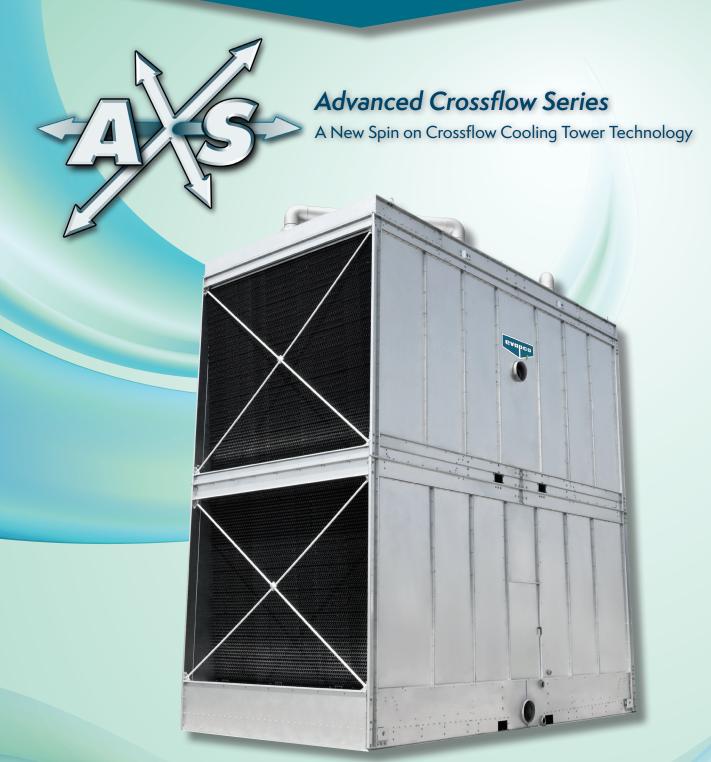
COOLING TOWERS



Engineering Data

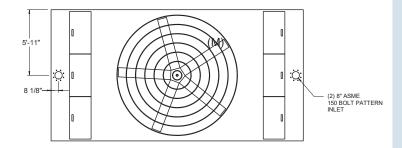


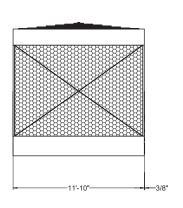


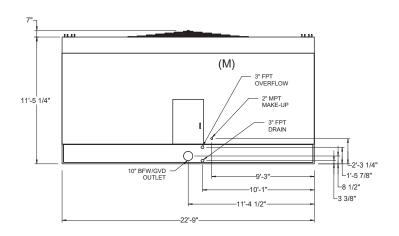


Models: AXS 12-9G22 to AXS 12-9P22







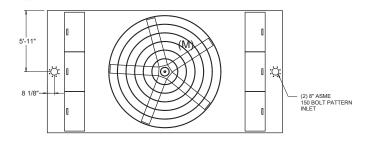


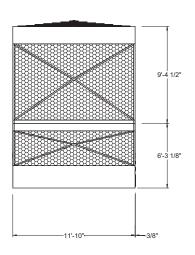
	Montool	ASHRAE		4 · C	Weights (LBS)		
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)	Airflow (CFM)	Shipping Weight	Operating Weight	
AXS 12-9G22	317	233.9	5	69,500	12,340	25,190	
AXS 12-9H22	357	175.7	7.5	79,500	12,400	25,240	
AXS 12-9122	389	143.4	10	87,500	12,420	25,260	
AXS 12-9J22	438	107.6	15	100,000	12,520	25,370	
AXS 12-9K22	477	87.8	20	110,000	12,590	25,430	
AXS 12-9L22	509	75.0	25	118,400	12,620	25,460	
AXS 12-9M22	537	65.9	30	125,700	12,670	25,520	
AXS 12-9N22	584	53.7	40	138,200	12,870	25,710	
AXS 12-9O22	623	45.9	50	148,700	12,980	25,820	
AXS 12-9P22	657	40.3	60	157,900	13,230	26,070	

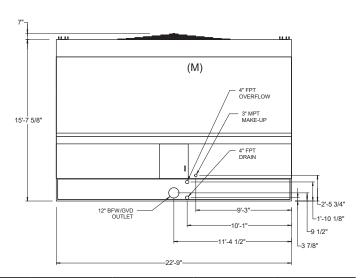
- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- (4) Fan guard does not ship factory mounted.
- (5) Nominal tonnage is based on 3 gpm per ton at 95°F entering water temperature, 85°F leaving water temperature, and 78°F wet-bulb temperature

