AST Series

Counter Flow Induced Draft Cooling Tower

Engineering Data

Proud Member

Amcot Cooling Tower Inc.

Since 1986

www.amcot.com

Models AST 1011-032 to 1021-154

Single Cell Counter Flow Capacity Data

90 to 185 Nominal Tons

MODEL	NOMINAL TONS	TEMPERATURES SHOWN BELOW ARE IN FAHRENHEIT (°F). FLOW RATES ARE IN USGPM.															
		HWT	82	85	87	87	90	92	92	92	95	97	95	96	97	100	102
		CWT	72	75	77	77	80	82	77	82	85	87	85	86	87	90	92
		AWB	65	65	65	70	70	70	70	75	75	75	78	80	80	80	80
AST 1011-032	90		191	261	309	218	296	352	171	249	338	400	270	252	285	386	455
AST 1011-033	102		221	292	341	250	330	383	202	282	372	432	305	288	320	420	487
AST 1011-034	105		233	302	348	261	338	391	216	294	379	438	316	300	331	427	491
AST 1011-052	108		228	311	369	260	354	418	204	298	404	477	323	301	341	460	540
AST 1011-053	121		265	348	406	298	392	457	241	337	442	513	363	343	382	499	578
AST 1011-054	125		278	359	414	312	402	463	257	349	451	519	376	356	394	507	582
AST 1011-072	124		264	359	425	301	408	482	236	344	464	548	372	349	393	529	621
AST 1011-073	139		303	399	464	342	448	521	277	387	506	586	416	393	437	570	659
AST 1011-074	143		319	411	474	357	460	530	295	402	515	593	430	409	451	578	664
AST 1011-102	137		292	396	469	332	451	531	261	379	512	604	411	385	434	583	683
AST 1011-103	152		333	438	509	376	492	571	305	424	554	642	457	432	480	624	720
AST 1011-104	157		351	451	519	392	504	580	324	440	565	648	472	448	495	633	724
AST 1011-152	157		335	454	536	382	515	607	300	435	586	688	471	441	496	666	777
AST 1011-153	174		382	500	581	430	562	651	350	485	632	730	522	494	548	710	818
AST 1011-154	179		400	514	591	448	574	659	371	502	641	735	538	511	564	718	821
AST 1021-052	111		234	320	380	268	364	431	210	306	415	490	332	310	351	474	557
AST 1021-053	125		272	358	417	307	403	470	248	347	455	530	374	353	393	515	595
AST 1021-054	129		286	371	428	322	416	479	266	361	466	537	388	368	407	524	601
AST 1021-072	128		271	370	438	310	420	497	243	354	479	565	383	359	405	546	641
AST 1021-073	143		313	411	478	352	462	538	285	398	521	605	429	404	451	588	679
AST 1021-074	148		329	424	490	369	475	547	305	414	532	613	444	422	466	598	685
AST 1021-102	141		299	406	481	340	461	546	267	389	525	620	422	395	445	598	701
AST 1021-103	157		344	452	526	388	509	591	315	438	573	664	472	446	496	646	745
AST 1021-104	163		362	466	537	405	522	601	335	456	585	672	488	464	512	655	751
AST 1021-152	162		344	467	552	392	530	626	308	447	602	710	485	454	511	686	803
AST 1021-153	180		395	517	601	444	581	674	361	501	654	756	539	510	566	735	848
AST 1021-154	185		414	531	611	463	593	681	383	519	664	762	556	528	583	743	850

Thermal performance of the AST Series models listed above have been certified in accordance to Cooling Technology Institute (CTI) Standard STD-201. Certification covers single cell models only as shown above. For multiple cell configurations, please contact your local representative or Amcot Cooling Tower Corporation. For additional verification please visit www.cti.org.

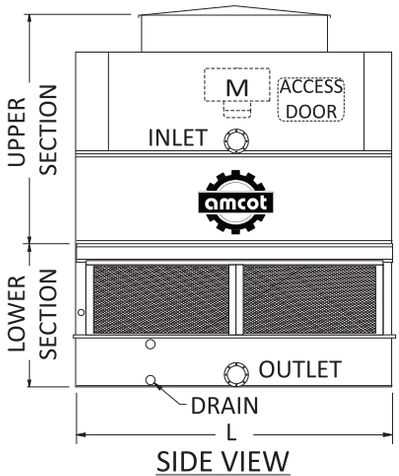
General Notes:

1. Nominal tons is calculated as 3 GPM/TON at 95°F HWT, 85°F CWT, and 78°F AWB. 1 Ton = 15,000 BTU/HR.
2. Capacities shown above are single cell.
3. An expanded capacity table in accordance with CTI STD-201 can be viewed at www.amcot.com.

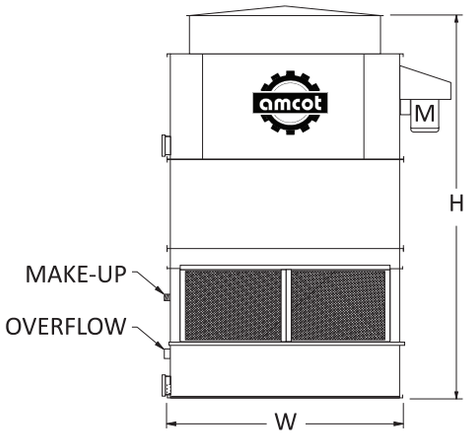
Models AST 1011-032 to 1021-154

Single Cell Counter Flow Physical Data

90 to 185 Nominal Tons



SIDE VIEW



END VIEW

MODEL	NOMINAL TONS	NOMINAL DIMENSIONS (INCHES)			PIPING CONNECTIONS (INCHES)					FAN MOTOR (HP)	FAN DIAMETER (INCHES)	AIR VOLUME (CFM)	NOMINAL WATER FLOW (GPM)
		LENGTH (L)	WIDTH (W)	HEIGHT (H)	INLET	OUTLET	OVERFLOW	DRAIN	MAKE-UP				
AST 1011-032	90	8'-6"	7'-4"	11'-4"	8"	8"	2"	2"	1-1/4"	3	72"	28,322	270
AST 1011-033	102	8'-6"	7'-4"	12'-4"	8"	8"	2"	2"	1-1/4"	3	72"	26,246	305
AST 1011-034	105	8'-6"	7'-4"	13'-4"	8"	8"	2"	2"	1-1/4"	3	72"	24,701	316
AST 1011-052	108	8'-6"	7'-4"	11'-4"	8"	8"	2"	2"	1-1/4"	5	72"	33,537	323
AST 1011-053	121	8'-6"	7'-4"	12'-4"	8"	8"	2"	2"	1-1/4"	5	72"	31,068	363
AST 1011-054	125	8'-6"	7'-4"	13'-4"	8"	8"	2"	2"	1-1/4"	5	72"	29,244	376
AST 1011-072	124	8'-6"	7'-4"	11'-4"	8"	8"	2"	2"	1-1/4"	8	72"	38,252	372
AST 1011-073	139	8'-6"	7'-4"	12'-4"	8"	8"	2"	2"	1-1/4"	8	72"	35,426	416
AST 1011-074	143	8'-6"	7'-4"	13'-4"	8"	8"	2"	2"	1-1/4"	8	72"	33,348	430
AST 1011-102	137	8'-6"	7'-4"	11'-4"	8"	8"	2"	2"	1-1/4"	10	72"	41,934	411
AST 1011-103	152	8'-6"	7'-4"	12'-4"	8"	8"	2"	2"	1-1/4"	10	72"	38,819	457
AST 1011-104	157	8'-6"	7'-4"	13'-4"	8"	8"	2"	2"	1-1/4"	10	72"	36,541	472
AST 1011-152	157	8'-6"	7'-4"	11'-4"	8"	8"	2"	2"	1-1/4"	15	72"	47,620	471
AST 1011-153	174	8'-6"	7'-4"	12'-4"	8"	8"	2"	2"	1-1/4"	15	72"	44,048	522
AST 1011-154	179	8'-6"	7'-4"	13'-4"	8"	8"	2"	2"	1-1/4"	15	72"	41,458	538
AST 1021-052	111	9'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	5	72"	34,527	332
AST 1021-053	125	9'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	5	72"	32,050	374
AST 1021-054	129	9'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	5	72"	30,203	388
AST 1021-072	128	9'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	8	72"	39,405	383
AST 1021-073	143	9'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	8	72"	36,566	429
AST 1021-074	148	9'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	8	72"	34,461	444
AST 1021-102	141	9'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	10	72"	43,220	422
AST 1021-103	157	9'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	10	72"	40,087	472
AST 1021-104	163	9'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	10	72"	37,778	488
AST 1021-152	162	9'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	15	72"	49,121	485
AST 1021-153	180	9'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	15	72"	45,524	539
AST 1021-154	185	9'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	15	72"	42,895	556

