





BELT DRIVEN AIR SCREW COMPRESSOR

BELT DRIVEN TANK MOUNTED AIR SCREW COMPRESSORS

DIRECT COUPLED AIR SCREW COMPRESOR

VSD AIR SCREW COMPRESSORS

DIRECT DRIVEN VSD AIR SCREW COMPRESOR

BELT DRIVEN VSD AIR COMPRESSORS

COMPRESSED AIR DRYERS

SINGLE STAGE PISTON AIR COMPRESSORS

DOUBLE STAGE PISTON AIR COMPRESSORS

DIRECT COUPLED AIR SCREW COMPRESSORS

ALKIN COMPRESSOR

products



BELT DRIVEN AIR SCREW COMPRESSOR



- Special sound insulation
- PLC kontrol unit
- Oil-Air separator tank
- Oil filter and thermostatic valve chock
- Aluminium radiator
- High efficient cooling fans
- Belt tensioning mechanism

Special Designed Canopy

Special designed canopy provides the maximum heat flow inside the air intake and outlet panels.

Sound Insulation

Special insulation sponges which are also fire-proof are used in our compressors in order to insulate the environment from the noise.

Dip Type Separator

Between our ATV-15 / ATV- 75 models, dip type separators are used. Dip type separators are separate oil from the air in a perfect level by their wide surface.

Special Tensioning System

In our all belt driven models, transmission loss decreased to minimum and easy adjustments provided by the special tensioning system which was developed by our R&D team engineers.

Poly-V Belt System

Poly-V belts are used in our all models. Grooves on the puley side of the poly-V belt and the grooves on the pulley fits together and increase friction connection and minimise friction loss.

Seperator Tank

Special designed impact wings and partial construction features which are inside the separator tanks designed by our engineers, the fuction of seperator filter is reduced.

Wide Radiator Surface

We select the suitable radiators which can operate in every temperature for our compressors. We keep the inside air temperature in optimum level by the fans with high capacity and provide long operation life of compressors.

TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)			MOTOR POWER (kW / hp)	VOLTAGE PHASE (volt)	AIR DISH. DIA. (Ø)	DIMENSIONS W x L x H (mm)
	7 Bar	10 Bar	13 Bar				
ATV-3	0.42	0,35	0.29	3/4	400/3	1/2"	500x750x620
ATV-3 M	0.42	0.35	0.29	3/4	230/1	1/2"	500x750x620
ATV-4	0.58	0.46	0.40	4/5,5	400/3	1/2"	500x750x620
ATV-5,5	0.80	0.68	0.57	5,5/7,5	400/3	3/4"	643x818x865
ATV-7,5	1.10	0.90	0.70	7,5/10	400/3	3/4"	643x818x865
ATV-11	1.70	1.30	1.10	11/15	400/3	3/4"	643x818x865
ATV-15	2.50	2.10	1.75	15/20	400/3	1"	810x1170x1370
ATV-18,5	3.10	2.60	2.20	18,5/25	400/3	1"	810x1170x1370
ATV-22	3.60	3.10	2.75	22/30	400/3	1"	810x1170x1370
ATV-30	5.10	4.30	3.85	30/40	400/3	1 1/4"	895x1330x1700
ATV-37	6.30	5.20	4.30	37/50	400/3	1 1/2"	895x1330x1700
ATV-45	7.00	6.20	5.70	45/60	400/3	1 1/2"	895x1330x1700
ATV-55	9.60	8.00	7.00	55/75	400/3	2"	1165x1670x1800
ATV-75	12.30	10.70	8.80	75/100	400/3	2"	1165x1670x1800

The units are measured according to the ambient inlet standart conditions ISO 1217 1 bar abs and 20°C



POLY - V Belt and Pulley

BELT DRIVEN TANK MOUNTED AIR SCREW COMPRESSORS



Our Tank Mounted series are;

