



**TUTHILL
CORPORATION**

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Division**

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TECHNICAL BULLETIN #7

Vacuum Booster Data Sheet

MODEL SIZE	FLANGED PORT SIZE	DISPL. CFR	MAXIMUM SPEED RPM	FHP COEFFICIENT §	MINIMUM STARTUP HP	MAXIMUM DISPL. CFM	WEIGHT OF TWO ROTORS	TOTAL BOOSTER WEIGHT
3204	2 in.	.045	3600	.639	2	162	30 lbs.	140 lbs.
3206	3	.063	3600	.639	3	227	44	160
3210	4	.105	3600	.639	3	378	50	180
4009	4	.150	3600	.681	5	540	64	200
4012	4	.200	3600	.681	5	720	78	220
5507	see below†	.235	3600	1.000	10	846	100	380
5511	6	.345	3600	1.000	10	1242	122	480
5514	6	.440	3600	1.000	10	1584	152	575
5518	8	.565	3600	1.000	10	2034	196	650
5524‡	10	.736	3600	1.000	10	2700	254	810
7010	6	.593	3000	1.389	15	1779	210	1050
7013	8	.752	3000	1.389	15	2256	260	1150
7017	10	.983	3000	1.389	20	2949	332	1300
7021	12	1.214	3000	1.389	20	3642	402	1450
7026	12	1.503	3000	1.389	25	4509	492	1600
9012	10	.990	2400	5.000	15	2376	260	1590
9016	12	1.321	2400	5.000	20	3170	310	1710
9020	12	1.733	2400	5.000	25	4159	380	1950
9027	14	2.311	2400	5.000	30	5546	440	2185
9036	16	3.037	2400	5.000	30	7289	580	2600
1215	12	2.209	1800	7.778	40	3976	590	4200
1224	14	3.534	1800	7.778	40	6361	840	4950
1230	14	4.418	1800	7.778	40	7952	955	5425
1236	18	5.301	1800	7.778	40	9542	1070	5900
1248	20	7.068	1800	7.778	40	12,722	1300	6850

NOTES:

§ Frictional HP shown at 1000 RPM. For actual frictional HP at specific operating conditions, apply the following formula:

$$\text{Actual FHP} = \text{FHP coefficient} \times \frac{\text{Actual RPM}}{1000}$$

† 5507-90/92 - (vertical flow) standard with 6" flg. top port and 3" flg. bottom port. 3" flg. top port optional, bottom port only.
5507-91/93 - (horizontal flow) standard with 6" flg. ports, 3" flg. optional.
5507-90E - (vertical flow with water cooled end plates) standard with 6" flg. ports, 3" flg. optional.

‡ Maximum allowable horsepower for model 5524 is 40 HP. For applications exceeding 40 HP, use model 7013.