Models: AXS 12-13122 to AXS 12-13Q22







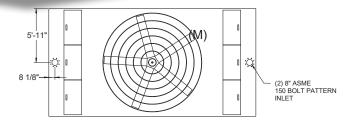


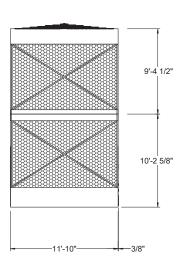
		ASHRAE		Airflow		Weights (LBS)	
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor Airflow (HP) (CFM)	Shipping Weight	Heaviest Section	Operating Weight	
AXS 12-13122	479	172.8	10	70,200	16,910	10,410	35,490
AXS 12-13J22	533	128.3	15	116,100	17,010	10,520	35,590
AXS 12-13K22	575	103.8	20	127,600	17,080	10,580	35,660
AXS 12-13L22	610	88.1	25	137,400	17,110	10,620	35,690
AXS 12-13M22	640	77.0	30	145,900	17,160	10,670	35,740
AXS 12-13N22	691	62.3	40	160,400	17,360	10,870	35,940
AXS 12-13O22	733	52.9	50	172,700	17,470	10,970	36,050
AXS 12-13P22	769	46.3	60	183,400	17,720	11,220	36,300
AXS 12-13Q22	816	39.3	75	197,300	17,880	11,390	36,460

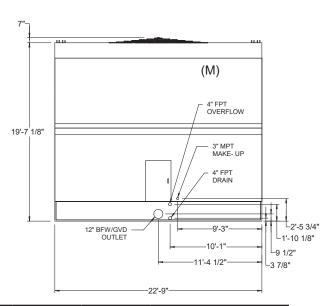
- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- $(4) \ Nominal \ tonnage \ is \ based \ on \ 3 \ gpm \ per \ ton \ at \ 95°F \ entering \ water \ temperature, \ 85°F \ leaving \ water \ temperature, \ and \ 78°F \ wet-bulb \ temperature$
- ♦ Heaviest section is upper section.

Models: AXS 12-17122 to AXS 12-17Q22







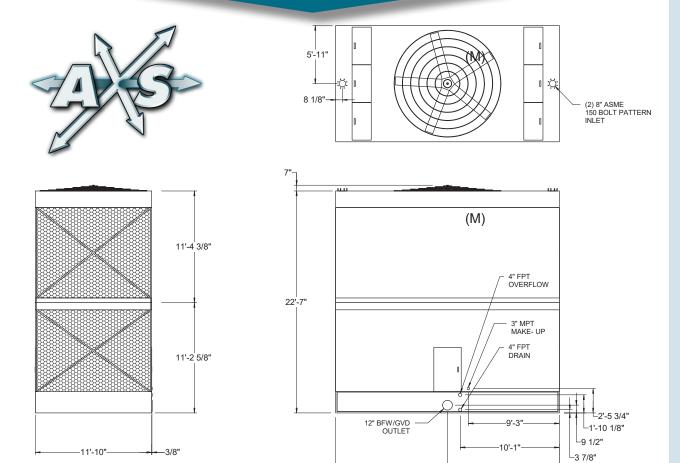


		ASHRAE	Fan Adatan Ainflana			Weights (LBS)	
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)	Airflow (CFM)	Shipping Weight	Heaviest Section	Operating Weight
AXS 12-17122	548	197.2	10	88,100	18,590	10,410	37,170
AXS 12-17J22	616	147.9	15	127,200	18,690	10,520	37,270
AXS 12-17K22	676	121.7	20	139,900	18,760	10,580	37,340
AXS 12-17L22	721	103.8	25	150,600	18,790	10,620	37,370
AXS 12-17M22	762	91.5	30	159,900	18,840	10,670	37,420
AXS 12-17N22	831	74.8	40	175,900	19,040	10,870	37,620
AXS 12-17O22	880	63.4	50	189,300	19,150	10,970	37,730
AXS 12-17P22	914	54.9	60	201,000	19,400	11,220	37,980
AXS 12-17Q22	982	47.1	75	216,400	19,560	11,390	38,140

- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- [4] Nominal tonnage is based on 3 gpm per ton at 95°F entering water temperature, 85°F leaving water temperature, and 78°F wet-bulb temperature

[♦] Heaviest section is upper section.