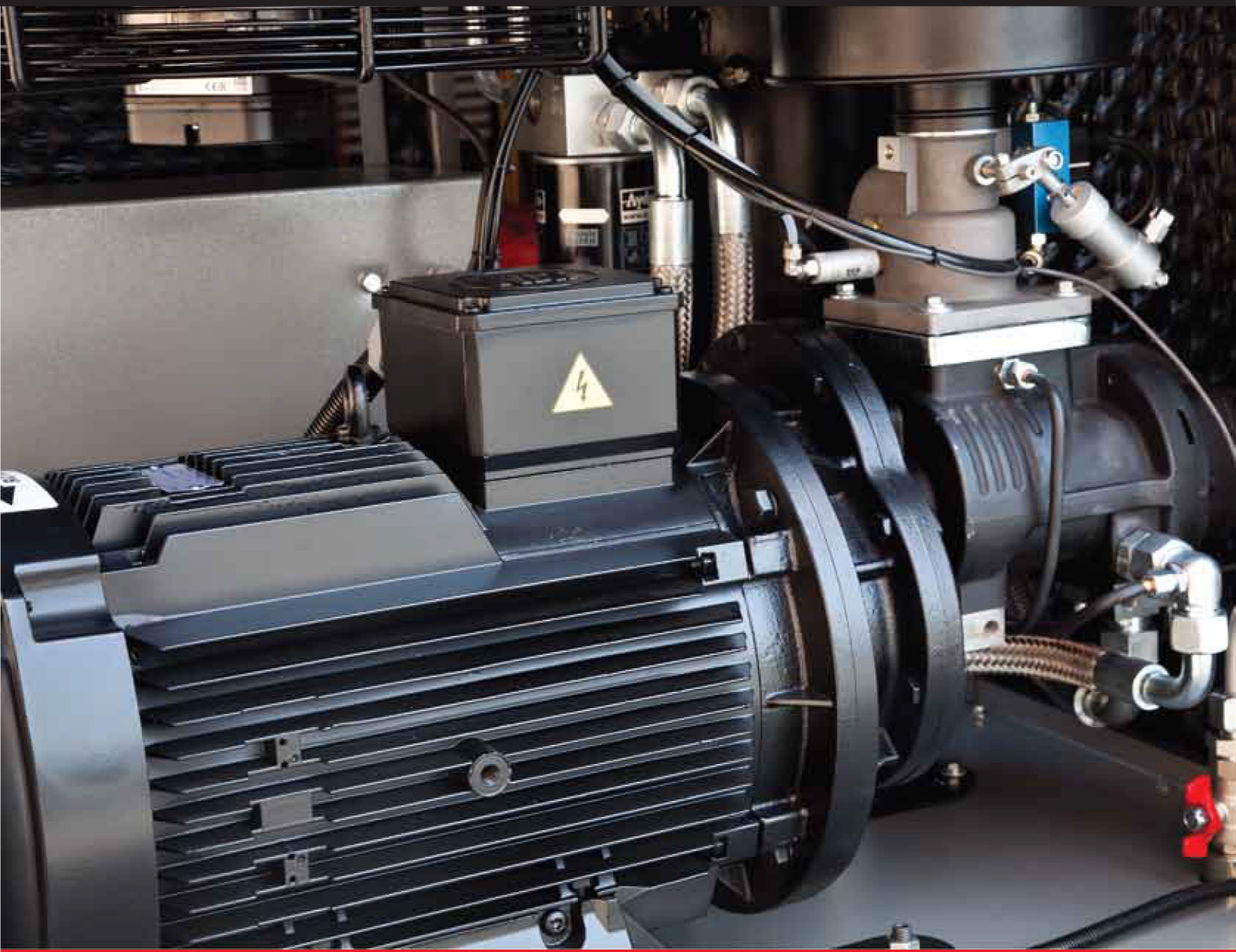
Between 3kw and 22 kw motor power. Designed with 300 lt/530 lt/750 lt tanks.

The compressor unit and air dryer unit is mounted on tank and became an end product. This brings advantage for saving space and easy installation.

TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)			MOTOR POWER (kW / hp)	VOLTAGE PHASE (volt)	AIR DISH. DIA. (Ø")	VOLUME (lt)	DIMENSIONS W x L x H (mm)
	7 Bar	10 Bar	13 Bar					
ATV-3M DK	0.42	0.35	0.29	3/4	230/1	1/2"	300	750x1350x1450
ATV-3 DK	0.42	0.35	0.29	3/4	400/3	1/2"	300	750x1350x1450
ATV-4 DK	0.58	0.46	0.40	4/5.5	400/3	1/2"	300	750x1460x1450
ATV-5.5 DK	0.80	0.68	0.57	5.5/7.5	400/3	3/4"	530	650x2000x1600
ATV-7.5 DK	1.10	0.90	0.70	7.5/10	400/3	3/4"	530	650x2000x1600
ATV-11 DK	1.70	1.30	1.10	11/15	400/3	3/4"	530	650x2000x1600
ATV-15 DK	2.50	2.10	1.75	15/20	400/3	1"	750	810x2050x1810
ATV-18.5 DK	3.10	2.60	2.20	18.5/25	400/3	1"	750	810x2050x1810
ATV-22 DK	3.60	3.10	2.75	22/30	400/3	1"	750	810x2050x1810

The units are measured according to the ambient inlet standart conditions ISO 1217 1 bar abs and 20°C



DIRECT COUPLED

Direct Driven series compressors eliminate the disadvantages of the compressors which are operating with belt/pulley system.

