

RAB ROOFTOP BELT DRIVE

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Standard Ratings - Water Coil									
Model	2- or 4-Pipe Cooling								
	EWT	gpm	PD Ft.	cfm	80°F DB / 67°F WB				
					TTL mbh	SENS mbh	LAT DB	LAT WB	F
RAB08	45	7	7.7	600	21.2	14.9	57.1	55.7	51.1
				800	24	17.7	59.6	57.5	51.9
				1000	26.2	20	61.5	58.9	52.5
RAB12	45	8	6.7	900	30.6	21.8	57.6	56.2	52.7
				1200	34.4	25.8	60.1	58	53.6
				1500	37.2	29.4	61.9	59.3	54.3
RAB16	45	10	6.4	1200	40	28.8	57.8	56.3	53.1
				1600	45	34	60.3	58.2	54.1
				2000	49	38.5	62.1	59.5	54.8
RAB20	45	13	5.4	1500	50.5	36	57.8	56.3	52.8
				2000	56.5	42.5	60.3	58.2	53.7
				2500	61	48.5	62.1	59.5	54.4
RAB30	45	17.5	4.8	2250	78	56.5	56.8	55.9	54
				3000	88	67	59.2	57.8	55.1
				3750	96	77	60.9	59	56.1
RAB40	45	21	4.3	3000	102	74	57.1	56.2	54.7
				4000	115	89	59.4	58	56
				5000	125	102	61.1	59.3	57
RAB60	45	31.5	4.4	5000	158	120	57.8	57	55.1
				6000	170	136	59.1	58.1	55.9
				7000	182	149	60.3	59	56.6
RAB80	45	44	6.6	7000	213	160	58.9	57.4	54.7
				8000	225	173	60	58.2	55.3
				9000	235	186	60.9	58.9	55.7

Standard Ratings - Heating						
4-Pipe Heating						
Model	gpm	PD Ft.	cfm	60°F EAT / 180°F EWT		
				TTL mbh	LAT	LWT
RAB08	6	5.1	600	57	147.9	160.5
			800	68	138.6	156.8
			1000	77	131.2	153.8
RAB12	8	5.9	900	85	148	158.1
			1200	102	138.6	153.9
			1500	115	131.1	150.6
RAB16	10	5.6	1200	113	147.3	156.8
			1600	134	137.9	152.5
			2000	152	130.3	148.9
RAB20	13	4.6	1500	142	147.4	157.7
			2000	169	138	153.5
			2500	190	130.5	150

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-Pipe Heating													
Model	2-Pipe Heating Coil						Model	2-Pipe Heating Coil					
	gpm	PD Ft.	cfm	60°F EAT / 180°F EWT				gpm	PD Ft.	cfm	60°F EAT / 180°F EWT		
				TTL mbh	LAT	LWT					TTL mbh	LAT	LWT
RAB08	4	5.2	600	36.2	116	161.4	RAB30	18	6.5	2250	160	125.7	161.8
			800	41.5	108.4	158.6				3000	186	117.3	158.8
			1000	46	102.8	156.3				3750	208	111.3	156.3
RAB12	6	4.1	900	55	116.8	161.1	RAB40	22	4.3	3000	197	120.7	161.7
			1200	63.5	109.1	158.3				4000	228	112.8	158.8
			1500	70	103.5	155.9				5000	254	106.9	156.4
RAB16	8	3	1200	75	118.4	160.6	RAB60	28	3.5	5000	295	114.6	158.4
			1600	87	110.6	157.6				6000	323	109.7	156.4
			2000	97	104.9	155.2				7000	346	105.7	154.7
RAB20	12	2.7	1500	96	119.4	163.5	RAB80	22.4	2.6	7000	384	110.7	145
			2000	111	111.6	160.9				8000	408	107.1	142.8
			2500	124	105.9	158.8				9000	429	104	141

