

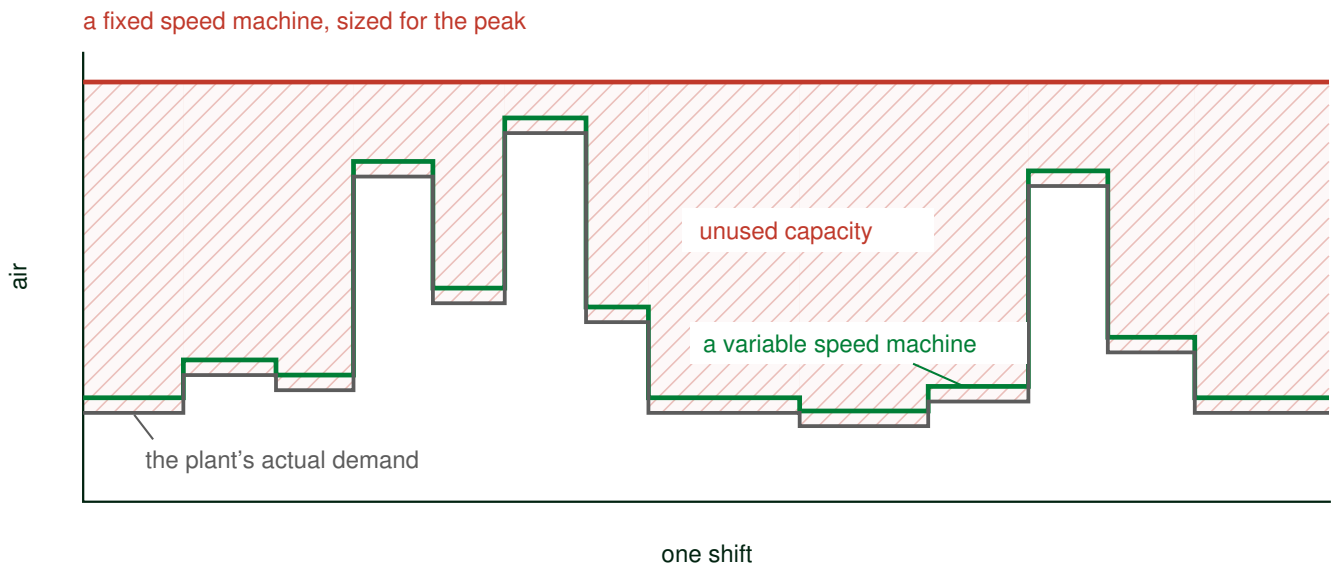
START WITH THE SIZE.

Rotary screw compressors, 2.2 to 250 kW, 0.21 to 48 m³/min, 5 to 13 bar g. Fixed speed and variable speed from 7.5 kW upwards. 58 models.



THE MACHINE THAT IS TOO BIG

Nearly every compressor bought without a measurement is bought too large. It is the safe-feeling mistake: nobody is ever blamed for a machine that keeps up. But a fixed speed compressor bigger than the plant it feeds does not sit quietly waiting. It loads, fills the system, unloads, and keeps turning — drawing a real share of its full power to produce no air at all — and it does that for twenty years.

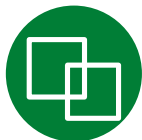


The red area shows unused capacity, not measured energy waste. Actual energy savings depend on the load profile and the machine's controls.



Measure before you choose

A week of logging on the existing machine tells you more than any estimate. We will fit the logger and read it for you, and it costs nothing.



Two smaller machines often beat one large one

One carries the base load, the second starts only on peaks, and either can be serviced without stopping the plant. Our controller sequences up to six.



The pressure is part of the size

Every bar above what the plant actually needs is paid for in power. You can watch it happen in these tables: the same machine, quoted a few bar higher, delivers visibly less air.

THE DECISION THAT OUTLASTS THE PURCHASE

What the difference is. A fixed speed machine runs its motor at one speed and switches between making air and making none. A variable speed machine changes the motor's speed to make exactly the air being drawn, so it runs continuously at whatever rate the plant is actually using.

Why it matters more than the badge. Air demand in a real factory is never flat — shifts change, lines stop, a blow-off runs for ten seconds. The machine that can follow that is cheaper to own even where it is dearer to buy, and the gap widens every year it is in service.

