

CHAMPION

by Gardner Denver

Piston Compressors

Polar Series
Sunny Series



Smart and affordable

Piston compressors: reliable, strong, suitable for professional uses

Our company has always been associated with long-lasting high-quality products.

This range of piston compressors includes:

- Single-cylinder single-stage with direct transmission for small power outputs suitable for semi-professional uses
- Two-cylinder, single-stage with belt transmission for use in workshops
- Two-cylinder, two-stage with belt transmission for industrial use

Choosing the two-stage model will guarantee lower working temperatures thanks to a cooling manifold between the first and the second compression stage and consequently a higher air delivery. This is achieved by dividing the compression phase into two stages (two cylinders with different volumes).

Other important characteristics that distinguish this range of compressors are:

- Low number of rounds of the pumping unit
- Low noise level
- Correct ratio between the size of the unit, motor power and tank capacity

The series of piston compressors includes a vast range of solutions:



SUNNY: Compressors from 1.5 to 7.5 kW on tank and silent version. This range includes models for non-heavy duty use.



POLAR: Compressors from 1.5 to 7.5 kW on tank and silent version. This range satisfies the needs of the most demanding end users and differing applications and industries.



Champion: the technical reference

- Cast iron cylinders
- Equipped with pressure regulator
- Motors equipped with thermal protection
- Versions with direct or star/delta start
- Compressor self-ventilated by a fan keyed onto the drive shaft
- Efficient air filter
- Low working temperature for better durability
- Low noise level
- Filled with CLS2000 synthetic oil which improves performances and overall reliability

Champion: the reliability of authentic pistons

Oversized cylinder for better heat exchange

Profiled deflector for perfectly directing the flow of ventilating air towards the cylinder

Interstage safety valve for optimum protection

High-performance air filter with quick and easy replacement

Pistons with a large stroke and efficient piston rings for superior performance and extremely low oil consumption

Authentic connecting rods and crankshaft

Grooved pulley coupled to the cooling fan, directly connected to the drive shaft

Oil level indicator on the front for easy and immediate reading

Interstage connection ensuring perfect cooling of the air between the two compression stages.

Extremely accessible drainage point for rapid and easy drainage

All our compressors are equipped with authentic high-quality pistons for a longer working life and better performance.



OIL FREE: A small model for particular uses, guarantees air free from impurities. Made entirely of die-cast aluminum with valves in special stainless steel.



LUBRICATED COMPRESSORS: Pumping units with a cast-iron cylinder, provide excellent wear resistance guaranteeing a long working life and very high reliability. They are suitable for heavy-duty use and are an ideal work tool for professionals and craftsmen. Some vertical models are also available for applications requiring a small footprint.



SILENT COMPRESSORS: have been developed to satisfy market demand for compressors that are silent, reliable, economic and easy to maintain. This new series has been designed to provide the user with a highly reliable product and an excellent price/quality ratio. They are available on a base or on a tank and with an integrated drier



Principal characteristics:

- High noise reduction
- Forced ventilation
- Integrated control panel (if star-delta start, with electronic board)
- Pumping unit with cast-iron cylinder for a long working life
- Finned manifold for air cooling
- Silencer on suction
- Belt-stretching slide for easy adjustment of tension
- Full accessibility of mechanical parts
- Versions on tank with two fixed rear wheels, two front swivel wheels and a convenient handle for easy transport