Minimum transmission loss: Contrary to the conventional type connections, electric motor and screw block is connected to each other directly in coupled series. In coupled compressor interconnected with direct (1:1) drive, transmission loss arising from the power transmission is reduced to zero.

Minimum Failure and Service Cost

Since no interconnection is used for power transmission, it comprises less components. Moreover, our low-speed and high air efficiency provider compressors are exposed to less friction and service life of internal elements such as screw block and bearing increase 3-4 times and service & failure costs are minimised.

Minimum Speed – Maximum Efficiency

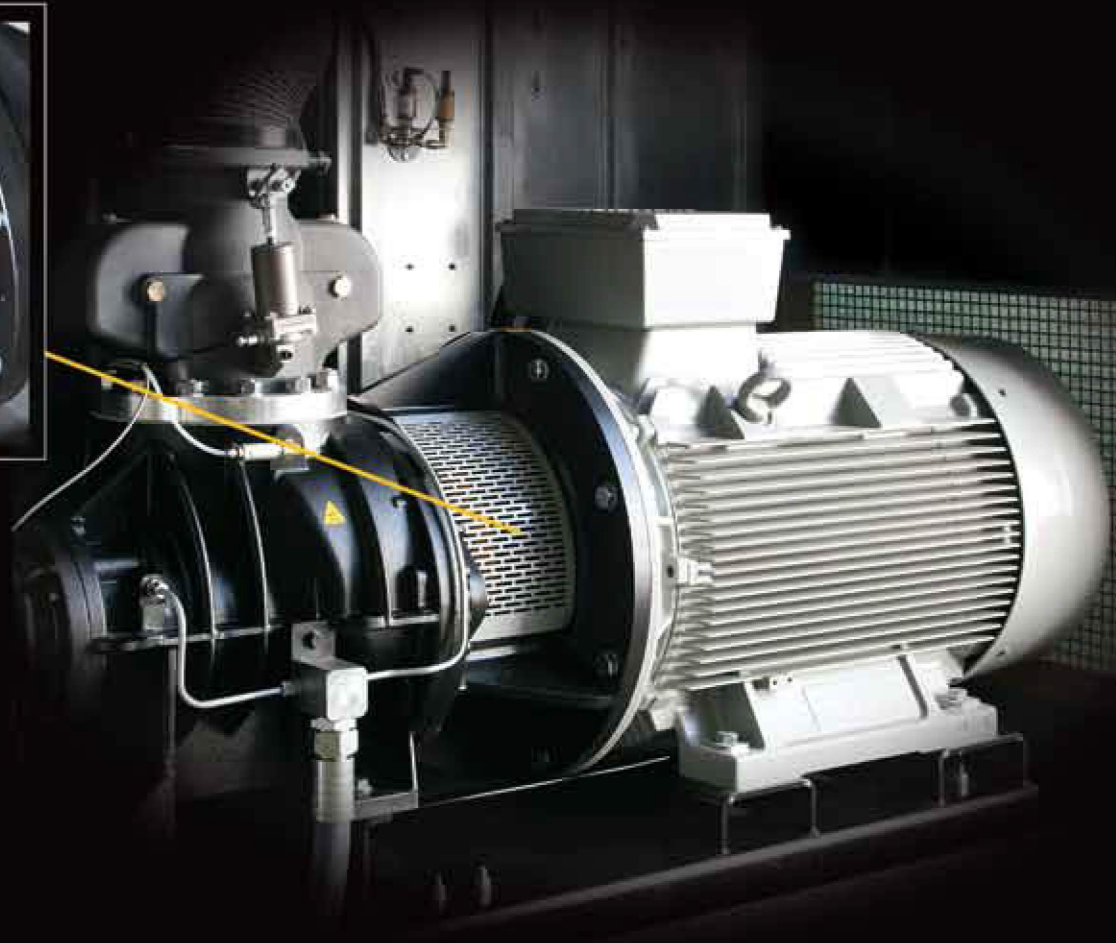
Screw block which is creating compressed air has the most important part in long service life and efficiency of a screw air compressor. If the screw block provides the required efficiency at the as lowest speed as possible, it will be exposed to less friction and all parts of screw block, both screw and screw bearings, will continue to operate without any performance loss.