Models: AXS 12-20122 to AXS 12-20R22



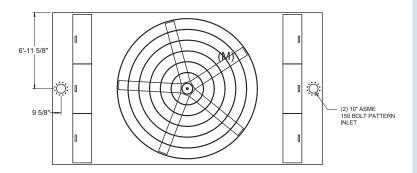
-11'-4 1/2"-

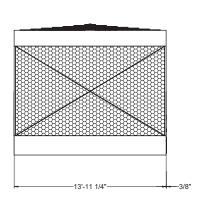
		ASHRAE				Weights (LBS)	
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)	Airflow (CFM)	Shipping Weight	Heaviest Section	Operating Weight
AXS 12-20122	548	196.4	10	116,700	19,880	11,290	38,460
AXS 12-20J22	629	150.2	15	133,400	19,990	11,390	38,570
AXS 12-20K22	693	124.1	20	146,800	20,050	11,460	38,630
AXS 12-20L22	747	107.1	25	158,000	20,090	11,490	38,670
AXS 12-20M22	794	94.9	30	167,800	20,140	11,540	38,720
AXS 12-20N22	874	78.3	40	184,600	20,340	11,740	38,920
AXS 12-20022	971	69.6	50	198,700	20,450	11,850	39,030
AXS 12-20P22	1022	61.0	60	211,000	20,690	12,100	39,270
AXS 12-20Q22	1087	52.0	75	227,200	20,860	12,260	39,440
AXS 12-20R22	1178	42.2	100	249,800	21,250	12,650	39,830

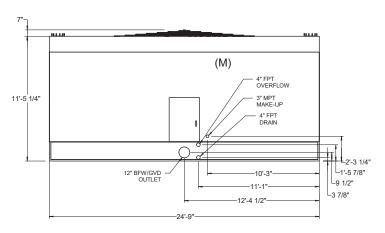
- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- (4) Fan guard does not ship factory mounted.
- $(5) \ Nominal \ tonnage \ is \ based \ on \ 3 \ gpm \ per \ ton \ at \ 95°F \ entering \ water \ temperature, \ 85°F \ leaving \ water \ temperature, \ and \ 78°F \ wet-bulb \ temperature$
- lacktriangle Heaviest section is upper section.

Models: AXS 14-9H24 to AXS 14-9P24







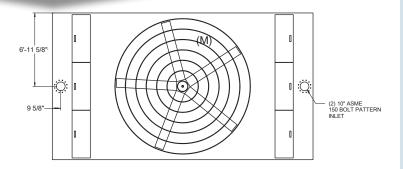


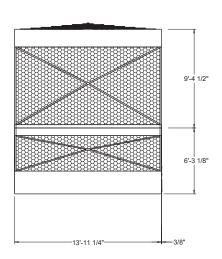
		ASHRAE			Weigh	ts (LBS)
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)			Operating Weight
AXS 14-9H24	412	199.8	7.5	90,200	14,780	30,960
AXS 14-9I24	446	162.2	10	99,200	14,850	31,030
AXS 14-9J24	499	120.9	15	113,400	14,800	30,990
AXS 14-9K24	540	98.1	20	124,700	14,870	31,050
AXS 14-9L24	574	83.5	25	134,200	15,060	31,240
AXS 14-9M24	603	73.1	30	142,500	15,110	31,290
AXS 14-9N24	653	59.4	40	156,700	15,280	31,460
AXS 14-9O24	694	50.5	50	168,600	15,290	31,470
AXS 14-9P24	730	44.2	60	179,000	15,550	31,730

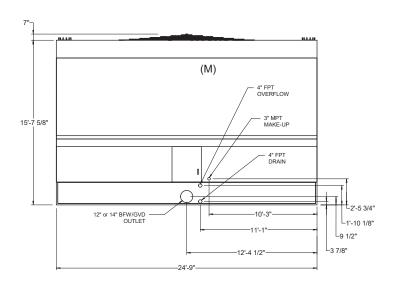
- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- (4) Fan guard does not ship factory mounted.
- $(5) \ Nominal \ tonnage \ is \ based \ on \ 3 \ gpm \ per \ ton \ at \ 95°F \ entering \ water \ temperature, \ 85°F \ leaving \ water \ temperature, \ and \ 78°F \ wet-bulb \ temperature$

