-0812A-16D-L	340	101.8	167.8	150.3	9,143	15,146	Interpolated
FXV-0812A-16D-M	366	101.8	167.8	150.3	9,206	15,209	Interpolated
FXV-0812A-16Q-J	243	101.8	167.8	150.3	9,173	15,176	Interpolated
FXV-0812A-16Q-K	261	101.8	167.8	150.3	9,189	15,192	Interpolated
FXV-0812A-16Q-L	287	101.8	167.8	150.3	9,320	15,323	Interpolated
FXV-0812A-16Q-M	307	101.8	167.8	150.3	9,383	15,386	Interpolated
FXV-0812A-20D-J	304	101.8	167.8	150.3	9,582	15,828	Interpolated
FXV-0812A-20D-K	329	101.8	167.8	150.3	9,598	15,844	Interpolated
FXV-0812A-20D-L	368	101.8	167.8	150.3	9,729	15,975	Interpolated
FXV-0812A-20D-M	396	101.8	167.8	150.3	9,792	16,038	Interpolated
FXV-0812A-23Q-J	289	101.8	167.8	150.3	10,317	16,806	Interpolated
FXV-0812A-23Q-K	313	101.8	167.8	150.3	10,332	16,822	Interpolated
FXV-0812A-23Q-L	348	101.8	167.8	150.3	10,464	16,953	Interpolated
FXV-0812A-23Q-M	375	101.8	167.8	150.3	10,527	17,016	Interpolated
FXV-0812A-23T-J	303	101.8	167.8	150.3	10,360	16,850	Interpolated
FXV-0812A-23T-K	328	101.8	167.8	150.3	10,376	16,865	Interpolated
FXV-0812A-23T-L	366	101.8	167.8	150.3	10,507	16,997	Interpolated
FXV-0812A-23T-M	395	101.8	167.8	150.3	10,570	17,060	Interpolated
FXV-0812B-12D-J	293	101.8	167.8	182.3	9,061	14,908	Interpolated
FXV-0812B-12D-K	314	101.8	167.8	182.3	9,077	14,924	Interpolated
FXV-0812B-12D-L	345	101.8	167.8	182.3	9,208	15,055	Interpolated
FXV-0812B-12D-M	368	101.8	167.8	182.3	9,271	15,118	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0812B-12D-N	380	101.8	167.8	182.3	9,330	15,177	Interpolated
FXV-0812B-12D-O	395	101.8	167.8	182.3	9,382	15,229	Interpolated
FXV-0812B-16D-J	329	101.8	167.8	182.3	9,647	15,737	Interpolated
FXV-0812B-16D-K	354	101.8	167.8	182.3	9,663	15,753	Interpolated
FXV-0812B-16D-L	391	101.8	167.8	182.3	9,794	15,884	Interpolated
FXV-0812B-16D-M	418	101.8	167.8	182.3	9,857	15,947	Interpolated
FXV-0812B-16D-N	432	101.8	167.8	182.3	9,915	16,006	Interpolated
FXV-0812B-16D-O	450	101.8	167.8	182.3	9,968	16,058	Interpolated
FXV-0812B-16Q-J	275	101.8	167.8	182.3	9,824	15,914	Interpolated
FXV-0812B-16Q-K	295	101.8	167.8	182.3	9,840	15,930	Interpolated
FXV-0812B-16Q-L	324	101.8	167.8	182.3	9,971	16,061	Interpolated
FXV-0812B-16Q-M	345	101.8	167.8	182.3	10,034	16,124	Interpolated
FXV-0812B-16Q-N	356	101.8	167.8	182.3	10,092	16,183	Interpolated
FXV-0812B-16Q-O	370	101.8	167.8	182.3	10,145	16,235	Interpolated
FXV-0812B-20D-J	354	101.8	167.8	182.3	10,233	16,567	Interpolated
FXV-0812B-20D-K	382	101.8	167.8	182.3	10,249	16,582	Interpolated
FXV-0812B-20D-L	423	101.8	167.8	182.3	10,380	16,714	Interpolated
FXV-0812B-20D-M	454	101.8	167.8	182.3	10,443	16,777	Interpolated
FXV-0812B-20D-N	470	101.8	167.8	182.3	10,501	16,835	Interpolated
FXV-0812B-20D-O	490	101.8	167.8	182.3	10,554	16,887	Interpolated
FXV-0812B-23Q-J	335	101.8	167.8	182.3	10,967	17,544	Interpolated
FXV-0812B-23Q-K	360	101.8	167.8	182.3	10,983	17,560	Interpolated
FXV-0812B-23Q-L	398	101.8	167.8	182.3	11,114	17,691	Interpolated
FXV-0812B-23Q-M	426	101.8	167.8	182.3	11,177	17,754	Interpolated
FXV-0812B-23Q-N	441	101.8	167.8	182.3	11,235	17,812	Interpolated
FXV-0812B-23Q-O	460	101.8	167.8	182.3	11,288	17,865	Interpolated
FXV-0812B-24D-J	395	101.8	167.8	216.9	11,426	18,156	Interpolated
FXV-0812B-24D-K	430	101.8	167.8	216.9	11,442	18,171	Interpolated
FXV-0812B-24D-L	482	101.8	167.8	216.9	11,573	18,303	Interpolated
FXV-0812B-24Q-J	355	101.8	167.8	216.9	11,598	18,328	Interpolated
FXV-0812B-24Q-K	384	101.8	167.8	216.9	11,614	18,344	Interpolated
FXV-0812B-24Q-L	428	101.8	167.8	216.9	11,745	18,475	Interpolated
FXV-0812B-24Q-M	461	101.8	167.8	216.9	11,808	18,538	Interpolated
FXV-0812B-24Q-N	478	101.8	167.8	216.9	11,867	18,596	Interpolated
FXV-0812B-24Q-O	500	101.8	167.8	216.9	11,919	18,649	Interpolated
FXV-0812B-24T-J	373	101.8	167.8	216.9	11,642	18,372	Interpolated
FXV-0812B-24T-K	405	101.8	167.8	216.9	11,658	18,388	Interpolated
FXV-0812B-24T-L	453	101.8	167.8	216.9	11,789	18,519	Interpolated
FXV-0812B-24T-M	489	101.8	167.8	216.9	11,852	18,582	Interpolated
FXV-0812B-24T-N	507	101.8	167.8	216.9	11,911	18,640	Interpolated
FXV-0812B-24T-O	531	101.8	167.8	216.9	11,963	18,693	Interpolated
FXV-0812B-28D-J	410	101.8	167.8	216.9	12,012	18,985	Interpolated
FXV-0812B-28D-K	447	101.8	167.8	216.9	12,028	19,001	Interpolated
FXV-0812B-30T-J	397	101.8	167.8	216.9	12,577	19,672	Interpolated
FXV-0812B-30T-K	432	101.8	167.8	216.9	12,593	19,688	Interpolated
FXV-0812B-30T-L	485	101.8	167.8	216.9	12,724	19,819	Interpolated
FXV-0812B-30T-M	525	101.8	167.8	216.9	12,787	19,882	Interpolated
FXV-0812B-30T-N	546	101.8	167.8	216.9	12,846	19,940	Interpolated
FXV-0812B-30T-O	573	101.8	167.8	216.9	12,898	19,993	Interpolated
FXV-0812B-32Q-J	388	101.8	167.8	216.9	12,761	19,978	Interpolated
FXV-0812B-32Q-K	421	101.8	167.8	216.9	12,777	19,993	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0812B-32Q-L	472	101.8	167.8	216.9	12,908	20,125	Interpolated
FXV-0812B-32Q-M	511	101.8	167.8	216.9	12,971	20,188	Interpolated
FXV-0812B-32Q-N	531	101.8	167.8	216.9	13,030	20,246	Interpolated
FXV-0812B-32Q-O	557	101.8	167.8	216.9	13,082	20,298	Interpolated
FXV-0812B-36T-J	414	101.8	167.8	216.9	13,390	20,849	Interpolated
FXV-0812B-36T-K	452	101.8	167.8	216.9	13,406	20,865	Interpolated
FXV-0812B-36T-L	509	101.8	167.8	216.9	13,537	20,996	Interpolated
FXV-0812B-36T-M	552	101.8	167.8	216.9	13,600	21,059	Interpolated
FXV-0812B-36T-N	574	101.8	167.8	216.9	13,658	21,118	Interpolated
FXV-0812B-36T-O	603	101.8	167.8	216.9	13,711	21,170	Interpolated
FXV-0818A-12D-K	465	101.8	239.8	156.3	12,336	21,212	Interpolated
FXV-0818A-12D-L	511	101.8	239.8	156.3	12,519	21,396	Interpolated
FXV-0818A-12D-M	546	101.8	239.8	156.3	12,598	21,475	Interpolated
FXV-0818A-16D-K	512	101.8	239.8	156.3	13,214	22,455	Interpolated
FXV-0818A-16Q-K	453	101.8	239.8	156.3	13,391	22,632	Interpolated
FXV-0818A-16Q-L	498	101.8	239.8	156.3	13,574	22,816	Interpolated
FXV-0818A-16Q-M	532	101.8	239.8	156.3	13,653	22,894	Interpolated
FXV-0818A-23Q-K	530	101.8	239.8	156.3	15,124	25,095	Interpolated
FXV-0818A-23Q-L	586	101.8	239.8	156.3	15,308	25,279	Interpolated
FXV-0818A-23Q-M	628	101.8	239.8	156.3	15,387	25,358	Interpolated
FXV-0818A-23T-K	548	101.8	239.8	156.3	15,168	25,140	Interpolated
FXV-0818A-23T-L	608	101.8	239.8	156.3	15,352	25,323	Interpolated
FXV-0818A-23T-M	652	101.8	239.8	156.3	15,431	25,402	Interpolated
FXV-0818A-24Q-K	568	101.8	239.8	190.9	16,151	26,333	Interpolated
FXV-0818A-24Q-L	635	101.8	239.8	190.9	16,335	26,517	Interpolated
FXV-0818A-24Q-M	685	101.8	239.8	190.9	16,414	26,596	Interpolated
FXV-0818A-24T-K	589	101.8	239.8	190.9	16,196	26,378	Interpolated
FXV-0818A-24T-L	660	101.8	239.8	190.9	16,379	26,561	Interpolated
FXV-0818A-24T-M	713	101.8	239.8	190.9	16,458	26,640	Interpolated
FXV-0818A-32Q-K	612	101.8	239.8	190.9	17,899	28,811	Interpolated
FXV-0818A-32Q-L	687	101.8	239.8	190.9	18,083	28,995	Interpolated
FXV-0818A-32Q-M	744	101.8	239.8	190.9	18,162	29,074	Interpolated
FXV-0818B-12D-K	528	101.8	239.8	188.3	13,221	22,578	Interpolated
FXV-0818B-12D-L	576	101.8	239.8	188.3	13,405	22,762	Interpolated
FXV-0818B-12D-M	612	101.8	239.8	188.3	13,484	22,841	Interpolated
FXV-0818B-12D-N	638	101.8	239.8	188.3	13,687	23,044	Interpolated
FXV-0818B-12D-O	652	101.8	239.8	188.3	13,739	23,096	Interpolated
FXV-0818B-16Q-K	511	101.8	239.8	188.3	14,276	23,998	Interpolated
FXV-0818B-16Q-L	558	101.8	239.8	188.3	14,460	24,182	Interpolated
FXV-0818B-16Q-M	593	101.8	239.8	188.3	14,538	24,260	Interpolated
FXV-0818B-16Q-N	619	101.8	239.8	188.3	14,741	24,464	Interpolated
FXV-0818B-16Q-O	633	101.8	239.8	188.3	14,794	24,516	Interpolated
FXV-0818B-23Q-K	599	101.8	239.8	188.3	16,009	26,461	Interpolated
FXV-0818B-23Q-L	658	101.8	239.8	188.3	16,193	26,645	Interpolated
FXV-0818B-23Q-M	702	101.8	239.8	188.3	16,272	26,724	Interpolated
FXV-0818B-23Q-N	734	101.8	239.8	188.3	16,475	26,927	Interpolated
FXV-0818B-23Q-O	752	101.8	239.8	188.3	16,527	26,979	Interpolated
FXV-0818B-23T-K	623	101.8	239.8	188.3	16,054	26,506	Interpolated
FXV-0818B-23T-L	685	101.8	239.8	188.3	16,238	26,690	Interpolated
FXV-0818B-23T-M	730	101.8	239.8	188.3	16,316	26,768	Interpolated
FXV-0818B-23T-N	764	101.8	239.8	188.3	16,519	26,971	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-0818B-23T-O	783	101.8	239.8	188.3	16,572	27,024	Interpolated
FXV-0818B-24Q-K	650	101.8	239.8	222.9	17,036	27,748	Interpolated
FXV-0818B-24Q-L	721	101.8	239.8	222.9	17,220	27,932	Interpolated
FXV-0818B-24Q-M	773	101.8	239.8	222.9	17,299	28,011	Interpolated
FXV-0818B-24Q-N	813	101.8	239.8	222.9	17,502	28,214	Interpolated
FXV-0818B-24Q-O	835	101.8	239.8	222.9	17,554	28,267	Interpolated
FXV-0818B-24T-K	677	101.8	239.8	222.9	17,081	27,793	Interpolated
FXV-0818B-24T-L	751	101.8	239.8	222.9	17,265	27,977	Interpolated
FXV-0818B-24T-M	806	101.8	239.8	222.9	17,344	28,056	Interpolated
FXV-0818B-24T-N	847	101.8	239.8	222.9	17,547	28,259	Interpolated
FXV-0818B-24T-O	870	101.8	239.8	222.9	17,599	28,311	Interpolated
FXV-0818B-30T-K	716	101.8	239.8	222.9	18,455	29,714	Interpolated
FXV-0818B-32Q-K	703	101.8	239.8	222.9	18,785	30,227	Interpolated
FXV-0818B-32Q-L	783	101.8	239.8	222.9	18,969	30,411	Interpolated
FXV-0818B-32Q-M	842	101.8	239.8	222.9	19,047	30,489	Interpolated
FXV-0818B-32Q-N	886	101.8	239.8	222.9	19,250	30,692	Interpolated
FXV-0818B-32Q-O	911	101.8	239.8	222.9	19,303	30,745	Interpolated
FXV-1212B-12D-K	377	142.0	167.8	182.8	11,430	19,843	Interpolated
FXV-1212B-12D-M	446	142.0	167.8	182.8	11,624	20,037	Interpolated
FXV-1212B-12D-N	469	142.0	167.8	182.8	11,655	20,069	Interpolated
FXV-1212B-12D-O	489	142.0	167.8	182.8	11,753	20,166	Interpolated
FXV-1212B-16D-K	424	142.0	167.8	182.8	12,394	21,208	Interpolated
FXV-1212B-16D-M	505	142.0	167.8	182.8	12,588	21,402	Interpolated
FXV-1212B-16D-N	533	142.0	167.8	182.8	12,620	21,434	Interpolated
FXV-1212B-16D-O	556	142.0	167.8	182.8	12,717	21,531	Interpolated
FXV-1212B-20D-K	457	142.0	167.8	182.8	13,359	22,573	Interpolated
FXV-1212B-20D-M	548	142.0	167.8	182.8	13,553	22,768	Interpolated
FXV-1212B-20D-N	579	142.0	167.8	182.8	13,584	22,799	Interpolated
FXV-1212B-20D-O	605	142.0	167.8	182.8	13,682	22,897	Interpolated
FXV-1212B-23Q-K	435	142.0	167.8	182.8	14,541	24,156	Interpolated
FXV-1212B-23Q-M	520	142.0	167.8	182.8	14,735	24,351	Interpolated
FXV-1212B-23Q-N	548	142.0	167.8	182.8	14,767	24,382	Interpolated
FXV-1212B-23Q-O	573	142.0	167.8	182.8	14,865	24,480	Interpolated
FXV-1212B-23T-K	456	142.0	167.8	182.8	14,594	24,210	Interpolated
FXV-1212B-23T-L	508	142.0	167.8	182.8	14,726	24,341	Interpolated
FXV-1212B-23T-M	547	142.0	167.8	182.8	14,789	24,404	Interpolated
FXV-1212B-23T-N	578	142.0	167.8	182.8	14,820	24,436	Interpolated
FXV-1212B-23T-O	604	142.0	167.8	182.8	14,918	24,534	Interpolated
FXV-1212B-24D-K	511	142.0	167.8	217.4	15,149	24,764	Interpolated
FXV-1212B-24D-M	627	142.0	167.8	217.4	15,343	24,959	Interpolated
FXV-1212B-24D-N	667	142.0	167.8	217.4	15,375	24,990	Interpolated
FXV-1212B-24D-O	701	142.0	167.8	217.4	15,473	25,088	Interpolated
FXV-1212B-24T-K	485	142.0	167.8	217.4	15,460	25,075	Interpolated
FXV-1212B-24T-M	591	142.0	167.8	217.4	15,654	25,270	Interpolated
FXV-1212B-24T-N	627	142.0	167.8	217.4	15,686	25,301	Interpolated
FXV-1212B-24T-O	659	142.0	167.8	217.4	15,784	25,399	Interpolated
FXV-1212B-28D-K	531	142.0	167.8	217.4	16,113	26,130	Interpolated
FXV-1212B-28D-M	654	142.0	167.8	217.4	16,308	26,324	Interpolated
FXV-1212B-28D-N	696	142.0	167.8	217.4	16,339	26,355	Interpolated
FXV-1212B-28D-O	732	142.0	167.8	217.4	16,437	26,453	Interpolated
FXV-1212C-12D-K	401	142.0	167.8	198.8	11,809	20,222	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-1212C-12D-L	441	142.0	167.8	198.8	11,940	20,354	Interpolated
FXV-1212C-12D-M	471	142.0	167.8	198.8	12,003	20,417	Interpolated
FXV-1212C-12D-N	495	142.0	167.8	198.8	12,035	20,448	Interpolated
FXV-1212C-12D-O	515	142.0	167.8	198.8	12,133	20,546	Interpolated
FXV-1212C-12D-P	555	142.0	167.8	198.8	12,301	20,714	Interpolated
FXV-1212C-16D-K	450	142.0	167.8	198.8	12,773	21,587	Interpolated
FXV-1212C-16D-L	498	142.0	167.8	198.8	12,905	21,719	Interpolated
FXV-1212C-16D-M	534	142.0	167.8	198.8	12,968	21,782	Interpolated
FXV-1212C-16D-N	562	142.0	167.8	198.8	12,999	21,813	Interpolated
FXV-1212C-16D-O	586	142.0	167.8	198.8	13,097	21,911	Interpolated
FXV-1212C-16D-P	633	142.0	167.8	198.8	13,265	22,079	Interpolated
FXV-1212C-16Q-K	380	142.0	167.8	198.8	13,038	21,852	Interpolated
FXV-1212C-16Q-L	418	142.0	167.8	198.8	13,169	21,984	Interpolated
FXV-1212C-16Q-M	446	142.0	167.8	198.8	13,232	22,047	Interpolated
FXV-1212C-16Q-N	468	142.0	167.8	198.8	13,264	22,078	Interpolated
FXV-1212C-16Q-O	487	142.0	167.8	198.8	13,362	22,176	Interpolated
FXV-1212C-16Q-P	524	142.0	167.8	198.8	13,530	22,344	Interpolated
FXV-1212C-20D-K	486	142.0	167.8	198.8	13,738	22,953	Interpolated
FXV-1212C-20D-L	539	142.0	167.8	198.8	13,870	23,084	Interpolated
FXV-1212C-20D-M	579	142.0	167.8	198.8	13,933	23,147	Interpolated
FXV-1212C-20D-N	611	142.0	167.8	198.8	13,964	23,179	Interpolated
FXV-1212C-20D-O	637	142.0	167.8	198.8	14,062	23,277	Interpolated
FXV-1212C-20D-P	690	142.0	167.8	198.8	14,230	23,445	Interpolated
FXV-1212C-23Q-K	462	142.0	167.8	198.8	14,921	24,536	Interpolated
FXV-1212C-23Q-L	512	142.0	167.8	198.8	15,052	24,667	Interpolated
FXV-1212C-23Q-M	548	142.0	167.8	198.8	15,115	24,730	Interpolated
FXV-1212C-23Q-N	578	142.0	167.8	198.8	15,146	24,762	Interpolated
FXV-1212C-23Q-O	602	142.0	167.8	198.8	15,244	24,860	Interpolated
FXV-1212C-23Q-P	651	142.0	167.8	198.8	15,412	25,028	Interpolated
FXV-1212C-23T-K	484	142.0	167.8	198.8	14,974	24,590	Interpolated
FXV-1212C-23T-L	537	142.0	167.8	198.8	15,105	24,721	Interpolated
FXV-1212C-23T-M	577	142.0	167.8	198.8	15,168	24,784	Interpolated
FXV-1212C-23T-N	609	142.0	167.8	198.8	15,200	24,815	Interpolated
FXV-1212C-23T-O	635	142.0	167.8	198.8	15,298	24,913	Interpolated
FXV-1212C-23T-P	688	142.0	167.8	198.8	15,466	25,081	Interpolated
FXV-1212C-24D-K	547	142.0	167.8	233.4	15,529	25,326	Interpolated
FXV-1212C-24D-L	615	142.0	167.8	233.4	15,660	25,457	Interpolated
FXV-1212C-24D-M	666	142.0	167.8	233.4	15,723	25,520	Interpolated
FXV-1212C-24D-N	708	142.0	167.8	233.4	15,754	25,552	Interpolated
FXV-1212C-24D-O	742	142.0	167.8	233.4	15,852	25,650	Interpolated
FXV-1212C-24D-P	812	142.0	167.8	233.4	16,020	25,818	Interpolated
FXV-1212C-24Q-K	494	142.0	167.8	233.4	15,786	25,583	Interpolated
FXV-1212C-24Q-L	552	142.0	167.8	233.4	15,917	25,714	Interpolated
FXV-1212C-24Q-M	596	142.0	167.8	233.4	15,980	25,777	Interpolated
FXV-1212C-24Q-N	631	142.0	167.8	233.4	16,011	25,809	Interpolated
FXV-1212C-24Q-O	660	142.0	167.8	233.4	16,109	25,907	Interpolated
FXV-1212C-24Q-P	719	142.0	167.8	233.4	16,277	26,075	Interpolated
FXV-1212C-24T-K	517	142.0	167.8	233.4	15,840	25,637	Interpolated
FXV-1212C-24T-L	579	142.0	167.8	233.4	15,971	25,768	Interpolated
FXV-1212C-24T-M	626	142.0	167.8	233.4	16,034	25,831	Interpolated
FXV-1212C-24T-N	664	142.0	167.8	233.4	16,065	25,863	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-1212C-24T-O	696	142.0	167.8	233.4	16,163	25,961	Interpolated
FXV-1212C-24T-P	760	142.0	167.8	233.4	16,331	26,129	Interpolated
FXV-1212C-28D-K	569	142.0	167.8	233.4	16,493	26,691	Interpolated
FXV-1212C-28D-L	641	142.0	167.8	233.4	16,624	26,822	Interpolated
FXV-1212C-28D-M	695	142.0	167.8	233.4	16,687	26,885	Interpolated
FXV-1212C-28D-N	739	142.0	167.8	233.4	16,719	26,917	Interpolated
FXV-1212C-28D-O	776	142.0	167.8	233.4	16,817	27,015	Interpolated
FXV-1212C-30T-K	551	142.0	167.8	233.4	17,379	27,777	Interpolated
FXV-1212C-30T-L	620	142.0	167.8	233.4	17,510	27,909	Interpolated
FXV-1212C-30T-M	672	142.0	167.8	233.4	17,573	27,972	Interpolated
FXV-1212C-30T-N	714	142.0	167.8	233.4	17,605	28,003	Interpolated
FXV-1212C-30T-O	749	142.0	167.8	233.4	17,703	28,101	Interpolated
FXV-1212C-30T-P	821	142.0	167.8	233.4	17,871	28,269	Interpolated
FXV-1212C-32D-K	586	142.0	167.8	233.4	17,458	28,057	Interpolated
FXV-1212C-32D-L	661	142.0	167.8	233.4	17,589	28,188	Interpolated
FXV-1212C-32D-M	718	142.0	167.8	233.4	17,652	28,251	Interpolated
FXV-1212C-32Q-K	541	142.0	167.8	233.4	17,700	28,299	Interpolated
FXV-1212C-32Q-L	608	142.0	167.8	233.4	17,831	28,430	Interpolated
FXV-1212C-32Q-M	658	142.0	167.8	233.4	17,894	28,493	Interpolated
FXV-1212C-32Q-N	698	142.0	167.8	233.4	17,926	28,525	Interpolated
FXV-1212C-32Q-O	732	142.0	167.8	233.4	18,024	28,623	Interpolated
FXV-1212C-32Q-P	800	142.0	167.8	233.4	18,192	28,791	Interpolated
FXV-1212C-36D-K	600	142.0	167.8	233.4	18,423	29,423	Interpolated
FXV-1212C-36D-L	679	142.0	167.8	233.4	18,554	29,554	Interpolated
FXV-1212C-36T-K	577	142.0	167.8	233.4	18,717	29,716	Interpolated
FXV-1212C-36T-L	651	142.0	167.8	233.4	18,848	29,848	Interpolated
FXV-1212C-36T-M	707	142.0	167.8	233.4	18,911	29,911	Interpolated
FXV-1212C-36T-N	752	142.0	167.8	233.4	18,943	29,942	Interpolated
FXV-1212C-36T-O	789	142.0	167.8	233.4	19,040	30,040	Interpolated
FXV-1212C-36T-P	866	142.0	167.8	233.4	19,208	30,208	Interpolated
FXV-1218B-12D-K	631	142.0	245.8	188.8	16,979	31,371	Interpolated
FXV-1218B-12D-L	699	142.0	245.8	188.8	17,163	31,554	Interpolated
FXV-1218B-12D-M	749	142.0	245.8	188.8	17,242	31,633	Interpolated
FXV-1218B-12D-N	801	142.0	245.8	188.8	17,404	31,796	Interpolated
FXV-1218B-12D-O	823	142.0	245.8	188.8	17,525	31,916	Interpolated
FXV-1218B-16D-K	695	142.0	245.8	188.8	18,425	33,417	Interpolated
FXV-1218B-16D-L	772	142.0	245.8	188.8	18,608	33,601	Interpolated
FXV-1218B-16D-M	830	142.0	245.8	188.8	18,687	33,680	Interpolated
FXV-1218B-16D-N	890	142.0	245.8	188.8	18,850	33,843	Interpolated
FXV-1218B-16Q-K	618	142.0	245.8	188.8	18,690	33,682	Interpolated
FXV-1218B-16Q-L	684	142.0	245.8	188.8	18,873	33,866	Interpolated
FXV-1218B-16Q-M	733	142.0	245.8	188.8	18,952	33,945	Interpolated
FXV-1218B-16Q-N	784	142.0	245.8	188.8	19,115	34,107	Interpolated
FXV-1218B-16Q-O	805	142.0	245.8	188.8	19,235	34,228	Interpolated
FXV-1218B-20D-K	738	142.0	245.8	188.8	19,871	35,464	Interpolated
FXV-1218B-23Q-K	721	142.0	245.8	188.8	21,544	37,739	Interpolated
FXV-1218B-23Q-L	803	142.0	245.8	188.8	21,728	37,923	Interpolated
FXV-1218B-23Q-M	864	142.0	245.8	188.8	21,806	38,001	Interpolated
FXV-1218B-23Q-N	927	142.0	245.8	188.8	21,969	38,164	Interpolated
FXV-1218B-23Q-O	954	142.0	245.8	188.8	22,090	38,285	Interpolated
FXV-1218B-23T-K	752	142.0	245.8	188.8	21,599	37,794	Interpolated

