

MAB MODULAR BELT DRIVE

Standard Ratings - Water Coil															
Model	2- or 4-Pipe Cooling									2-Pipe Heating					
	EWT	gpm	PD Ft.	cfm	80°F DB / 67°F WB					gpm	PD Ft.	cfm	60°F EAT / 180°F EWT		
					TTL mbh	SENS mbh	LAT DB	LAT WB	°F				TTL mbh	LAT	LWT
MAB08	45	6	5.7	600	20.4	14.5	57.6	56.1	51.9	6	5.1	600	57	147.9	160.5
				800	23	17.2	60.1	58	52.7			800	68	138.6	156.8
				1000	25	19.6	61.9	59.3	53.4			1000	77	131.2	153.8
MAB12	45	8	6.7	900	30.6	21.8	57.6	56.2	52.7	8	5.9	900	85	148	158.1
				1200	34.4	25.8	60.1	58	53.6			1200	102	138.6	153.9
				1500	37.2	29.4	61.9	59.3	54.3			1500	115	131.1	150.6
MAB16	45	10	6.4	1200	44	31.2	56	55.2	53.8	10	5.5	1200	123	154.9	154.8
				1600	50	37.6	58.3	57.2	55			1600	148	145.9	149.6
				2000	54.5	43	60.1	58.5	55.9			2000	170	138.5	145.3
MAB20	45	13	4.9	1500	55	39	55.9	55.2	53.5	13	4.4	1500	154	155.1	155.7
				2000	62.5	47	58.3	57.1	54.6			2000	186	146.1	150.7
				2500	68	53.5	60.1	58.5	55.6			2500	213	138.7	146.5
MAB30	45	18	6.5	2500	86	62.5	56.8	56	54.6	18	5.8	2250	232	155.4	153.6
				3000	92	70	58.3	57.3	55.3			3000	280	146.4	148.2
				3750	101	81	60	58.6	56.3			3750	319	138.7	143.8
MAB40	45	24	7.1	3000	98	71	58	56.6	53.2	24	6.3	3000	281	146.5	156.1
				4000	110	85	60.2	58.4	54.2			4000	335	137.5	151.4
				5000	120	97	62	59.6	55			5000	380	130.3	147.6
MAB60	45	32	6.5	5000	152	113	59	57.5	54.5	32	5.5	5000	447	142.7	151.5
				6000	163	126	60.5	58.6	55.2			6000	499	136.8	148.1
				7000	173	139	61.6	59.4	55.8			7000	544	131.8	145.3
MAB80	45	44	6.6	7000	213	160	58.9	57.4	54.7	44	5.6	7000	628	142.8	150.9
				8000	225	173	60	58.2	55.3			8000	680	138.5	148.4
				9000	235	186	60.9	58.9	55.7			9000	728	134.7	146.2

Note: Standard ratings are for sea level altitude, standard 4-row coils, nominal air volumes and ordinary water. For other conditions and/or other coolants, consult Titus.

Standard Ratings - 2-Row Heating													
Model	gpm	PD Ft.	cfm	TTL mbh	LAT F	LWT F	Model	gpm	PD Ft.	cfm	TTL mbh	LAT F	LWT F
MAB08	4	5.2	600	36.2	116	161.4	MAB30	12.8	5.7	2250	146	119.9	156.7
			800	41.5	108.4	158.6				3000	168	112	153.1
			1000	46	102.8	156.3				3750	187	106.1	150.1
MAB12	6	4.1	900	55	116.8	161.1	MAB40	16.8	5.8	3000	186	117.4	157.3
			1200	63.5	109.1	158.3				4000	215	109.6	153.9
			1500	70	103.5	155.9				5000	238	104	151.1
MAB16	8	5.3	1200	82	123.3	159	MAB60	19.2	4.3	5000	283	112.2	149.9
			1600	95	115	155.6				6000	307	107.3	147.3
			2000	106	109.1	152.9				7000	328	103.4	145
MAB20	12	6.9	1500	105	124.6	162.1	MAB80	22.4	2.6	7000	384	110.7	145
			2000	122	116.5	159.2				8000	408	107.1	142.8
			2500	136	110.5	156.7				9000	429	104	141

Note: Heating capacities are based on 60°F EAT and 180°F EWT. Units not recommended for heating applications when the LAT exceeds 130°F.