	Fixed speed (GAC-S, GAC-FC)	Variable speed (GAC-SV, GAC-FCV)
Motor speed	One speed	Follows demand
Output	Full flow, or none	Anywhere between its minimum and full flow
Turndown in these tables	—	To between 12% and 58% of full flow, by model
Suits	A steady, predictable load	A load that changes through the shift
Starting	In-rush on every start	Soft start, every time
Pressure held	Swings between two set points	Held close to one set point
Where it wastes	Unloaded running whenever demand is below full	Running near full flow all day, where it has nothing to offer

Variable speed is not automatically right.

A plant that genuinely draws close to full flow all day gives a variable speed machine nothing to do, and the drive is then only a cost and one more thing to fail. We have sold plenty of fixed speed machines to people who expected us to sell the other one.

The honest test is the load profile, not the brochure.

From 7.5 kW upwards, this document lists both, so they can be compared on one page instead of across two quotations.

Both drives from 7.5 kW upwards

The variable speed machine is the same airend, the same frame and the same service parts as the fixed speed one beside it. What changes is the drive, and what it does with a falling demand.



HOW TO READ THE NEXT SEVEN PAGES

The tables run by motor size, smallest first. From 7.5 kW upwards, each band includes fixed speed and variable speed machines, and every machine appears once for each pressure it is offered at. That is why the same code appears two or three times: it is one machine, quoted at the pressures it is built for, and the capacity falls as the pressure rises.

Four things the columns mean

Capacity is free air delivered at the stated working pressure — the air that arrives at the plant, not the air that enters the machine.

A range in the capacity column belongs to a variable speed machine: the lower figure is its minimum, the upper its full output.

A range in the pressure column means the machine is offered across that span, so one code can appear as a 6 to 10 bar machine and a 6 to 13 bar one.

Noise is a sound pressure figure for the machine as supplied. A quieter machine is often the one that saves you building it a room.

On page 5 only, a code ending -270 or -500 is the same machine supplied on a receiver of that many litres; the dimensions and weight in those rows are for the whole package, which is why they jump.

Which page you want

If the plant draws	Turn to
Under 1 m³/min	Page 5 — 2.2 to 5.5 kW
1 to 4 m³/min	Page 6 — 7.5 to 22 kW
3 to 6 m³/min	Page 7 — the 23 to 29 series
4 to 8 m³/min	Page 8 — 30 to 45 kW
8 to 14 m³/min	Page 9 — 55 to 75 kW
14 to 24 m³/min	Page 10 — 90 to 132 kW
Over 24 m³/min	Page 11 — 160 to 250 kW

The bands overlap because the right machine depends on the pressure as much as the flow. Where two bands could serve you, the larger machine run at a lower pressure is usually the cheaper one to own.

Ask for the duty, not the model

Tell us the air you draw, the pressure you need at the far end and the hours you run, and we will name the machine. It is a shorter conversation than comparing specifications, and it ends with a number you can check.



2.2 TO 5.5 KW

What it is. The smallest screw we build, for a workshop that has outgrown a piston machine and wants to stop listening to it. 100% duty cycle, 10 bar g, 63 to 68 dB(A).

What the suffix means. A code ending -270 or -500 is the same machine mounted on a receiver of that many litres. A code with no suffix is the machine on its own base. Base mounted it stands on 0.39 m² of floor; on the 270 litre tank the package is 1.11 m², and on the 500 litre tank 1.36 m².

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 2.2	Fixed	2.2	3	10	145	0.21	7	63	151	333	600 × 650 × 1100
GAC-S 3.0	Fixed	3	4	10	145	0.35	12	64	151	333	600 × 650 × 1100
GAC-S 4.0	Fixed	4	5	10	145	0.45	16	67	154	340	600 × 650 × 1100
GAC-S 5.5	Fixed	5.5	7	10	145	0.66	23	68	173	381	600 × 650 × 1100
GAC-S 2.2-270	Fixed	2.2	3	10	145	0.21	7	63	242	534	1539 × 720 × 1604
GAC-S 3.0-270	Fixed	3	4	10	145	0.35	12	64	242	534	1539 × 720 × 1604
GAC-S 4.0-270	Fixed	4	5	10	145	0.45	16	67	245	540	1539 × 720 × 1604
GAC-S 4.0-500	Fixed	4	5	10	145	0.45	16	67	314	692	1885 × 720 × 1700
GAC-S 5.5-270	Fixed	5.5	7	10	145	0.66	23	68	263	580	1539 × 720 × 1604
GAC-S 5.5-500	Fixed	5.5	7	10	145	0.66	23	68	333	734	1885 × 720 × 1700