ENERGY EFFICIENT AIR COMPRESSORS



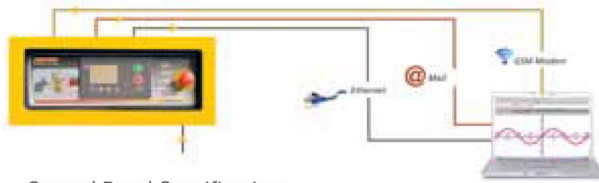
Low rpm, high efficiency



1:1 Drive

Low energy and maintenance cost

DIRECT COUPLED AIR SCREW COMPRESOR



Control Panel Specifications

- Sending e-mail
- Modbus TCP server
- Modbus server
- Two programmable relay outlet
- Operating motor with Star Delta or inverter
- Error control
- 128x64 graphic LCD
- 3 language options
- I/O expansion unit
- Weekly pressure calendar
- Automatic IP receiving
- Real time clock
- 6 different maintenance time
- Total, idle and on-load working time
- Easy to use and adjust
- Compatible with multiple MCC 1.0 compressor control unit
- Designed and manufactured according to the CE standards



TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)			MOTOR POWER (kW / hp)	VOLTAGE PHASE (volt)	AIR DISH. DIA. (Ø")	DIMENSIONS W x L x H (mm)
	7 Bar	10 Bar	13 Bar				
ATV-22 A	4.08	3.40	2.55	22/30	400/3	1 1/4"	850x1390x1560
ATV-30 A	5.50	4.93	3.68	30/40	400/3	1 1/2"	1150x1900x1500
ATV-37 A	6.38	5.55	5.02	37/50	400/3	1 1/2"	1150x1900x1500
ATV-45 A	7.60	7.28	6.26	45/60	400/3	1 1/2"	1150x1900x1500
ATV-55 A	9.47	9.28	7.27	55/75	400/3	2"	1300x2200x1800
ATV-75 A	12.06	11.98	8.96	75/100	400/3	2"	1300x2200x1800
ATV-90 A	16.24	13.20	11.86	90/125	400/3	2"	1500x2650x2235
ATV-110 A	19.46	16.14	13.08	110/150	400/3	2"	1500x2650x2235
ATV-132 A	22.06	19.31	15.98	132/180	400/3	2"	1500x2650x2235
ATV-160 A	26.38	24.38	20.75	160/220	400/3	2 1/2"	1920x3400x2636
ATV-200 A	34.50	30.76	24.00	200/270	400/3	2 1/2"	1920x3400x2636
ATV-250 A	44.20	37.60	30.58	250/340	400/3	3"	1920x3400x2636
ATV-315 A	55.00	43.76	41.61	315/420	400/3	3"	1920x3400x2636

The units are measured according to the ambient inlet standard conditions ISO 1217 1 bar abs and 20°C

VSD AIR SCREW COMPRESSORS

On VSD compressors electric motor runs at optimum rpm in order to meet the plant's instant air need so energy saving and target fixed air outlet pressure will be obtained.

Direct Driven VSD Air Screw Compressors

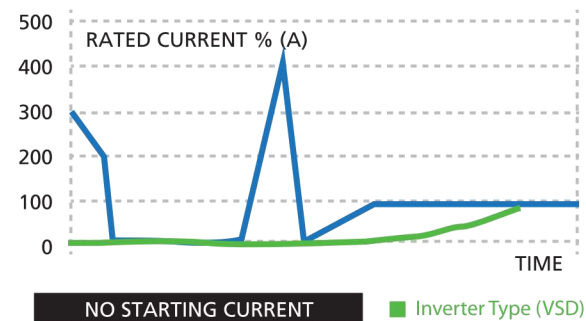
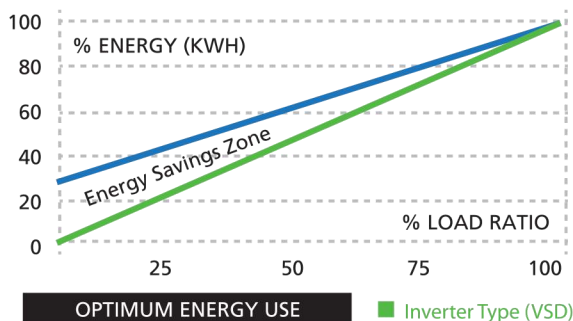
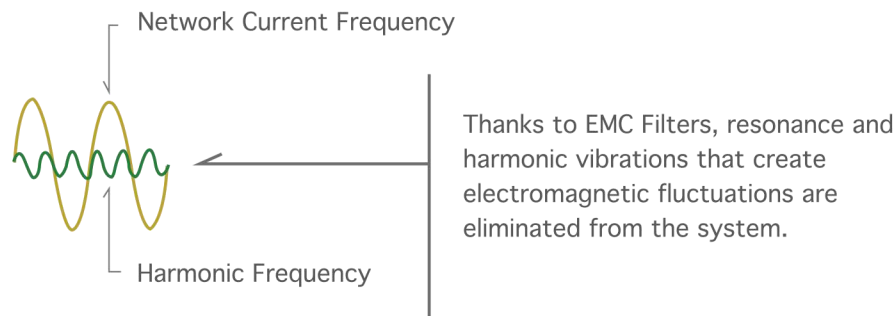
Inverter (VSD – Variable Speed Driver) compressors; provides 35% energy efficiency to the plants which have variable air capacities and increase the operating life of compressors.

