



AYKOM is the registered brand of AYDIN TRAFO COMPRESSOR for foreign markets.

AYDIN TRAFO COMPRESSOR started its business life at 1960 by manufacturing welding machines and breaking grounds with portable welding machines. We continued to growing since 57 years with the production of air piston compressors at 1977, air screw compressors at 1998 and high pressure washers, industrial vacuum cleaners at 2004.

At present, our production is made in our plant located in Izmir Kemalpasas Organized Industrial Zone on over 7.500 sqm closed 10.000 sqm open area and our plant's annual production capacity is 24.000 machines.

Having been continuing its investments and adopting a management concept favouring steady growth since the day it was founded and completed its branding process and became a reliable brand in the market.

As a result of successfully organized future plans, our company has more than 500 dealers in domestic market and exports more than 36 countries like Romania, France, Azerbaijan, Austria, Morocco, South Africa and UAE.

AYDIN TRAFO COMPRESSOR was certified to DIN EN ISO 9001-2008 Quality Management System by TÜV Rheinland Germany in 2000 and CE attestation in 2004 by one of the leading notified body Bureau Veritas France. Furthermore we have GOST-R certificate for Russia.

With our customer-oriented management strategies and more than 100 aftersales service points in domestic market, we provide maximum customer satisfaction by instant and rapid solutions.



As a leader of its sector, ALKIN COMPRESSOR was incorporated by AYDIN TRAFO COMPRESSOR in 2012 and consolidated its place in compressor sector.

ALKIN COMPRESSOR who is the first breathing air high pressure compressor manufacturer in Turkey, always aims to provide an innovator, high quality product and services. Due to that, it takes joining every Project as a duty.

We would be glad to serve our customers with our customer-oriented management policy and proven quality, technical knowledge and experiences in local and foreign markets.

ALKIN COMPRESSOR offers Breathing Air compressors which are comply with EN 12021 air quality standards in local and abroad.

Our company had been established by Erol Çiprut at 1990. Our plant is located in Menderes/Izmir on 3.500 sqm closed and total 16.500 sqm area.

Today ALKIN COMPRESSOR who appeals to different sectors with its product, rapid and quality service, well-known brand and export, is one of the leading compressor manufacturer in Turkey and World.

Besides our local sales, we mainly export our products to countries like USA, Canada, France, Korea, Russia, Indonesia, Australia, UAE, Iran, Finland and Sweden.

Our aim is to meet our valued customer's all high pressure air needs by following the developments and innovations all over the World.

We as, AYDIN TRAFO COMPRESSOR and ALKIN COMPRESSOR, would be glad to serve our customers with our customer-oriented management policy and proven quality, technical knowledge and experiences in local and foreign markets.

## ““ VISION

Our vision is to be one of the leaders in global pressured air industry with the other global brands.

## ““ MISSION

Our mission is to continue our high technology-oriented production by applying innovator, high quality and efficient solutions regarding to the developments.

## ““ TARGET

Our target is to make more efficient and reliable products which has a wide range and meet all requirements with low costs and high quality.

We aim to shape the future of our partners and employees with our products and services.

## ““ QUALITY POLICY

Our company continues to being a global company which is sensitive to environment, customer-oriented and aim to constant development and quality.

Our quality policy is to create a quality management system to manage all customer feedbacks efficiently and manufacture products which are comply with standards, reliable, esthetics, and according to our customers needs and expectations.

## ““ OHS & ENVIRONMENT POLICY

- Apply and improve Occupational Health and Safety system
- Obey the OHS laws, provide an environment regarding to these laws and avoid occupational accident and illness.
- Obey enviromantal legislation, administrative regulations, sectoral obligations, use natural sources efficiently and take care of environment.
- Decrease waste in the source and having maximum recycle by seperating them.
- Control the effects of our operations on environment and human health.
- Take the OHS factors into consideration during our operations.
- Inform our employees about OHS and increase their motivation

## ““ HUMAN RESOURCES POLICY

Featuring team working, team spirit and our employee's talents and abilities, increasing their performance, selecting the right person for the right job with the principle of equality, improve and manage their development.