Special Seismic Certification**Certified Components: FXV Units****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers**Tested Product Construction:** Galvanized carbon steel or stainless steel**Mounting Description:** Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-1218B-23T-L	839	142.0	245.8	188.8	21,782	37,977	Interpolated
FXV-1218B-23T-M	905	142.0	245.8	188.8	21,861	38,056	Interpolated
FXV-1218B-23T-N	972	142.0	245.8	188.8	22,024	38,219	Interpolated
FXV-1218B-23T-O	1001	142.0	245.8	188.8	22,145	38,339	Interpolated
FXV-1218B-24Q-K	764	142.0	245.8	223.4	22,678	39,224	Interpolated
FXV-1218B-24Q-L	859	142.0	245.8	223.4	22,862	39,407	Interpolated
FXV-1218B-24Q-M	931	142.0	245.8	223.4	22,941	39,486	Interpolated
FXV-1218B-24Q-N	1007	142.0	245.8	223.4	23,103	39,649	Interpolated
FXV-1218B-24Q-O	1039	142.0	245.8	223.4	23,224	39,769	Interpolated
FXV-1218B-24T-K	790	142.0	245.8	223.4	22,733	39,279	Interpolated
FXV-1218B-24T-L	891	142.0	245.8	223.4	22,917	39,462	Interpolated
FXV-1218B-24T-M	967	142.0	245.8	223.4	22,996	39,541	Interpolated
FXV-1218B-24T-N	1047	142.0	245.8	223.4	23,159	39,704	Interpolated
FXV-1218B-24T-O	1081	142.0	245.8	223.4	23,279	39,825	Interpolated
FXV-1218C-12D-K	671	142.0	245.8	204.8	17,492	32,218	Interpolated
FXV-1218C-12D-L	741	142.0	245.8	204.8	17,676	32,402	Interpolated
FXV-1218C-12D-M	792	142.0	245.8	204.8	17,754	32,480	Interpolated
FXV-1218C-12D-N	845	142.0	245.8	204.8	17,917	32,643	Interpolated
FXV-1218C-12D-O	867	142.0	245.8	204.8	18,038	32,764	Interpolated
FXV-1218C-12D-P	935	142.0	245.8	204.8	18,269	32,995	Interpolated
FXV-1218C-16D-K	737	142.0	245.8	204.8	18,937	34,264	Interpolated
FXV-1218C-16D-L	817	142.0	245.8	204.8	19,121	34,448	Interpolated
FXV-1218C-16D-M	876	142.0	245.8	204.8	19,200	34,527	Interpolated
FXV-1218C-16Q-K	655	142.0	245.8	204.8	19,202	34,529	Interpolated
FXV-1218C-16Q-L	723	142.0	245.8	204.8	19,386	34,713	Interpolated
FXV-1218C-16Q-M	773	142.0	245.8	204.8	19,465	34,792	Interpolated
FXV-1218C-16Q-N	825	142.0	245.8	204.8	19,628	34,955	Interpolated
FXV-1218C-16Q-O	847	142.0	245.8	204.8	19,748	35,075	Interpolated
FXV-1218C-16Q-P	913	142.0	245.8	204.8	19,979	35,306	Interpolated
FXV-1218C-20D-K	786	142.0	245.8	204.8	20,383	36,311	Interpolated
FXV-1218C-23Q-K	764	142.0	245.8	204.8	22,057	38,586	Interpolated
FXV-1218C-23Q-L	849	142.0	245.8	204.8	22,241	38,770	Interpolated
FXV-1218C-23Q-M	911	142.0	245.8	204.8	22,319	38,848	Interpolated
FXV-1218C-23Q-N	976	142.0	245.8	204.8	22,482	39,011	Interpolated
FXV-1218C-23Q-O	1003	142.0	245.8	204.8	22,603	39,132	Interpolated
FXV-1218C-23Q-P	1086	142.0	245.8	204.8	22,834	39,363	Interpolated
FXV-1218C-24Q-K	814	142.0	245.8	239.4	23,191	40,030	Interpolated
FXV-1218C-24Q-L	913	142.0	245.8	239.4	23,375	40,214	Interpolated
FXV-1218C-24Q-M	987	142.0	245.8	239.4	23,453	40,293	Interpolated
FXV-1218C-24Q-N	1065	142.0	245.8	239.4	23,616	40,455	Interpolated
FXV-1218C-24Q-O	1097	142.0	245.8	239.4	23,737	40,576	Interpolated
FXV-1218C-24Q-P	1199	142.0	245.8	239.4	23,968	40,807	Interpolated
FXV-1218C-24T-K	845	142.0	245.8	239.4	23,246	40,085	Interpolated
FXV-1218C-24T-L	949	142.0	245.8	239.4	23,430	40,269	Interpolated
FXV-1218C-24T-M	1028	142.0	245.8	239.4	23,509	40,348	Interpolated
FXV-1218C-24T-N	1109	142.0	245.8	239.4	23,671	40,511	Interpolated
FXV-1218C-24T-O	1143	142.0	245.8	239.4	23,792	40,631	Interpolated
FXV-1218C-24T-P	1249	142.0	245.8	239.4	24,023	40,862	Interpolated
FXV-1218C-30T-K	892	142.0	245.8	239.4	25,508	43,249	Interpolated
FXV-1218C-30T-L	1006	142.0	245.8	239.4	25,692	43,433	Interpolated
FXV-1218C-30T-M	1092	142.0	245.8	239.4	25,771	43,511	Interpolated

