

**BAC** COMPRESSOR  
SINCE 1980

Over 35 Years of Engineering Excellence

PERFECTLY PRESSURISED ENERGY EFFICIENT SMOOTH & SILENT

**SCREW COMPRESSORS**

**HEAD OFFICE**  
**BAKGIYAM ENGINEERING PVT LTD.**  
2nd Floor, 24, Tex Park Road, Nehru Nagar West,  
Civil Aerodrome Post, Coimbatore - 641 014.  
+91 422 2971901, 2971902  
+91 9443316946  
sales@bac-compressors.com  
www.bac-compressors.com

- Head Office  
- Dealers

## COMPANY PROFILE

BAC Compressors is one of the Leading air compressor manufacturers in India and have always remained a loyal brand to its customers for over three decades.

"Every Industry deserves to be equipped with the best compressed air solutions in the world" to efficiently improve their productivity. BAC compressors used that opportunity and have come a long way by accomplishing the customer's needs. All our customers tag BAC Compressors as trusted brand to satisfy their Compressed air needs.

BAC compressors was entrenched in the year 1979 by the duo Mr. Radhakrishnan & Mr. Sudhakaran, with a focused mission to offer Reciprocating Air & Borewell Compressors for industrial & agricultural purposes. Consistently with lots of efforts and challenges, today BAC compressors has a strong presence with a formidable portfolio in both reciprocating and rotary screw compressors.

Our happy customers are widespread and have a strong patronage over our Products; BAC Compressors have empowered various industries and have also touched people's lives as compressed air solution providers. Be it the tyres of your vehicles or the paint you see on aesthetic products or be it in the medicines you carry, somewhere or the other BAC compressors have run to wholly fulfill the Industrial needs.

BAC compressors have worked effectively under non-standard pressure and extreme ambient conditions. Our market is wide spread across India and Srilanka through distributors and dealer network who work tirelessly in providing the best customer satisfaction experience.

**“Today BAC has a strong presence across India & Srilanka with a formidable portfolio in both Reciprocating and Rotary screw compressors...”**