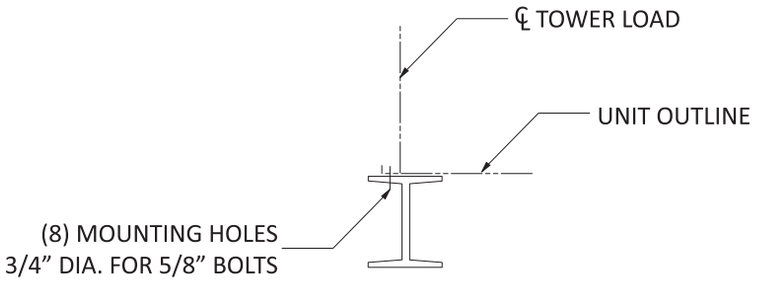
NOTES:

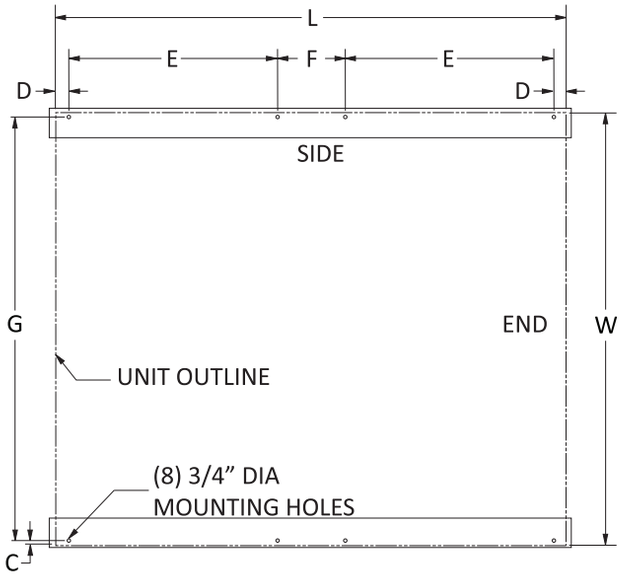
1) NOMINAL TONS IS BASED ON 1 TON = 3 GPM AT 95°F HWT - 85°F CWT - 78°F AMBIENT WET-BULB. 1 TON = 15,000 BTU/HR.
2) AIR VOLUME IS NOMINAL AND MAY CHANGE DEPENDING ON SPECIFIC DESIGN CONDITIONS.
3) REFER TO TECHNICAL DATA SHEETS AND GENERAL ARRANGEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
4) DATA HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 1011-032 to 1021-154

Single Cell Counter Flow Foundation Data

90 to 185 Nominal Tons





MODEL	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	ANCHOR BOLT QTY & DIAMETER	NOMINAL DIMENSIONS (INCHES)							LOAD PER ANCHOR (LBS)
				L	W	C	D	E	F	G	
AST 1011-032	2,591	6,344	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	793
AST 1011-033	2,889	6,743	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	843
AST 1011-034	3,186	7,149	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	894
AST 1011-052	2,963	6,441	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	805
AST 1011-053	3,303	6,913	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	864
AST 1011-054	3,643	7,380	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	922
AST 1011-072	3,033	6,528	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	816
AST 1011-073	3,373	7,002	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	875
AST 1011-074	3,713	7,475	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	934
AST 1011-102	3,033	6,533	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	817
AST 1011-103	3,373	7,014	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	877
AST 1011-104	3,713	7,491	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	936
AST 1011-152	3,141	6,654	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	832
AST 1011-153	3,481	7,133	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	892
AST 1011-154	3,821	7,624	8 x 5/8"	8'-6"	7'-4"	3/4"	6"	39"	12"	86 1/2"	953
AST 1021-052	3,138	6,818	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	852
AST 1021-053	3,498	7,317	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	915
AST 1021-054	3,858	7,810	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	976
AST 1021-072	3,208	6,903	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	863
AST 1021-073	3,568	7,409	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	926
AST 1021-074	3,928	7,907	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	988
AST 1021-102	3,208	6,913	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	864
AST 1021-103	3,568	7,421	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	928
AST 1021-104	3,928	7,929	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	991
AST 1021-152	3,316	7,036	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	879
AST 1021-153	3,676	7,548	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	943
AST 1021-154	4,036	8,056	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1007

NOTES:

1) ALL TOWERS MUST BE PROPERLY ANCHORED AND INSTALLED ON A LEVEL SURFACE.
2) STEEL I-BEAM IS RECOMMENDED AND SHOWN.
3) FOR ALTERNATE FOUNDATION MATERIALS PLEASE CONTACT AMCOT.
4) INSTALLER MUST FOLLOW ALL APPLICABLE BUILDING CODES.
5) DATA IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 1031-052 to 1041-204

Single Cell Counter Flow Capacity Data

119 to 238 Nominal Tons

MODEL	NOMINAL TONS	TEMPERATURES SHOWN BELOW ARE IN FAHRENHEIT (°F). FLOW RATES ARE IN USGPM.															
		HWT	82	85	87	87	90	92	92	92	95	97	95	96	97	100	102
		CWT	72	75	77	77	80	82	77	82	85	87	85	86	87	90	92
		AWB	65	65	65	70	70	70	70	75	75	75	78	80	80	80	80
AST 1031-052	119		252	345	409	288	392	465	225	330	447	530	357	334	378	511	602
AST 1031-053	135		294	388	453	332	438	510	268	376	494	575	405	382	426	559	648
AST 1031-054	141		311	403	466	350	452	523	287	394	507	586	422	400	443	571	656
AST 1031-072	137		291	396	470	331	451	534	260	379	514	609	411	385	435	587	690
AST 1031-073	155		338	446	520	382	503	585	309	432	567	659	465	439	490	640	742
AST 1031-074	161		358	462	534	401	518	598	330	451	582	670	484	459	508	653	751
AST 1031-102	151		321	437	519	366	497	589	287	418	567	670	454	425	479	647	760
AST 1031-103	171		373	491	572	420	553	643	341	475	624	724	512	484	538	704	814
AST 1031-104	178		394	509	587	442	570	657	365	497	639	736	533	506	559	718	824
AST 1031-152	174		370	503	595	421	572	676	330	482	651	768	522	488	551	742	870
AST 1031-153	195		428	561	653	482	631	734	390	544	712	826	586	554	615	803	927
AST 1031-154	203		451	581	670	505	650	749	418	567	729	837	609	579	638	817	936
AST 1031-202	192		408	554	656	465	631	744	365	532	717	845	576	539	608	817	956
AST 1031-203	215		471	617	717	530	693	805	430	599	780	904	644	609	676	880	1014
AST 1031-204	223		497	639	735	556	714	820	460	623	798	916	668	636	700	894	1023
AST 1041-072	144		306	417	496	349	475	564	273	399	542	643	433	405	457	620	730
AST 1041-073	164		358	472	552	404	533	621	326	457	601	700	493	466	519	680	788
AST 1041-074	172		381	493	569	428	552	638	352	481	621	716	516	489	542	698	802
AST 1041-102	160		338	461	548	386	525	623	301	441	599	709	479	448	505	684	806
AST 1041-103	181		395	521	608	446	588	684	361	505	663	771	544	514	572	750	868
AST 1041-104	189		419	542	626	470	608	701	388	529	682	786	568	539	596	767	880
AST 1041-152	184		390	531	630	445	605	716	348	509	689	814	551	516	582	786	924
AST 1041-153	208		454	596	695	511	671	781	414	579	757	880	623	588	654	855	988
AST 1041-154	217		482	621	717	540	695	801	445	606	779	896	650	618	682	875	1003
AST 1041-202	203		431	586	695	491	667	789	385	562	760	897	609	570	643	866	1016
AST 1041-203	229		500	658	765	565	740	860	457	638	833	967	686	648	721	940	1085
AST 1041-204	238		529	683	785	593	763	878	490	665	855	982	714	679	748	959	1098