Technical data

Coaxial piston compressors Single phase polar series



Series	Model	Code	FAD ¹⁾ Max		stage	n° pistons	Motor Power		Speed	Pressure	Tank	Weight & Sizes			
			m ³ /min	cfm			HP	KW				rpm	bar	litres	kg
Polar	OF-6-15	CC1141995	0.160	2.66	1	1	1.5	1.1	2450	8	6	10	330	117	450
	G-24-2	CC1142145	0.140	4.95	1	1	2	1.5	2850	8	24	24	610	310	580
	G-50-2	CC1142155	0.140	4.95	1	1	2	1.5	2850	8	50	32	770	430	660
	G-50-25	CC1142156	0.250	8.84	1	1	2.5	1.8	2850	8	50	49	940	320	700
	F-50-3	CC1142157	0.320	11.31	1	2	3	2.2	2500	8	50	25	800	420	700
	V-20-25	CC1142153	0.290	10.25	1	2	2.5	1.8	1420	10	20	45	520	430	790
	VS-20-25	CC1142154	0.240	8.49	1	2	2.5	1.8	1420	10	20	45	520	430	790
	V-20-3	CC1142146	0.420	14.85	1	2	3	2.2	2850	10	20	45	520	430	790
	V-50-25	CC1142160	0.290	10.25	1	2	2.5	1.8	1420	10	50	60	1070	320	780
V-50-3	CC1142159	0.420	14.85	1	2	3	2.2	2850	10	50	62	1070	320	780	

Belt driven piston compressors Single phase polar series



Series	Model	Code	FAD ¹⁾ Max		stage	n° pistons	Motor Power		Speed	Pressure	Tank	Weight & Sizes			
			m ³ /min	cfm			HP	KW				rpm	bar	litres	kg
Polar	MA-50-3	CC1142164	0.350	12.37	1	2	3	2.2	1300	10	50	50	1010	360	730
	MA-90-3	CC1142165	0.370	130.8	1	2	3	2.2	1000	10	90	85	1000	400	830
	MA-100-2	CC1142169	0.290	10.25	1	2	2	1.5	1240	10	100	80	1100	400	830
	MA-100-3	CC1142170	0.350	12.37	1	2	3	2.2	1300	10	100	80	1100	400	830
	MA-150-3	CC114217	0.350	12.37	1	2	3	2.2	1300	10	150	90	1360	540	1060
	MA-200-3	CC1142176	0.350	12.37	1	2	3	2.2	1300	10	200	102	1460	640	1140



Belt driven piston compressors Three phases polar series

Series	Model	Code	FAD ⁰ Max		stage	n° pistons	Motor Power		Speed rpm	Pressure bar	Tank litres	Weight & Sizes			
			m ³ /min	cfm			HP	KW				kg	A	B	C
Polar	TA-90-4	CC1142167	0.520	18.38	1	2	4	3	1300	10	90	85	1000	400	840
	TA-90-55	CC114216	0.650	22.97	1	2	5.5	4	1000	10	90	90	1000	400	830
	TA-150-55	CC1142172	0.590	20.85	2	2	5.5	4	1250	10	150	100	1360	540	1110
	TA-150-75	CC1142174	0.840	29.69	2	2	7.5	5.5	1280	10	150	105	1360	540	1060
	TA-200-3	CC1142177	0.350	12.37	1	2	3	2.2	1300	10	200	102	1460	640	1140
	TA-200-4	CC1142178	0.520	18.38	1	2	4	3	1300	10	200	115	1460	640	1140
	TA-270-55	CC1142179	0.590	20.85	2	2	5.5	4	1250	10	270	175	1600	560	1040
	TA-270-75	CC1142180	0.840	29.69	2	2	7.5	5.5	1280	10	270	180	1600	560	1040
	STA-270-75	CC1142181	0.840	29.69	2	2	7.5	5.5	1280	10	270	180	1600	560	1040
	TA-270-10	CC1142182	0.920	32.51	2	2	10	7.5	1100	10	270	185	1600	560	1040
	STA-270-10	CC1142183	0.920	32.51	2	2	10	7.5	1100	10	270	253	1600	560	1040
	TA-500-75	CC1142185	0.840	29.69	2	2	7.5	5.5	1280	10	500	260	1970	590	1280
	STA-500-75	CC1142186	0.840	29.69	2	2	7.5	5.5	1280	10	500	260	1970	590	1280
	TA-500-10	CC1142187	0.920	32.51	2	2	10	7.5	1100	10	500	260	1970	590	1280
	STA-500-10	CC1142188	0.920	32.51	2	2	10	7.5	1100	10	500	270	1970	590	1300
	TVB-270-55	CC1142189	0.590	20.85	2	2	5.5	4	1250	10	270	120	670	-	1850
	TVS-270-55	CC1142190	0.650	22.97	1	2	5.5	4	1000	10	270	155	670	-	1850
	TVB-270-75	CC1142191	0.840	29.69	2	2	7.5	5.5	1280	10	270	160	670	-	1850
	TVG-270-4	CC1142192	0.470	16.61	2	2	4	3	1000	10	270	125	670	-	1850
	TVG-270-55	CC1142193	0.510	18.03	1	2	5.5	4	780	10	270	160	670	-	1850
LTA-500-55	CC1142194	0.640	22.62	2	2	5.5	4	100	10	500	250	1050	460	660	
LTA-500-75	CC1142195	0.780	27.57	2	2	7.5	5.5	920	10	500	275	1050	460	660	
LSA-500-75	CC1142196	0.780	27.57	2	2	7.5	5.5	920	10	500	275	1050	460	660	
LSA-500-10	CC1142197	1.050	37.11	2	2	10	7.5	1080	10	500	270	1050	460	660	

