

Dalgakiran's tailored Inversys Series Screw Compressors, the ideal choice for all kind of industry and applications. Every screw compressor model is equipped with an exclusive screw block, constructed with the strongest materials and each compressor ensure exceptional performance, efficiency and long lasting maintenance life.

COMMITTED TO EXCELLENCE

Dalgakiran started to build Rotary Screw Compressors in 1990's, and today offer the most complete range of all kind of screw compressors with proven quality in the means of years of exceptional experience and know-how.

With time proven quality, Dalgakiran Inversys Series Variable Speed Rotary Screw Compressors provide highly efficient solutions for many compressed air applications. Dalgakiran's Compressors are designed to supply long lasting years of efficiency and built to quality standards and suit every application needs.



TIME PROVEN DESIGN

Dalgakiran designed and introduced their first Rotary Screw Compressors in 1990's. Continuous improvements with the innovation in material, machining, assembling techniques with quality, Dalgakiran products are beyond your expectations.

USER FRIENDLY DESIGN

All Dalgakiran Compressor models are built for a broad range of applications, easy & minimum maintenance, have long maintenance intervals and low operating costs. All spare parts are easily available at all service centres across the world network of branches.

WORLDWIDE DISTRIBUTION

Dalgakiran Compressors offers the most reliable solutions for all kind of applications worldwide. Dalgakiran compressors are represented by subsidiary companies and authorised partners in over 50 countries.

quality in details



Oil-Injected Variable Speed
Rotary Screw Air Compressors
INVERSYS 18-275



INVERSYS 18-275 Variable Speed Rotary Screw Air Compressors

Dalgakiran Screw Compressors are designed to serve you trouble free, operation for long life time and each components are selected carefully in accordance with this purpose.

AIREND

High efficiency airends manufactured by one of the leading airend manufacturer in the world. Our airend design is based on new rotor profile and lobe combination, which is the result of long experience of screw compressor performance, new CAD Methods and utilization of modern production technology.

The new rotor profile with minimized "blow hole" reduces torque requirement, which means lower power consumption.

AIR INTAKE SYSTEM

Replaceable dry type paper filter element eliminate dusty ambient problem.

Piston controlled intake valve is chosen right size, which means high capacity and low power consumption.

AIR/ OIL SEPERATION

Effective design provides three stage separation.

Long life seperator elements reduce oil in compressed air less than 3 ppm.

Spin-on elements provides fast and easy seperator element replacement. (INVERSYS 18-37)

THERMOSTATIC VALVE

4 ways thermostatic valve provide trouble free operation in low ambient temperatures.



AIR / OIL AFTERCOOLER

Long life and trouble free operation with "Bar/Plate" Type aluminium combi-cooler. Coolers are selected to provide trouble free operations even in high ambient temperatures.

DRIVING SYSTEM

Belts are selected according to 25.000 operating hours. Pulleys with taper bush can be easily disassembled and assembled. Easy belt tensioning system provide trouble free operation.

CONTROL PANEL AND CUBICLE

Electronic LCD panel indicates any type of operational and service activites in the easiest way to make everybody understand perfectly. Different type of safety systems provides protection for any type of risks.

All electrical components in the cubicle are chosen from well known brands all over the world.

VIBRATION PAD

Special rubber vibration pads eliminates vibration and problems it may cause.

INVERSYS 18-275 Variable Speed Rotary Screw Air Compressors

COMPACT CANOPY DESIGN

- Compact machine design provides minimum working space.
- Demontable canopy doors provide easy maintenance and enables easy intervention for every point of the machine.
- Soundproof steel canopy is covered with flame proof, special material to provide low noise level.

STANDARD EQUIPMENTS

- Screw compressor
- 380 V/3 ph/50 Hz, IP 55 TEFV motor
- Direct drive system with belt pulley
- Demontable accoustic canopy
- Rigid steel base
- Glassfibre pre-filter
- Three micron dry type air inlet filter
- Air/oil seperator element with 3ppm efficiency and tank
- Ten micron full flow oil filter
- Minimum pressure valve
- Thermostatic valve
- Pressure relief valve
- Blowdown valve with silencer
- Star-delta cubicle
- PLC control panel



COOLING SYSTEM

- High efficiency combi "Bar/Plate" type air/oil aftercooler
- Cooling fan on seperate motor
- Factory filled up to 4000 hours oil

SAFETY SYSTEM

- Motor overload shutdown
- Fan motor overload shutdown
- Phase sequence shutdown
- PTC for main motor
- High airend discharge temperature shutdown
- High discharge pressure shutdown
- Change seperator element indicator
- Air filter change warning
- Pressure relief valve
- Emergency stop button

