



Downblast Spun Aluminum Exhausters

**SD Direct &
SB Belt Drive
Series**



Canarm certifies that the SD & SB Series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publications 211 & 311 and comply with the requirements of the AMCA Certified Ratings Programme.

WARRANTY

Canarm Air Moving Products are guaranteed for a period of one year against manufacturing defects in material and workmanship when operating under normal conditions. Liability is limited to the replacement of defective parts. Labour and transportation costs are not included.

If a replacement is warranted the following MUST be provided:

1. Model of equipment
2. Date of manufacture
3. Original invoice reference number(s)

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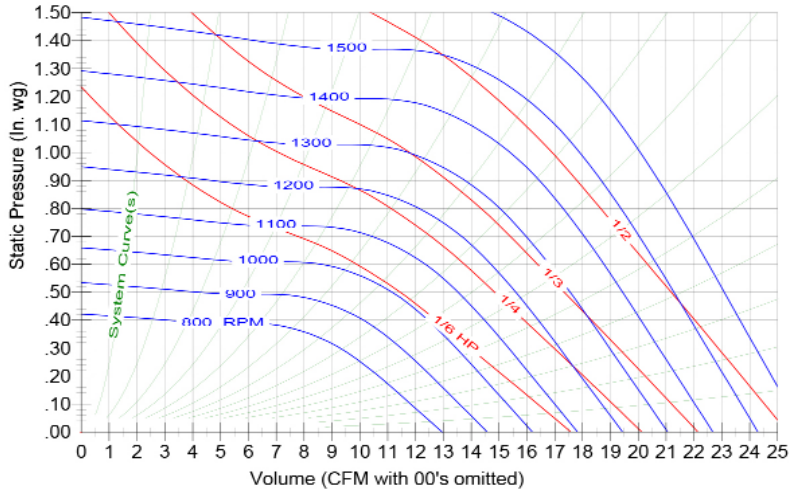
SB-13

Max RPM - 1530

Motor:

Max HP - 1/2
Max Frame - 56T

CFM	Static Pressure in Inches W.G.														
	0" SP			0.25" SP			0.5" SP			0.75" SP			1" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
1100	680	4.3	0.04	847	5.5	0.1	994	7.4	0.16	1143	10.4	0.23	--	--	--
1300	803	5.7	0.07	950	7.4	0.13	1075	9.4	0.2	1200	12.1	0.28	1327	11.2	0.36
1500	926	7.7	0.1	1058	9.9	0.18	1170	11.9	0.25	1277	12.1	0.34	1385	12	0.43
1700	1049	10.2	0.15	1169	12.8	0.23	1272	13.4	0.32	1367	13.2	0.41	1462	13.7	0.5
1900	1173	13.3	0.21	1282	14	0.3	1377	14.3	0.4	1464	15.7	0.5	--	--	--
2100	1296	13.9	0.28	1396	14.9	0.38	1484	15.9	0.49	--	--	--	--	--	--
2300	1420	16.3	0.37	1512	16.8	0.48	--	--	--	--	--	--	--	--	--
2500	1543	18.2	0.48	--	--	--	--	--	--	--	--	--	--	--	--



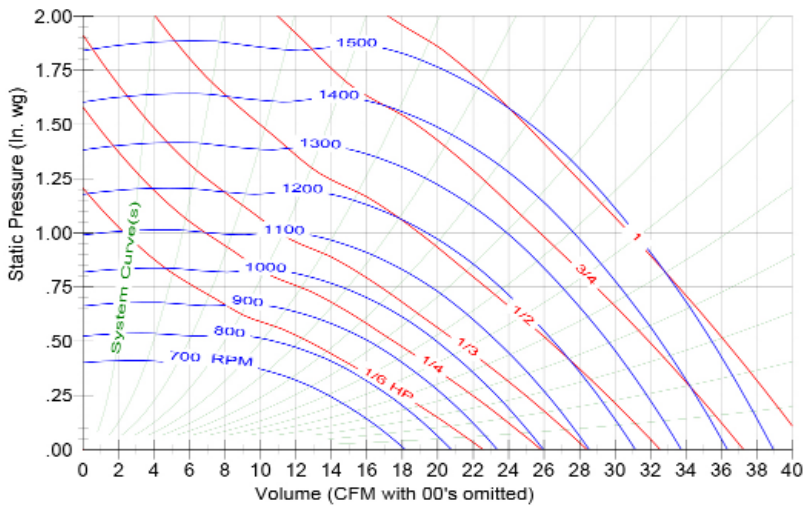
SB-15

Max RPM - 1520

Motor:

Max HP - 1
Max Frame - 145T

CFM	Static Pressure in Inches W.G.																							
	0" SP			0.25" SP			0.5" SP			0.75" SP			1" SP			1.25" SP			1.5" SP			1.75" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
1600	619	3.8	0.06	765	5.4	0.13	901	6.9	0.22	1028	7.1	0.32	1146	12	0.42	1257	12.4	0.54	1363	12.9	0.67	1465	13.7	0.8
2000	773	6.4	0.12	892	8	0.21	1006	9.2	0.31	1114	10.4	0.42	1217	11.7	0.53	1315	13.1	0.66	1409	13.4	0.79	1500	14	0.93
2400	928	9.4	0.2	1027	9.9	0.3	1124	12.3	0.42	1218	12.9	0.55	1308	15	0.67	1395	15.5	0.81	1480	15.2	0.95	--	--	--
2800	1082	10.3	0.32	1168	13.5	0.44	1252	15.7	0.57	1334	16.5	0.71	1412	17.4	0.85	1492	17.9	1	--	--	--	--	--	--
3200	1237	15.1	0.47	1312	17	0.61	1386	18	0.75	1459	18.8	0.91	--	--	--	--	--	--	--	--	--	--	--	--
3600	1392	18.6	0.68	1458	19.5	0.82	1524	20	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4000	1546	21	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



SI CONVERSION FACTOR:
CFM x 0.472 = L/s SP x 0.249 = kPa



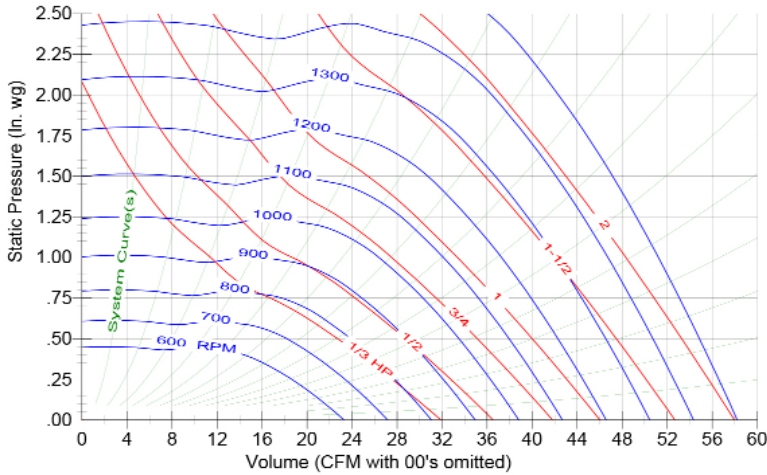
SB-18

Max RPM - 1440

Motor:

Max HP - 2
Max Frame - 145T

CFM	Static Pressure in Inches W.G.																										
	0" SP			0.25" SP			0.5" SP			0.75" SP			1" SP			1.25" SP			1.5" SP			1.75" SP			2" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
1600	408	2.5	0.05	543	3.7	0.13	670	5.9	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
2000	510	4.1	0.09	622	5.6	0.19	722	7.4	0.29	825	9.3	0.42	930	11.1	0.58	--	--	--	--	--	--	--	--	--	--		
2400	612	6.2	0.15	709	8.1	0.27	793	9.3	0.39	877	10.4	0.52	962	11.7	0.68	1049	12	0.85	1137	13.8	1.06	--	--	--	--		
2800	714	9.3	0.24	800	10.6	0.37	874	11.2	0.51	945	12	0.66	1017	12	0.82	1089	12.8	0.99	1163	14.3	1.18	1238	15.6	1.4	1315	17	1.64
3200	816	11.9	0.36	893	12.7	0.51	960	13.4	0.67	1023	13.1	0.83	1085	12.7	1	1147	14	1.18	1211	15.8	1.37	1275	16.5	1.58	1340	17.5	1.8
3600	918	14.1	0.52	988	14.7	0.68	1049	14.6	0.86	1106	14.8	1.04	1162	16.2	1.22	1217	17.4	1.41	1273	17.8	1.61	1329	18.3	1.82	--	--	--
4000	1020	15.1	0.71	1084	16.5	0.89	1140	17.1	1.08	1193	18.6	1.28	1244	19.2	1.69	1294	19.6	1.69	1344	20	1.9	--	--	--	--	--	--
4400	1122	17.6	0.94	1181	19.5	1.14	1233	21	1.35	1282	21	1.57	1330	22	1.79	--	--	--	--	--	--	--	--	--	--	--	--
4800	1224	21	1.22	1278	22	1.43	1328	23	1.66	1374	24	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5200	1326	24	1.55	1376	25	1.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5600	1428	26	1.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Power rating BHP does not include transmission losses.
Performance shown is for installation Type A; Free Inlet, Free Outlet.
Performance ratings do not include the effects of appurtenances (accessories).