PERFORMANCE DATA

RAB ROOFTOP BELT DRIVE

Air Volume Capacity - 2-Pipe														
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
RAB08	0.34	600	795	0.19	969	0.25	1125	0.32	1252	0.40	1379	0.50	1485	0.59
	0.42	700	853	0.25	1022	0.31	1169	0.39	1293	0.47	1408	0.56	1512	0.67
	0.49	800	908	0.26	1068	0.36	1206	0.46	1331	0.55	1447	0.67	1546	0.78
	0.57	900	949	0.30	1109	0.40	1248	0.52	1370	0.63	1484	0.75	1587	0.89
	0.65	1000	1004	0.27	1160	0.49	1291	0.60	1413	0.72	1523	0.87	1620	1.00
RAB12	0.33	900	815	0.24	985	0.33	1129	0.43	1248	0.54	1362	0.65	1471	0.84
	0.40	1050	889	0.37	1035	0.49	1179	0.64	1299	0.74	1411	0.88	1508	1.01
	0.49	1200	946	0.45	1100	0.60	1230	0.70	1349	0.85	1462	1.04	1555	1.21
	0.57	1350	1016	0.58	1158	0.73	1279	0.83	1400	1.02	1504	1.22	1605	1.35
	0.69	1500	1098	0.68	1224	0.83	1335	0.96	1463	1.16	1568	1.37	1660	1.58
RAB16	0.32	1200	740	0.23	869	0.32	974	0.40	1061	0.48	1151	0.57	1234	0.70
	0.40	1400	809	0.32	925	0.41	1027	0.50	1115	0.62	1201	0.76	1278	0.88
	0.51	1600	884	0.46	988	0.57	1085	0.67	1172	0.76	1247	0.95	1325	1.09
	0.61	1800	957	0.59	1051	0.72	1155	0.87	1233	1.02	1312	1.14	1379	1.34
	0.72	2000	1024	0.75	1126	0.93	1201	1.10	1291	1.25	1369	1.45	1437	1.60
RAB20	0.36	1500	688	0.35	816	0.45	922	0.56	1020	0.65	1119	0.78	1208	0.90
	0.46	1750	749	0.47	869	0.60	9667	0.71	1061	0.82	1144	0.98	1231	1.13
	0.57	2000	810	0.59	918	0.73	1014	0.89	1103	1.02	1185	1.16	1262	1.32
	0.69	2250	879	0.78	979	0.93	1068	1.08	1153	1.25	1233	1.41	1303	1.56
	0.82	2500	947	0.99	1042	1.19	1131	1.38	1206	1.55	1286	1.73	1354	1.92
RAB30	0.37	2250	604	0.56	699	0.74	788	0.94	869	1.09	942	1.27	1010	1.44
	0.46	2625	653	0.73	748	0.96	833	1.17	904	1.38	974	1.58	1045	1.77
	0.57	3000	711	1.03	793	1.24	879	1.49	949	1.70	1017	1.94	1079	2.11
	0.69	3375	773	1.31	848	1.56	920	1.81	992	2.08	1056	2.31	1117	2.55
	0.81	3750	837	1.73	903	2.01	972	2.26	1034	2.49	1097	2.72	1161	2.95
RAB40	0.49	3000	688	0.87	777	1.08	853	1.29	925	1.51	990	1.68	1050	1.88
	0.62	3500	764	1.24	840	1.46	906	1.67	979	1.94	1039	2.19	1101	2.41
	0.77	4000	848	1.71	917	1.98	979	2.24	1035	2.45	1095	2.73	1156	3.08
	0.94	4500	923	2.32	982	2.62	1040	2.90	1102	3.21	1160	3.51	1210	3.78
	1.14	5000	997	3.01	1057	3.32	1115	3.70	1167	4.02	1222	4.35	1271	4.64
RAB60	0.65	5000	790	2.00	830	2.30	910	2.50	970	2.80	1010	3.00	1070	3.30
	0.82	5500	840	2.60	910	3.00	990	3.30	1010	3.50	1070	3.80	1120	4.00
	0.98	6000	950	3.50	980	3.80	1020	4.00	1080	4.50	1120	4.80	1200	5.00
	1.18	6500	1000	4.30	1050	4.80	1100	5.00	1140	5.30	1180	5.70	1250	6.50
	1.38	7000	1060	5.50	1130	5.70	1170	6.0	1210	6.30	1260	7.00	1310	7.20
RAB80	0.66	7000	580	2.30	620	2.80	680	3.20	710	3.50	770	4.00	800	4.30
	0.81	7500	600	2.80	670	3.20	700	3.50	740	4.00	790	4.50	830	5.00
	0.96	8000	650	3.50	690	3.80	740	4.20	790	5.00	830	5.50	880	6.00
	1.11	8500	690	4.10	740	4.60	790	5.20	830	5.50	870	6.00	900	6.60
	1.26	9000	730	5.00	790	5.40	810	6.00	850	6.50	890	7.00	930	7.50

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 0.75 BHP. 1.15 x 0.75 = 0.86. Round up to nearest nominal motor size = 1 HP.
- Total Static Pressure (TSP) = Internal Static Pressure + External Static Pressure (ESP)
- ESP = TSP – Internal SP