Models: AXS 14-13J24 to AXS 14-13R24









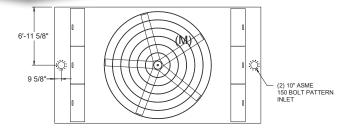
	Nominal ASHRAE Fan Motor Airflow			W	eights (LBS)		
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	(HP) (CFM)	Shipping Weight	Heaviest Section	Operating Weight	
AXS 14-13J24	634	152.6	15	132,600	19,970	12,340	43,580
AXS 14-13K24	684	123.5	20	145,800	20,040	12,400	43,650
AXS 14-13L24	726	104.8	25	157,000	20,230	12,590	43,830
AXS 14-13M24	761	91.6	30	166,700	20,280	12,650	43,890
AXS 14-13N24	822	74.1	40	183,300	20,450	12,820	44,060
AXS 14-13O24	871	62.9	50	197,300	20,460	12,830	44,070
AXS 14-13P24	914	55.0	60	209,500	20,720	13,080	44,330
AXS 14-13Q24	970	46.7	75	225,400	20,880	13,250	44,490
AXS 14-13R24	1047	37.8	100	247,800	21,360	13,730	44,970

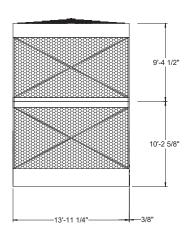
- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
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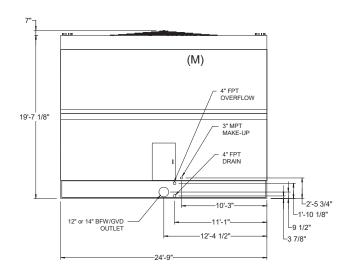
lacktriangle Heaviest section is upper section.

Models: AXS 14-17J24 to AXS 14-17R24









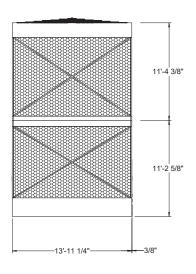
A4. J.I	Montrel	ASHRAE	F M. I.	A: (I.	Airflow		
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)		Shipping Weight	Heaviest Section	Operating Weight
AXS 14-17J24	671	161.1	15	105,600	21,870	12,340	45,480
AXS 14-17K24	738	132.9	20	160,900	21,940	12,400	45,540
AXS 14-17L24	795	114.5	25	173,200	22,130	12,590	45,730
AXS 14-17M24	870	104.5	30	184,000	22,180	12,650	45,790
AXS 14-17N24	941	84.7	40	202,300	22,350	12,820	45,960
AXS 14-17O24	999	72.0	50	217,800	22,360	12,830	45,970
AXS 14-17P24	1050	63.0	60	231,300	22,620	13,080	46,220
AXS 14-17Q24	1115	53.6	75	248,900	22,780	13,250	46,390
AXS 14-17R24	1206	43.4	100	273,600	23,260	13,730	46,870

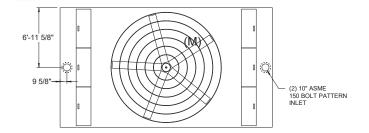
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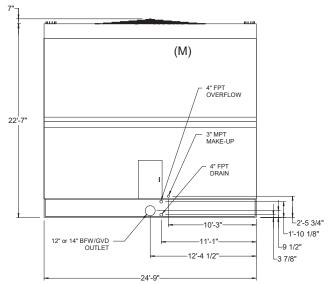
[♦] Heaviest section is upper section.

Models: AXS 14-20J24 to AXS 14-20S24









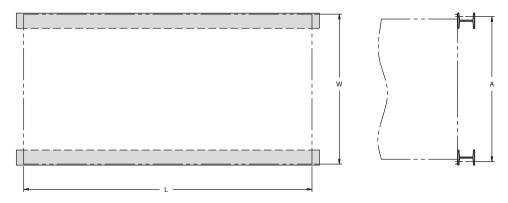
		ASHRAE		Airflow		Weights (LBS)	
Model Number	Nominal Tonnage	STD 90.1 (gpm/HP)	Fan Motor (HP)	(CFM)	Shipping Weight	Heaviest Section	Operating Weight
AXS 14-20J24	778	185.8	15	154,200	23,310	13,310	46,910
AXS 14-20K24	843	151.1	20	169,700	23,370	13,370	46,980
AXS 14-20L24	898	128.7	25	182,600	23,560	13,560	47,170
AXS 14-20M24	970	115.9	30	194,000	23,610	13,620	47,220
AXS 14-20N24	1045	93.7	40	213,300	23,780	13,790	47,390
AXS 14-20O24	1108	79.4	50	229,600	23,790	13,800	47,400
AXS 14-20P24	1161	69.4	60	243,900	24,050	14,050	47,660
AXS 14-20Q24	1231	58.8	75	262,500	24,220	14,220	47,830
AXS 14-20R24	1326	47.5	100	288,600	24,700	14,700	48,300
AXS 14-20S24	1405	40.3	125	310,600	25,800	15,800	49,400