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General Notes:

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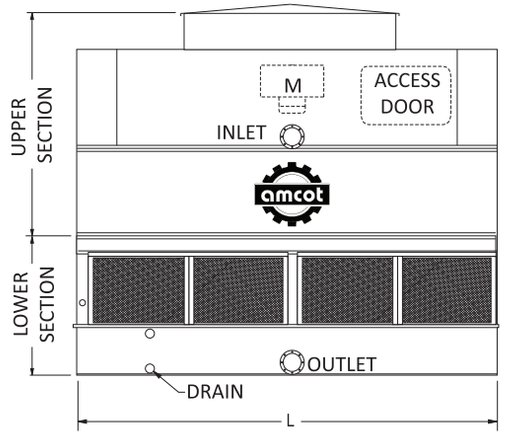
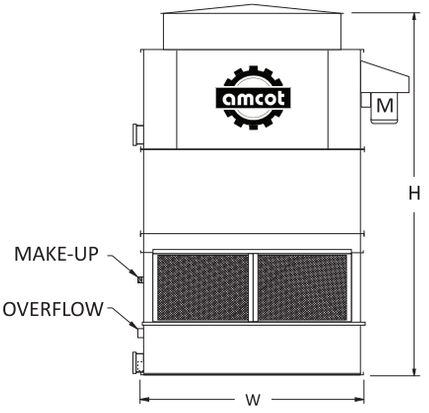
Models AST 1031-052 to 1041-204

Single Cell Counter Flow Physical Data

119 to 238 Nominal Tons



SIDE VIEW



END VIEW

MODEL	NOMINAL TONS	NOMINAL DIMENSIONS (INCHES)			PIPING CONNECTIONS (INCHES)					FAN MOTOR (HP)	FAN DIAMETER (INCHES)	AIR VOLUME (CFM)	NOMINAL WATER FLOW (GPM)
		LENGTH (L)	WIDTH (W)	HEIGHT (H)	INLET	OUTLET	OVERFLOW	DRAIN	MAKE-UP				
AST 1031-052	119	10'-6"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	5	72"	37,238	357
AST 1031-053	135	10'-6"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	5	72"	34,811	405
AST 1031-054	141	10'-6"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	5	72"	32,954	422
AST 1031-072	137	10'-6"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	8	72"	42,567	411
AST 1031-073	155	10'-6"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	8	72"	39,778	465
AST 1031-074	161	10'-6"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	8	72"	37,655	484
AST 1031-102	151	10'-6"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	10	72"	46,748	454
AST 1031-103	171	10'-6"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	10	72"	43669	512
AST 1031-104	178	10'-6"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	10	72"	41335	533
AST 1031-152	174	10'-6"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	15	72"	53250	522
AST 1031-153	195	10'-6"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	15	72"	49702	586
AST 1031-154	203	10'-6"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	15	72"	47034	609
AST 1031-202	192	10'-6"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	20	72"	58317	576
AST 1031-203	215	10'-6"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	20	72"	54390	644
AST 1031-204	223	10'-6"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	20	72"	51457	668
AST 1041-072	144	12'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	7.5	72"	45038	433
AST 1041-073	164	12'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	7.5	72"	42294	493
AST 1041-074	172	12'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	7.5	72"	40165	516
AST 1041-102	160	12'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	10	72"	49505	479
AST 1041-103	181	12'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	10	72"	46471	544
AST 1041-104	189	12'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	10	72"	44127	568
AST 1041-152	184	12'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	15	72"	56471	551
AST 1041-153	208	12'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	15	72"	52970	623
AST 1041-154	217	12'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	15	72"	50283	650
AST 1041-202	203	12'-0"	8'-0"	11'-4"	8"	8"	2"	2"	1-1/4"	20	72"	61921	609
AST 1041-203	229	12'-0"	8'-0"	12'-4"	8"	8"	2"	2"	1-1/4"	20	72"	58038	686
AST 1041-204	238	12'-0"	8'-0"	13'-4"	8"	8"	2"	2"	1-1/4"	20	72"	55078	714

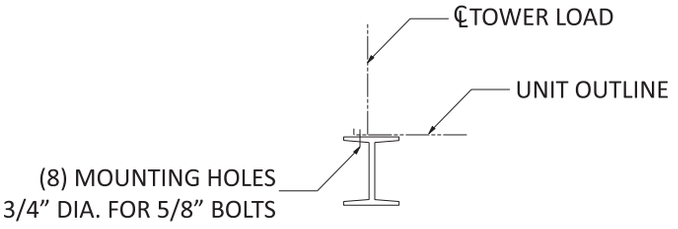
NOTES:

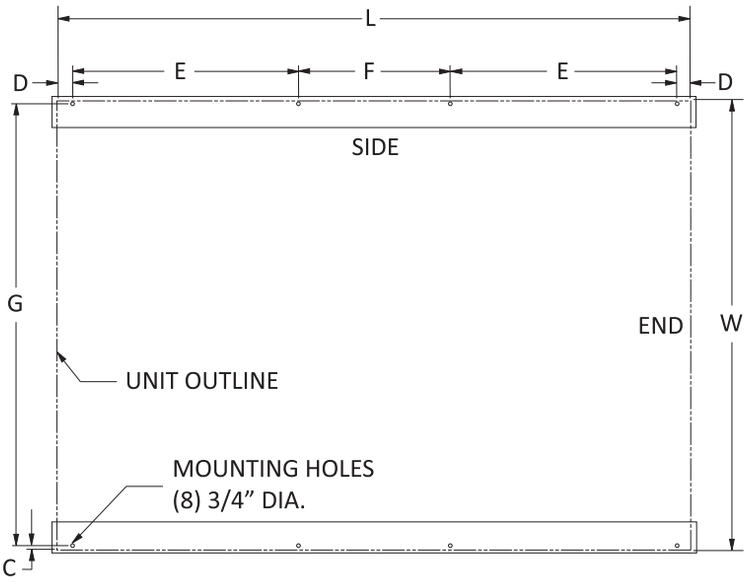
1) NOMINAL TONS IS BASED ON 1 TON = 3 GPM AT 95°F HWT - 85°F CWT - 78°F AMBIENT WET-BULB. 1 TON = 15,000 BTU/HR.
2) AIR VOLUME IS NOMINAL AND MAY CHANGE DEPENDING ON SPECIFIC DESIGN CONDITIONS.
3) REFER TO TECHNICAL DATA SHEETS AND GENERAL ARRANGEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
4) DATA HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 1031-052 to 1041-204