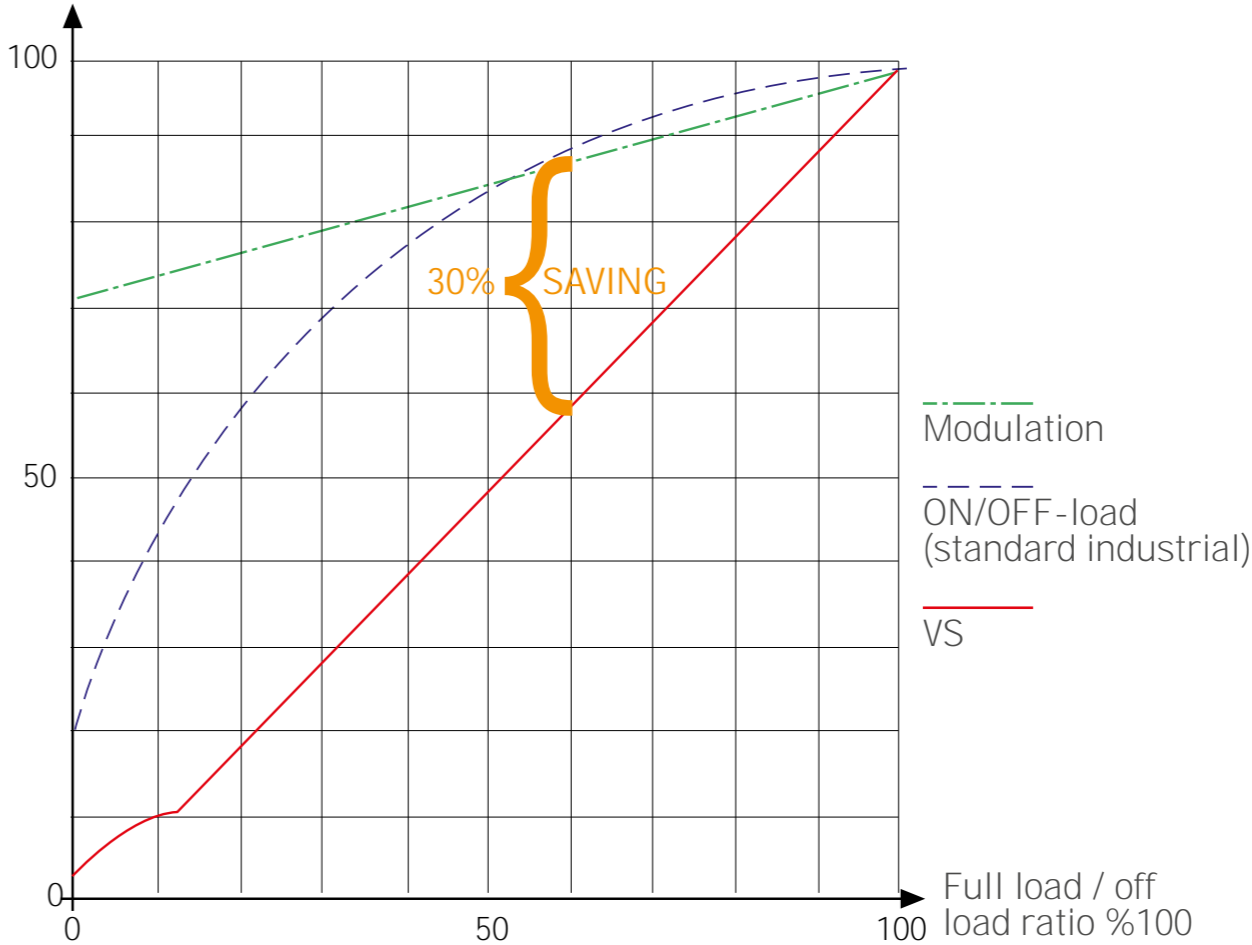
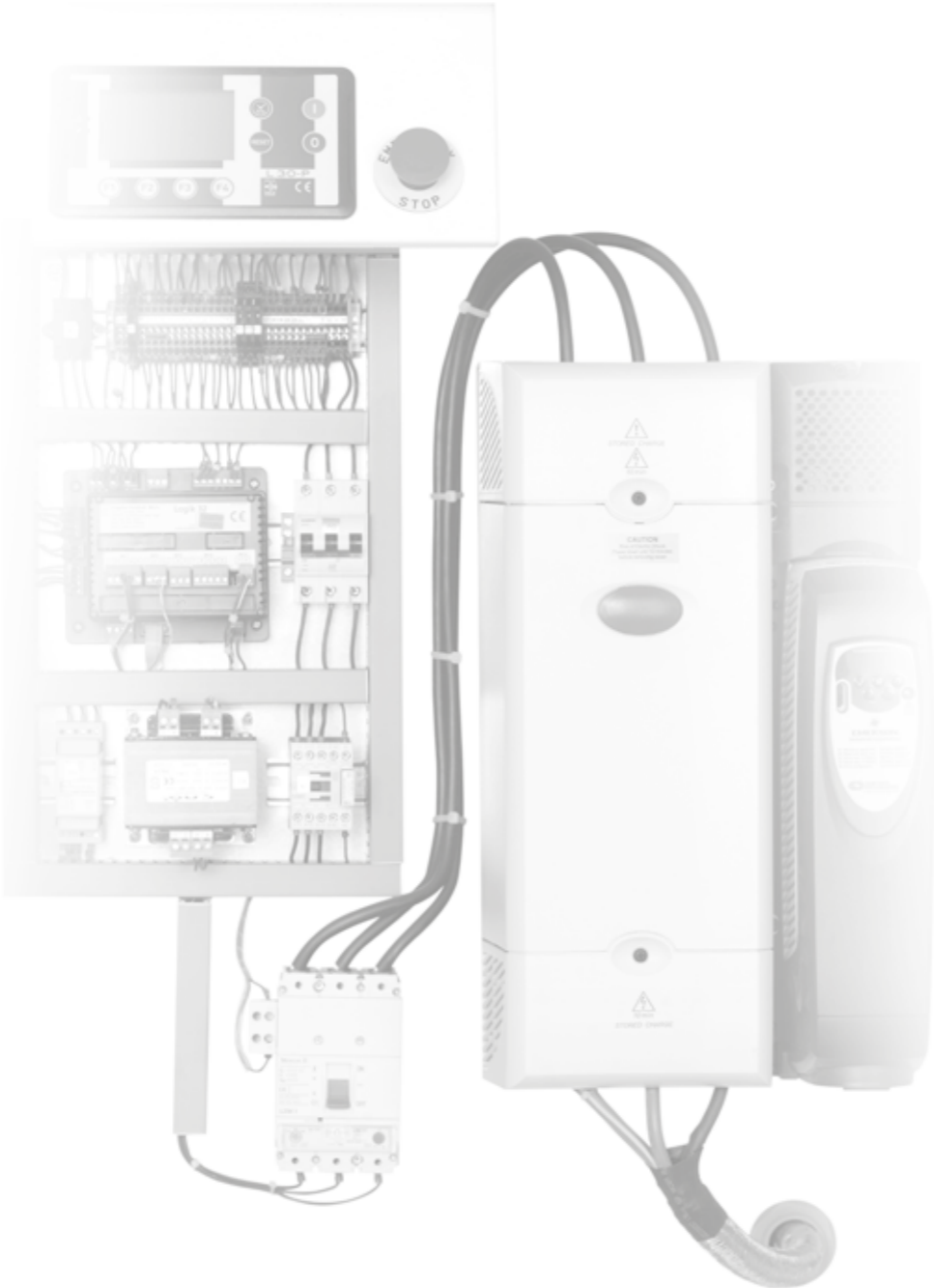
Control System Effect On Compressor Power Consumption