Special Seismic Certification
Certified Components: FXV Units



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

Base FXV Model No. ¹	GPM @95/85/78	Base Unit Dimensions ² (in)			Shipping Weight ³ (lb)	Maximum Operating Weight ³ (lb)	Certification Basis
		Width	Length	Height			
FXV-1218C-30T-N	1180	142.0	245.8	239.4	25,933	43,674	Interpolated
FXV-1218C-30T-O	1218	142.0	245.8	239.4	26,054	43,795	Interpolated
FXV-1218C-32Q-K	879	142.0	245.8	239.4	26,070	44,111	Interpolated
FXV-1218C-32Q-L	991	142.0	245.8	239.4	26,254	44,295	Interpolated
FXV-1218C-32Q-M	1074	142.0	245.8	239.4	26,332	44,374	Interpolated
FXV-1218C-32Q-N	1162	142.0	245.8	239.4	26,495	44,536	Interpolated
FXV-1218C-32Q-O	1198	142.0	245.8	239.4	26,616	44,657	Interpolated
FXV-1218C-32Q-P	1312	142.0	245.8	239.4	26,847	44,888	Interpolated
FXV-1218C-36T-K	926	142.0	245.8	239.4	27,567	46,210	Interpolated
FXV-1218C-36T-L	1047	142.0	245.8	239.4	27,751	46,394	UUT 2A

Notes:

- Actual model numbers may include suffixes to indicate options or accessories
- Base unit dimensions do not include access options or accessories
- Shipping and operating weight values do not include access options or accessories

Special Seismic Certification

Certified Components: CXVB Units



Manufacturer: Baltimore Aircoil Company

Product Line: CXVB Evaporative Condensers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

CXVB Model No.	Tons of NH3	No. of Cells	Base Unit Dimensions ¹ (in)			Shipping Weight ² (lb)	Operating Weight ² (lb)	Certification Basis
			Width	Length	Height			
CXVB-075-0806-3	75	1	101.8	89.8	150.3	5,005	7,487	Extrapolated
CXVB-088-0806-7.5	88	1	101.8	89.8	150.3	5,068	7,550	Extrapolated
CXVB-092-0806-10	92	1	101.8	89.8	150.3	5,083	7,566	Extrapolated
CXVB-098-0806-10	98	1	101.8	89.8	150.3	5,377	7,877	Extrapolated
CXVB-094-0806-3	94	1	101.8	89.8	184.9	7,528	10,118	Extrapolated
CXVB-087-0806-3	87	1	101.8	89.8	182.3	5,726	8,226	Extrapolated
CXVB-095-0806-5	95	1	101.8	89.8	182.3	5,737	8,237	Extrapolated
CXVB-102-0806-7.5	102	1	101.8	89.8	182.3	5,789	8,289	Extrapolated
CXVB-106-0806-10	106	1	101.8	89.8	182.3	5,805	8,305	Extrapolated
CXVB-111-0806-10	111	1	101.8	89.8	182.3	6,099	8,617	Extrapolated
CXVB-123-0806-10	123	1	101.8	89.8	216.9	6,948	9,484	Extrapolated
CXVB-137-0806-15	137	1	101.8	89.8	216.9	7,973	10,563	Extrapolated
CXVB-106-0806-3	106	1	101.8	89.8	216.9	7,956	10,546	Extrapolated
CXVB-117-0806-5	117	1	101.8	89.8	216.9	7,967	10,556	Extrapolated
CXVB-126-0809-3	126	1	101.8	131.8	182.9	9,875	13,844	Extrapolated
CXVB-113-0809-3	113	1	101.8	131.8	180.3	7,546	11,583	Extrapolated
CXVB-124-0809-5	124	1	101.8	131.8	180.3	7,557	11,594	Extrapolated
CXVB-134-0809-7.5	134	1	101.8	131.8	180.3	7,609	11,646	Extrapolated
CXVB-144-0809-7.5	144	1	101.8	131.8	180.3	8,049	12,113	Extrapolated
CXVB-151-0809-10	151	1	101.8	131.8	180.3	8,065	12,129	Extrapolated
CXVB-138-0809-5	138	1	101.8	131.8	180.3	8,436	12,527	Extrapolated
CXVB-176-0809-20	176	1	101.8	131.8	180.3	8,699	12,789	Extrapolated
CXVB-163-0809-7.5	163	1	101.8	131.8	214.9	9,603	13,774	Extrapolated
CXVB-138-0809-3	138	1	101.8	131.8	214.9	9,980	14,178	Extrapolated
CXVB-152-0809-5	152	1	101.8	131.8	214.9	9,990	14,188	Extrapolated
CXVB-165-0809-7.5	165	1	101.8	131.8	214.9	10,043	14,241	Extrapolated
CXVB-190-0809-15	190	1	101.8	131.8	214.9	10,190	14,388	Extrapolated
CXVB-141-0809-3	141	1	101.8	131.8	214.9	10,860	15,111	Extrapolated
CXVB-158-0809-5	158	1	101.8	131.8	214.9	10,870	15,122	UUT 1B
CXVB-207-0809-20	207	1	101.8	131.8	214.9	11,133	15,384	Interpolated
CXVB-204-0812-7.5	204	1	101.8	167.8	184.9	12,740	18,091	Interpolated
CXVB-172-0812-7.5	172	1	101.8	167.8	182.3	9,061	14,286	Interpolated
CXVB-193-0812-15	193	1	101.8	167.8	182.3	9,208	14,433	Interpolated
CXVB-195-0812-10	195	1	101.8	167.8	182.3	9,663	14,923	Interpolated
CXVB-207-0812-15	207	1	101.8	167.8	182.3	9,794	15,054	Interpolated
CXVB-217-0812-15	217	1	101.8	167.8	182.3	10,380	15,676	Interpolated
CXVB-227-0812-20	227	1	101.8	167.8	182.3	10,443	15,739	Interpolated
CXVB-239-0812-30	239	1	101.8	167.8	182.3	10,554	15,850	Interpolated
CXVB-238-0812-15	238	1	101.8	167.8	216.9	11,573	17,057	Interpolated
CXVB-264-0812-30	264	1	101.8	167.8	216.9	11,747	17,231	Interpolated
CXVB-216-0812-7.5	216	1	101.8	167.8	216.9	11,642	17,127	Interpolated
CXVB-259-0812-20	259	1	101.8	167.8	216.9	12,222	17,742	Interpolated
CXVB-221-0812-7.5	221	1	101.8	167.8	216.9	12,577	18,115	Interpolated
CXVB-237-0812-10	237	1	101.8	167.8	216.9	12,593	18,131	Interpolated
CXVB-270-0812-25	270	1	101.8	167.8	216.9	12,866	18,422	Interpolated
CXVB-279-0812-30	279	1	101.8	167.8	216.9	12,919	18,475	Interpolated
CXVB-284-0812-30	284	1	101.8	167.8	216.9	13,505	19,097	Interpolated

Special Seismic Certification

Certified Components: CXVB Units



Manufacturer: Baltimore Aircoil Company

Product Line: CXVB Evaporative Condensers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

CXVB Model No.	Tons of NH3	No. of Cells	Base Unit Dimensions ¹ (in)			Shipping Weight ² (lb)	Operating Weight ² (lb)	Certification Basis
			Width	Length	Height			
CXVB-226-0812-7.5	226	1	101.8	167.8	216.9	13,390	18,981	Interpolated
CXVB-241-0812-10	241	1	101.8	167.8	216.9	13,406	18,997	Interpolated
CXVB-249-0818-22.5	249	1	101.8	239.8	156.3	12,519	20,462	Interpolated
CXVB-260-0818-30	260	1	101.8	239.8	156.3	12,598	20,541	Interpolated
CXVB-248-0818-15	248	1	101.8	239.8	188.3	13,221	21,644	Interpolated
CXVB-268-0818-15	268	1	101.8	239.8	188.3	14,099	22,576	Interpolated
CXVB-281-0818-15	281	1	101.8	239.8	188.3	14,977	23,507	Interpolated
CXVB-298-0818-22.5	298	1	101.8	239.8	188.3	15,161	23,691	Interpolated
CXVB-310-0818-30	310	1	101.8	239.8	188.3	15,240	23,770	Interpolated
CXVB-310-0818-15	310	1	101.8	239.8	222.9	16,865	25,709	Interpolated
CXVB-329-0818-22.5	329	1	101.8	239.8	222.9	17,049	25,893	Interpolated
CXVB-345-0818-30	345	1	101.8	239.8	222.9	17,128	25,972	Interpolated
CXVB-353-0818-37.5	353	1	101.8	239.8	222.9	17,331	26,175	Interpolated
CXVB-321-0818-15	321	1	101.8	239.8	222.9	17,081	25,925	Interpolated
CXVB-368-0818-37.5	368	1	101.8	239.8	222.9	17,547	26,391	Interpolated
CXVB-357-0818-22.5	357	1	101.8	239.8	222.9	18,638	27,563	Interpolated
CXVB-373-0818-30	373	1	101.8	239.8	222.9	18,717	27,642	Interpolated
CXVB-395-0818-45	395	1	101.8	239.8	222.9	18,973	27,897	Interpolated
CXVB-327-0818-15	327	1	101.8	239.8	222.9	19,500	28,505	Interpolated
CXVB-342-0818-15	342	1	101.8	239.8	222.9	19,705	28,710	Interpolated
CXVB-387-0818-30	387	1	101.8	239.8	222.9	19,968	28,973	Interpolated
CXVB-409-0818-45	409	1	101.8	239.8	222.9	20,224	29,228	Interpolated
CXVB-237-1212-10	237	1	142.0	167.8	198.8	11,809	19,197	Interpolated
CXVB-255-1212-15	255	1	142.0	167.8	198.8	11,940	19,328	Interpolated
CXVB-268-1212-20	268	1	142.0	167.8	198.8	12,003	19,391	Interpolated
CXVB-287-1212-30	287	1	142.0	167.8	198.8	12,133	19,520	Interpolated
CXVB-264-1212-10	264	1	142.0	167.8	198.8	13,738	21,244	Interpolated
CXVB-285-1212-15	285	1	142.0	167.8	198.8	13,870	21,375	Interpolated
CXVB-302-1212-20	302	1	142.0	167.8	198.8	13,933	21,438	Interpolated
CXVB-341-1212-40	341	1	142.0	167.8	198.8	14,230	21,735	Interpolated
CXVB-314-1212-15	314	1	142.0	167.8	233.4	15,660	23,406	Interpolated
CXVB-345-1212-25	345	1	142.0	167.8	233.4	15,754	23,500	Interpolated
CXVB-356-1212-30	356	1	142.0	167.8	233.4	15,852	23,598	Interpolated
CXVB-379-1212-40	379	1	142.0	167.8	233.4	16,020	23,766	Interpolated
CXVB-297-1212-10	297	1	142.0	167.8	233.4	15,840	23,586	Interpolated
CXVB-325-1212-15	325	1	142.0	167.8	233.4	15,971	23,717	Interpolated
CXVB-394-1212-40	394	1	142.0	167.8	233.4	16,331	24,077	Interpolated
CXVB-341-1212-20	341	1	142.0	167.8	233.4	16,687	24,492	Interpolated
CXVB-355-1212-25	355	1	142.0	167.8	233.4	16,719	24,524	Interpolated
CXVB-369-1212-30	369	1	142.0	167.8	233.4	16,817	24,622	Interpolated
CXVB-306-1212-10	306	1	142.0	167.8	233.4	17,379	25,213	Interpolated
CXVB-370-1212-25	370	1	142.0	167.8	233.4	17,605	25,439	Interpolated
CXVB-411-1212-40	411	1	142.0	167.8	233.4	17,871	25,705	Interpolated
CXVB-299-1212-10	299	1	142.0	167.8	233.4	17,458	25,322	Interpolated
CXVB-327-1212-15	327	1	142.0	167.8	233.4	17,589	25,453	Interpolated
CXVB-381-1212-30	381	1	142.0	167.8	233.4	18,747	26,669	Interpolated
CXVB-315-1212-10	315	1	142.0	167.8	233.4	18,717	26,640	Interpolated

Special Seismic Certification

Certified Components: CXVB Units



Manufacturer: Baltimore Aircoil Company

Product Line: CXVB Evaporative Condensers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