RAB ROOFTOP 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
RAB08	0.44	600	800	0.16	991	0.25	1145	0.35	1271	0.42	1393	0.53	1501	0.62
	0.53	700	868	0.21	1041	0.31	1185	0.39	1310	0.49	1427	0.59	1538	0.73
	0.62	800	936	0.27	1091	0.36	1229	0.48	1350	0.58	1466	0.70	1572	0.82
	0.74	900	994	0.33	1141	0.43	1285	0.55	1402	0.67	1510	0.79	1610	0.92
	0.84	1000	1037	0.38	1186	0.48	1320	0.61	1443	0.75	1548	0.89	1649	1.02
RAB12	0.40	900	847	0.26	1019	0.37	1154	0.47	1277	0.57	1384	0.68	1486	0.80
	0.49	1050	924	0.34	1078	0.46	1209	0.60	1328	0.69	1441	0.82	1538	0.95
	0.59	1200	989	0.44	1137	0.56	1265	0.68	1387	0.83	1495	0.97	1599	1.11
	0.70	1350	1068	0.56	1201	0.69	1331	0.82	1441	0.98	1546	1.15	1644	1.31
	0.84	1500	1148	0.69	1276	0.83	1403	1.02	1508	1.19	1611	1.36	1703	1.53
RAB16	0.39	1200	783	0.29	899	0.37	1005	0.46	1095	0.56	1180	0.64	1264	0.76
	0.48	1400	854	0.37	962	0.47	1057	0.59	1142	0.67	1229	0.82	1304	0.91
	0.60	1600	924	0.49	1034	0.63	1125	0.75	1205	0.90	1284	1.02	1358	1.14
	0.72	1800	994	0.65	1094	0.80	1196	0.97	1270	1.11	1346	1.24	1423	1.42
	0.86	2000	1080	0.84	1176	1.01	1254	1.19	1334	1.33	1409	1.55	1477	1.67
RAB20	0.42	1500	729	0.37	846	0.49	954	0.62	1046	0.76	1146	0.90	1239	1.02
	0.54	1750	791	0.52	909	0.66	1005	0.81	1091	0.95	1177	1.08	1259	1.22
	0.67	2000	863	0.68	965	0.85	1059	1.02	1145	1.18	1223	1.32	1298	1.48
	0.82	2250	937	0.91	1030	1.06	1124	1.27	1204	1.43	1279	1.61	1350	1.78
	0.97	2500	1010	1.14	1103	1.33	1187	1.52	1257	1.73	1.73	1.96	1400	2.13
RAB30	0.40	2250	612	0.50	714	0.66	801	0.80	880	0.96	950	1.08	1015	1.24
	0.51	2625	678	0.74	763	0.89	845	1.06	927	1.24	993	1.42	1056	1.58
	0.63	3000	739	1.02	820	1.19	894	1.38	966	1.58	1032	1.77	1095	1.97
	0.76	3375	798	1.34	873	1.56	946	1.75	1012	1.96	1075	2.20	1129	2.40
	0.90	3750	867	1.75	933	1.94	994	2.16	1056	2.36	1121	2.62	1179	2.88
RAB40	0.57	3000	725	1.00	812	1.23	889	1.44	958	1.70	1020	1.90	1083	2.13
	0.72	3500	813	1.43	881	1.64	947	1.87	1015	2.14	1077	2.41	1134	2.67
	0.89	4000	896	2.01	958	2.24	1028	2.54	1078	2.77	1141	3.08	1192	3.35
	1.08	4500	971	2.65	1034	2.96	1091	3.25	1144	3.50	1200	3.73	1251	4.09
	1.32	5000	1052	3.42	1124	3.83	1176	4.16	1228	4.46	1274	4.73	1318	5.02
RAB60	0.74	5000	800	2.10	880	2.40	950	2.70	990	2.90	1040	3.10	1110	3.50
	0.95	5500	890	2.80	950	3.00	1000	3.50	1060	3.70	1100	4.00	1180	4.10
	1.15	6000	960	3.80	1000	4.00	1050	4.30	1140	4.60	1180	4.90	1210	5.20
	1.35	6500	1040	4.70	1100	5.10	1130	5.40	1190	6.00	1230	6.30	1300	7.00
	1.55	7000	1100	5.50	1150	6.00	1180	6.50	1220	7.00	1290	7.50	1340	7.80
RAB80	0.76	7000	590	2.50	630	3.00	690	3.40	730	3.80	790	4.10	820	4.50
	0.93	7500	630	3.00	690	3.50	730	3.80	780	4.30	810	4.80	860	5.30
	1.09	8000	680	3.80	710	4.10	760	4.50	810	5.30	850	5.80	900	6.30
	1.25	8500	710	4.30	760	5.00	800	5.50	840	6.00	890	6.50	920	7.00
	1.41	9000	740	5.00	790	5.80	830	6.30	880	6.80	910	7.30	950	7.80

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 0.75 BHP. 1.15 x 0.75 = 0.86. Round up to nearest nominal motor size = 1 HP.
- Total Static Pressure (TSP) = Internal Static Pressure + External Static Pressure (ESP)
- ESP = TSP - Internal SP