Soft Start and Long Life

Excessive current drawn during the start-up of the electrical motor (starting current) and mechanical loads are eliminated due to the soft start and stop features of the inverter. As a result, operating life of the compressor increases and maintenance costs decrease.

Economical Run and Constant Output Pressure

Standard air screw compressors switch to idle when targeted pressure is achieved and switch to load when the specific low pressure is reached. When compressor switches to idle, the electric motor keeps working at its constant speed and does not produce compressed air. Thus the compressor consumes 30% power of its load run. Moreover, in standard screw compressors, mechanical load variations occur during the shifts between load and idle, and this causes the compressor equipments to fatigue and compressor construction to wear down in the long-term run.



Low Reactive Power Consume

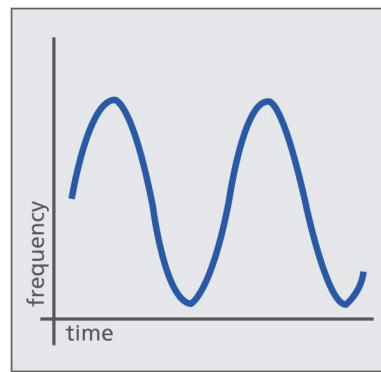
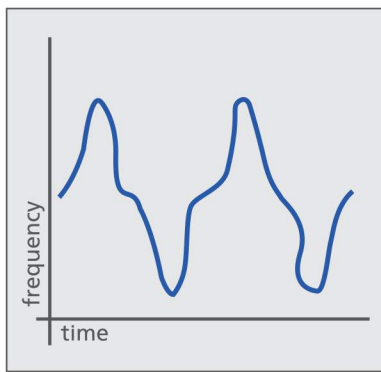
In inverter type compressors, the reactive power which has to be compensated is eliminated. The costs paid for the reactive power are reduced.

Constant Oil Temperature

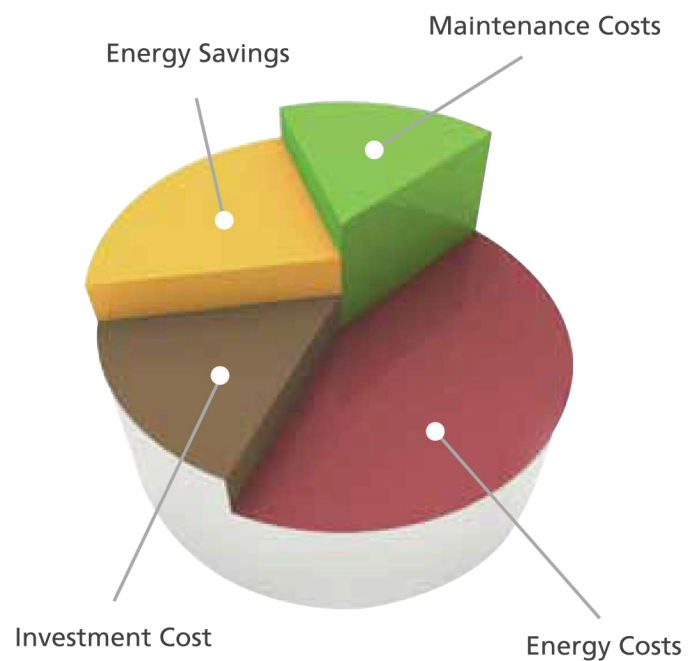
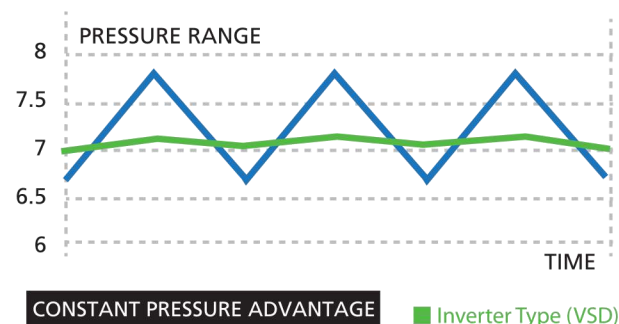
Contrariwise the standard screw compressors, oil is not exposed to sudden heating and cooling regarding to the operations between low and high pressures. This decreases the thermal dilation loads for compressor circuit elements and especially bearings.

Harmonic Filter and Choke Coil Usage

A harmonic filter and a choke coil are used in inverter compressor systems and this protects both the inverter itself and the electric motor against the possible harmonics and voltage unbalances.