## BAC COMPRESSORS

## BAC COMPRESSORS

## VFD SCREW AIR COMPRESSOR



SOFT START DESIGN  
LOW NOISE  
ENERGY EFFICIENT

MODEL	POWER		PRESSURE	DISPLACEMENT		STARTING MODE	OUTLET PIPE DIA	NOISE	WEIGHT	DIMENSIONS		
	KW	HP		cfm	m <sup>3</sup> /min					Inches	dBA	Kg
BAC-SVFD-7.5	5.5	7.5	7	32.5	0.92	FREQUENCY	3/4	64±2	195	840	600	880
BAC-SVFD-7.5	5.5	7.5	8	28.9	0.82	FREQUENCY	3/4	64±2	195	840	600	880
BAC-SVFD-7.5	5.5	7.5	10	25.1	0.71	FREQUENCY	3/4	64±2	195	840	600	880
BAC-SVFD-10	7.5	10	7	45.9	1.3	FREQUENCY	3/4	64±2	215	840	600	880
BAC-SVFD-10	7.5	10	8	42.4	1.2	FREQUENCY	3/4	64±2	215	840	600	880
BAC-SVFD-10	7.5	10	10	34.2	0.97	FREQUENCY	3/4	64±2	215	840	600	880
BAC-SVFD-15	11	15	7	60.0	1.7	FREQUENCY	3/4	64±2	260	910	700	1000
BAC-SVFD-15	11	15	8	55.8	1.58	FREQUENCY	3/4	64±2	260	910	700	1000
BAC-SVFD-15	11	15	10	48.0	1.36	FREQUENCY	3/4	64±2	260	910	700	1000
BAC-SVFD-20	15	20	7	91.8	2.6	FREQUENCY	3/4	64±2	270	910	700	1000
BAC-SVFD-20	15	20	8	81.2	2.3	FREQUENCY	3/4	64±2	270	910	700	1000
BAC-SVFD-20	15	20	10	65.7	1.86	FREQUENCY	3/4	64±2	270	910	700	1000
BAC-SVFD-25	18.5	25	7	116.5	3.3	FREQUENCY	3/4	68±2	385	1000	750	1090
BAC-SVFD-25	18.5	25	8	108.4	3.07	FREQUENCY	11/4	68±2	385	1000	750	1090
BAC-SVFD-25	18.5	25	10	91.8	2.6	FREQUENCY	11/4	68±2	385	1000	750	1090
BAC-SVFD-30	22	30	7	130.7	3.7	FREQUENCY	11/4	68±2	405	1000	750	1090
BAC-SVFD-30	22	30	8	128.5	3.64	FREQUENCY	11/4	68±2	405	1000	750	1090
BAC-SVFD-30	22	30	10	111.2	3.15	FREQUENCY	11/4	68±2	405	1000	750	1090
BAC-SVFD-40	30	40	7	187.2	5.3	FREQUENCY	11/4	68±2	410	1000	750	1090
BAC-SVFD-40	30	40	8	183.6	5.2	FREQUENCY	11/4	68±2	410	1000	750	1090
BAC-SVFD-40	30	40	10	163.5	4.63	FREQUENCY	11/4	68±2	410	1000	750	1090
BAC-SVFD-50	37	50	7	236.6	6.7	FREQUENCY	11/4	70±2	650	1150	950	1350
BAC-SVFD-50	37	50	8	225.3	6.38	FREQUENCY	11/2	70±2	650	1150	950	1350
BAC-SVFD-50	37	50	10	209.0	5.92	FREQUENCY	11/2	70±2	650	1150	950	1350
BAC-SVFD-60	45	60	7	264.8	7.5	FREQUENCY	11/2	70±2	670	1150	950	1350
BAC-SVFD-60	45	60	8	256.0	7.25	FREQUENCY	11/2	70±2	670	1150	950	1350
BAC-SVFD-60	45	60	10	233.0	6.6	FREQUENCY	11/2	70±2	670	1150	950	1350
BAC-SVFD-75	55	75	7	377	10.67	FREQUENCY	G2*	72±2	1350	1570	1200	1500
BAC-SVFD-75	55	75	8	352	9.98	FREQUENCY	G2*	72±2	1350	1570	1200	1500
BAC-SVFD-75	55	75	10	309	8.75	FREQUENCY	G2*	72±2	1350	1570	1200	1500
BAC-SVFD-100	100	100	7	484	13.71	FREQUENCY	G2*	72±2	1350	1570	1200	1500
BAC-SVFD-100	100	100	8	452	12.81	FREQUENCY	G2*	72±2	1350	1570	1200	1500
BAC-SVFD-100	100	100	10	397	11.24	FREQUENCY	G2*	72±2	1350	1570	1200	1500

NOTE:

- Free air delivery is tested as per ISO 1217:2009 or IS 10431:1994.
- All models are direct drive and air-cooled.
- Due to continuous improvements, the specifications are subjected to change without prior notice.
- Product images displayed in this brochure are representative and may not exactly match the actual product.

## PERFORMANCE CHART

### DIRECT DRIVEN SCREW AIR COMPRESSOR



### BAC COMPRESSORS

BAC direct driven compressor has been designed for heavy duty applications and features low speed air end operation, higher lifetime of components, rigid piping and higher cfm/hp.

The air end consist of a single piece shaft which has male rotor profile on one end and rotor stamping on the other end. This eliminates the need for a belt, coupling, gears and motor bearings. Due to this it is 5% more efficient than a belt drive and lower component used than a coupling or gear drive which in turn reduces your maintenance cost.