MAB MODULAR BELT DRIVE

Air Volume Capacity - 2-Pipe, 4-Row Coil														
Model	ISP	CFM	0.25" ESP		0.50" ESP		0.75" ESP		1.00" ESP		1.25" ESP		1.50" ESP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
MAB08	0.20	600	669	0.08	823	0.11	956	0.15	-	-	-	-	-	-
	0.26	700	720	0.11	862	0.15	988	0.19	1101	0.24	-	-	-	-
	0.31	800	764	0.14	897	0.19	1017	0.24	1125	0.29	1225	0.34	1319	0.39
	0.38	900	818	0.19	943	0.24	1055	0.29	1159	0.34	1255	0.40	1346	0.46
	0.45	1000	872	0.24	988	0.29	1095	0.35	1194	0.41	1287	0.47	1374	0.53
MAB12	0.20	900	719	0.15	855	0.20	975	0.25	1085	0.30	1187	0.36	1281	0.42
	0.27	1050	793	0.22	915	0.28	1026	0.33	1129	0.39	1225	0.45	1315	0.52
	0.33	1200	861	0.30	972	0.37	1075	0.43	1172	0.50	1262	0.57	1348	0.63
	0.39	1350	929	0.41	1031	0.48	1127	0.55	1218	0.62	1304	0.70	1386	0.77
	0.48	1500	1010	0.54	1103	0.62	1192	0.70	1277	0.78	1358	0.86	1435	0.94
MAB16	0.35	1200	775	0.20	910	0.30	1045	0.35	1160	0.45	1225	0.55	1325	0.65
	0.38	1400	815	0.30	940	0.40	1060	0.46	1175	0.55	1240	0.65	1335	0.75
	0.41	1600	855	0.40	975	0.50	1080	0.60	1195	0.70	1260	0.80	1350	0.95
	0.45	1800	905	0.50	1010	0.65	1115	0.75	1220	0.85	1290	0.90	1370	1.05
	0.49	2000	970	0.65	1060	0.80	1155	0.90	1250	1.00	1320	1.10	1400	1.20
MAB20	0.35	1500	815	0.35	930	0.40	1025	0.50	1155	0.60	1240	0.70	1340	0.80
	0.38	1750	860	0.45	975	0.55	1065	0.65	1175	0.75	1260	0.85	1365	0.95
	0.41	2000	925	0.65	1025	0.70	1115	0.80	1210	0.90	1285	1.05	1390	1.15
	0.45	2250	1005	0.80	1090	0.90	1170	1.05	1250	1.15	1335	1.25	1420	1.35
	0.49	2500	1080	1.05	1160	1.15	1225	1.25	1310	1.35	1410	1.45	1450	1.60
MAB30	0.18	2250	448	0.33	563	0.46	-	-	-	-	-	-	-	-
	0.24	2625	487	0.42	585	0.56	681	0.70	-	-	-	-	-	-
	0.30	3000	525	0.54	611	0.69	697	0.84	771	1.01	-	-	-	-
	0.37	3375	559	0.69	636	0.84	717	1.00	788	1.17	858	1.33	-	-
	0.45	3750	597	0.87	671	1.04	741	1.21	808	1.39	876	1.59	936	1.80
MAB40	0.30	3000	521	0.56	607	0.78	693	0.84	769	1.00	843	1.16	917	1.31
	0.39	3500	569	0.74	646	0.90	722	1.09	786	1.30	852	1.51	928	1.60
	0.49	4000	619	1.00	692	1.18	755	1.36	820	1.55	885	1.77	950	1.98
	0.61	4500	674	1.39	740	1.55	802	1.77	850	1.98	921	2.42	979	2.64
	0.75	5000	733	1.78	791	2.00	849	2.22	907	2.51	967	2.77	1017	3.00
MAB60	0.33	5000	514	0.88	613	1.07	689	1.50	766	1.82	842	1.93	918	2.26
	0.40	5500	546	1.08	629	1.36	711	1.64	782	1.94	854	2.26	923	2.58
	0.45	6000	567	1.28	648	1.60	725	1.91	793	2.22	885	2.52	928	2.82
	0.52	6500	593	1.58	671	1.89	746	2.22	811	2.53	921	2.84	939	3.22
	0.60	7000	625	1.86	705	2.24	766	2.55	833	2.86	967	3.26	955	3.00
MAB80	0.38	7000	564	1.60	640	1.96	712	2.27	776	2.58	839	2.90	903	3.29
	0.42	7500	587	1.89	660	2.21	728	2.52	790	2.83	850	3.25	910	3.68
	0.48	8000	614	2.19	686	2.54	749	2.89	809	3.27	867	3.68	926	4.21
	0.54	8500	642	2.54	702	2.90	769	3.36	827	3.86	884	4.36	941	4.86
	0.60	9000	672	2.92	733	3.39	791	3.87	846	4.36	902	4.84	959	5.44

Notes:

- Motor HP = 1.15* x BHP
* In the absence of a specified drive loss factor, use 1.15. To select motor size, find the Brake Horsepower (BHP) for the design cfm and External Static Pressure (ESP). Multiply BHP by 1.15 (or specified factor) and round up to next size motor. Example: 1600 cfm at 0.75" ESP requires 0.46 BHP. 1.15 x 0.46 = 0.529. Round up to nearest nominal motor size = ¾ HP.
- Total Static Pressure (TSP) = Internal Static Pressure + External Static Pressure (ESP)
- ESP = TSP – Internal SP