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

7.5 TO 22 KW

The band most general engineering shops, small textile units and bottling lines land in, and the first band where the variable speed machine usually pays for itself.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 7.5	Fixed	7.5	10	8	116	0.99	35	70	205	452	667 × 630 × 1050
GAC-S 7.5	Fixed	7.5	10	10	145	0.97	34	70	205	452	667 × 630 × 1050
GAC-S 7.5	Fixed	7.5	10	13	189	0.80	28	70	205	452	667 × 630 × 1050
GAC-S 11	Fixed	11	15	8	116	1.58	56	70	219	483	667 × 630 × 1050
GAC-S 11	Fixed	11	15	10	145	1.39	49	70	219	483	667 × 630 × 1050
GAC-S 11	Fixed	11	15	13	189	1.14	40	70	219	483	667 × 630 × 1050
GAC-S 15	Fixed	15	20	7.5	109	2.70	95	70	335	739	787 × 698 × 1202
GAC-S 15	Fixed	15	20	10	145	2.26	80	70	335	739	787 × 698 × 1202
GAC-S 15	Fixed	15	20	13	189	1.80	64	70	335	739	787 × 698 × 1202
GAC-S 18.5	Fixed	18.5	25	7.5	109	3.25	115	71	361	796	787 × 698 × 1202
GAC-S 18.5	Fixed	18.5	25	10	145	2.74	97	71	361	796	787 × 698 × 1202
GAC-S 18.5	Fixed	18.5	25	13	189	2.34	83	71	361	796	787 × 698 × 1202
GAC-S 22	Fixed	22	30	7.5	109	3.65	129	71	367	809	787 × 698 × 1202
GAC-S 22	Fixed	22	30	10	145	3.21	113	71	367	809	787 × 698 × 1202
GAC-S 22	Fixed	22	30	13	189	2.61	92	71	367	809	787 × 698 × 1202
GAC-SV 7.5	Variable	7.5	10	8	116	0.46 – 0.98	16 – 35	67	225	496	667 × 630 × 1050
GAC-SV 7.5	Variable	7.5	10	10	145	0.43 – 0.95	15 – 34	67	225	496	667 × 630 × 1050
GAC-SV 7.5	Variable	7.5	10	13	189	0.45 – 0.77	16 – 27	67	225	496	667 × 630 × 1050
GAC-SV 11	Variable	11	15	8	116	0.52 – 1.56	18 – 55	67	234	516	667 × 630 × 1050
GAC-SV 11	Variable	11	15	10	145	0.51 – 1.39	18 – 49	67	234	516	667 × 630 × 1050
GAC-SV 11	Variable	11	15	13	189	0.49 – 1.07	17 – 38	67	234	516	667 × 630 × 1050
GAC-SV 15	Variable	15	20	7.5	109	0.92 – 2.60	32 – 92	67	365	805	787 × 698 × 1202
GAC-SV 15	Variable	15	20	10	145	0.86 – 2.18	30 – 77	67	365	805	787 × 698 × 1202
GAC-SV 15	Variable	15	20	13	189	0.83 – 1.67	29 – 59	67	365	805	787 × 698 × 1202
GAC-SV 18.5	Variable	18.5	25	7.5	109	1.33 – 3.05	47 – 108	68	381	840	787 × 698 × 1202
GAC-SV 18.5	Variable	18.5	25	10	145	1.28 – 2.62	45 – 93	68	381	840	787 × 698 × 1202
GAC-SV 18.5	Variable	18.5	25	13	189	1.22 – 2.20	43 – 78	68	381	840	787 × 698 × 1202
GAC-SV 22	Variable	22	30	7.5	109	1.04 – 3.54	37 – 125	69	386	851	787 × 698 × 1202
GAC-SV 22	Variable	22	30	10	145	0.93 – 3.15	33 – 111	69	386	851	787 × 698 × 1202
GAC-SV 22	Variable	22	30	13	189	0.90 – 2.66	32 – 94	69	386	851	787 × 698 × 1202