CXVB Model No.	Tons of NH3	No. of Cells	Base Unit Dimensions ¹ (in)			Shipping Weight ² (lb)	Operating Weight ² (lb)	Certification Basis
			Width	Length	Height			
CXVB-341-1212-15	341	1	142.0	167.8	233.4	18,848	26,771	Interpolated
CXVB-393-1212-30	393	1	142.0	167.8	233.4	19,040	26,963	Interpolated
CXVB-420-1212-40	420	1	142.0	167.8	233.4	19,208	27,131	Interpolated
CXVB-360-1218-15	360	1	142.0	245.8	204.8	17,492	30,679	Interpolated
CXVB-388-1218-22.5	388	1	142.0	245.8	204.8	17,676	30,863	Interpolated
CXVB-414-1218-22.5	414	1	142.0	245.8	204.8	19,121	32,397	Interpolated
CXVB-438-1218-30	438	1	142.0	245.8	204.8	19,200	32,476	Interpolated
CXVB-466-1218-45	466	1	142.0	245.8	204.8	19,483	32,759	Interpolated
CXVB-491-1218-60	491	1	142.0	245.8	204.8	19,714	32,990	Interpolated
CXVB-403-1218-15	403	1	142.0	245.8	204.8	20,383	33,747	Interpolated
CXVB-437-1218-22.5	437	1	142.0	245.8	204.8	20,567	33,931	Interpolated
CXVB-490-1218-45	490	1	142.0	245.8	204.8	20,929	34,293	Interpolated
CXVB-444-1218-15	444	1	142.0	245.8	239.4	22,936	36,698	Interpolated
CXVB-482-1218-22.5	482	1	142.0	245.8	239.4	23,120	36,882	Interpolated
CXVB-504-1218-30	504	1	142.0	245.8	239.4	23,198	36,961	Interpolated
CXVB-528-1218-37.5	528	1	142.0	245.8	239.4	23,361	37,123	Interpolated
CXVB-543-1218-45	543	1	142.0	245.8	239.4	23,482	37,244	Interpolated
CXVB-574-1218-60	574	1	142.0	245.8	239.4	23,713	37,475	Interpolated
CXVB-457-1218-15	457	1	142.0	245.8	239.4	23,246	37,008	Interpolated
CXVB-525-1218-30	525	1	142.0	245.8	239.4	23,509	37,271	Interpolated
CXVB-563-1218-45	563	1	142.0	245.8	239.4	23,792	37,554	Interpolated
CXVB-601-1218-60	601	1	142.0	245.8	239.4	24,023	37,785	Interpolated
CXVB-513-1218-22.5	513	1	142.0	245.8	239.4	25,692	39,587	Interpolated
CXVB-545-1218-30	545	1	142.0	245.8	239.4	25,771	39,665	Interpolated
CXVB-567-1218-37.5	567	1	142.0	245.8	239.4	25,933	39,828	Interpolated
CXVB-628-1218-60	628	1	142.0	245.8	239.4	26,285	40,180	Interpolated
CXVB-459-1218-15	459	1	142.0	245.8	239.4	25,828	39,767	Interpolated
CXVB-467-1218-15	467	1	142.0	245.8	239.4	27,274	41,301	Interpolated
CXVB-483-1218-15	483	1	142.0	245.8	239.4	27,567	41,595	Interpolated
CXVB-525-1218-22.5	525	1	142.0	245.8	239.4	27,751	41,779	Interpolated
CXVB-581-1218-37.5	581	1	142.0	245.8	239.4	27,993	42,020	Interpolated
CXVB-601-1218-45	601	1	142.0	245.8	239.4	28,113	42,141	Interpolated
CXVB-643-1218-60	643	1	142.0	245.8	239.4	28,344	42,372	UUT2A
CXVB-473-1224-20	473	2	142.0	340.5	198.8	23,618	38,394	Multi-Cell Unit Certification Based on Single Cell Tests
CXVB-509-1224-30	509	2	142.0	340.5	198.8	23,881	38,656	
CXVB-535-1224-40	535	2	142.0	340.5	198.8	24,007	38,782	
CXVB-573-1224-60	573	2	142.0	340.5	198.8	24,266	39,041	
CXVB-528-1224-20	528	2	142.0	340.5	198.8	27,477	42,488	
CXVB-571-1224-30	571	2	142.0	340.5	198.8	27,739	42,750	
CXVB-604-1224-40	604	2	142.0	340.5	198.8	27,865	42,876	
CXVB-681-1224-80	681	2	142.0	340.5	198.8	28,460	43,471	
CXVB-629-1224-30	629	2	142.0	340.5	233.4	31,320	46,812	
CXVB-691-1224-50	691	2	142.0	340.5	233.4	31,509	47,001	
CXVB-713-1224-60	713	2	142.0	340.5	233.4	31,704	47,197	
CXVB-759-1224-80	759	2	142.0	340.5	233.4	32,040	47,533	
CXVB-595-1224-20	595	2	142.0	340.5	233.4	31,679	47,171	
CXVB-650-1224-30	650	2	142.0	340.5	233.4	31,942	47,434	

Special Seismic Certification

Certified Components: CXVB Units



Manufacturer: Baltimore Aircoil Company

Product Line: CXVB Evaporative Condensers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

CXVB Model No.	Tons of NH3	No. of Cells	Base Unit Dimensions ¹ (in)			Shipping Weight ² (lb)	Operating Weight ² (lb)	Certification Basis
			Width	Length	Height			
CXVB-788-1224-80	788	2	142.0	340.5	233.4	32,662	48,155	Multi-Cell Unit Certification Based on Single Cell Tests
CXVB-682-1224-40	682	2	142.0	340.5	233.4	33,375	48,985	
CXVB-711-1224-50	711	2	142.0	340.5	233.4	33,438	49,048	
CXVB-738-1224-60	738	2	142.0	340.5	233.4	33,633	49,244	
CXVB-612-1224-20	612	2	142.0	340.5	233.4	34,758	50,427	
CXVB-739-1224-50	739	2	142.0	340.5	233.4	35,209	50,878	
CXVB-821-1224-80	821	2	142.0	340.5	233.4	35,741	51,410	
CXVB-598-1224-20	598	2	142.0	340.5	233.4	34,916	50,644	
CXVB-655-1224-30	655	2	142.0	340.5	233.4	35,179	50,907	
CXVB-762-1224-60	762	2	142.0	340.5	233.4	37,493	53,339	
CXVB-630-1224-20	630	2	142.0	340.5	233.4	37,434	53,279	
CXVB-682-1224-30	682	2	142.0	340.5	233.4	37,696	53,542	
CXVB-786-1224-60	786	2	142.0	340.5	233.4	38,081	53,927	
CXVB-840-1224-80	840	2	142.0	340.5	233.4	38,417	54,263	
CXVB-719-1236-30	719	2	142.0	496.5	204.8	34,984	61,359	
CXVB-776-1236-45	776	2	142.0	496.5	204.8	35,351	61,726	
CXVB-827-1236-45	827	2	142.0	496.5	204.8	38,242	64,794	
CXVB-876-1236-60	876	2	142.0	496.5	204.8	38,400	64,951	
CXVB-932-1236-90	932	2	142.0	496.5	204.8	38,967	65,518	
CXVB-982-1236-120	982	2	142.0	496.5	204.8	39,429	65,980	
CXVB-806-1236-30	806	2	142.0	496.5	204.8	40,767	67,495	
CXVB-875-1236-45	875	2	142.0	496.5	204.8	41,134	67,862	
CXVB-980-1236-90	980	2	142.0	496.5	204.8	41,858	68,587	
CXVB-888-1236-30	888	2	142.0	496.5	239.4	45,872	73,396	
CXVB-964-1236-45	964	2	142.0	496.5	239.4	46,239	73,764	
CXVB-1008-1236-60	1008	2	142.0	496.5	239.4	46,397	73,921	
CXVB-1056-1236-75	1056	2	142.0	496.5	239.4	46,722	74,247	
CXVB-1086-1236-90	1086	2	142.0	496.5	239.4	46,963	74,488	
CXVB-1149-1236-120	1149	2	142.0	496.5	239.4	47,425	74,950	
CXVB-914-1236-30	914	2	142.0	496.5	239.4	46,492	74,017	
CXVB-1049-1236-60	1049	2	142.0	496.5	239.4	47,017	74,542	
CXVB-1126-1236-90	1126	2	142.0	496.5	239.4	47,584	75,109	
CXVB-1201-1236-120	1201	2	142.0	496.5	239.4	48,046	75,571	
CXVB-1027-1236-45	1027	2	142.0	496.5	239.4	51,384	79,173	
CXVB-1089-1236-60	1089	2	142.0	496.5	239.4	51,541	79,331	
CXVB-1134-1236-75	1134	2	142.0	496.5	239.4	51,867	79,656	
CXVB-1257-1236-120	1257	2	142.0	496.5	239.4	52,570	80,359	
CXVB-918-1236-30	918	2	142.0	496.5	239.4	51,655	79,534	
CXVB-933-1236-30	933	2	142.0	496.5	239.4	54,547	82,602	
CXVB-966-1236-30	966	2	142.0	496.5	239.4	55,135	83,190	
CXVB-1049-1236-45	1049	2	142.0	496.5	239.4	55,502	83,557	
CXVB-1161-1236-75	1161	2	142.0	496.5	239.4	55,985	84,040	
CXVB-1202-1236-90	1202	2	142.0	496.5	239.4	56,227	84,281	
CXVB-1287-1236-120	1287	2	142.0	496.5	239.4	56,689	84,743	

Notes:

1. Base unit dimensions do not include access options or accessories
2. Shipping and operating weight values do not include access options or accessories

Special Seismic Certification

Certified Options: Material of Construction



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Structural Frame and Cold Basin Material of Construction (MOC) Option ^{1,2,3}	MOC of Structural Frame	MOC of Cold Water Basin	Certification Basis
Galvanized Steel	Galvanized Steel	Galvanized Steel	UUT 1A/1B
Galvanized Steel with TriArmor® Cold Water Basin	Galvanized Steel and Stainless Steel	Galvanized Steel	Interpolated
EVERTOUGH™ Construction	Galvanized Steel and Stainless Steel	Galvanized Steel	Interpolated
Galvanized Steel with Stainless Steel Cold Water Basin	Galvanized Steel and Stainless Steel	Stainless Steel	Interpolated
BALTIBOND® Construction with Stainless Steel Cold Water Basin	Galvanized Steel and Stainless Steel	Stainless Steel	Interpolated
Stainless Steel	Stainless Steel	Stainless Steel	UUT 2A

Notes:

1. BALTIBOND® and TriArmor® are coating systems. Base material is Galvanized Steel.
2. EVERTOUGH™ construction combines BALTIBOND® and TriArmor® coating systems on select elements.
3. Structural frames and basins are manufactured by Baltimore Aircoil Company.

Special Seismic Certification

Certified Options: Recirculating Spray Water Configuration



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Recirculating Spray Water Configuration Option	Manufacturer	Material of Construction	Inlet Location	Outlet Location	Certification Basis
End Outlet, Remote Sump Applications	Baltimore Aircoil Company	See Note 1	Top	End	Extrapolated
Bottom Outlet, Remote Sump Applications		See Note 1	Top	Bottom	Extrapolated
Sweeper Piping with Side Connection		See Note 2	End	End	Extrapolated
Sweeper Piping with Bottom Connection		See Note 2	Bottom	Bottom	UUT 2A
Integral Pump(s) w/Standard Makeup/Drain/Overflow Connections		See Note 3	Top	End	UUT 1A/1B
Mechanical Makeup		Valve - PVC; Float Ball - Polystyrene	End	N/A	UUT 1A/1B
Redundant Pump System w/Standard Makeup/Drain/Overflow Connections		See Note 3	Top	End	UUT 2A
Mechanical Makeup		Valve - Brass; Float Ball - Polystyrene	End	N/A	UUT 2A

Notes:

1. Water inlet material of construction matches the MOC of the structural members. Water outlet material of construction matches the MOC of the cold water basin.
2. Water inlet and outlet material of construction matches the MOC of the cold water basin. Sweeper piping is PVC. Sweeper piping nozzles are polypropylene.
3. Water inlet material of construction matches the MOC of the structural members. Water outlet material of construction matches the MOC of the cold water basin. Pump piping is PVC.