Single Cell Counter Flow Foundation Data

119 to 238 Nominal Tons





MODEL	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	ANCHOR BOLT QTY & DIAMETER	NOMINAL DIMENSIONS (INCHES)							LOAD PER ANCHOR (LBS)
				L	W	C	D	E	F	G	
AST 1031-052	3,660	7,946	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	993
AST 1031-053	4,080	8,522	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1065
AST 1031-054	4,500	9,096	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1137
AST 1031-072	3,730	8,031	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1004
AST 1031-073	4,150	8,620	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1078
AST 1031-074	4,570	9,207	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1151
AST 1031-102	3,730	8,045	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1006
AST 1031-103	4,150	8,637	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1080
AST 1031-104	4,570	9,223	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1153
AST 1031-152	3,838	8,169	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1021
AST 1031-153	4,258	8,764	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1096
AST 1031-154	4,678	9,356	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1170
AST 1031-202	3,853	8,190	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1024
AST 1031-203	4,273	8,796	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1100
AST 1031-204	4,693	9,391	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1174
AST 1041-072	4,253	9,158	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1145
AST 1041-073	4,733	9,830	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1229
AST 1041-074	5,213	10,493	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1312
AST 1041-102	4,253	9,178	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1147
AST 1041-103	4,733	9,855	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1232
AST 1041-104	5,213	10,518	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1315
AST 1041-152	4,361	9,304	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1163
AST 1041-153	4,841	9,985	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1248
AST 1041-154	5,321	10,663	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1333
AST 1041-202	4,376	9,330	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1166
AST 1041-203	4,856	10,013	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1252
AST 1041-204	5,336	10,689	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1336

NOTES:

1) ALL TOWERS MUST BE PROPERLY ANCHORED AND INSTALLED ON A LEVEL SURFACE.
2) STEEL I-BEAM IS RECOMMENDED AND SHOWN.
3) FOR ALTERNATE FOUNDATION MATERIALS PLEASE CONTACT AMCOT.
4) INSTALLER MUST FOLLOW ALL APPLICABLE BUILDING CODES.
5) DATA IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2011-052 to 2021-204

Single Cell Counter Flow Capacity Data

118 to 221 Nominal Tons

MODEL	NOMINAL TONS	TEMPERATURES SHOWN BELOW ARE IN FAHRENHEIT (°F). FLOW RATES ARE IN USGPM.															
		HWT	82	85	87	87	90	92	92	92	95	97	95	96	97	100	102
		CWT	72	75	77	77	80	82	77	82	85	87	85	86	87	90	92
		AWB	65	65	65	70	70	70	70	75	75	75	78	80	80	80	80
AST 2011-052	118		251	342	405	286	389	459	224	327	442	522	354	331	374	504	593
AST 2011-053	132		288	379	441	325	427	496	263	367	481	558	395	373	416	543	628
AST 2011-054	136		301	389	450	338	435	503	279	380	488	563	407	387	427	549	630
AST 2011-072	136		289	392	464	329	445	526	258	375	507	597	407	381	430	578	677
AST 2011-073	151		330	433	504	372	488	566	302	420	549	637	452	427	475	619	714
AST 2011-074	155		345	444	511	385	496	572	319	433	557	640	465	441	487	624	715
AST 2011-102	150		319	433	512	364	492	580	286	415	559	658	449	421	474	636	745
AST 2011-103	166		363	476	554	409	535	621	332	461	603	698	497	470	522	678	782
AST 2011-104	170		379	488	562	425	545	628	352	476	611	702	511	485	536	685	783
AST 2011-152	172		367	496	586	417	563	663	329	476	639	751	515	483	543	726	848
AST 2011-153	189		416	543	629	467	610	706	380	526	685	792	566	536	594	770	887
AST 2011-154	194		434	556	639	485	621	713	402	543	694	796	582	554	610	777	888
AST 2021-052	122		259	353	419	296	402	475	232	338	457	541	366	343	387	522	613
AST 2021-053	136		298	392	457	335	441	514	271	380	498	579	409	386	430	563	650
AST 2021-054	141		313	404	467	351	452	522	290	395	508	586	423	401	444	571	656
AST 2021-072	140		298	406	480	339	461	545	266	388	525	619	421	394	443	598	701
AST 2021-073	156		343	450	524	386	506	588	312	436	570	662	469	444	493	643	743
AST 2021-074	162		359	463	534	403	518	597	333	452	581	668	485	460	508	652	747
AST 2021-102	155		330	448	531	376	509	601	295	429	579	682	465	435	490	659	772
AST 2021-103	172		377	495	577	425	557	647	345	480	627	727	517	489	543	707	816
AST 2021-104	178		395	509	587	443	570	655	366	497	637	733	533	506	559	715	818
AST 2021-152	178		380	514	607	431	584	688	339	493	663	779	533	500	562	754	881
AST 2021-153	197		432	565	656	486	635	736	395	548	714	826	590	558	619	804	926
AST 2021-154	202		450	578	665	504	646	742	417	564	723	829	605	575	633	809	925
AST 2021-202	195		416	563	664	473	639	751	372	540	724	851	584	547	616	823	961
AST 2021-203	215		473	618	716	531	693	802	432	599	778	899	644	609	676	875	1006
AST 2021-204	221		495	635	729	553	708	811	459	619	790	905	663	631	694	884	1009

Thermal performance of the AST Series models listed above have been certified in accordance to Cooling Technology Institute (CTI) Standard STD-201. Certification covers single cell models only as shown above. For multiple cell configurations, please contact your local representative or Amcot Cooling Tower Corporation. For additional verification please visit www.cti.org.

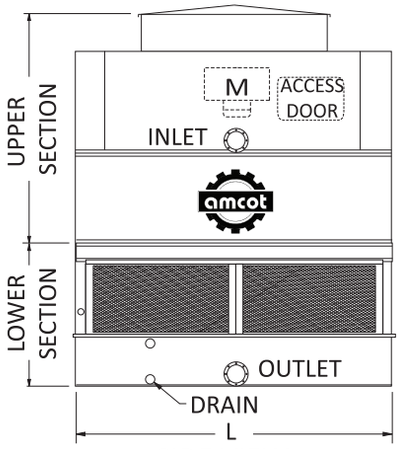
General Notes:

1. Nominal tons is calculated as 3 GPM/TON at 95°F HWT, 85°F CWT, and 78°F AWB. 1 Ton = 15,000 BTU/HR.
2. Capacities shown above are single cell.
3. An expanded capacity table in accordance with CTI STD-201 can be viewed at www.amcot.com.