VSD







DIRECT DRIVEN VSD AIR SCREW COMPRESSOR



TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)			MOTOR POWER (kW / hp)	VOLTAGE PHASE (volt)	AIR DISH. DIA. (Ø")	DIMENSIONS W x L x H (mm)
	7 Bar	10 Bar	13 Bar				
ATV-22 A VSD	4.08	3.28	2.55	22/30	400/3	1 1/4"	850x1390x1560
ATV-30 A VSD	5.46	4.30	3.38	30/40	400/3	1 1/2"	1150x1900x1500
ATV-37 A VSD	6.50	5.55	5.02	37/50	400/3	1 1/2"	1150x1900x1500
ATV-45 A VSD	7.80	6.80	6.26	45/60	400/3	1 1/2"	1150x1900x1500
ATV-55 A VSD	9.50	8.70	7.21	55/75	400/3	2"	1300x2200x1800
ATV-75 A VSD	13.60	11.50	10.13	75/100	400/3	2"	1300x2200x1800
ATV-90 A VSD	16.24	14.00	11.50	90/125	400/3	2"	1500x2650x2235
ATV-110 A VSD	20.00	17.10	13.67	110/150	400/3	2"	1500x2650x2235
ATV-132 A VSD	23.60	20.64	17.85	132/180	400/3	2"	1500x2650x2235
ATV-160 A VSD	28.31	25.16	21.56	160/220	400/3	2 1/2"	1920x3400x2636
ATV-200 A VSD	38.50	31.20	26.60	200/270	400/3	2 1/2"	1920x3400x2636
ATV-250 A VSD	47.80	40.35	32.57	250/340	400/3	3"	1920x3400x2636
ATV-315 A VSD	53.00	46.20	41.00	315/420	400/3	3"	1920x3400x2636

The units are measured according to the ambient inlet standart conditions ISO 1217 1 bar abs and 20°C

BELT DRIVEN VSD AIR COMPRESSORS

TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)			MOTOR POWER (kW / hp)	VOLTAGE PHASE (volt)	AIR DISH. DIA. (Ø")	DIMENSIONS W x L x H (mm)
	7 Bar	10 Bar	13 Bar				
ATV-7.5 VSD	1.10	0.90	0.70	7.5/10	400/3	3/4"	643 x 898 x 865
ATV-11 VSD	1.70	1.30	1.10	11/15	400/3	3/4"	643 x 898 x 865
ATV-15 VSD	2.50	2.10	1.75	15/20	400/3	1"	810 x 1290 x 1370
ATV-18.5 VSD	3.10	2.60	2.20	18.5/25	400/3	1"	810 x 1290 x 1370
ATV-22 VSD	3.60	3.10	2.75	22/30	400/3	1"	810 x 1290 x 1370
ATV-30 VSD	5.10	4.30	3.85	30/40	400/3	1 1/4"	895 x 1540 x 1700
ATV-37 VSD	6.30	5.20	4.30	37/50	400/3	1 1/2"	895 x 1550 x 1700
ATV-45 VSD	7.00	6.20	5.70	45/60	400/3	1 1/2"	895 x 1560 x 1700
ATV-55 VSD	9.60	8.00	7.00	55/75	400/3	2"	1165 x 1885 x 1800
ATV-75 VSD	12.30	10.70	8.80	75/100	400/3	2"	1165 x 1885 x 1800

The units are measured according to the ambient inlet standart conditions ISO 1217 1 bar abs and 20°C



COMPRESSED AIR DRYERS

The advantage of using dry air;
 Since it is not necessary to use water drainer, filters, elbows and slopes, no pressure drop will be observed.

TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m ³ /min)	DIMENSIONS W x L x H (mm)	GROSS WEIGHT (kg)
TMP-HK 23	0.38	420x360x560	32
TMP-HK 38	0.63	420x360x560	32
TMP-HK 53	0.88	420x360x560	32
TMP-HK 100	1.66	475x450x835	51
TMP-HK 155	2.58	475x450x835	53
TMP-HK 190	3.16	475x450x835	55
TMP-HK 210	3.50	555x500x870	78
TMP-HK 305	5.00	555x500x870	83
TMP-HK 375	6.20	555x500x870	86
TMP-HK 495	8.25	680x650x1160	160
TMP-HK 623	10.30	680x650x1160	165
TMP-HK 930	15.50	950x730x1370	220
TMP-HK 1200	20.00	950x730x1370	230
TMP-HK 1388	23.00	950x800x1460	270
TMP-HK 1800	30.00	950x800x1460	285
TMP-HK 2500	41.60	1165x780x1725	392
TMP-HK 2775	46.00	1165x780x1725	410
TMP-HK 3330	55.50	1400x850x1770	492
TMP-HK 3915	65.25	1400x850x1770	570

CORRECTION COEFFICIENT OF AMBIENT TEMPERATURE (F1)