Special Seismic Certification

Certified Options: Access



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Access Option	Manufacturer	Material of Construction	Certification Basis
Internal Walkway	Baltimore Aircoil Company	Galvanized Steel	UUT 1A/1B
Internal Ladder	Louisville Ladder	Aluminum	
Louver Face Platform with Guardrails, Ladder, Safety Cage, and Safety Gate			
Platform Supports	Baltimore Aircoil Company	Galvanized Steel	
Platform Grating	Creative Pultrusions	Glass Fiber Reinforced Plastic	
Guardrails (Posts and Rails)	Baltimore Aircoil Company	Galvanized Steel	
Toeboards	Baltimore Aircoil Company	Galvanized Steel	
Ladder	Louisville Ladder	Aluminum	
Safety Cage	Baltimore Aircoil Company	Galvanized Steel	
Safety Gate	PS Doors	Galvanized Steel	
Access Door Platform with Guardrails, Ladder, and Safety Gate			
Platform	Baltimore Aircoil Company	Galvanized Steel	
Platform Grating	Creative Pultrusions	Glass Fiber Reinforced Plastic	
Guardrails (Posts and Rails)	Baltimore Aircoil Company	Galvanized Steel	
Toeboards	Baltimore Aircoil Company	Galvanized Steel	
Ladder	Louisville Ladder	Aluminum	
Safety Gate	PS Doors	Galvanized Steel	
Internal Walkway	Baltimore Aircoil Company	Stainless Steel	UUT 2A
Internal Service Platform with Guardrails, Ladder, and Safety Gate			
Platform Supports	Baltimore Aircoil Company	Stainless Steel	
Platform Grating	Creative Pultrusions	Glass Fiber Reinforced Plastic	
Guardrail Posts	Baltimore Aircoil Company	Stainless Steel	
Guardrail Rails	Baltimore Aircoil Company	Galvanized Steel	
Toeboards	Baltimore Aircoil Company	Stainless Steel	
Ladder	Louisville Ladder	Aluminum	
Safety Gate	PS Doors	Galvanized Steel	
Louver Face Platform with Guardrails, Ladder, Safety Cage, and Safety Gate			
Platform Supports	Baltimore Aircoil Company	Stainless Steel	
Platform Grating	Creative Pultrusions	Glass Fiber Reinforced Plastic	
Guardrail Posts	Baltimore Aircoil Company	Stainless Steel	
Guardrail Rails	Baltimore Aircoil Company	Galvanized Steel	
Toeboards	Baltimore Aircoil Company	Stainless Steel	
Ladder	Louisville Ladder	Aluminum	
Safety Cage	Baltimore Aircoil Company	Galvanized Steel	
Safety Gate	PS Doors	Galvanized Steel	
Access Door Platform with Guardrails, Ladder, and Safety Gate			
Platform	Baltimore Aircoil Company	Stainless Steel	
Platform Grating	Creative Pultrusions	Glass Fiber Reinforced Plastic	
Guardrail Posts	Baltimore Aircoil Company	Stainless Steel	
Guardrail Rails	Baltimore Aircoil Company	Galvanized Steel	
Toeboards	Baltimore Aircoil Company	Stainless Steel	
Ladder	Louisville Ladder	Aluminum	
Safety Gate	PS Doors	Galvanized Steel	

Special Seismic Certification

Certified Subcomponents: Accessories



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Accessory	Manufacturer	Material of Construction	Certification Basis
11 5/8" Fan Cylinder Extension	Baltimore Aircoil Company	Galvanized Steel	Extrapolated
1'-11 1/4" Fan Cylinder Extension	Baltimore Aircoil Company	Galvanized Steel	UUT 1A/1B
Combined Inlet Shields on Coil Air Intake	Frame - Baltimore Aircoil Company; Shields - Brentwood Industries	Frame - Galvanized Steel; Shields - PVC	UUT 1A/1B
Fan Motor Removal System	Baltimore Aircoil Company	Galvanized Steel	UUT 1A/1B
11 5/8" Fan Cylinder Extension	Baltimore Aircoil Company	Stainless Steel	Extrapolated
1'-11 1/4" Fan Cylinder Extension	Baltimore Aircoil Company	Stainless Steel	UUT 2A
Fan Motor Removal System	Baltimore Aircoil Company	Stainless Steel	UUT 2A
Combined Inlet Shields on Coil Air Intake	Frame - Baltimore Aircoil Company; Shields - Brentwood Industries	Frame - Stainless Steel; Shields - PVC	UUT 2A
Vibration Cutout Switches	Metrix	Aluminum Case	UUT 1A/1B, UUT 2A
Electric Water Level Control (EWLC) with Solenoid Valve	EWLC - Kimberlite Assemblers; Solenoid Valve - ASCO	EWLC - PVC Housing, Stainless Steel Probes; Solenoid Valve - Brass Body	UUT 1A/1B, UUT 2A
Low Water Cutout and Thermostat	Johnson Controls	Float Switch - Steel Case, Polypropylene Float; Thermostat - Steel Case, Copper Bulb Well	UUT 1A/1B, UUT 2A
Extended Lubrication Lines	Baltimore Aircoil Company	Nylon Tubing; Brass Connectors	UUT 1A/1B, UUT 2A

Special Seismic Certification
Certified Subcomponents: Coils



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Material of Construction	Coil Configuration	No. of Coil Circuits	Approximate Weight (lb)	Certification Basis
080612D	Baltimore Aircoil Company	Galvanized Steel	Dual	12	1,085	Extrapolated
080616D			Dual	16	1,364	Extrapolated
080620D			Dual	20	1,644	Extrapolated
080624D			Dual	24	2,034	Extrapolated
080628D			Dual	28	2,313	Extrapolated
080632D			Dual	32	2,593	Extrapolated
080636D			Dual	36	2,873	Extrapolated
080912D			Dual	12	1,543	Extrapolated
080916D			Dual	16	1,961	Extrapolated
080920D			Dual	20	2,380	Extrapolated
080924D			Dual	24	2,939	Extrapolated
080924T			Tri	24	3,145	Extrapolated
080928D			Dual	28	3,357	Extrapolated
080930T			Tri	30	3,826	Extrapolated
080932D			Dual	32	3,776	Extrapolated
080936D			Dual	36	4,195	UUT 1A/1B
080936T			Tri	36	4,391	Interpolated
081212D			Dual	12	1,960	Interpolated
081216D			Dual	16	2,517	Interpolated
081216Q			Dual	16	2,686	Interpolated
081220D			Dual	20	3,076	Interpolated
081223Q			Dual	23	3,775	Interpolated
081223T			Tri	23	3,816	Interpolated
081224D			Dual	24	3,772	Interpolated
081224Q			Tri	24	3,937	Interpolated
081224T			Tri	24	3,978	Interpolated
081228D			Dual	28	4,330	Interpolated
081230T			Tri	30	4,869	Interpolated
081232Q			Quad	32	5,044	Interpolated
081236T			Tri	36	5,643	Interpolated
081812D			Dual	12	2,835	Interpolated
081816D			Dual	16	3,671	Interpolated
081816Q			Quad	16	3,840	Interpolated
081823Q			Quad	23	5,491	Interpolated
081823T			Tri	23	5,533	Interpolated
081824Q			Quad	24	5,675	Interpolated
081824T			Tri	24	5,717	Interpolated
081830T			Tri	30	7,026	Interpolated
081832Q			Quad	32	7,340	Interpolated
121212D			Dual	12	3,097	Interpolated
121216D			Dual	16	4,015	Interpolated
121216Q			Quad	16	4,268	Interpolated
121220D			Dual	20	4,934	Interpolated
121223Q			Quad	23	6,060	Interpolated
121223T			Tri	23	6,111	Interpolated
121224D			Dual	24	6,011	Interpolated
121224Q			Quad	24	6,256	Interpolated
121224T			Tri	24	6,307	Interpolated
121228D			Dual	28	6,930	Interpolated
121230T			Tri	30	7,773	Interpolated

Special Seismic Certification
Certified Subcomponents: Coils



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Material of Construction	Coil Configuration	No. of Coil Circuits	Approximate Weight (lb)	Certification Basis
121232D	Baltimore Aircoil Company	Galvanized Steel	Dual	32	7,849	Interpolated
121232Q			Quad	32	8,079	Interpolated
121236D			Dual	36	8,768	Interpolated
121236T			Tri	36	9,048	Interpolated
121812D			Dual	12	4,538	Interpolated
121816D			Dual	16	5,914	Interpolated
121816Q			Quad	16	6,167	Interpolated
121820D			Dual	20	7,291	Interpolated
121823Q			Quad	23	8,885	Interpolated
121823T			Tri	23	8,937	Interpolated
121824Q			Quad	24	9,117	Interpolated
121824T			Tri	24	9,170	Interpolated
121830T			Tri	30	11,324	Interpolated
121832Q			Quad	32	11,859	Interpolated
121836T			Tri	36	13,285	Interpolated
080612D		Stainless Steel	Dual	12	1,085	Interpolated
080616D			Dual	16	1,364	Interpolated
080620D			Dual	20	1,644	Interpolated
080624D			Dual	24	2,034	Interpolated
080628D			Dual	28	2,313	Interpolated
080632D			Dual	32	2,593	Interpolated
080636D			Dual	36	2,873	Interpolated
080912D			Dual	12	1,543	Interpolated
080916D			Dual	16	1,961	Interpolated
080920D			Dual	20	2,380	Interpolated
080924D			Dual	24	2,939	Interpolated
080924T			Tri	24	3,145	Interpolated
080928D			Dual	28	3,357	Interpolated
080930T			Tri	30	3,826	Interpolated
080932D			Dual	32	3,776	Interpolated
080936D			Dual	36	4,195	Interpolated
080936T			Tri	36	4,391	Interpolated
081212D			Dual	12	1,960	Interpolated
081216D			Dual	16	2,517	Interpolated
081216Q			Quad	16	2,686	Interpolated
081220D			Dual	20	3,076	Interpolated
081223Q			Quad	23	3,775	Interpolated
081223T			Tri	23	3,816	Interpolated
081224D			Dual	24	3,772	Interpolated
081224Q			Quad	24	3,937	Interpolated
081224T			Tri	24	3,978	Interpolated
081228D			Dual	28	4,330	Interpolated
081230T			Tri	30	4,869	Interpolated
081232Q			Quad	32	5,044	Interpolated
081236T			Tri	36	5,643	Interpolated
081812D			Dual	12	2,835	Interpolated
081816D			Dual	16	3,671	Interpolated
081816Q			Quad	16	3,840	Interpolated
081823Q			Quad	23	5,491	Interpolated
081823T			Tri	23	5,533	Interpolated
081824Q			Quad	24	5,675	Interpolated

Special Seismic Certification
Certified Subcomponents: Coils



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Material of Construction	Coil Configuration	No. of Coil Circuits	Approximate Weight (lb)	Certification Basis
081824T	Baltimore Aircoil Company	Stainless Steel	Tri	24	5,717	Interpolated
081830T			Tri	30	7,026	Interpolated
081832Q			Quad	32	7,340	Interpolated
121212D			Dual	12	3,097	Interpolated
121216D			Dual	16	4,015	Interpolated
121216Q			Quad	16	4,268	Interpolated
121220D			Dual	20	4,934	Interpolated
121223Q			Quad	23	6,060	Interpolated
121223T			Tri	23	6,111	Interpolated
121224D			Dual	24	6,011	Interpolated
121224Q			Quad	24	6,256	Interpolated
121224T			Tri	24	6,307	Interpolated
121228D			Dual	28	6,930	Interpolated
121230T			Tri	30	7,773	Interpolated
121232D			Dual	32	7,849	Interpolated
121232Q			Quad	32	8,079	Interpolated
121236D			Dual	36	8,768	Interpolated
121236T			Tri	36	9,048	Interpolated
121812D			Dual	12	4,538	Interpolated
121816D			Dual	16	5,914	Interpolated
121816Q			Quad	16	6,167	Interpolated
121820D			Dual	20	7,291	Interpolated
121823Q			Quad	23	8,885	Interpolated
121823T			Tri	23	8,937	Interpolated
121824Q			Quad	24	9,117	Interpolated
121824T			Tri	24	9,170	Interpolated
121830T			Tri	30	11,324	Interpolated
121832Q			Quad	32	11,859	Interpolated
121836T			Tri	36	13,285	Tested - UUT 2A