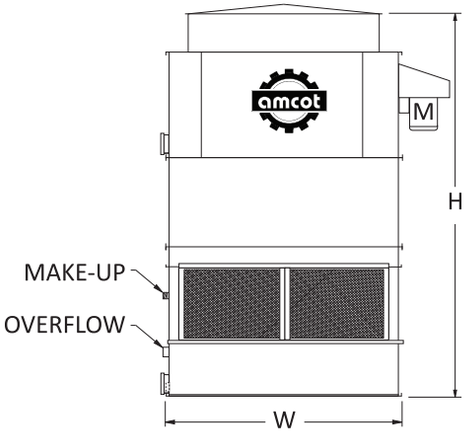
Models AST 2011-052 to 2021-204

Single Cell Counter Flow Physical Data

118 to 221 Nominal Tons



SIDE VIEW



END VIEW

MODEL	NOMINAL TONS	NOMINAL DIMENSIONS (INCHES)			PIPING CONNECTIONS (INCHES)					FAN MOTOR (HP)	FAN DIAMETER (INCHES)	AIR VOLUME (CFM)	NOMINAL WATER FLOW (GPM)
		LENGTH (L)	WIDTH (W)	HEIGHT (H)	INLET	OUTLET	OVERFLOW	DRAIN	MAKE-UP				
AST 2011-052	118	8'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	5	84"	36,676	354
AST 2011-053	132	8'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	5	84"	33,802	395
AST 2011-054	136	8'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	5	84"	31,715	407
AST 2011-072	136	8'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	8	84"	41,821	407
AST 2011-073	151	8'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	8	84"	38,538	452
AST 2011-074	155	8'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	8	84"	36,058	465
AST 2011-102	150	8'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	10	84"	45,834	449
AST 2011-103	166	8'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	10	84"	42,222	497
AST 2011-104	170	8'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	10	84"	39,511	511
AST 2011-152	172	8'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	15	84"	52,021	515
AST 2011-153	189	8'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	15	84"	47,737	566
AST 2011-154	194	8'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	15	84"	44,826	582
AST 2021-052	122	9'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	5	84"	37,995	366
AST 2021-053	136	9'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	5	84"	35,103	409
AST 2021-054	141	9'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	5	84"	32,979	423
AST 2021-072	140	9'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	8	84"	43,356	421
AST 2021-073	156	9'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	8	84"	40,046	469
AST 2021-074	162	9'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	8	84"	37,630	485
AST 2021-102	155	9'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	10	84"	47,541	465
AST 2021-103	172	9'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	10	84"	43,898	517
AST 2021-104	178	9'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	10	84"	41,252	533
AST 2021-152	178	9'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	15	84"	54,008	533
AST 2021-153	197	9'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	15	84"	49,839	590
AST 2021-154	202	9'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	15	84"	46,690	605
AST 2021-202	195	9'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	20	84"	58,748	584
AST 2021-203	215	9'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	20	84"	54,235	644
AST 2021-204	221	9'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	20	84"	50,994	663

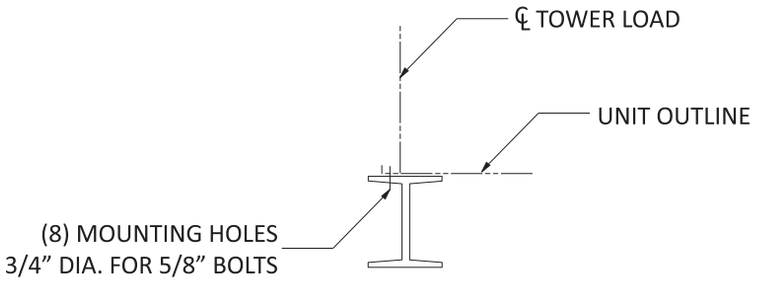
NOTES:

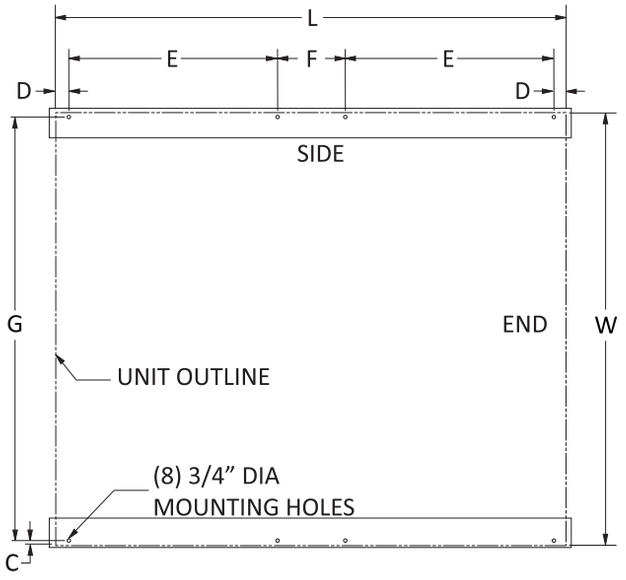
1) NOMINAL TONS IS BASED ON 1 TON = 3 GPM AT 95°F HWT - 85°F CWT - 78°F AMBIENT WET-BULB. 1 TON = 15,000 BTU/HR.
2) AIR VOLUME IS NOMINAL AND MAY CHANGE DEPENDING ON SPECIFIC DESIGN CONDITIONS.
3) REFER TO TECHNICAL DATA SHEETS AND GENERAL ARRANGEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
4) DATA HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2011-052 to 2021-204

Single Cell Counter Flow Foundation Data

118 to 221 Nominal Tons





MODEL	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	ANCHOR BOLT QTY & DIAMETER	NOMINAL DIMENSIONS (INCHES)							LOAD PER ANCHOR (LBS)
				L	W	C	D	E	F	G	
AST 2011-052	2,960	7,020	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	878
AST 2011-053	3,300	7,490	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	936
AST 2011-054	3,640	7,960	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	995
AST 2011-072	3,030	7,110	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	889
AST 2011-073	3,370	7,580	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	948
AST 2011-074	3,710	8,060	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	1008
AST 2011-102	3,030	7,110	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	889
AST 2011-103	3,370	7,600	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	950
AST 2011-104	3,710	8,070	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	1009
AST 2011-152	3,140	7,240	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	905
AST 2011-153	3,480	7,720	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	965
AST 2011-154	3,820	8,210	8 x 5/8"	8'-6"	8'-0"	3/4"	6"	39"	12"	94 1/2"	1026
AST 2021-052	3,137	7,441	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	930
AST 2021-053	3,497	7,940	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	992
AST 2021-054	3,857	8,433	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1054
AST 2021-072	3,207	7,526	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	941
AST 2021-073	3,567	8,032	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1004
AST 2021-074	3,927	8,530	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1066
AST 2021-102	3,207	7,536	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	942
AST 2021-103	3,567	8,045	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1006
AST 2021-104	3,927	8,552	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1069
AST 2021-152	3,315	7,659	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	957
AST 2021-153	3,675	8,171	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1021
AST 2021-154	4,035	8,679	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1085
AST 2021-202	3,330	7,677	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	960
AST 2021-203	3,690	8,198	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1025
AST 2021-204	4,050	8,713	8 x 5/8"	9'-0"	8'-0"	3/4"	6"	42"	12"	94 1/2"	1089

NOTES:

1) ALL TOWERS MUST BE PROPERLY ANCHORED AND INSTALLED ON A LEVEL SURFACE.
2) STEEL I-BEAM IS RECOMMENDED AND SHOWN.
3) FOR ALTERNATE FOUNDATION MATERIALS PLEASE CONTACT AMCOT.
4) INSTALLER MUST FOLLOW ALL APPLICABLE BUILDING CODES.
5) DATA IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2031-052 to 2041-204