Silent piston compressors polar series



Series	Model	Code	FAD ⁰ Max		stage	n° pistons	Motor Power		Speed rpm	Pressure bar	db(A)	Volt/ph/HZ	Weight & Sizes			
			m ³ /min	cfm			HP	KW					kg	A	B	C
Polar	S-55	CC1142199	0.590	20.85	2	2	5.5	4	1250	10	69	400/3/50	160	837	592	735
	S-55-12	CC1142200	0.540	19.09	2	2	5.5	4	1130	12	69		170	837	592	735
	S-75	CC1142202	0.780	27.57	2	2	7.5	5.5	980	10	66		187	837	592	735
	S-75-12	CC1142203	0.680	24.03	2	2	7.5	5.5	800	12	66		170	837	592	735
	STS-75	CC1142204	0.780	27.57	2	2	7.5	5.5	980	10	66		190	837	592	735
	STS-75-12	CC1142205	0.680	24.03	2	2	7.5	5.5	800	12	66		190	837	592	735
	S-10	CC1142206	1.060	37.45	2	2	10	7.5	1100	10	68		190	837	592	735
	S-10-12	CC1142208	0.850	30.04	2	2	10	7.5	800	12	68		190	837	592	735
	STS-10	CC1142215	1.060	37.45	2	2	10	7.5	1100	10	68		190	837	592	735
	STS-10-12	CC1142216	1.050	37.11	2	2	10	7.5	800	12	69		190	837	592	735

Silent piston compressors on tank polar series



Series	Model	Code	FAD ⁰ Max		stage	n° pistons	Motor Power		Speed rpm	Pressure bar	Tank litres	db(A)	Volt/ph/HZ	Weight & Sizes			
			m ³ /min	cfm			HP	KW						kg	A	B	C
Polar	SIL-24-25	CC1142198	0.250	8.84	1	1	2.5	1.8	2850	10	24	64	230/1/50	87	940	850	490
	S-270-4	CC1142217	0.530	18.73	2	2	4	3	1115	10	270	68		190	1440	592	1100
	SD-270-4	CC1142220	0.530	18.73	2	2	4	3	1115	10	270	68		215	1440	592	1100
	S-500-55	CC1142221	0.590	20.85	2	2	5.5	4	1250	10	500	69		280	1440	592	1220
	SD-500-55	CC1142222	0.590	20.85	2	2	5.5	4	1250	10	500	69		305	1440	592	1220
	S-500-75	CC1142223	0.780	27.57	2	2	7.5	5.5	980	10	500	66		298	1440	592	1220
	SD-500-75	CC1142224	0.780	27.57	2	2	7.5	5.5	980	10	500	66		322	1440	592	1220
	STS-500-75	CC1142225	0.780	27.57	2	2	7.5	5.5	980	10	500	66		298	1440	592	1220
	STSD-500-75	CC1142226	0.780	27.57	2	2	7.5	5.5	980	10	500	66		322	1440	592	1220
	S-500-10	CC1142227	0.920	32.51	2	2	10	7.5	1100	10	500	68		298	1440	592	1220
	SD-500-10	CC1142228	0.920	32.51	2	2	10	7.5	1100	10	500	68		322	1440	592	1220
	STS-500-10	CC1142229	0.920	32.51	2	2	10	7.5	1100	10	500	68		298	1440	592	1220
	STSD-500-10	CC1142230	0.920	32.51	2	2	10	7.5	1100	10	500	68		322	1440	592	1220