Standard air compressors are designed to operate continuously at full capacity. However depending on the application, the need for compressed air varies significantly. Research has shown, that on average, only 50 – 70 % of the compressor capacity is utilized. DALGAKIRAN INVERSYS models within the Variable Speed Controlled Compressor Series, give you the advantage to reduce energy costs by up to 35 %.

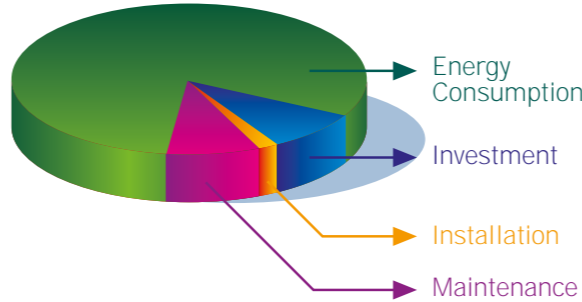
These two figures show a comparison of energy consumption between same sized ON/OFF-load and INVERSYS Compressors. The example consists of cost in 5 years, compressors running 6000 hours/year with an average load ratio of 60% and an energy price of 0.08/kWh. INVERSYS shows remarkable savings in energy and also in total costs of the compressor. The payback time of the INVERSYS unit is only 1.4 years.

By the support of a frequency inverter, INVERSYS Series Compressors adjust the motor and airend speed in accordance with the air motor and compressor unit airend speed demand of the factory. As seen in the chart, energy consumption keeps decreasing almost linear in proportion with the capacity, overtly a 35% saving in energy consumption is possible. Beside that, the wide capacity ranges allow the INVERSYS Series Compressors to supply the required amount of pressure, continuously and at a constant level. With that method, not only an extra amount of energy saving is provided, but the possibility of unfavourable pressure change effects on some critical equipments are prevented as well. The use of the 'Soft Start System' in INVERSYS Series Compressors extends the motor service life and avoids the negative effects of the high start current on the energy system. In addition, 'Soft Start System' lets the motor get started as many times as needed, and the short idle time periods give an extra energy saving.