HIGH EFFICIENCY  
ENERGY SAVING  
LOW MAINTANCE

MODEL	POWER		PRESSURE Bar	DISPLACEMENT cfm		STARTING MODE	OUTLET PIPE DIA Inches	NOISE dBA	WEIGHT kg	DIMENSIONS		
	KW	HP		cfm	m <sup>3</sup> /min					L	B	H
BAC-SD-7.5	5.5	7.5	7	31.8	0.9	DIRECT	3/4	64±2	185	840	600	880
BAC-SD-7.5	5.5	7.5	8	28.2	0.8	DIRECT	3/4	64±2	185	840	600	880
BAC-SD-7.5	5.5	7.5	10	24.4	0.69	DIRECT	3/4	64±2	185	840	600	880
BAC-SD-10	7.5	10	7	42.4	1.2	Y-Δ	3/4	64±2	205	840	600	880
BAC-SD-10	7.5	10	8	38.8	1.1	Y-Δ	3/4	64±2	205	840	600	880
BAC-SD-10	7.5	10	10	33.5	0.95	Y-Δ	3/4	64±2	205	840	600	880
BAC-SD-15	11	15	7	58.3	1.65	Y-Δ	3/4	64±2	245	910	700	1000
BAC-SD-15	11	15	8	54.0	1.53	Y-Δ	3/4	64±2	245	910	700	1000
BAC-SD-15	11	15	10	46.6	1.32	Y-Δ	3/4	64±2	245	910	700	1000
BAC-SD-20	15	20	7	90.0	2.55	Y-Δ	3/4	64±2	255	910	700	1000
BAC-SD-20	15	20	8	79.4	2.25	Y-Δ	3/4	64±2	255	910	700	1000
BAC-SD-20	15	20	10	64.3	1.82	Y-Δ	3/4	64±2	255	910	700	1000
BAC-SD-25	18.5	25	7	113.7	3.22	Y-Δ	11/4	68±2	370	1000	750	1000
BAC-SD-25	18.5	25	8	106.3	3.01	Y-Δ	11/4	68±2	370	1000	750	1000
BAC-SD-25	18.5	25	10	89.0	2.52	Y-Δ	11/4	68±2	370	1000	750	1000
BAC-SD-30	22	30	7	127.1	3.6	Y-Δ	11/4	68±2	390	1000	750	1000
BAC-SD-30	22	30	8	125.7	3.56	Y-Δ	11/4	68±2	390	1000	750	1000
BAC-SD-30	22	30	10	108.4	3.07	Y-Δ	11/4	68±2	390	1000	750	1000
BAC-SD-40	30	40	7	183.6	5.2	Y-Δ	11/4	68±2	395	1000	750	1000
BAC-SD-40	30	40	8	178.7	5.06	Y-Δ	11/4	68±2	395	1000	750	1000
BAC-SD-40	30	40	10	160.0	4.53	Y-Δ	11/4	68±2	395	1000	750	1000
BAC-SD-50	37	50	7	232.4	6.58	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-50	37	50	8	221.1	6.26	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-50	37	50	10	204.8	5.8	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-60	45	60	7	259.9	7.36	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-60	45	60	8	250.7	7.1	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-60	45	60	10	228.5	6.47	Y-Δ	11/2	70±2	630	1150	950	1090
BAC-SD-75	55	75	7	377	10.67	Y-Δ	G2"	72±2	1350	1570	1200	1500
BAC-SD-75	55	75	8	352	9.98	Y-Δ	G2"	72±2	1350	1570	1200	1500
BAC-SD-75	55	75	10	309	8.75	Y-Δ	G2"	72±2	1350	1570	1200	1500
BAC-SD-100	100	100	7	484	13.71	Y-Δ	G2"	72±2	1350	1570	1200	1500
BAC-SD-100	100	100	8	452	12.81	Y-Δ	G2"	72±2	1350	1570	1200	1500
BAC-SD-100	100	100	10	397	11.24	Y-Δ	G2"	72±2	1350	1570	1200	1500

#### NOTE:

- Free air delivery is tested as per ISO 1217:2009 or IS 10431:1994.
- All models are direct drive and air-cooled.
- Due to continuous improvements, the specifications are subjected to change without prior notice.
- Product images displayed in this brochure are representative and may not exactly match the actual product.

### PERMANENT MAGNET MOTOR



SAVING MORE  
COST FOR YOU >>

### BAC COMPRESSORS

### BAC COMPRESSORS



### OUR INFRASTRUCTURE

We started off with a production capacity of 300

compressors per annum in the year 1980. Today BAC compressor has attained stratospheric heights with a production capacity of 8000 compressors per annum. Our asset lies in our team of skilled professionals who work constantly in R&D to improve the compressors energy efficiency and increase the life time of components.

BAC compressors are manufactured in its own Foundry Division and Machining Division which contains High pressure molding, Spectrometer, CNC machining and turning centers, CNC cmm and finish testers. All the testing is done in a controlled environment. Both the divisions are ISO 9001 & 14001 certified from TUV Rheinland, Germany. Our Assembly division carefully inspects all the incoming, in-process and final inspection and is equipped with line assemblies, nozzle flow testing and endurance testing. For flow testing we follow IS 10431:1994 and ISO 1217:2009. We work closely with some of the government accredited flow control institutes for improving our cfm/hp.

With such an infrastructure and in-house capabilities we carefully examine the end to end manufacturing process to bring the best reliable and energy efficient compressors to our customers.