Ambient temperature	20 °C	25 °C	30 °C	35 °C	40 °C	50 °C
Coefficient	1.05	1.00	0.98	0.93	0.84	0.7

CORRECTION COEFFICIENT OF INLET TEMPERATURE (F2)

Inlet temperature of Dryer	30 °C	35 °C	40 °C	45 °C	50 °C	60 °C
Coefficient	1.29	1.00	0.92	0.78	0.65	0.45

CORRECTION COEFFICIENT OF WORKING PRESSURE (F3)

Working pressure	4	6	7	8	10	12	14
Coefficient	0.80	0.94	1.00	1.04	1.11	1.16	1.22

For example for choosing the correct dryer. If an air compressor delivers 100 m³/h at 7 bars and dry inlet temperature is 45 °C and ambient temperature is 35 °C. Please choose your dryer as above.

Capacity/F1/F2/F3; 100/1/0,78/0,93 = 137,8 m³/h

HEATLESS DESICCANT AIR DRYERS

Heatless desiccant dryers provide constant -40°C pressure dew point. Heatless desiccant dryers are designed to supply clean and very dry compressed air for critical applications. With the reliable electronic controller, dryer will provide a perfect operation and long-term life.



COMPRESSED AIR FILTERS

Our air dryer filters are equipped with automatic water drain system and gauge type indicator which indicates the replacement time of the inner filter element.

TECHNICAL SPECIFICATIONS

MODEL	CAPACITY (m^3/min)	MAX. WORKING PRESSURE (bar)
TMP HF-100	1.66	16
TMP HF-150	2.50	16
TMP HF-200	3.33	16
TMP HF-250	4.16	16
TMP HF-300	5.00	16
TMP HF-500	8.33	16
TMP HF-600	10.00	16
TMP HF-851	14.18	16
TMP HF-1210	20.16	16
TMP HF-1520	25.33	16
TMP HF-1820	30.33	16
TMP HF-2220	37.00	16
TMP HF-2700	45.00	16



TECHNICAL SPECIFICATIONS	PRE FILTER	GENERAL	OIL FILTER	ACTIVE CARBON
Class	P	X	Y	A
Partical seperation (micron)	5	1	0.01	0.01
Max. oil conductivity 21 $^{\circ}\text{C}$ (mg/m^3)	5	0.5	0.01	0.003
Max. working pressure ($^{\circ}\text{C}$)	80	80	80	25
First pressure loss (mbar)	40	80	100	80
Pressure loss for element replacing (mbar)	700	700	700	700



P

Powder paint

S

Stainless tank



95

Safety first with
the endurance tests
up to 95 bar

Impact - resistant frame

D



SINGLE STAGE PISTON AIR COMPRESSORS

The compressors with the single stage, single & double cylinder which equip with threephase and monophase (up to 2hp) electric motor are V-Belt driven.

50lt, 100lt and 130 lt models have wheels for mobility.

All compressors are equipt with pressure switch, safety valve, manometer, non-return valve, condensate drain valve and air outlet valve.

Single stage 5.5 hp and 7.5 hp compressor models include starting switch and the working principle of these compressors is as start-stop. Unloading has been provided by the automatic drain on pressure switch. Our 10hp models must be equipt with Star Delta Electric Panel.



TECHNICAL SPECIFICATIONS

MODEL	WORKING PRESSURE (bar)	TANK VOLUME (lt)	MOTOR POWER (kW / hp)	PISTON DISPLACEMENT (Lt/Min)	VOLTAGE PHASE (volt)	NO. OF CYLINDER	ROUND PER MINUTE (Rpm)	DIMENSIONS (W x L x H) (mm)	GROSS WEIGHT (kg)
11-50	8	50	0.75/1	110	400/3	1	980	500x880x830	60
11-50M	8	50	0.75/1	110	230/1	1	980	500x880x830	63
21-100	8	100	1.1/1.5	210	400/3	2	980	600x1150x1000	83
21-100M	8	100	1.1/1.5	210	230/1	2	980	600x1150x1000	83
21-130	8	130	1.5/2	275	400/3	2	1300	600x1300x910	94
21-130M	8	130	1.5/2	260	230/1	2	1250	600x1300x910	94
21-220	8	200	2.2/3	400	400/3	2	980	620x1500x1000	130
21-220M	8	200	1.5/2	260	230/1	2	1250	620x1500x1000	120
21-300/5,5	8	300	4/5.5	780	400/3	2	950	650x1700x1200	203
21-530/5,5	8	530	4/5.5	780	400/3	2	950	770x1920x1340	295
21-530/7,5	8	530	5.5/7.5	920	400/3	2	1120	770x1920x1340	295
21-530/10	8	530	7.5/10	1370	400/3	2	900	770x1920x1500	384
21-1000	8	1000	7.5/10	1370	400/3	2	900	ŞASE 700x1320x880	247
								TANK 1000x1060x2300	335
21-1000Ş	8	-	7.5/10	1370	400/3	2	900	700x1320x880	247



DOUBLE STAGE PISTON AIR COMPRESSORS

The compressors with the double stage, double & triple cylinder which equip with threephase and monophase (up to 2hp) electric motor are V-Belt driven.