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

THE 23 TO 29 SERIES

A narrow series between the 22 kW frame and the 37 kW one, for the plant that has outgrown the first and has neither the supply nor the floor for the second. Motors are 22, 26 and 30 kW.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 23	Fixed	22	30	7.5	109	4.16	147	67	650	1433	1345 × 880 × 1612
GAC-S 23	Fixed	22	30	10	145	3.45	122	67	650	1433	1345 × 880 × 1612
GAC-S 23	Fixed	22	30	13	189	2.98	105	67	650	1433	1345 × 880 × 1612
GAC-S 26	Fixed	26	35	7.5	109	4.84	171	68	677	1493	1345 × 880 × 1612
GAC-S 26	Fixed	26	35	10	145	4.13	146	68	677	1493	1345 × 880 × 1612
GAC-S 26	Fixed	26	35	13	189	3.44	121	68	677	1493	1345 × 880 × 1612
GAC-S 29	Fixed	30	40	7.5	109	5.52	195	69	681	1501	1345 × 880 × 1612
GAC-S 29	Fixed	30	40	10	145	4.81	170	69	681	1501	1345 × 880 × 1612
GAC-S 29	Fixed	30	40	13	189	4.12	145	69	681	1501	1345 × 880 × 1612
GAC-SV 23	Variable	22	30	7.5	109	1.11 – 4.12	39 – 145	68	681	1501	1345 × 880 × 1612
GAC-SV 23	Variable	22	30	10	145	1.03 – 3.70	36 – 131	68	681	1501	1345 × 880 × 1612
GAC-SV 26	Variable	26	35	7.5	109	1.11 – 4.78	39 – 169	69	708	1561	1345 × 880 × 1612
GAC-SV 26	Variable	26	35	10	145	1.03 – 4.10	36 – 145	69	708	1561	1345 × 880 × 1612
GAC-SV 26	Variable	26	35	13	189	0.92 – 3.56	32 – 126	69	708	1561	1345 × 880 × 1612
GAC-SV 29	Variable	30	40	7.5	109	1.11 – 5.41	39 – 191	69	712	1570	1345 × 880 × 1612
GAC-SV 29	Variable	30	40	10	145	1.03 – 4.50	36 – 159	69	712	1570	1345 × 880 × 1612
GAC-SV 29	Variable	30	40	13	189	0.92 – 3.82	32 – 135	69	712	1570	1345 × 880 × 1612

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

30 TO 45 KW

The size at which a second machine starts to make more sense than a larger one, and at which the pressure you ask for begins to cost real money.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 30	Fixed	30	40	7.5	109	5.75	203	67	887	1955	1722 × 920 × 1659
GAC-S 30	Fixed	30	40	10	145	5.01	177	67	887	1955	1722 × 920 × 1659
GAC-S 30	Fixed	30	40	13	189	4.27	151	67	887	1955	1722 × 920 × 1659
GAC-S 37	Fixed	37	50	7.5	109	7	247	68	912	2011	1722 × 920 × 1659
GAC-S 37	Fixed	37	50	10	145	6.17	218	68	912	2011	1722 × 920 × 1659
GAC-S 37	Fixed	37	50	13	189	5.30	187	68	912	2011	1722 × 920 × 1659
GAC-S 45	Fixed	45	60	7.5	109	9.30	328	70	1075	2370	1448 × 968 × 1806
GAC-S 45	Fixed	45	60	10	145	8.30	293	70	1075	2370	1448 × 968 × 1806
GAC-S 45	Fixed	45	60	13	189	7.40	261	70	1075	2370	1448 × 968 × 1806
GAC-SV 30	Variable	30	40	5 – 10	73 – 145	1.33 – 5.53	47 – 195	66	925	2039	1722 × 920 × 1659
GAC-SV 37	Variable	37	50	5 – 13	73 – 189	1.44 – 6.90	51 – 244	67	952	2099	1722 × 920 × 1659
GAC-SV 45	Variable	45	60	6 – 10	87 – 145	2.50 – 9.25	88 – 327	69	990	2183	1448 × 968 × 1806
GAC-SV 45	Variable	45	60	6 – 13	87 – 189	2.50 – 9.10	88 – 321	69	990	2183	1448 × 968 × 1806