TA - TAS = Direct starting
STA = Star/Delta starting
TAR = Tank with 4 wheels

TVB - TVS = Vertical tank
TVG = Vertical tank galvanized

LTA = Low rpm direct starting
LSA = Low rpm delta/star starting

Coaxial piston compressors

Single phase sunny series



Series	Model	Code	FAD ⁰ Max				Motor Power		Speed	Pressure	Tank	Weight & Sizes				
			m ³ /min	cfm	stage	n° pistons	HP	KW				rpm	bar	litres	kg	A
Sunny	G-24-2	CC1142145	0.140	4.95	1	1	2	1.5	2850	8	24	24	610	310	580	
	G-50-2	CC1142155	0.140	4.95	1	1	2	1.5	2850	8	50	32	770	430	660	

Belt driven piston compressors

Single phase sunny series



Series	Model	Code	FAD ⁰ Max				Motor Power		Speed	Pressure	Tank	Weight & Sizes				
			m ³ /min	cfm	stage	n° pistons	HP	KW				rpm	bar	litres	kg	A
Sunny	MA-50-2	CC1142272	0.290	10.25	1	2	2	1.5	1240	10	50	50	1010	360	730	
	MA-100-2	CC1142169	0.290	10.25	1	2	2	1.5	1240	10	100	80	1100	400	830	
	MA-150-2	CC1142231	0.290	10.25	1	2	2	1.5	1240	10	150	85	1360	540	1060	
	MAS-200-3	CC1142712	0.350	12.37	1	2	3	2.2	1500	10	200	98	1460	640	1140	
	MA-270-3	CC1142232	0.350	12.37	1	2	3	2.2	1300	10	270	175	1600	560	1040	

Belt driven piston compressors

Three phases sunny series



Series	Model	Code	FAD ⁰ Max				Motor Power		Speed	Pressure	Tank	Weight & Sizes				
			m ³ /min	cfm	stage	n° pistons	HP	KW				rpm	bar	litres	kg	A
Sunny	TAS-200-3	CC1142713	0.350	12.37	1	2	3	2.2	1500	10	200	98	1460	640	1140	
	TA-270-4	CC1142233	0.410	14.49	1	2	4	3	1500	10	270	175	1600	560	1040	
	TAS-270-55	CC1142234	0.590	20.85	2	2	5.5	4	1480	10	270	175	1600	560	1040	
	TA-270-55	CC1142179	0.590	20.85	2	2	5.5	4	1250	10	270	185	1600	560	1040	
	TA-500-55	CC1142237	0.590	20.85	2	2	5.5	4	1250	10	500	205	1970	590	1280	
	TAS-500-75	CC1142238	0.630	22.72	2	2	7.5	5.5	1335	10	500	250	1970	590	1280	
	TAR-500-75	CC1142239	0.630	22.72	2	2	7.5	5.5	1335	10	500	253	1970	590	1280	
	TA-500-10	CC1142187	0.920	32.51	2	2	10	7.5	110	10	500	260	1970	590	1280	