Single Cell Counter Flow Capacity Data

131 to 262 Nominal Tons

MODEL	NOMINAL TONS	TEMPERATURES SHOWN BELOW ARE IN FAHRENHEIT (°F). FLOW RATES ARE IN USGPM.															
		HWT	82	85	87	87	90	92	92	92	95	97	95	96	97	100	102
		CWT	72	75	77	77	80	82	77	82	85	87	85	86	87	90	92
		AWB	65	65	65	70	70	70	70	75	75	75	78	80	80	80	80
AST 2031-052	131		279	380	450	317	432	512	249	363	493	583	394	368	416	563	662
AST 2031-053	148		323	426	497	365	480	559	295	412	542	630	444	419	468	612	709
AST 2031-054	154		340	440	508	381	493	570	314	429	554	639	461	437	484	623	716
AST 2031-072	151		321	438	520	367	498	590	287	419	568	671	454	425	479	648	761
AST 2031-073	170		371	488	569	418	551	640	339	473	620	722	510	482	535	701	810
AST 2031-074	176		391	505	583	438	566	652	362	493	634	731	529	502	555	713	818
AST 2031-102	167		355	484	573	405	550	651	318	463	626	740	502	470	529	714	839
AST 2031-103	187		410	539	627	462	606	705	375	522	683	794	562	531	590	771	891
AST 2031-104	194		431	556	642	483	623	718	399	543	698	803	582	554	610	783	898
AST 2031-152	192		409	555	657	466	630	745	366	532	718	846	576	539	608	817	957
AST 2031-153	214		470	616	717	529	693	805	430	598	780	904	643	608	675	879	1014
AST 2031-154	221		493	635	730	552	710	816	456	619	794	912	664	631	695	890	1019
AST 2031-202	212		452	612	723	515	695	820	404	587	790	929	635	595	670	898	1052
AST 2031-203	235		517	677	786	582	760	881	472	656	855	989	706	667	741	962	1108
AST 2031-204	242		540	694	798	604	774	890	500	678	867	994	726	690	760	970	1110
AST 2041-072	161		341	466	553	389	530	629	304	445	605	716	483	452	510	691	813
AST 2041-073	182		397	523	610	448	589	687	362	506	666	775	546	516	574	752	871
AST 2041-074	190		419	544	629	471	610	705	387	529	685	791	569	539	597	770	886
AST 2041-102	178		377	516	613	430	587	697	336	492	670	794	534	499	564	765	901
AST 2041-103	201		438	578	675	494	652	760	398	559	736	857	602	568	634	832	964
AST 2041-104	209		462	599	692	519	671	775	427	583	753	869	626	594	657	847	973
AST 2041-152	205		434	593	704	495	675	800	387	567	770	910	615	575	649	878	1033
AST 2041-153	230		502	662	772	567	746	868	457	641	841	978	690	651	725	950	1099
AST 2041-154	239		530	685	791	594	767	884	489	667	860	990	716	679	751	965	1108
AST 2041-202	226		480	654	776	547	744	881	428	626	848	1002	678	634	716	967	1136
AST 2041-203	253		553	728	848	624	820	953	504	705	923	1072	759	716	797	1042	1204
AST 2041-204	262		583	752	867	653	841	969	538	733	943	1085	786	746	824	1057	1212

Thermal performance of the AST Series models listed above have been certified in accordance to Cooling Technology Institute (CTI) Standard STD-201. Certification covers single cell models only as shown above. For multiple cell configurations, please contact your local representative or Amcot Cooling Tower Corporation. For additional verification please visit www.cti.org.

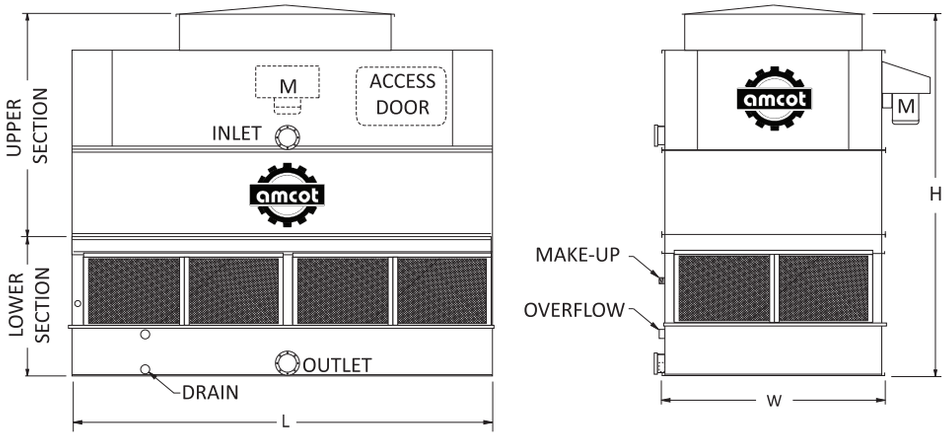
General Notes:

1. Nominal tons is calculated as 3 GPM/TON at 95°F HWT, 85°F CWT, and 78°F AWB. 1 Ton = 15,000 BTU/HR.
2. Capacities shown above are single cell.
3. An expanded capacity table in accordance with CTI STD-201 can be viewed at www.amcot.com.

Models AST 2031-052 to 2041-204

Single Cell Counter Flow Physical Data

131 to 262 Nominal Tons



SIDE VIEW END VIEW

MODEL	NOMINAL TONS	NOMINAL DIMENSIONS (INCHES)			PIPING CONNECTIONS (INCHES)					FAN MOTOR (HP)	FAN DIAMETER (INCHES)	AIR VOLUME (CFM)	NOMINAL WATER FLOW (GPM)
		LENGTH (L)	WIDTH (W)	HEIGHT (H)	INLET	OUTLET	OVERFLOW	DRAIN	MAKE-UP				
AST 2031-052	131	10'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	5	84"	41,108	394
AST 2031-053	148	10'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	5	84"	38,179	444
AST 2031-054	154	10'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	5	84"	35,986	461
AST 2031-072	151	10'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	8	84"	46,977	454
AST 2031-073	170	10'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	8	84"	43,617	510
AST 2031-074	176	10'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	8	84"	41,115	529
AST 2031-102	167	10'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	10	84"	51,573	502
AST 2031-103	187	10'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	10	84"	47871	562
AST 2031-104	194	10'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	10	84"	45125	582
AST 2031-152	192	10'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	15	84"	58708	576
AST 2031-153	214	10'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	15	84"	54456	643
AST 2031-154	221	10'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	15	84"	51327	664
AST 2031-202	212	10'-6"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	20	84"	64256	635
AST 2031-203	235	10'-6"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	20	84"	59564	706
AST 2031-204	242	10'-6"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	20	84"	55912	726
AST 2041-072	161	12'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	7.5	84"	50221	483
AST 2041-073	182	12'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	7.5	84"	46851	546
AST 2041-074	190	12'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	7.5	84"	44294	569
AST 2041-102	178	12'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	10	84"	55186	534
AST 2041-103	201	12'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	10	84"	51467	602
AST 2041-104	209	12'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	10	84"	48657	626
AST 2041-152	205	12'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	15	84"	62914	615
AST 2041-153	230	12'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	15	84"	58636	690
AST 2041-154	239	12'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	15	84"	55426	716
AST 2041-202	226	12'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	20	84"	68948	678
AST 2041-203	253	12'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	20	84"	64217	759
AST 2041-204	262	12'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	20	84"	60691	786

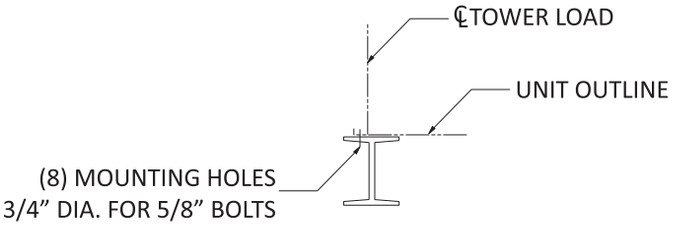
NOTES:

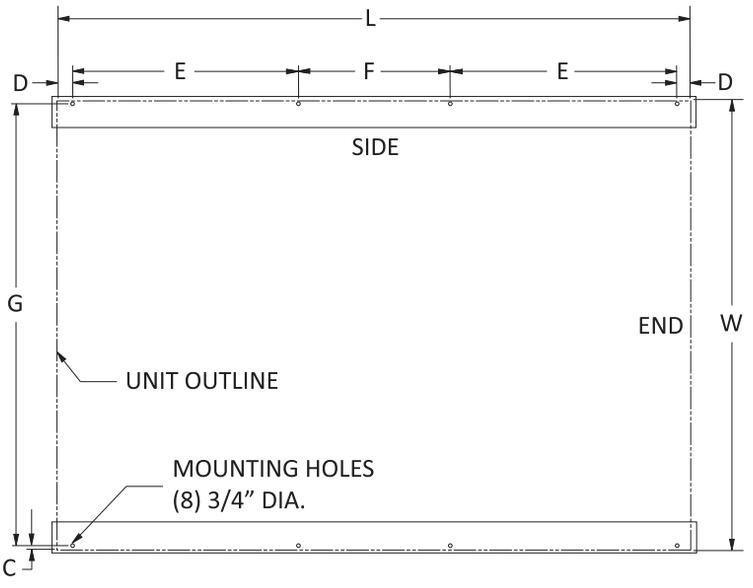
1) NOMINAL TONS IS BASED ON 1 TON = 3 GPM AT 95°F HWT - 85°F CWT - 78°F AMBIENT WET-BULB. 1 TON = 15,000 BTU/HR.
2) AIR VOLUME IS NOMINAL AND MAY CHANGE DEPENDING ON SPECIFIC DESIGN CONDITIONS.
3) REFER TO TECHNICAL DATA SHEETS AND GENERAL ARRANGEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
4) DATA HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2031-052 to 2041-204

Single Cell Counter Flow Foundation Data

131 to 262 Nominal Tons





MODEL	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	ANCHOR BOLT QTY & DIAMETER	NOMINAL DIMENSIONS (INCHES)							LOAD PER ANCHOR (LBS)
				L	W	C	D	E	F	G	
AST 2031-052	3,660	8,697	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1087
AST 2031-053	4,080	9,273	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1159
AST 2031-054	4,500	9,847	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1231
AST 2031-072	3,730	8,782	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1098
AST 2031-073	4,150	9,371	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1171
AST 2031-074	4,570	9,958	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1245
AST 2031-102	3,730	8,796	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1100
AST 2031-103	4,150	9,388	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1174
AST 2031-104	4,570	9,974	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1247
AST 2031-152	3,838	8,920	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1115
AST 2031-153	4,258	9,515	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1189
AST 2031-154	4,678	10,107	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1263
AST 2031-202	3,853	8,941	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1118
AST 2031-203	4,273	9,547	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1193
AST 2031-204	4,693	10,142	8 x 5/8"	10'-6"	8'-0"	3/4"	6"	45"	24"	94 1/2"	1268
AST 2041-072	4,253	10,037	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1255
AST 2041-073	4,733	10,709	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1339
AST 2041-074	5,213	11,372	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1421
AST 2041-102	4,253	10,057	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1257
AST 2041-103	4,733	10,734	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1342
AST 2041-104	5,213	11,397	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1425
AST 2041-152	4,361	10,183	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1273
AST 2041-153	4,841	10,864	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1358
AST 2041-154	5,321	11,542	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1443
AST 2041-202	4,376	10,209	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1276
AST 2041-203	4,856	10,892	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1362
AST 2041-204	5,336	11,568	8 x 5/8"	12'-0"	8'-0"	3/4"	6"	48"	36"	94 1/2"	1446

NOTES:

1) ALL TOWERS MUST BE PROPERLY ANCHORED AND INSTALLED ON A LEVEL SURFACE.
2) STEEL I-BEAM IS RECOMMENDED AND SHOWN.
3) FOR ALTERNATE FOUNDATION MATERIALS PLEASE CONTACT AMCOT.
4) INSTALLER MUST FOLLOW ALL APPLICABLE BUILDING CODES.
5) DATA IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2051-072 to 2051-204

Single Cell Counter Flow Capacity Data

173 to 286 Nominal Tons

MODEL	NOMINAL TONS	TEMPERATURES SHOWN BELOW ARE IN FAHRENHEIT (°F). FLOW RATES ARE IN USGPM.															
		HWT	82	85	87	87	90	92	92	92	95	97	95	96	97	100	102
		CWT	72	75	77	77	80	82	77	82	85	87	85	86	87	90	92
		AWB	65	65	65	70	70	70	70	75	75	75	78	80	80	80	80
AST 2051-072	173		365	500	596	417	571	679	325	478	652	774	519	484	548	746	881
AST 2051-073	197		428	568	664	484	641	749	390	549	724	845	592	558	623	820	953
AST 2051-074	206		456	592	685	512	664	768	420	576	746	863	619	587	650	840	968
AST 2051-102	191		404	554	659	461	631	750	360	528	721	855	574	536	606	824	972
AST 2051-103	218		473	627	732	535	707	825	430	605	799	931	653	616	687	904	1049
AST 2051-104	227		503	652	755	564	732	846	464	635	822	950	682	647	716	925	1065
AST 2051-152	220		466	638	758	532	726	863	415	609	829	983	661	617	698	948	1116
AST 2051-153	250		544	719	839	614	810	945	495	695	915	1065	749	706	788	1034	1199
AST 2051-154	260		577	747	864	647	837	967	532	728	940	1084	781	741	820	1056	1214
AST 2051-202	243		515	704	837	588	802	951	459	673	915	1083	730	682	771	1045	1230
AST 2051-203	275		599	791	923	677	891	1038	546	765	1006	1170	825	778	867	1136	1316
AST 2051-204	286		635	822	949	712	920	1061	586	800	1032	1189	859	815	901	1159	1331

Thermal performance of the AST Series models listed above have been certified in accordance to Cooling Technology Institute (CTI) Standard STD-201. Certification covers single cell models only as shown above. For multiple cell configurations, please contact your local representative or Amcot Cooling Tower Corporation. For additional verification please visit www.cti.org.

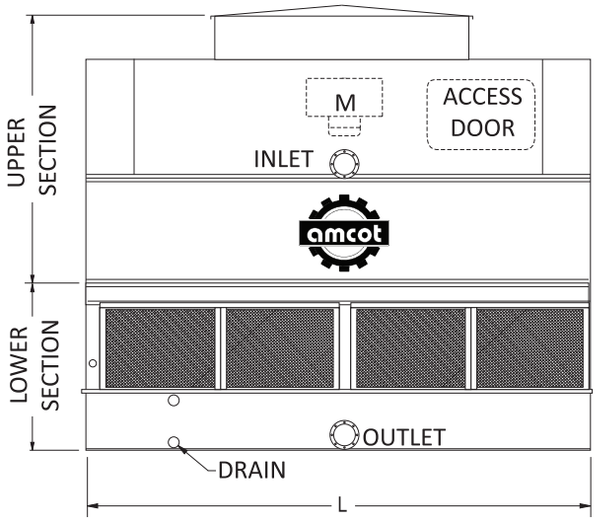
General Notes:

1. Nominal tons is calculated as 3 GPM/TON at 95°F HWT, 85°F CWT, and 78°F AWB. 1 Ton = 15,000 BTU/HR.
2. Capacities shown above are single cell.
3. An expanded capacity table in accordance with CTI STD-201 can be viewed at www.amcot.com.