Our  
**SUPERIOR COMPRESSION**  
of air along with  
**LEGENDARY RELIABILITY**  
leads to  
**PROVEN PRODUCTIVITY**



**AIR END >>**

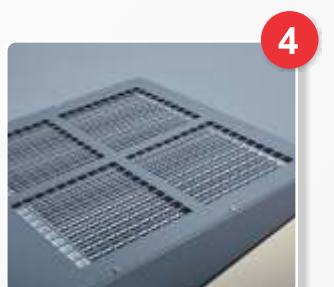
Male Rotor profile on one end and rotor stampings on other end. This eliminates the use of belts, couplings, gears and Motor bearings. When compared with belt drive it is 5% more efficient and when compared with a coupling or a gear drive it has lower components and this translates to lower maintenance cost.

**LOWER RUNNING SPEED >>**

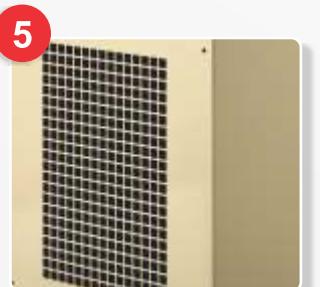
All BAC compressors run <3000rpm which is much lower compared to our competitors. Large air-ends with lower running speed are more efficient than smaller air ends with higher running speeds because they supply more air for the same drive power. This results in higher bearing life, lower energy cost and reduces wear & tear on all the components.

**RIGID PIPING >>**

BAC compressors use only seamless rigid pipes allowing a smooth flow of air and oil. This also reduces the air leakages which in turn increases the compressor efficiency.

**COOLER >>**

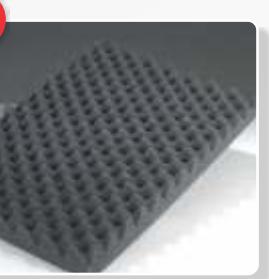
Bigger cooling surface area enhances the cooling of air and oil even at an ambient temperature of 55 °C. Smart programming allows cooling fan to start and stop at adjustable temperatures to minimize the energy cost of the motor. All BAC compressor coolers are positioned on top for natural flow of hot air.

**PRE FILTERS >>**

BAC compressors are equipped with pre-filter elements which prevents dust entry inside the canopy. This increases the suction filter element life and maintains the cleanliness inside the canopy.

**OUR DESIGN ADVANTAGES >>**

*BAC SD SERIES*

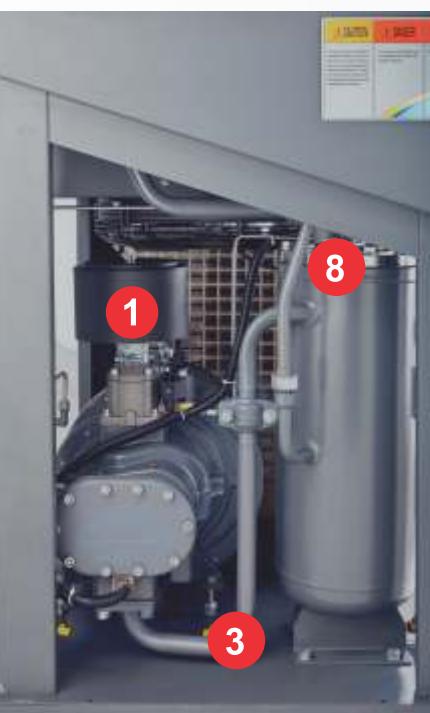
**LOWER NOISE >>**

Canopy doors are lined up with high grade foam to keep the compressors as quiet as possible.

**CONTROL PANEL >>**

Our control system ensures reliable operation and protects your investment by continually monitoring the operational parameters. Some of the features include,

- Discharge pressure and temperature.
- Total run hours and load hours.
- Service due for all consumables.
- Safety features like high temperature cut-off, Low/high voltage cut-off, Direction control cut-off, High ampere cut-off, two phase protection.
- Accurate fault log monitor. (history of faults and current fault)
- Cooler fan start/stop temperature setting.
- Continuous unload shut-down timer.

**LOWER OIL CARRY OVER >>**

(Less than 2ppm)  
Oil separation is done by an efficiently designed tank through oil separation by impact and centrifugal force (OSBIC). This design allows lower pressure drop and increased life of separator element.

**CANOPY >>**

Our ergonomically designed canopy and layout allows quick and easy access to service personal with magnetic doors that can be removed in seconds.