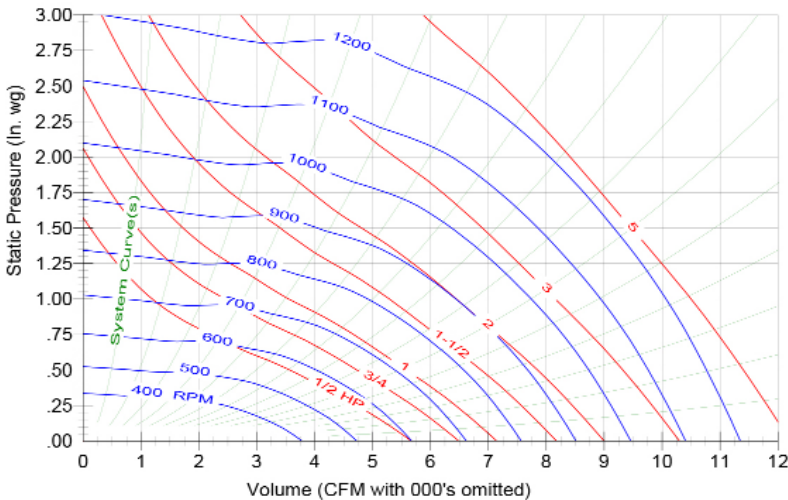
SB-24

Max RPM - 1240

Motor:

Max HP - 5
Max Frame - 182T

CFM	Static Pressure in Inches W.G.																										
	0" SP			0.25" SP			0.5" SP			0.75" SP			1" SP			1.25" SP			1.5" SP			1.75" SP			2" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
3000	317	3.6	0.07	434	5.8	0.22	542	7.8	0.41	641	10.8	0.64	734	14.1	0.89	819	16.1	1.16	--	--	--	--	--	--	--	--	--
4000	422	6.5	0.17	511	8.3	0.36	598	9.4	0.58	679	12.1	0.83	756	14.9	1.1	831	16.3	1.4	903	17.6	1.73	972	19.7	2.08	1037	22	2.43
5000	527	9.5	0.34	597	11.1	0.56	670	13.2	0.82	739	15.4	1.1	805	15.9	1.4	868	16.9	1.72	930	18.2	2.06	990	20	2.43	1049	23	2.81
6000	633	13.3	0.59	690	14.7	0.85	751	17.1	1.14	811	17.6	1.46	869	18	1.79	924	18	2.14	978	19.9	2.51	1031	22	2.89	1083	24	3.29
7000	738	17.4	0.93	786	18.8	1.23	838	18.8	1.56	891	18.9	1.92	942	20	2.29	992	21	2.67	1040	23	3.07	1088	26	3.48	1134	27	3.91
8000	844	49.6	1.39	885	20	1.72	930	21	2.09	976	23	2.48	1022	24	2.9	1067	26	3.32	1111	28	3.76	1154	29	4.2	1196	30	4.66
9000	949	22	1.98	986	24	2.35	1025	25	2.75	1065	28	3.18	1106	30	3.63	1147	31	4.09	1187	32	4.57	--	--	--	--	--	--
10000	1055	27	2.71	1087	30	3.12	1122	30	3.56	1158	31	4.02	1194	33	4.51	--	--	--	--	--	--	--	--	--	--	--	--
11000	1160	33	3.61	1189	33	4.05	1220	34	4.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12000	1265	37	4.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--





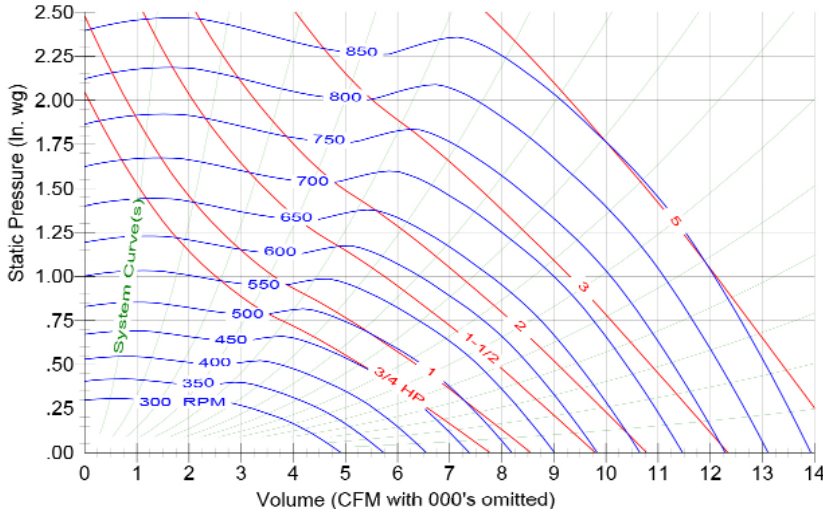
SB-30

Max RPM - 860

Motor:

Max HP - 5
Max Frame - 182T

CFM	Static Pressure in Inches W.G.																										
	0" SP			0.25" SP			0.5" SP			0.75" SP			1" SP			1.25" SP			1.5" SP			1.75" SP			2" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
6500	396	7	0.44	449	8.1	0.73	499	9.2	1.03	553	9.6	1.38	604	11	1.75	649	12.3	2.13	690	13.5	2.5	729	14.6	2.89	--	--	--
7500	457	9.4	0.67	504	10.6	1.01	547	11	1.34	592	11	1.71	639	12	2.55	683	13.3	2.55	724	14.5	2.98	761	15.5	3.41	797	16.4	3.85
8500	518	12.2	0.97	561	12.8	1.37	598	12.5	1.73	636	12.6	2.12	677	14.1	2.55	718	14.3	3.02	758	15.4	3.5	795	16.3	3.99	830	17.6	4.48
9500	579	13.3	1.36	618	14.8	1.81	652	14.3	2.21	685	15.3	2.63	720	15.6	3.08	757	17	3.57	794	16.3	4.08	830	18.6	4.62	--	--	--
10500	640	15.5	1.83	676	16.8	2.34	707	17.2	2.79	737	16.8	3.24	768	17.7	3.71	800	18.4	4.22	833	19.8	4.76	--	--	--	--	--	--
11500	700	17.6	2.41	735	18.7	2.97	763	19.8	3.46	791	18.3	3.96	818	21	4.46	847	21	4.99	--	--	--	--	--	--	--	--	--
12500	761	19.7	3.09	794	21	3.71	820	23	4.26	846	23	4.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13500	822	24	3.89	853	25	4.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Power rating BHP does not include transmission losses.
Performance shown is for installation Type A; Free Inlet, Free Outlet.
Performance ratings do not include the effects of appurtenances (accessories).

SB SERIES



SD SERIES



How to Select a Direct Drive Blower

1. Locate your system characteristics (CFM & SP) on the chart with the blower performance curves.
2. Move up the system curve to intersect the closest blower performance curve. That is the performance (CFM & SP) that the blower will provide at full speed.
3. Note the CFM.
4. The speed reduction required to operate at the desired CFM is 1 less the ratio of the full speed CFM to the desired CFM.

Example: Required 1000 CFM @ 0.375 in. W.G. (ref. SD-10 to SD-30 curves)

1. Locate 1000 CFM @ 0.375 in. W.G. on the chart (pt. 1).
2. Move up the chart, parallel to the system curves (follow the arrow), to intersect the 1st blower curve (SDUB-30). The intersection point, (pt. 2), 1175 cfm @ 0.54 in W.G. is the performance that the SDUB-30 will deliver at full RPM.
3. To deliver the desired 1000 CFM, using the speed controller, reduce the RPM to attain the required 1000 CFM. In this case, the required reduction is $1 - (\text{required CFM} / \text{full speed CFM}) = 1 - (1000/1175) = 15\%$.



SD-10

Max RPM - 1550

Motor: 1/12 HP

CFM	Static Pressure in Inches W.G.																	
	0" SP			0.125" SP			0.25" SP			0.375" SP			0.5" SP			0.625" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
250	716	1.3	0.01	943	2.7	0.02	1111	3.8	0.03	1256	4.8	0.04	1389	5.9	0.06	1506	7.2	0.07
300	860	2.3	0.01	1064	3.5	0.03	1215	4.5	0.04	1351	5.6	0.05	1471	6.9	0.07	--	--	--
350	1003	3.1	0.02	1186	4.3	0.04	1326	5.4	0.05	1452	6.6	0.07	--	--	--	--	--	--
400	1143	4	0.03	1316	5.3	0.05	1444	6.5	0.06	--	--	--	--	--	--	--	--	--
450	1286	5.1	0.05	1447	6.6	0.07	--	--	--	--	--	--	--	--	--	--	--	--
500	1429	6.4	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SD-12