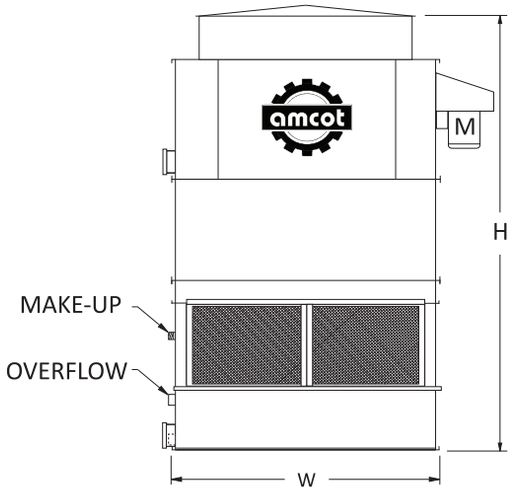
Models AST 2051-072 to 2051-204

Single Cell Counter Flow Physical Data

173 to 286 Nominal Tons



SIDE VIEW



END VIEW

MODEL	NOMINAL TONS	NOMINAL DIMENSIONS (INCHES)			PIPING CONNECTIONS (INCHES)					FAN MOTOR (HP)	FAN DIAMETER (INCHES)	AIR VOLUME (CFM)	NOMINAL WATER FLOW (GPM)
		LENGTH (L)	WIDTH (W)	HEIGHT (H)	INLET	OUTLET	OVERFLOW	DRAIN	MAKE-UP				
AST 2051-072	173	14'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	8	84"	54,170	519
AST 2051-073	197	14'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	8	84"	50,870	592
AST 2051-074	206	14'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	8	84"	48,302	619
AST 2051-102	191	14'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	10	84"	59,584	574
AST 2051-103	218	14'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	10	84"	55,940	653
AST 2051-104	227	14'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	10	84"	53,114	682
AST 2051-152	220	14'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	15	84"	68,044	661
AST 2051-153	250	14'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	15	84"	63844	749
AST 2051-154	260	14'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	15	84"	60608	781
AST 2051-202	243	14'-0"	8'-0"	11'-9"	8"	8"	2"	2"	1-1/4"	20	84"	74674	730
AST 2051-203	275	14'-0"	8'-0"	12'-9"	8"	8"	2"	2"	1-1/4"	20	84"	70024	825
AST 2051-204	286	14'-0"	8'-0"	13'-9"	8"	8"	2"	2"	1-1/4"	20	84"	66460	859

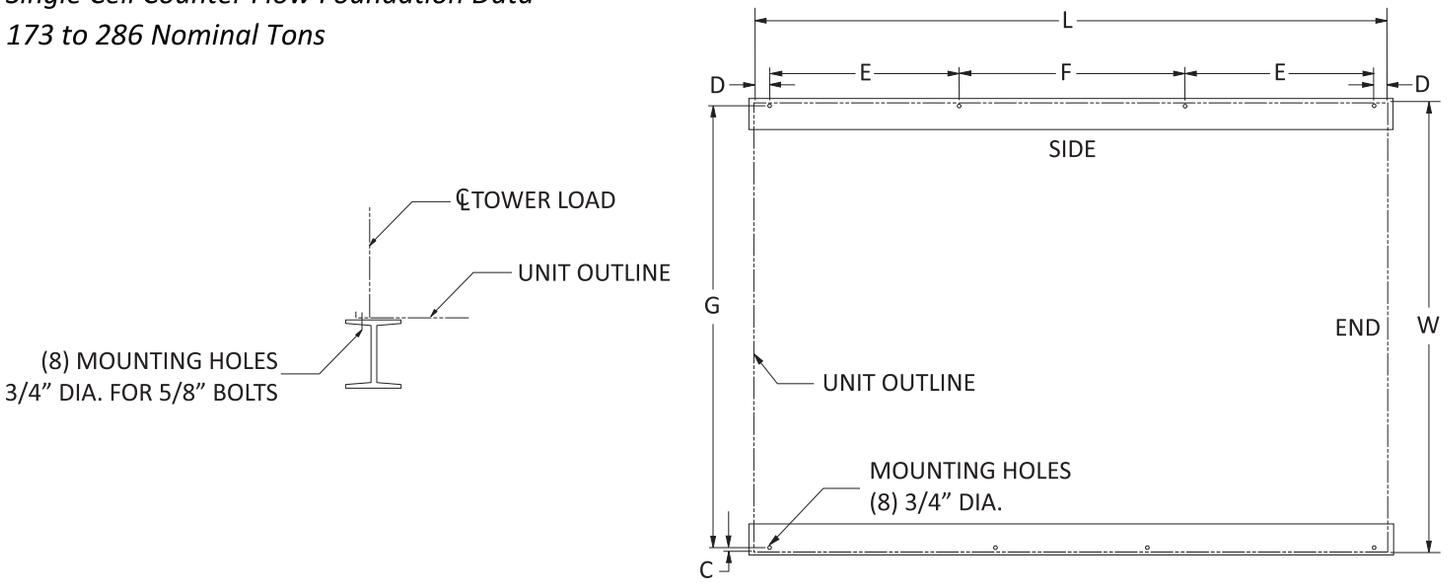
NOTES:

1) NOMINAL TONS IS BASED ON 1 TON = 3 GPM AT 95°F HWT - 85°F CWT - 78°F AMBIENT WET-BULB. 1 TON = 15,000 BTU/HR.
2) AIR VOLUME IS NOMINAL AND MAY CHANGE DEPENDING ON SPECIFIC DESIGN CONDITIONS.
3) REFER TO TECHNICAL DATA SHEETS AND GENERAL ARRANGEMENT DRAWINGS FOR ADDITIONAL INFORMATION.
4) DATA HEREIN IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Models AST 2051-072 to 2051-204

Single Cell Counter Flow Foundation Data

173 to 286 Nominal Tons



MODEL	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	ANCHOR BOLT QTY & DIAMETER	NOMINAL DIMENSIONS (INCHES)							LOAD PER ANCHOR (LBS)
				L	W	C	D	E	F	G	
AST 2051-072	4,949	12,495	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1562
AST 2051-073	5,509	13,860	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1733
AST 2051-074	6,069	15,182	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1898
AST 2051-102	4,949	12,618	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1577
AST 2051-103	5,509	14,063	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1758
AST 2051-104	6,069	15,461	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1933
AST 2051-152	5,057	12,919	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1615
AST 2051-153	5,617	14,486	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1811
AST 2051-154	6,177	16,001	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	2000
AST 2051-202	5,072	13,086	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1636
AST 2051-203	5,632	14,748	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	1844
AST 2051-204	6,192	16,355	8 x 5/8"	14'-0"	8'-0"	3/4"	6"	51"	54"	94 1/2"	2044

NOTES:

1) ALL TOWERS MUST BE PROPERLY ANCHORED AND INSTALLED ON A LEVEL SURFACE.
2) STEEL I-BEAM IS RECOMMENDED AND SHOWN.
3) FOR ALTERNATE FOUNDATION MATERIALS PLEASE CONTACT AMCOT.
4) INSTALLER MUST FOLLOW ALL APPLICABLE BUILDING CODES.
5) DATA IS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

Amcot also offers the following accessories for cooling tower systems:

Heat Exchangers

Many water systems utilize shell & tube or plate & frame style heat exchangers to help protect sensitive equipment downstream from outside pollutants or when alternate process fluids are used which cannot be exposed to the outside environment. By combining an open loop tower with a heat exchanger, clients can avoid the increasing costs associated with closed loop towers and evaporative condenser while still achieving their goals. Our heat exchangers can be designed for a wide range of applications and fluids. All of our heat exchangers are manufactured in the USA and can be provided with a wide range of certifications depending on project requirements or customer needs.

Water Pumps

Amcot provides a wide range of water pumps designed and manufactured in the USA for a wide range of cooling tower applications. We offer pumps from ¼ horsepower up to over 100 horsepower in size. Pumps can be furnished in a wide range of styles from close coupled, split case, vertical inline just as a few examples. In addition, Amcot can offer pump skids and control panels, both of which can be customized to meet your needs. Our pump panels are available in NEMA1, 3R, and 4, and are UL/CSA rated. Panels can even incorporate VFD drives for variable flow applications when needed.

Control Panels

Our cooling tower and pump control panels are specifically designed for cooling tower systems. Cooling tower control panels can be outfitted with a wide array of options and configurations to help support accessories such as vibration switches, electronic water level controls, and basin heaters. Panels can be supplied with either standard temperature on/off fan controls or we can install are VFD drive for added flexibility. All of our panels are manufactured and assembled in the USA and are UL/CSA recognized.

AST Series Towers are Proudly Made in the USA

For more information please contact our local representative or Amcot directly.

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