Special Seismic Certification

Certified Subcomponents: Fan Motors



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

BAC Part Number	Manufacturer	Material of Construction	HP	Voltage ¹	Approximate Weight (lb)	Certification Basis ²
22QE	Nidec	Cast Iron	1.5	200, 230, 230/460, 460, or 575 (60 Hz); 190, 190/380, or 380 (50 Hz)	110	Extrapolated
22QF			2		160	Extrapolated
22QG			3		175	UUT 1B
22QH			5		300	Interpolated
22QJ			7.5		360	Interpolated
22QK			10		390	Interpolated
22QL			15		440	Interpolated
22QM			20		600	UUT 2A
22FE	WEG	Cast Iron	1.5		110	Extrapolated
22FF			2		160	Extrapolated
22FG			3		175	UUT 1B
22FH			5		300	UUT 1A
22FJ			7.5		360	Interpolated
22FK			10		390	Interpolated
22FL			15		440	Interpolated
22FM			20		600	Interpolated
22FN			25		625	Interpolated
22FO			30		830	Interpolated
22FP			40		910	UUT 2A

Note:

1. Tested motors were 230/460V dual voltage rated.
2. Tested motors included space heaters integral to the motor.

Special Seismic Certification

Certified Subcomponents: Fans



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Blade Material of Construction ^{1,2}	Diameter (in)	No. of Blades	Approximate Weight (lb)	Certification Basis
48/6/FRP/M	Multi-Wing	Glass Fiber Reinforced Plastic	48	6	24	UUT 1A/1B
60/8/FRP/M		Glass Fiber Reinforced Plastic	60	8	49	Interpolated
66/8/FRP/M		Glass Fiber Reinforced Plastic	66	8	51	UUT 2A
48/5/ALM/C	Cofimco	Aluminum	48	5	45	UUT 1B
48/6/ALM/C		Aluminum	48	6	43	UUT 1A/1B
60/5/ALM/C		Aluminum	60	5	55	Interpolated
60/7/ALM/C		Aluminum	60	7	45	Interpolated
66/6/ALM/C		Aluminum	66	6	45	Interpolated
66/8/ALM/C		Aluminum	66	8	43	UUT 2A
66/6/ALM/B	Bailsco	Aluminum	66	6	34	Extrapolated ³
66/8/ALM/B		Aluminum	66	8	43	UUT 2A

Note:

1. Fan cylinder (housing) material of construction matches the structural member material of construction (galvanized steel or stainless steel). Fan cylinder manufacturer is Baltimore Aircoil Company.
2. Standard fan guard material of construction is galvanized steel. Optional fan guard material of construction is stainless steel. Galvanized fan guards tested on UUT1A/1B. Stainless steel fan guards tested on UUT2A.
3. Extrapolated fan is the same as tested in UUT2A, but with two fewer blades

Special Seismic Certification

Certified Subcomponents: Pumps



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Material of Construction	HP	Voltage	Phase/Hz	Approximate Weight (lb)	Certification Basis
3050-5-145-JM	Grundfos	Cast Iron	2	190	3/50	77	Extrapolated
3050-5-145-JM	Grundfos	Cast Iron	2	200	3/60	77	Extrapolated
3050-5-145-JM	Grundfos	Cast Iron	2	230/460	3/60	77	Extrapolated
4070-9-184-JM	Grundfos	Cast Iron	2	380	3/50	77	Extrapolated
3070-7-182-JM	Grundfos	Cast Iron	2	415	3/50	77	Extrapolated
3050-5-145-JM	Grundfos	Cast Iron	2	575	3/60	77	Extrapolated
4070-9-184-JM	Grundfos	Cast Iron	5	190	3/50	175	Extrapolated
4070-9-184-JM	Grundfos	Cast Iron	5	200	3/60	175	Extrapolated
4070-9-184-JM	Grundfos	Cast Iron	5	230/460	3/60	175	UUT 1A/1B
4070-9-184-JM	Grundfos	Cast Iron	5	380	3/50	175	Interpolated
4070-9-184-JM	Grundfos	Cast Iron	5	415	3/50	175	Interpolated
4070-9-184-JM	Grundfos	Cast Iron	5	575	3/60	175	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	190	3/50	226	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	200	3/60	226	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	230/460	3/60	226	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	380	3/50	226	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	415	3/50	226	Interpolated
4070-9-213-JM	Grundfos	Cast Iron	7.5	575	3/60	226	Interpolated
6095-1-215-JM	Grundfos	Cast Iron	10	190	3/50	575	Interpolated
6095-1-256-JM	Grundfos	Cast Iron	10	200	3/60	575	Interpolated
6095-1-256-JM	Grundfos	Cast Iron	10	230/460	3/60	575	UUT 2A
6095-1-215-JM	Grundfos	Cast Iron	10	380	3/50	575	Extrapolated
6095-1-215-JM	Grundfos	Cast Iron	10	415	3/50	575	Extrapolated
6095-1-256-JM	Grundfos	Cast Iron	10	575	3/60	575	Extrapolated

Special Seismic Certification

Certified Subcomponents: Basin Heaters



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Heater Element Material of Construction	kW	Voltage	Phase/Hz	Approximate Weight (lb)	Certification Basis
4/200/3/60/10.5/C	Indeeco	Copper	4	200	3/60	12	Extrapolated
4/230/3/60/10.5/C			4	230	3/60	12	Extrapolated
4/380/3/50/10.5/C			4	380	3/50	12	Extrapolated
4/380/3/60/10.5/C			4	380	3/60	12	Extrapolated
4/415/3/50/10.5/C			4	415	3/50	12	Extrapolated
4/460/3/60/10.5/C			4	460	3/60	12	UUT 1A/1B
4/575/3/60/10.5/C			4	575	3/60	12	Interpolated
6/200/3/60/15/C			6	200	3/60	13	Interpolated
6/230/3/60/15/C			6	230	3/60	13	Interpolated
6/380/3/50/15/C			6	380	3/50	13	Interpolated
6/380/3/60/15/C			6	380	3/60	13	Interpolated
6/415/3/50/15/C			6	415	3/50	13	Interpolated
6/460/3/60/15/C			6	460	3/60	13	Interpolated
6/575/3/60/15/C			6	575	3/60	13	Interpolated
8/200/3/60/19.5/C			8	200	3/60	14	Interpolated
8/230/3/60/19.5/C			8	230	3/60	14	Interpolated
8/380/3/50/19.5/C			8	380	3/50	14	Interpolated
8/380/3/60/19.5/C			8	380	3/60	14	Interpolated
8/415/3/50/19.5/C			8	415	3/50	14	Interpolated
8/460/3/60/19.5/C			8	460	3/60	14	Interpolated
8/575/3/60/19.5/C			8	575	3/60	14	Interpolated
9/200/3/60/21.75/C			9	200	3/60	14	Interpolated
9/230/3/60/21.75/C			9	230	3/60	14	Interpolated
9/380/3/50/21.75/C			9	380	3/50	14	Interpolated
9/380/3/60/21.75/C			9	380	3/60	14	Interpolated
9/415/3/50/21.75/C			9	415	3/50	14	Interpolated
9/460/3/60/21.75/C			9	460	3/60	14	Interpolated
9/575/3/60/21.75/C			9	575	3/60	14	Interpolated
10/200/3/60/24/C			10	200	3/60	15	Interpolated
10/230/3/60/24/C			10	230	3/60	15	Interpolated
10/380/3/50/24/C			10	380	3/50	15	Interpolated
10/380/3/60/24/C			10	380	3/60	15	Interpolated
10/415/3/50/24/C			10	415	3/50	15	Interpolated
10/460/3/60/24/C			10	460	3/60	15	Interpolated
10/575/3/60/24/C			10	575	3/60	15	Interpolated
12/200/3/60/28.5/C			12	200	3/60	15	Interpolated
12/230/3/60/28.5/C			12	230	3/60	15	Interpolated
12/380/3/50/28.5/C			12	380	3/50	15	Interpolated
12/380/3/60/28.5/C			12	380	3/60	15	Interpolated
12/415/3/50/28.5/C			12	415	3/50	15	Interpolated

Special Seismic Certification**Certified Subcomponents: Basin Heaters****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Heater Element Material of Construction	kW	Voltage	Phase/Hz	Approximate Weight (lb)	Certification Basis
12/460/3/60/28.5/C	Indeeco	Copper	12	460	3/60	15	Interpolated
12/575/3/60/28.5/C			12	575	3/60	15	Interpolated
14/200/3/60/38.25/C			14	200	3/60	16	Interpolated
14/230/3/60/38.25/C			14	230	3/60	16	Interpolated
14/380/3/50/38.25/C			14	380	3/50	16	Interpolated
14/380/3/60/38.25/C			14	380	3/60	16	Interpolated
14/415/3/50/38.25/C			14	415	3/50	16	Interpolated
14/460/3/60/38.25/C			14	460	3/60	16	Interpolated
14/575/3/60/38.25/C			14	575	3/60	16	Interpolated
16/200/3/60/37.75/C			16	200	3/60	17	Interpolated
16/230/3/60/37.75/C			16	230	3/60	17	Interpolated
16/380/3/50/37.75/C			16	380	3/50	17	Interpolated
16/380/3/60/37.75/C			16	380	3/60	17	Interpolated
16/415/3/50/37.75/C			16	415	3/50	17	Interpolated
16/460/3/60/37.75/C			16	460	3/60	17	Interpolated
16/575/3/60/37.75/C			16	575	3/60	17	Interpolated
18/200/3/60/41.75/C			18	200	3/60	17	Interpolated
18/230/3/60/41.75/C			18	230	3/60	17	Interpolated
18/380/3/50/41.75/C			18	380	3/50	17	Interpolated
18/380/3/60/41.75/C			18	380	3/60	17	Interpolated
18/415/3/50/41.75/C			18	415	3/50	17	Interpolated
18/460/3/60/41.75/C			18	460	3/60	17	Interpolated
18/575/3/60/41.75/C			18	575	3/60	17	Interpolated
20/200/3/60/46/C			20	200	3/60	18	Interpolated
20/230/3/60/46/C			20	230	3/60	18	Interpolated
20/380/3/50/46/C			20	380	3/50	18	Interpolated
20/380/3/60/46/C			20	380	3/60	18	Interpolated
20/415/3/50/46/C			20	415	3/50	18	Interpolated
20/460/3/60/46/C			20	460	3/60	18	Interpolated
20/575/3/60/46/C			20	575	3/60	18	Interpolated
24/200/3/60/56/C			24	200	3/60	18	Interpolated
24/230/3/60/56/C			24	230	3/60	18	Interpolated
24/380/3/50/56/C			24	380	3/50	18	Interpolated
24/380/3/60/56/C			24	380	3/60	18	Interpolated
24/415/3/50/56/C			24	415	3/50	18	Interpolated
24/460/3/60/56/C			24	460	3/60	18	UUT 2A
24/575/3/60/56/C			24	575	3/60	18	Extrapolated