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

55 TO 75 KW

Mid-sized plant. At this size a week of logging before you choose is worth more than any discount you will negotiate afterwards.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 55	Fixed	55	74	7.5	109	11.10	392	71	1110	2447	1448 × 968 × 1806
GAC-S 55	Fixed	55	74	10	145	10	353	71	1110	2447	1448 × 968 × 1806
GAC-S 55	Fixed	55	74	13	189	8.90	314	71	1110	2447	1448 × 968 × 1806
GAC-S 75	Fixed	75	101	8	116	13.20	466	—	—	—	—
GAC-SV 55	Variable	55	74	5 – 10	73 – 145	1.60 – 10.50	57 – 371	70	950	2094	1448 × 968 × 1806
GAC-SV 55	Variable	55	74	6 – 10	87 – 145	2.50 – 11.07	88 – 391	69	990	2183	1448 × 968 × 1806
GAC-SV 55	Variable	55	74	6 – 13	87 – 189	2.50 – 10.94	88 – 386	69	990	2183	1448 × 968 × 1806
GAC-SV 75	Variable	75	101	5 – 13	73 – 189	2.80 – 13.50	99 – 477	—	—	—	—

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

90 TO 132 KW

Where the compressor becomes one of the larger electrical loads in the building, and where recovering its heat starts to be worth engineering.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-S 90	Fixed	90	121	7.5	109	18.16	641	73	2447	5395	2290 × 1327 × 2039
GAC-S 90	Fixed	90	121	10	145	15.51	548	73	2447	5395	2290 × 1327 × 2039
GAC-S 90	Fixed	90	121	13	189	13.52	477	73	2447	5395	2290 × 1327 × 2039
GAC-S 110	Fixed	110	148	7.5	109	21.60	763	75	2532	5582	2290 × 1327 × 2039
GAC-S 110	Fixed	110	148	10	145	18.85	666	75	2532	5582	2290 × 1327 × 2039
GAC-S 110	Fixed	110	148	13	189	16.47	582	75	2532	5582	2290 × 1327 × 2039
GAC-S 132	Fixed	132	177	7.5	109	24.79	875	76	2764	6094	2290 × 1327 × 2039
GAC-S 132	Fixed	132	177	10	145	21.51	760	76	2764	6094	2290 × 1327 × 2039
GAC-S 132	Fixed	132	177	13	189	18.70	660	76	2764	6094	2290 × 1327 × 2039
GAC-SV 90	Variable	90	121	5 – 13	73 – 189	5.20 – 18.16	184 – 641	72	2579	5686	2290 × 1327 × 2039
GAC-SV 110	Variable	110	148	5 – 13	73 – 189	5.10 – 21.52	180 – 760	72	2604	5741	2290 × 1327 × 2039
GAC-SV 132	Variable	132	177	5 – 13	73 – 189	5.10 – 24.76	180 – 874	74	2655	5853	2290 × 1327 × 2039

Capacity is free air delivered at the stated pressure. A range in the capacity column is a variable speed machine's minimum and full output; a range in the pressure column is the span the machine is offered across. Imperial figures are converted from the metric values and rounded.

160 TO 250 KW

Two-stage machines, GAC-FC and GAC-FCV, alongside the single-stage GAC-S and GAC-SV at the same ratings. Two stages of compression do the same work in smaller steps, which is why they deliver more air for the same motor.