Max RPM - 1625

Motor: 1/7 HP

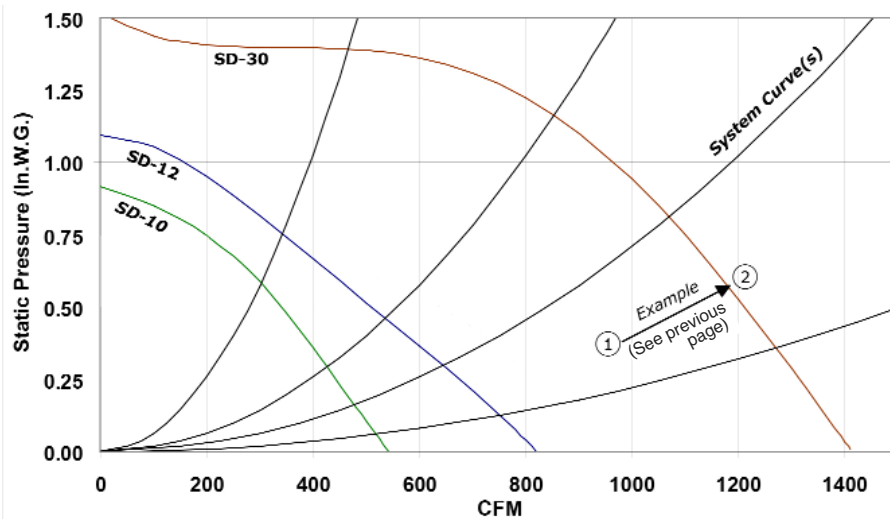
CFM	Static Pressure in Inches W.G.																				
	0" SP			0.125" SP			0.25" SP			0.375" SP			0.5" SP			0.625" SP			0.75" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
300	595	1.3	0.01	872	3.6	0.03	1064	5.5	0.05	1220	7.2	0.08	1351	8.9	0.1	1471	10.7	0.13	1579	11.6	0.17
400	792	3	0.02	1026	5.1	0.05	1198	7	0.07	1347	8.9	0.1	1476	10.8	0.13	1587	11.7	0.17	--	--	--
500	990	4.6	0.04	1190	6.8	0.07	1348	8.9	0.1	1484	10.9	0.14	1603	11.8	0.17	--	--	--	--	--	--
600	1188	6.8	0.07	1364	9.1	0.11	1504	11.1	0.14	--	--	--	--	--	--	--	--	--	--	--	--
700	1386	9.4	0.11	1542	11.3	0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
800	1584	11.6	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SD-30

Max RPM - 1625

Motor: 1/4 HP

CFM	Static Pressure in Inches W.G.																										
	0" SP			0.125" SP			0.25" SP			0.375" SP			0.5" SP			0.625" SP			0.75" SP			1" SP			1.25" SP		
	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP	RPM	SONE	BHP
825	715	3.6	0.03	618	3.6	0.03	494	3.6	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
925	802	4.5	0.05	717	4.5	0.05	616	4.5	0.05	487	4.5	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1025	888	5.5	0.06	813	5.5	0.06	729	5.5	0.06	624	5.5	0.06	483	5.5	0.06	--	--	--	--	--	--	--	--	--	--	--	--
1125	975	6.6	0.08	907	6.6	0.08	832	6.6	0.08	745	6.6	0.08	643	6.6	0.08	501	6.6	0.08	--	--	--	--	--	--	--	--	--
1225	1062	7.7	0.11	999	7.7	0.11	932	7.7	0.11	861	7.7	0.11	771	7.7	0.11	673	7.7	0.11	535	7.7	0.11	--	--	--	--	--	--
1325	1148	9	0.14	1091	9	0.14	1031	9	0.14	965	9	0.14	891	9	0.14	808	9	0.14	714	9	0.14	--	--	--	--	--	--
1425	1235	10.4	0.17	1182	10.4	0.17	1127	10.4	0.17	1067	10.4	0.17	1005	10.4	0.17	930	10.4	0.17	851	10.4	0.17	638	10.4	0.17	--	--	--
1525	1322	11.9	0.21	1272	11.9	0.21	1221	11.9	0.21	1221	11.9	0.21	1167	11.9	0.21	1048	11.9	0.21	975	11.9	0.21	818	11.9	0.21	--	--	--
1625	1409	13.4	0.25	1362	13.4	0.25	1314	13.4	0.25	1265	13.4	0.25	1211	13.4	0.25	1157	13.4	0.25	1094	13.4	0.25	955	13.4	0.25	773	13.4	0.25



Power rating BHP does not include transmission losses.
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