Special Seismic Certification

Certified Subcomponents: Basin Heaters



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Heater Element Material of Construction	kW	Voltage	Phase/Hz	Approximate Weight (lb)	Certification Basis
4/200/3/60/10.5/S	Indeeco	Stainless Steel	4	200	3/60	12	Extrapolated
4/230/3/60/10.5/S			4	230	3/60	12	Extrapolated
4/380/3/50/10.5/S			4	380	3/50	12	Extrapolated
4/380/3/60/10.5/S			4	380	3/60	12	Extrapolated
4/415/3/50/10.5/S			4	415	3/50	12	Extrapolated
4/460/3/60/10.5/S			4	460	3/60	12	UUT 1A/1B
4/575/3/60/10.5/S			4	575	3/60	12	Interpolated
6/200/3/60/15/S			6	200	3/60	13	Interpolated
6/230/3/60/15/S			6	230	3/60	13	Interpolated
6/380/3/50/15/S			6	380	3/50	13	Interpolated
6/380/3/60/15/S			6	380	3/60	13	Interpolated
6/415/3/50/15/S			6	415	3/50	13	Interpolated
6/460/3/60/15/S			6	460	3/60	13	Interpolated
6/575/3/60/15/S			6	575	3/60	13	Interpolated
8/200/3/60/19.5/S			8	200	3/60	14	Interpolated
8/230/3/60/19.5/S			8	230	3/60	14	Interpolated
8/380/3/50/19.5/S			8	380	3/50	14	Interpolated
8/380/3/60/19.5/S			8	380	3/60	14	Interpolated
8/415/3/50/19.5/S			8	415	3/50	14	Interpolated
8/460/3/60/19.5/S			8	460	3/60	14	Interpolated
8/575/3/60/19.5/S			8	575	3/60	14	Interpolated
9/200/3/60/21.75/S			9	200	3/60	14	Interpolated
9/230/3/60/21.75/S			9	230	3/60	14	Interpolated
9/380/3/50/21.75/S			9	380	3/50	14	Interpolated
9/380/3/60/21.75/S			9	380	3/60	14	Interpolated
9/415/3/50/21.75/S			9	415	3/50	14	Interpolated
9/460/3/60/21.75/S			9	460	3/60	14	Interpolated
9/575/3/60/21.75/S			9	575	3/60	14	Interpolated
10/200/3/60/24/S			10	200	3/60	15	Interpolated
10/230/3/60/24/S			10	230	3/60	15	Interpolated
10/380/3/50/24/S			10	380	3/50	15	Interpolated
10/380/3/60/24/S			10	380	3/60	15	Interpolated
10/415/3/50/24/S			10	415	3/50	15	Interpolated
10/460/3/60/24/S			10	460	3/60	15	Interpolated
10/575/3/60/24/S			10	575	3/60	15	Interpolated
12/200/3/60/28.5/S			12	200	3/60	15	Interpolated
12/230/3/60/28.5/S			12	230	3/60	15	Interpolated
12/380/3/50/28.5/S			12	380	3/50	15	Interpolated
12/380/3/60/28.5/S			12	380	3/60	15	Interpolated
12/415/3/50/28.5/S			12	415	3/50	15	Interpolated
12/460/3/60/28.5/S			12	460	3/60	15	Interpolated

Special Seismic Certification**Certified Subcomponents: Basin Heaters****Manufacturer:** Baltimore Aircoil Company**Product Line:** FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model No.	Manufacturer	Heater Element Material of Construction	kW	Voltage	Phase/Hz	Approximate Weight (lb)	Certification Basis
12/575/3/60/28.5/S	Indeeco	Stainless Steel	12	575	3/60	15	Interpolated
14/200/3/60/38.25/S			14	200	3/60	16	Interpolated
14/230/3/60/38.25/S			14	230	3/60	16	Interpolated
14/380/3/50/38.25/S			14	380	3/50	16	Interpolated
14/380/3/60/38.25/S			14	380	3/60	16	Interpolated
14/415/3/50/38.25/S			14	415	3/50	16	Interpolated
14/460/3/60/38.25/S			14	460	3/60	16	Interpolated
14/575/3/60/38.25/S			14	575	3/60	16	Interpolated
16/200/3/60/37.75/S			16	200	3/60	17	Interpolated
16/230/3/60/37.75/S			16	230	3/60	17	Interpolated
16/380/3/50/37.75/S			16	380	3/50	17	Interpolated
16/380/3/60/37.75/S			16	380	3/60	17	Interpolated
16/415/3/50/37.75/S			16	415	3/50	17	Interpolated
16/460/3/60/37.75/S			16	460	3/60	17	Interpolated
16/575/3/60/37.75/S			16	575	3/60	17	Interpolated
18/200/3/60/41.75/S			18	200	3/60	17	Interpolated
18/230/3/60/41.75/S			18	230	3/60	17	Interpolated
18/380/3/50/41.75/S			18	380	3/50	17	Interpolated
18/380/3/60/41.75/S			18	380	3/60	17	Interpolated
18/415/3/50/41.75/S			18	415	3/50	17	Interpolated
18/460/3/60/41.75/S			18	460	3/60	17	Interpolated
18/575/3/60/41.75/S			18	575	3/60	17	Interpolated
20/200/3/60/46/S			20	200	3/60	18	Interpolated
20/230/3/60/46/S			20	230	3/60	18	Interpolated
20/380/3/50/46/S			20	380	3/50	18	Interpolated
20/380/3/60/46/S			20	380	3/60	18	Interpolated
20/415/3/50/46/S			20	415	3/50	18	Interpolated
20/460/3/60/46/S			20	460	3/60	18	Interpolated
20/575/3/60/46/S			20	575	3/60	18	Interpolated
24/200/3/60/56/S			24	200	3/60	18	Interpolated
24/230/3/60/56/S			24	230	3/60	18	Interpolated
24/380/3/50/56/S			24	380	3/50	18	Interpolated
24/380/3/60/56/S			24	380	3/60	18	Interpolated
24/415/3/50/56/S			24	415	3/50	18	Interpolated
24/460/3/60/56/S			24	460	3/60	18	UUT 2A
24/575/3/60/56/S			24	575	3/60	18	Extrapolated

Special Seismic Certification

Tested Components



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Tested Product Construction: Galvanized carbon steel or stainless steel

Mounting Description: Both rigid and vibration spring isolated base mounted

Model	Box Size	Overall Dimensions * (in)			Test Weight (lb)	Mounting	Sds (g), z/h=1	Sds (g), z/h=0	Unit
		Length	Width	Height					
FXV-0809B-36D-H / CXVB-158-0809-5	0809	170.5	164.6	239.0	15,720	Rigid base	1.5	2.5	UUT 1A
					16,060	Rigid base	1.5	2.5	UUT 1B
FXV-1218C-36T-L ¹ / CXVB-643-1218-60	1218	298.3	204.9	262.6	51,294	Flexible base (spring isolators)	1.5	2.5	UUT 2A

*Note: Dimensions for tested units include access options and accessories

UUT1A

UNIT UNDER TEST (UUT) Summary Sheet



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model Number: FXV-0809B-36D-H / CXVB-158-0809-5

Product Construction Summary:

Galvanized carbon steel structural frame and cold water basin

Options / Component Summary:

Integral pumps with standard makeup/drain/overflow connections; mechanical makeup; internal walkway; internal ladder; louver face platform with guardrails, ladder, safety cage and safety gate; access door platform with guardrails, ladder and safety gate; 1'-11 1/4" fan cylinder extensions; combined inlet shields on coil air intake; fan motor removal system; vibration cutout switches, electric water level control with solenoid valve; low water cutout and thermostat; extended lubrication lines; galvanized steel dual coils; 5 HP Weg fan motor; Multi-Wing glass fiber reinforced plastic 48" diameter fan; Cofimco aluminum 48" diameter fan; 5 HP Grundfos pump; Indeeco copper and stainless steel element basin heaters.

Note: The UUT was tested full of operating content and was operational before, during and after shaking. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Test Unit Overall Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
15,720	170.5	164.6	239	6.0	6.3	15.8

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2016	ICC-ES AC156	1.5	1.0	1.5	2.40	1.80	1.00	0.40
		2.5	0.0	1.5	2.50	1.00	1.67	0.67

Unit Mounting Description:



Unit was rigidly attached to shake table interface frame with (8) 3/4" diameter Grade 5 bolts

UUT1B

UNIT UNDER TEST (UUT) Summary Sheet



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model Number: FXV-0809B-36D-H / CXVB-158-0809-5

Product Construction Summary:

Galvanized carbon steel structural frame and cold water basin

Options / Component Summary:

Integral pumps with standard makeup/drain/overflow connections; mechanical makeup; internal walkway; internal ladder; louver face platform with guardrails, ladder, safety cage and safety gate; access door platform with guardrails, ladder and safety gate; 1'-11 1/4" fan cylinder extensions; combined inlet shields on coil air intake; fan motor removal system; vibration cutout switches, electric water level control with solenoid valve; low water cutout and thermostat; extended lubrication lines; galvanized steel dual coils; 3 HP Nidec fan motor; 3 HP Weg fan motor; Multi-Wing glass fiber reinforced plastic 48" diameter fan; Cofimco aluminum 48" diameter fans (2); 5 HP Grundfos pump; Indeeco copper and stainless steel element basin heaters.

Note: The UUT was tested full of operating content and was operational before, during and after shaking. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Test Unit Overall Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	X	Y	Z
16,060	170.5	164.6	239	5.3	6.3	16.3

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2016	ICC-ES AC156	1.5	1.0	1.5	2.40	1.80	1.00	0.40
		2.5	0.0	1.5	2.50	1.00	1.67	0.67

Unit Mounting Description:



Unit was rigidly attached to shake table interface frame with (8) 3/4" diameter Grade 5 bolts

UUT2A

UNIT UNDER TEST (UUT) Summary Sheet



Manufacturer: Baltimore Aircoil Company

Product Line: FXV Closed Circuit Cooling Towers and CXVB Evaporative Condensers

Model Number: FXV-1218C-36T-L / CXVB-643-1218-60

Product Construction Summary:

Stainless steel structural frame and cold water basin

Options / Component Summary:

Sweeper piping with bottom connection; redundant pump system with standard makeup/drain/overflow connections; mechanical makeup; internal walkway; internal service platform with guardrails, ladder and safety gate; louver face platform with guardrails, ladder, safety cage and safety gate; access door platform with guardrails, ladder and safety gate; 1'-11 1/4" fan cylinder extensions; combined inlet shields on coil air intake; fan motor removal system; vibration cutout switches, electric water level control with solenoid valve; low water cutout and thermostat; extended lubrication lines; stainless steel tri coils; 20 HP Nidec fan motor; 40 HP Weg fan motor; Multi-Wing glass fiber reinforced plastic 66" diameter fan; Cofimco and Bailsco aluminum 66" diameter fans; 10 HP Grundfos pumps; Indeeco copper and stainless steel element basin heaters.

Note: The UUT was tested full of operating content and was operational before, during and after shaking. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Test Unit Overall Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	X	Y	Z
51,294	298.3	204.9	262.6	1.8	1.5	3.5

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2016	ICC-ES AC156	1.5	1.0	1.5	2.40	1.80	1.00	0.40
		2.5	0.0	1.5	2.50	1.00	1.67	0.67

Unit Mounting Description:



The unit was flexibly attached to the shake table with (6) Mason SLFADA600 isolators and a specialized fixture. (48) 1" diameter Grade 8 bolts attached the isolators to the table. (24) 1" diameter Grade 8 bolts attached the fixture to the isolators. The unit was bolted directly to the specialized fixture with (16) 3/4" diameter Grade 5 bolts