MAB MODULAR BELT DRIVE

Air Volume Capacity - 4-Pipe, 4-Row Cooling and 2-Row Heating Coils														
Model	ISP	CFM	0.25" ESP		0.50" ESP		0.75" ESP		1.00" ESP		1.25" ESP		1.50" ESP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
MAB08	0.25	600	702	0.09	851	0.12	980	0.16	-	-	-	-	-	-
	0.31	700	750	0.12	889	0.16	1011	0.20	1122	0.25	-	-	-	-
	0.39	800	808	0.16	937	0.20	1052	0.25	1158	0.30	1256	0.36	-	-
	0.47	900	865	0.20	984	0.26	1094	0.31	1194	0.36	1288	0.42	1377	0.48
	0.56	1000	924	0.26	1036	0.32	1139	0.38	1235	0.44	1325	0.50	1411	0.56
MAB12	0.28	900	764	0.17	895	0.22	1012	0.27	1119	0.32	1218	0.38	1310	0.43
	0.36	1050	838	0.24	956	0.30	1064	0.36	1164	0.42	1258	0.48	1346	0.54
	0.44	1200	911	0.33	1018	0.40	1118	0.46	1212	0.53	1301	0.60	1385	0.67
	0.51	1350	979	0.44	1078	0.51	1171	0.58	1260	0.66	1343	0.72	1423	0.81
	0.61	1500	1059	0.58	1150	0.66	1237	0.74	1319	0.82	1398	0.90	1474	0.98
MAB16	0.40	1200	795	0.25	930	0.35	1070	0.40	1185	0.50	1255	0.65	1355	0.75
	0.44	1400	835	0.35	960	0.45	1085	0.50	1200	0.60	1280	0.75	1375	0.85
	0.49	1600	885	0.45	995	0.55	1105	0.65	1220	0.75	1305	0.90	1395	1.05
	0.55	1800	925	0.55	1030	0.70	1140	0.80	1245	0.90	1335	1.00	1415	1.15
	0.61	2000	990	0.70	1080	0.85	1180	0.95	1275	1.05	1365	1.20	1445	1.30
MAB20	0.40	1500	835	0.40	950	0.45	1050	0.55	1180	0.65	1270	0.80	1370	0.90
	0.44	1750	880	0.50	995	0.60	1090	0.70	1200	0.80	1300	0.95	1450	1.05
	0.49	2000	945	0.65	1045	0.75	1140	0.85	1235	0.95	1330	1.15	1435	1.25
	0.55	2250	1025	0.85	1110	0.95	1195	1.10	1275	1.20	1380	1.35	1465	1.45
	0.61	2500	1100	1.10	1180	1.20	1250	1.30	1335	1.40	1455	1.65	1496	1.71
MAB30	0.23	2250	474	0.35	583	0.48	688	0.61	769	0.73	850	0.89	926	1.04
	0.31	2625	519	0.46	615	0.59	706	0.73	776	0.89	861	1.05	932	1.29
	0.38	3000	549	0.58	637	0.73	720	0.89	793	1.05	865	1.21	939	1.36
	0.48	3375	597	0.76	675	0.92	748	1.08	818	1.25	889	1.41	955	1.61
	0.57	3750	632	0.95	705	1.12	773	1.30	841	1.48	907	1.70	968	1.91
MAB40	0.38	3000	548	0.58	634	0.74	718	0.89	793	1.05	867	1.22	939	1.40
	0.50	3500	603	0.80	681	0.97	752	1.14	821	1.32	889	1.49	955	1.70
	0.64	4000	662	1.12	731	1.30	795	1.48	859	1.69	923	1.91	980	2.13
	0.79	4500	720	1.49	781	1.71	843	1.92	902	2.15	962	2.41	1016	2.67
	0.97	5000	782	1.97	841	2.23	900	2.50	952	2.76	1011	3.00	1059	3.27
MAB60	0.44	5000	556	1.00	644	1.25	724	1.50	800	1.79	876	2.07	946	2.39
	0.52	5500	585	1.17	669	1.45	746	1.78	817	2.05	889	2.37	949	2.69
	0.60	6000	616	1.49	697	1.79	766	2.10	834	2.40	903	2.70	965	3.05
	0.69	6500	651	1.80	724	2.12	789	2.43	855	2.74	920	3.07	980	3.53
	0.79	7000	688	2.15	753	2.16	815	2.47	878	2.78	939	3.56	1000	4.00
MAB80	0.47	7000	589	1.71	666	2.06	735	2.38	798	2.68	862	3.00	924	3.44
	0.53	7500	616	2.04	691	2.37	754	2.69	815	3.00	876	3.44	936	3.86
	0.59	8000	644	2.36	712	2.70	772	3.03	833	3.45	893	3.87	951	4.39
	0.68	8500	677	2.69	742	3.11	800	3.52	858	3.87	917	4.54	976	5.16
	0.76	9000	711	3.22	768	3.71	825	4.19	881	4.68	938	5.21	993	5.85

Notes:

- Motor HP = 1.15* x BHP
* In the absence of a specified drive loss factor, use 1.15. To select motor size, find the Brake Horsepower (BHP) for the design cfm and External Static Pressure (ESP). Multiply BHP by 1.15 (or specified factor) and round up to next size motor. Example: 1600 cfm at 0.75" ESP requires 0.46 BHP. 1.15 x 0.46 = 0.529. Round up to nearest nominal motor size = 3/4 HP.
- Total Static Pressure (TSP) = Internal Static Pressure + External Static Pressure (ESP)
- ESP = TSP – Internal SP