*An adventure for half century...*



10.000 sqm area



# 275.000 Machines



# R&D

The first rule of being permanent and create a difference in sustained competition is staying paralel with market and adapting market requirements. Within this context, we effort to reflect the current technology and development level to our customers

Either the projects which we collaborate with our universities or TUBITAK-KOSGEB supports, we study for increase the quality of our products and product range quality to the top level.

With our R&D Team, we study for applying innovative, new and contemporary ideas which can make a difference in the market to concrete results. With our current team, new generation engineers and technical personnel, we constantly continue to design new and create current products.

Our R&D Team finds customer-oriented and creative solutions for different situations. Thus we provide our customers a better service.



WE ARE WORKING FOR HIGH QUALITY AND HIGH PERFORMANCE





**Aydın Trafo®**  
COMPRESSOR

**Aykom®**  
COMPRESSOR



|  |          |  |
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|  | products |  |





# BELT DRIVEN AIR SCREW COMPRESSOR



## 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 separator filter is reduced. Our tanks are manufactured in AYDIN TRAFÖ plant and comply with CE standards.

## 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<br>(m <sup>3</sup> /min) |        |        | MOTOR<br>POWER<br>( kW / hp ) | VOLTAGE<br>PHASE<br>( volt ) | AIR DISH.<br>DIA.<br>( Ø" ) | DIMENSIONS<br>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.

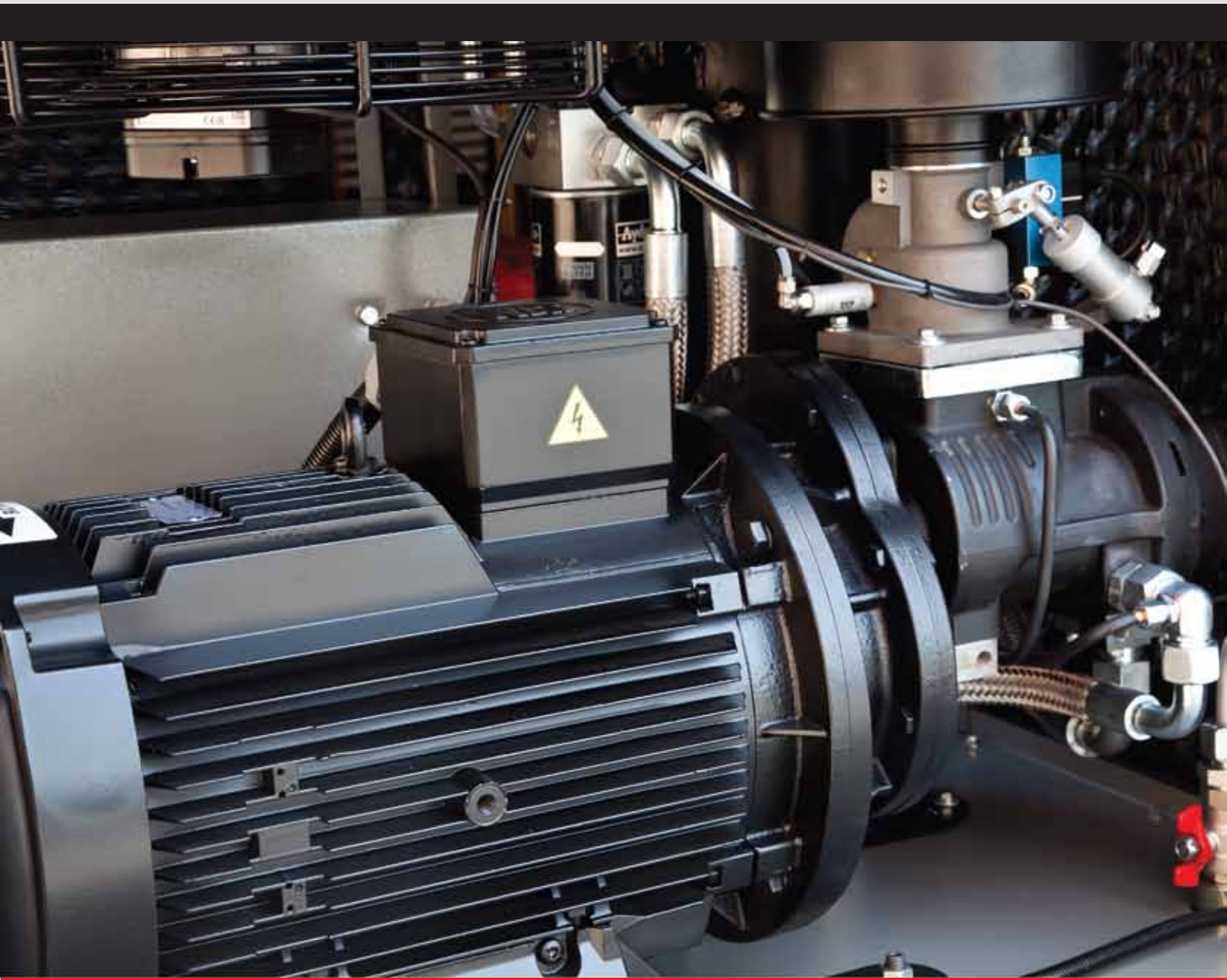
The compressor unit and air dryer unit is mounted on tank and became an end product. This brings advantage for saving space and easy installation.