All compressors are equip with pressure switch, safety valve, manometer, non-return valve, condensate drain valve and air outlet valve.

Double stage 5.5 hp and 7.5 hp compressor models include starting switch and the working principle of these compressors is as start-stop. Unloading has been provided by the automatic drain on pressure switch. Our 10hp models must be equip with Star Delta Electric Panel.



TECHNICAL SPECIFICATIONS

MODEL	WORKING PRESSURE (bar)	TANK VOLUME (lt)	MOTOR POWER (kW / hp)	PISTON DISPLACEMENT (Lt/Min)	VOLTAGE PHASE (volt)	NO. OF CYLINDER	ROUND PER MINUTE (Rpm)	DIMENSIONS (W x L x H) (mm)	GROSS WEIGHT (kg)
22-220	12	200	1.5 / 2	200	400/3	2	980	620x1500x1000	130
22-220 M	12	200	1.5 / 2	200	230/1	2	980	620x1500x1000	130
22-300 / 5.5	12	300	4 / 5.5	630	400/3	2	950	620x1700x1200	203
22-530 / 5.5	12	530	4 / 5.5	630	400/3	2	950	770x1920x1340	295
22-530 / 7.5	12	530	5.5 / 7.5	800	400/3	2	815	770x1920x1370	336
22-530 / 10	12	530	7.5 / 10	1225	400/3	2	1250	770x1920x1370	350
22-1000 / 15	12	1000	11 / 15	1730	400/3	2	1075	ŞASE	290
								TANK	385
22-1000 / 15 Ş	12	-	11 / 15	1730	400/3	2	1075	700x1320x880	290
32-220	13.50	200	2.2 / 3	365	400/3	3	980	620x1500x1000	140
32-220 M	13.50	200	2.2 / 3	365	230/1	3	980	620x1500x1000	130



DIRECT COUPLED AIR COMPRESSORS

Direct coupled design causes low mechanical loss than V-Belt driven systems.

These compressors have special designed cooling fan, crank shaft and valve mechanism.

With this coupled design, the force at the connection of motor and the crank case is minimised.

Vertical tank models are designed for narrow places in order to save space.

Special designed Kolbenschmidt pistons, chromium coated rings and thermal pressure switches are used on each direct coupled compressor models.



TECHNICAL SPECIFICATIONS

MODEL	TANK TYPE	WORKING PRESSURE (bar)	VOLUME (lt)	MOTOR POWER (kW / hp)	PISTON DISPLACEMENT (Lt/Min)	VOLTAGE PHASE (volt)	NO. OF CYLINDER	ROUND PER MINUTE (Rpm)	DIMENSIONS (W x L x H) (mm)	GROSS WEIGHT (kg)
SINGLE STAGE PISTON COMPRESSOR										
AKUPLE 11-300/5.5	HORIZONTAL	8	300	4/5.5	670	400/3	1	1425	630x1700x1200	178
AKUPLE 11-300/5.5-D	VERTICAL	8	300	4/5.5	670	400/3	1	1425	800x800x1770	192
AKUPLE 11-530/5.5	HORIZONTAL	8	530	4/5.5	670	400/3	1	1425	770x1940x1330	258
AKUPLE 11-530/7.5	HORIZONTAL	8	530	5.5/7.5	900	400/3	1	1425	770x1940x1330	270
AKUPLE 11-530/10	HORIZONTAL	8	530	7.5/10	1350	400/3	2	1425	770x1940x1370	293
DOUBLE STAGE PISTON COMPRESSOR										
AKUPLE 22-300/7.5-D	VERTICAL	12	300	5.5/7.5	670	400/3	2	1425	800x800x1770	225
AKUPLE 22-530/7.5-D	HORIZONTAL	12	530	5.5/7.5	670	400/3	2	1425	770x1940x1370	293

HIGH PRESSURE BREATHING AIR COMPRESSORS
MEDIUM PRESSURE AIR COMPRESSORS
BOOSTER COMPRESSORS
GAS COMPRESSORS
FILL STATIONS



SECTORS

Scuba Diving • Fire Departments • Military Applications
Submarine & Destroyer Compressors • Naval Applications
Civil Defense Applications • Fish Farms • Gas Filling Facilities
PET Bottle Blowing • Shipyards & Maritime Applications
Industrial Applications • Paintball Applications