- (2) Do not use catalog drawings for certified prints. Dimensions and weights are subject to change.
- (3) Adequate spacing must be allowed for access to the cooling tower. Refer to EVAPCO's Equipment Layout Manual.
- (4) Fan guard does not ship factory mounted.
- (5) Nominal tonnage is based on 3 gpm per ton at 95°F entering water temperature, 85°F leaving water temperature, and 78°F wet-bulb temperature
- ♦ Heaviest section is upper section.

Structural Steel Support

All AXS Models

Suggested I-Beam Arrangement



Longitudinal Steel Support Arrangement

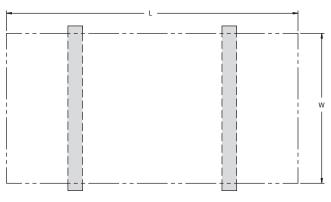
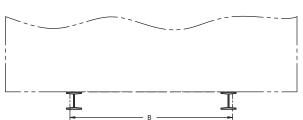
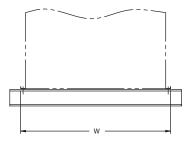


Table 1										
				Standard	Minimum					
Unit	W			В	В					
		L L	A	В	D					
12x22	11′-10″	22'-9"	11'-8 1/2"	12'-10"	9'-6"					





Transverse Steel Support Arrangement

NOTES

- 1. These are suggested arrangements for preliminary layout purposes. Consult your EVAPCO representative for factory certified steel support drawings.
- 2. Beams should be sized in accordance with accepted structural practices. Maximum deflection of beam under unit to be 1/360 of the unit length, not to exceed 1/2".
- 3. Deflection may be calculated by using 55% of the operating weight as a uniform load on each beam.
- 4. Beams should be level before setting the unit in place. Do not level the unit by shimming between it and the I-beams.
- 5. Support beams and anchor bolts are to be furnished by others.
- 6. Dimensions, weights and data are subject to change without notice. Refer to the factory certified drawings for exact dimensions.
- 7. The unit will have pre-punched anchor bolt holes in the standard and minimum hole spacing locations only (see B dimensions from table 1). All other anchor bolt holes will be located and drilled by others
- 8. For alternate beam positioning, please consult your EVAPCO representative.

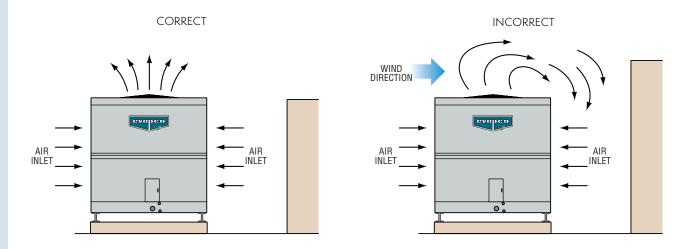
NOTE: OPTIONAL BOTTOM CONNECTIONS WILL REQUIRE THE UNIT TO BE ELEVATED TO ALLOW FOR PIPING.

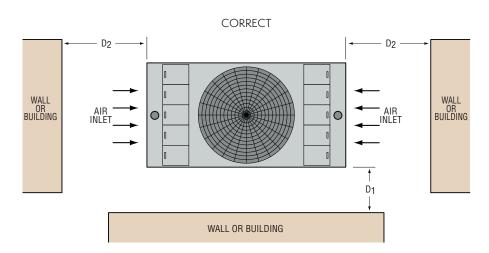
Equipment Layout Guidelines

All AXS Models

Unit Layout

Since evaporative cooling equipment requires large quantities of air, adequate spacing around the unit must be provided for it to perform properly. An equally important consideration when laying out the equipment is to locate the unit so that recirculation is minimized. The top of the cooling tower must be equal to or higher than any adjacent walls, buildings or other structures. When the top of the unit is lower than the surrounding structures recirculation can be a major problem.





		Minimum Dimension (ff.)*							
Unit	D1	D2 - one unit	D2 - two units	D2 - three units	D2 - four units				
Single Stack - 12' wide	3.5	7	11	13.5	15				
Double Stack - 12' wide	3.5	7.5	12	15.5	18				
Single Stack - 14' wide	3.5	8	12	14.5	16				
Double Stack - 14' wide	3.5	8	13	16.5	19				

^{*}Minimum dimensions will increase on multi-cell installations. CONSULT FACTORY FOR LARGER INSTALLATIONS.