### TECHNICAL SPECIFICATIONS

| MODEL       | CAPACITY<br>(m <sup>3</sup> /min) |        |        | MOTOR<br>POWER<br>( kW / hp ) | VOLTAGE<br>PHASE<br>( volt ) | AIR DISH.<br>DIA.<br>( Ø ) | VOLUME<br>( lt ) | DIMENSIONS<br>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 AIR SCREW COMPRESOR

# DIRECT COUPLED

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

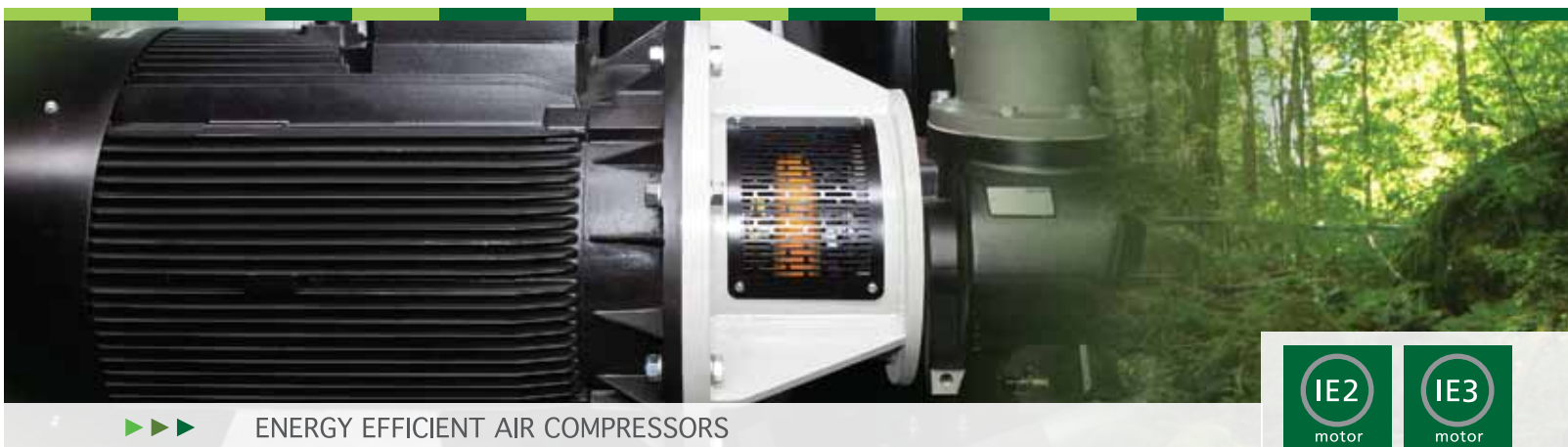
Minimum transmission loss: Contrary to the conventional type connections, electric motor and screw block is connected to each other directly in coupled series. In coupled compressor interconnected with direct (1:1) drive, transmission loss arising from the power transmission is reduced to zero.