Model	Drive	Motor		Pressure		Capacity		Noise	Weight		Dimensions
		kW	hp	bar g	psi g	m³/min	cfm	dB(A)	kg	lb	L × W × H mm
GAC-FC 160	Fixed	160	215	7.5	109	33.67	1189	75	4542	10013	2907 × 2071 × 2193
GAC-FC 160	Fixed	160	215	10	145	29.14	1029	75	4542	10013	2907 × 2071 × 2193
GAC-FC 200	Fixed	200	268	7.5	109	40.09	1416	76	4765	10505	2907 × 2071 × 2193
GAC-FC 200	Fixed	200	268	10	145	35.64	1259	76	4765	10505	2907 × 2071 × 2193
GAC-FC 250	Fixed	250	335	7.5	109	42.62	1505	77	4975	10968	2907 × 2071 × 2193
GAC-FC 250	Fixed	250	335	10	145	38.69	1366	77	4975	10968	2907 × 2071 × 2193
GAC-FC 290	Fixed	250	335	7.5	109	47.84	1689	78	5000	11023	2907 × 2071 × 2193
GAC-FC 290	Fixed	250	335	10	145	45.08	1592	78	5000	11023	2907 × 2071 × 2193
GAC-FCV 160	Variable	160	215	5 – 10	73 – 145	9.61 – 32.07	339 – 1133	74	4783	10545	2907 × 2071 × 2193
GAC-FCV 200	Variable	200	268	5 – 10	73 – 145	9.37 – 39.14	331 – 1382	76	5083	11206	2907 × 2071 × 2193
GAC-FCV 250	Variable	250	335	5 – 10	73 – 145	9.37 – 42.97	331 – 1517	77	5253	11581	2907 × 2071 × 2193
GAC-FCV 290	Variable	250	335	5 – 10	73 – 145	9.37 – 47.98	331 – 1694	78	5268	11614	2907 × 2071 × 2193
GAC-S 160	Fixed	160	215	7.5	109	32.04	1131	76	4186	9228	2949 × 2111 × 2193
GAC-S 160	Fixed	160	215	10	145	28.20	996	76	4186	9228	2949 × 2111 × 2193
GAC-S 160	Fixed	160	215	13	189	23.91	844	76	4186	9228	2949 × 2111 × 2193
GAC-S 200	Fixed	200	268	7.5	109	39.23	1385	77	4415	9733	2949 × 2111 × 2193
GAC-S 200	Fixed	200	268	10	145	34.85	1231	77	4415	9733	2949 × 2111 × 2193
GAC-S 200	Fixed	200	268	13	189	29.38	1038	77	4415	9733	2949 × 2111 × 2193
GAC-S 250	Fixed	250	335	7.5	109	42.03	1484	78	4625	10196	2949 × 2111 × 2193
GAC-S 250	Fixed	250	335	10	145	37.01	1307	78	4625	10196	2949 × 2111 × 2193
GAC-S 250	Fixed	250	335	13	189	32.64	1153	78	4625	10196	2949 × 2111 × 2193
GAC-S 290	Fixed	250	335	7.5	109	47.10	1663	79	4650	10251	2949 × 2111 × 2193
GAC-S 290	Fixed	250	335	10	145	41.53	1467	79	4650	10251	2949 × 2111 × 2193
GAC-S 290	Fixed	250	335	13	189	36.44	1287	79	4650	10251	2949 × 2111 × 2193
GAC-SV 160	Variable	160	215	5 – 13	73 – 189	6.54 – 32.33	231 – 1142	75	4378	9652	2949 × 2111 × 2193
GAC-SV 200	Variable	200	268	5 – 13	73 – 189	5.99 – 39.44	212 – 1393	77	4573	10082	2949 × 2111 × 2193
GAC-SV 250	Variable	250	335	5 – 13	73 – 189	5.83 – 42.80	206 – 1511	78	4669	10293	2949 × 2111 × 2193
GAC-SV 290	Variable	250	335	5 – 13	73 – 189	5.87 – 47.02	207 – 1660	79	4684	10326	2949 × 2111 × 2193

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**GREEN AIR
COMPRESSOR**

WE WOULD RATHER MEASURE THAN GUESS

There are fifty-eight machines in this document and the only way to pick the right one is to know what the plant actually draws. Give us a week with a logger on your existing compressor and you get back a profile: what you use, when you use it, what pressure you really need at the far end, and which of these machines fits it — including the cases where the answer is two smaller machines, or the fixed speed one. The survey costs nothing and carries no obligation, and you keep the profile whoever you buy from.

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