North America



EVAPCO, Inc.

World Headquarters Westminster, MD USA 410.756.2600 marketing@evapco.com



EVAPCO East Taneytown, MD USA



EVAPCO East Key Building

Taneytown, MD USA



EVAPCO Midwest Greenup, IL USA

217.923.3431 evapcomw@evapcomw.com



Evapcold Manufacturing

Greenup, IL USA



EVAPCO Newton Newton, IL USA

618.783.3433 evapcomw@evapcomw.com



EVAPCO West

Madera, CA USA 559.673.2207 contact@evapcowest.com



EVAPCO Alcoil, Inc.

717.347.7500 info@evapco-alcoil.com



EVAPCO lowa Lake View, IA USA

EVAPCO lowa

Sales & Engineering Medford, MN USA 507.446.8005 evapcomn@evapcomn.com



EVAPCO LMP ULC

Laval, Quebec, Canada 450.629.9864 info@evapcolmp.ca



EVAPCO Select Technologies, Inc. Belmont, MI USA

844.785.9506 emarketing@evapcoselect.com



Refrigeration Vessels & Systems Corporation

Bryan, TX USA 979.778.0095 rvs@rvscorp.com



Tower Components, Inc.

Ramseur, NC USA 336.824.2102 mail@towercomponentsinc.com



EvapTech, Inc.

Edwardsville, KS USA 913.322.5165 marketing@evaptech.com

EVAPCO Dry Cooling, Inc.



Bridgewater, NJ USA 908.379.2665 info@evapcodc.com

EVAPCO Dry Cooling, Inc.

Littleton, CO USA 908.895.3236 info@evapcodc.com

EVAPCO Power México S. de R.L. de C.V.

Mexico City, Mexico (52) 55.8421.9260 info@evapcodc.com



EVAPCO Asia Pacific Headquarters

Baoshan Industrial Zone Shanghai, P.R. China (86) 21.6687.7786 marketing@evapcochina.com



EVAPCO (Shanghai)

Refrigeration Equipment Co., Ltd.
Baoshan Industrial Zone, Shanghai, P.R. China



EVAPCO (Beijing) Refrigeration Equipment Co., Ltd.

Huairou District, Beijing, P.R. China (86) 10.6166.7238 marketing@evapcochina.com



EVAPCO Air Cooling Systems (Jiaxing) Company, Ltd.

Jiaxing, Zhejiang, P.R. China (86) 573.8311.9379 info@evapcochina.com



(61) 02.9627.3322 sales@evapco.com.au

EvapTech (Shanghai)

Cooling Tower Co., Ltd
Baoshan District, Shanghai, P.R. China. Tel: (86) 21.6478.0265

EvapTech Asia Pacific Sdn. Bhd

Puchong, Selangor, Malaysia (60) 3.8070.7255 marketing-ap@evaptech.com

Europe | Middle East | Africa

EVAPCO Europe EMENA Headquarters

Tongeren, Belgium (32) 12.39.50.29 evapco.europe@evapco.be



EVAPCO Europe BV

Tongeren, Belgium



EVAPCO Europe, S.r.l.

Milan, Italy (39) 02.939.9041 evapcoeurope@evapco.it



EVAPCO Europe, S.r.l.



EVAPCO Europe A/S



Sondrio, Italy

Aabybro, Denmark (45) 9824.4999 info@evapco.dk

EVAPCO Europe GmbH

Meerbusch, Germany (49) 2159.69560 info@evapco.de

EVAPCO Middle East DMCC

Dubai, United Arab Emirates (971) 4.448,7242 info@evapco.ae



Evap Egypt Engineering Industries Co.

A licensed manufacturer of EVAPCO, Inc. Nasr City, Cairo, Egypt (202) 24044997 mmanz@tiba-group.com



EVAPCO S.A. (Pty.) Ltd.

A licensed manufacturer of EVAPCO, Inc. Isando, South Africa (27) 11.392.6630 evapco@evapco.co.za

South America



EVAPCO Brasil

Equipamentos Industriais Ltda. Indaiatuba, São Paulo, Brazil (55) 11.5681.2000 vendas@evapco.com.br



FanTR Technology Resources Itu. São Paulo, Brazil

(55) 11.4025.1670 fantr@fantr.com

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Bulletin AXS22ENG 3M/10-22/AXS22ENG