Silent piston compressors

sunny series



Series	Model	Code	FAD ⁰ Max				Motor Power		Speed	Pressure	db(A)	Volt/ph/HZ	Weight & Sizes				
			m ³ /min	cfm	stage	n° pistons	HP	KW					rpm	bar	litres	kg	A
Sunny	S-55	CC1142199	0.590	20.85	2	2	5.5	4	1250	10	69	400/3/50	160	837	592	735	
	S-55-12	CC1142200	0.540	19.09	2	2	5.5	4	1130	12	69		170	837	592	735	
	S-75	CC1142202	0.780	27.57	2	2	7.5	5.5	980	10	66		187	837	592	735	
	S-75-12	CC1142203	0.680	24.03	2	2	7.5	5.5	800	12	66		170	837	592	735	
	STS-75	CC1142204	0.780	27.57	2	2	7.5	5.5	980	10	66		190	837	592	735	
	STS-75-12	CC1142205	0.680	24.03	2	2	7.5	5.5	800	12	68		190	837	592	735	
	S-10	CC1142206	1.060	37.45	2	2	10	7.5	1100	10	68		190	837	592	735	
	S-10-12	CC1142208	0.850	30.04	2	2	10	7.5	800	12	68		190	837	592	735	
	STS-10	CC1142215	1.060	37.45	2	2	10	7.5	1100	10	68		190	837	592	735	
	STS-10-12	CC1142216	1.050	37.11	2	2	10	7.5	800	10	69		190	837	592	735	

Silent piston compressors on tank

sunny series



Series	Model	Code	FAD ⁰ Max				Motor Power		Speed	Pressure	Tank	db(A)	Volt/ph/HZ	Weight & Sizes				
			m ³ /min	cfm	stage	n° pistons	HP	KW						rpm	bar	litres	kg	A
Sunny	S-270-4	CC1142217	0.530	18.73	2	2	4	3	1115	10	270	68	400/3/50	190	1440	592	1100	
	SD-270-4	CC1142220	0.530	18.73	2	2	4	3	1115	10	270	68		215	1440	592	1100	
	S-500-55	CC1142221	0.590	20.85	2	2	5.5	4	1250	10	500	69		280	1440	592	1220	
	SD-500-55	CC1142222	0.590	20.85	2	2	5.5	4	1250	10	500	69		305	1440	592	1220	
	S-500-75	CC1142223	0.780	27.57	2	2	7.5	5.5	980	10	500	66		298	1440	592	1220	
	SD-500-75	CC1142224	0.780	27.57	2	2	7.5	5.5	980	10	500	66		322	1440	592	1220	
	STS-500-75	CC1142225	0.780	27.57	2	2	7.5	5.5	980	10	500	66		298	1440	592	1220	
	STSD-500-75	CC1142226	0.780	27.57	2	2	7.5	5.5	980	10	500	66		322	1440	592	1220	
	S-500-10	CC1142227	0.920	32.51	2	2	10	7.5	1100	10	500	68		298	1440	592	1220	
	SD-500-10	CC1142228	0.920	32.51	2	2	10	7.5	1100	10	500	68		322	1440	592	1220	
	STS-500-10	CC1142229	0.920	32.51	2	2	10	7.5	1100	10	500	68		298	1440	592	1220	
	STSD-500-10	CC1142230	0.920	32.51	2	2	10	7.5	1100	10	500	68		322	1440	592	1220	



by Gardner Denver

Smart and affordable

Champions piston compressor range is designed to cover all the possible professional uses of compressed air. Our piston compressors in various forms and sizes, provide a truly complete range of choice.



Champion stationary rotary screw compressors, both fixed and variable speed drive, are the answer to the needs of industry and of small/medium-sized companies.

The complete range is designed for continuous operation under the most severe conditions of use, with particular attention to modularity, energy consumption, low operating and maintenance costs, and ease of installation and use.



A modern production system and process demands increased levels of air quality. Our complete **Air Treatment Range** ensures product quality and efficient operation.



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For additional information please contact your local representative.

Specifications subject to change without notice.