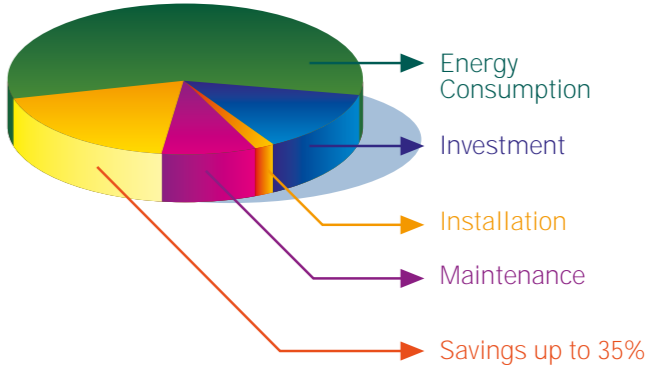
Considering at these advantages, it's quite that 35% at an INVERSYS Series Compressor's total cost will be saved back after a 5 years application period.



Cost Structure of a Load / Unload Controlled Compressor



Cost Structure of a Variable Speed Controlled Compressor



INVERSYS 18-275 Variable Speed Rotary Screw Air Compressors

Technical Data and Dimensions*

INVERSYS 18 / 25 / 30 / 37 / 45 / 50 / 60 / 75 / 75B / 90 / 125 / 150 / 180 / 220 / 275

Inversys Series

Technical Data and Dimensions*

Model	Bar	Min. FAD (m ³ /min.)	Max. FAD (m ³ /min.)	kW/Hp	L (mm)	W (mm)	H (mm)	Air Connection	Kg
INVERSYS 18	7.5	0.7	3.5	18.5 / 25	1250	850	1465	1"	487
	10	1.0	3.0						
	13	1.0	2.5						
INVERSYS 25	7.5	1.0	4.0	25 / 35	1250	850	1465	1"	490
	10	1.0	3.7						
	13	1.0	3.4						
INVERSYS 30	7.5	1.3	5.2	30 / 40	1550	1030	1750	1 1/4"	730
	10	1.2	4.4						
	13	1.2	3.9						
INVERSYS 37	7.5	1.2	6.5	37 / 50	1550	1030	1750	1 1/4"	768
	10	1.22	5.8						
	13	1.22	4.8						
INVERSYS 45	7.5	1.23	7.3	45 / 60	1550	1030	1750	1 1/4"	1070
	10	1.24	6.6						
	13	1.48	5.6						
INVERSYS 50	7.5	1.5	8.3	50 / 67	2000	1200	1800	1 1/2"	1270
	10	1.5	7.3						
	13	1.5	6.1						
INVERSYS 60	7.5	1.9	10.4	60 / 80	2000	1200	1800	1 1/2"	1238
	10	2.0	8.7						
	13	2.0	6.9						
INVERSYS 75	7.5	1.9	12.5	75 / 100	2000	1200	1800	1 1/2"	1313
	10	2.1	10.5						
	13	2.2	8.7						
INVERSYS 75B	7.5	3.0	13.5	75 / 100	2500	1400	2040	2"	1950
	10	3.0	11.0						
	13	3.0	9.2						
INVERSYS 90	7.5	3.0	16.0	90 / 125	2500	1400	2040	2"	2100
	10	3.0	13.5						
	13	3.0	11.1						
INVERSYS 125	7.5	3.3	20.5	125 / 170	2500	1400	2040	2"	2200
	10	3.3	16.4						
	13	3.3	15.0						
INVERSYS 150	7.5	3.5	25.3	150 / 200	2750	1750	2000	2 1/2"	2970
	10	3.5	20.1						
	13	3.5	18.3						
INVERSYS 180	7.5	5.0	30.0	180 / 240	2750	1750	2000	2 1/2"	3080
	10	5.5	25.0						
	13	5.5	21.6						
INVERSYS 220	7.5	5.5	39.0	220 / 295	3250	2250	2400	NW 100	4760
	10	5.5	32.5						
	13	5.5	28.5						
INVERSYS 275	7.5	5.5	49.0	275 / 370	3250	2250	2400	NW125	4920
	10	5.5	41.0						
	13	5.5	36.0						

*The specifications and details are subject to change without prior notice.



INVERSYS 50D-315D

Variable Speed Direct Driven Rotary Screw Air Compressors

Technical Data and Dimensions*

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