### 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.





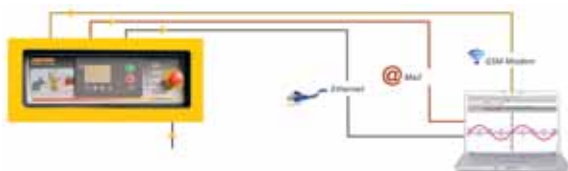
*Low rpm, high efficiency*



*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 calender
- 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<br>(m <sup>3</sup> /min) |        |        | MOTOR<br>POWER<br>( kW / hp ) | VOLTAGE<br>PHASE<br>( volt ) | AIR DISH.<br>DIA.<br>( Ø" ) | DIMENSIONS<br>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 standart 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

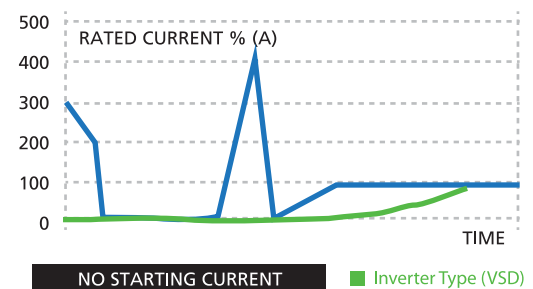
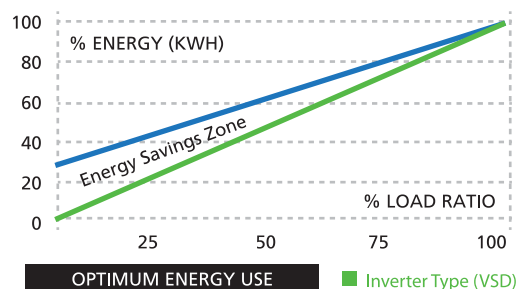
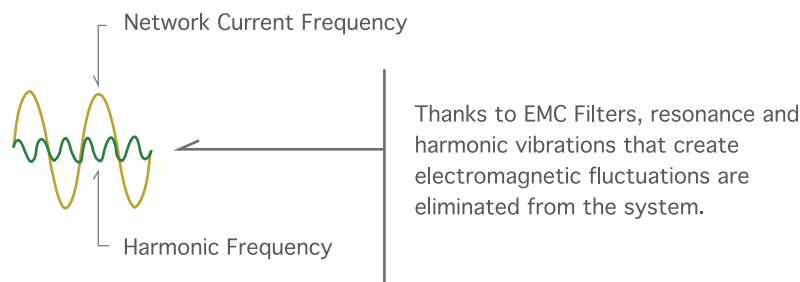
Inverter (VSD – Variable Speed Driver) compressors; provides 35% energy efficiency to the plants which have variable air capacities and increase the operating life of compressors.

### Soft Start and Long Life

Excessive current drawn during the start-delta 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

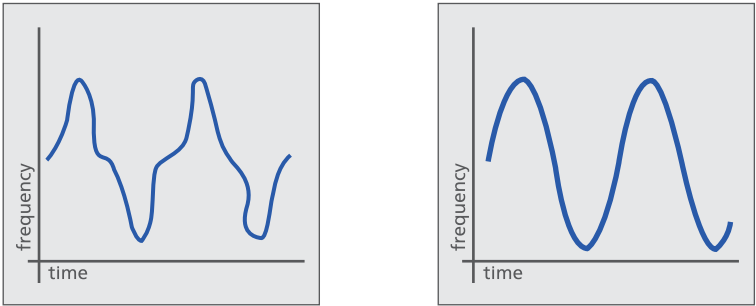
In inverter type compressors, the reactive power which has to be compensated is eliminated. The costs paid for the reactive power are reduced.

Constant Oil Temperature

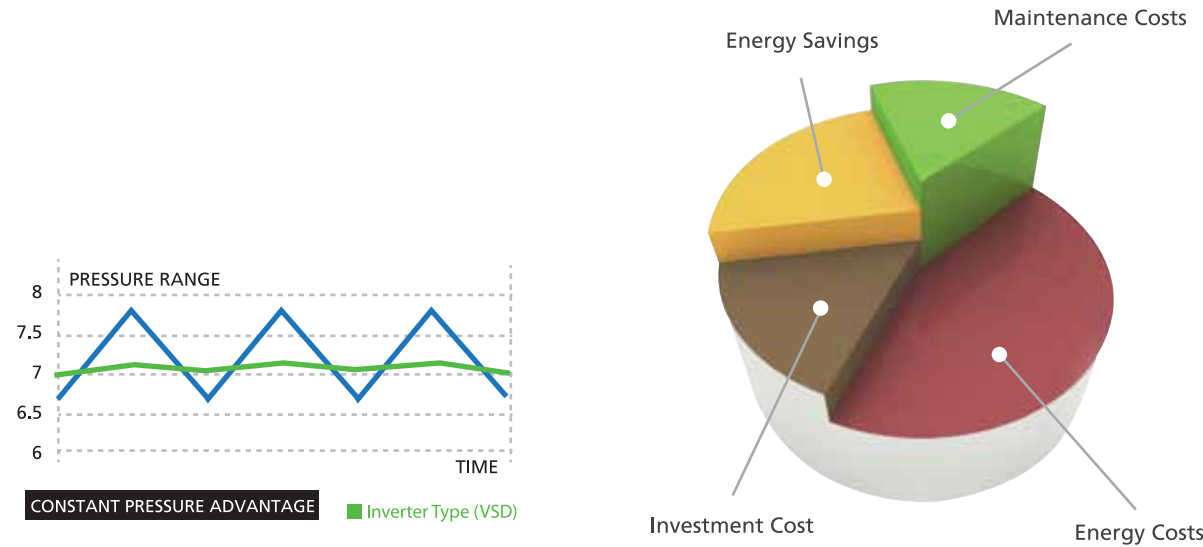
Contrariwise the standard screw compressors, oil is not exposed to sudden heating and cooling regarding to the operations between low and high pressures. This decreases the thermal dilation loads for compressor circuit elements and especially bearings.

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 valtage unbalances.



VSD









## DIRECT DRIVEN VSD AIR SCREW COMPRESOR



### TECHNICAL SPECIFICATIONS

| MODEL         | CAPACITY<br>(m <sup>3</sup> /min) |        |        | MOTOR<br>POWER<br>( kW / hp ) | VOLTAGE<br>PHASE<br>( volt ) | AIR DISH.<br>DIA.<br>(Ø") | DIMENSIONS<br>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 standard conditions ISO 1217 1 bar abs and 20°C

## BELT DRIVEN VSD AIR COMPRESSORS

### TECHNICAL SPECIFICATIONS

| MODEL        | CAPACITY<br>(m <sup>3</sup> /min) |        |        | MOTOR<br>POWER<br>( kW / hp ) | VOLTAGE<br>PHASE<br>( volt ) | AIR DISH.<br>DIA.<br>(Ø") | DIMENSIONS<br>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 standard 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<br>(m <sup>3</sup> /min) | DIMENSIONS<br>W x L x H (mm) | GROSS<br>WEIGHT<br>( 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 m<sup>3</sup>/h at 7 bars and dryer inlet temperature is 45 °C and ambient temperature is 35 °C. Please choose your dryer as above.

Capacity/F1/F2/F3;  $100/1/0,78/0,93 = 137,8 \text{ m}^3/\text{h}$

## HEATLESS DESICCANT AIR DRYERS

Heatless desiccant dryers provide constant -40°C pressure dew point. Heatless dessicant 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

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

| TECHNICAL SPECIFICATIONS |                                   |                                   |
|--------------------------|-----------------------------------|-----------------------------------|
| MODEL                    | CAPACITY<br>(m <sup>3</sup> /min) | MAX.<br>WORKING PRESSURE<br>(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<br>FILTER | GENERAL | OIL<br>FILTER | ACTIVE<br>CARBON |
|--|---------------|---------|---------------|------------------|
| Class  | P             | X       | Y             | A                |
| Partical seperation ( micron )                   | 5             | 1       | 0.01          | 0.01             |
| Max. oil conductivity 21°C ( mg/m <sup>3</sup> ) | 5             | 0.5     | 0.01          | 0.003            |
| Max. working pressure ( °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 equip 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 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) |
|------------|------------------------|------------------|-----------------------|------------------------------|----------------------|-----------------|------------------------|-------------------------------|-------------------|
| 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<br>700x1320x880          | 247               |
|            |                        |                  |                       |                              |                      |                 |                        | TANK<br>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<br>700x1320x880          | 290               |
|                |                        |                  |                       |                              |                      |                 |                        | TANK<br>1000x1060x2300        | 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               |



# Aykom®

## COMPRESSOR



## 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 Kolbensmidt 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





w w w . a y d i n t r a f o . c o m . t r