

A high-contrast, black and white photograph showing a close-up of a screw compressor rotor. The rotor is a complex, polished metal part with multiple lobes and sharp edges, reflecting light in a way that highlights its intricate design. The background is dark, making the metallic surface stand out.

# ***Airpol***

COMPRESSORS Ltd.

SCREW  
COMPRESSORS

## Airpol – SCREW COMPRESSORS

The screw compressors are ready for operation and fully automatic units designed for continuous operation in harsh operating conditions.

The units are made in the sound-proof housing in a version with or without air receiver. They are equipped with the belt drive or direct drive.

All compressors are manufactured in accordance with the standards and requirements specified in the directives concerning machines, pressure and electrical equipment and electromagnetic compatibility. The implemented quality management system for the design, production and service of screw compressors ensures a selection of the highest quality compressor.



### High quality of compressed air

Oil content in the compressed air at the level of 3 ppm (in the standard compressor version, without additional filters) is achieved owing to the use of efficient double oil separation.

The compressed air temperature is 10°C above ambient temperature owing to effective selection of fans and air coolers installed in the compressors.

### Synthetic oil – longer periods between inspections

The oil used has optimum properties to ensure appropriate protection of the compressors, maintain technical parameters and extend service life, in all work conditions.

The Airpol synthetic oil helps to maintain the constant compressed air delivery necessary for efficient system operation by, among other things, over five times faster air removal (which improves lubrication and increases the efficiency of oil separation) and over two times faster water separation by oil (which ensures effective protection and lubrication).



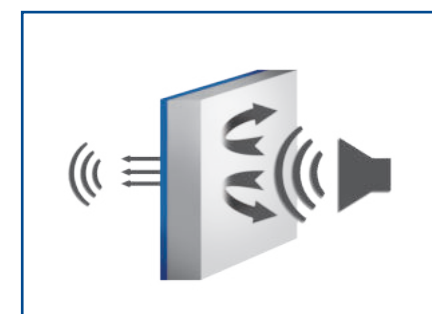
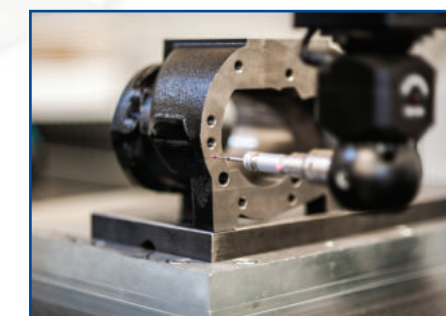
### Microprocessor Controller

Easy to read display and user friendly user menu enables an effective control and supervision of the compressor or compressor group operation.

### Proven high quality

The detailed quality control is carried out at every production stage.

High quality of the products was confirmed by the ISO 9001 quality certificate that was awarded to the company in 1998.



### Low level of sound intensity

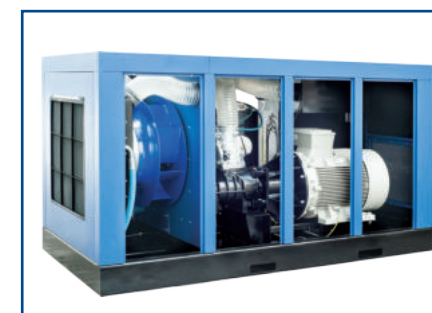
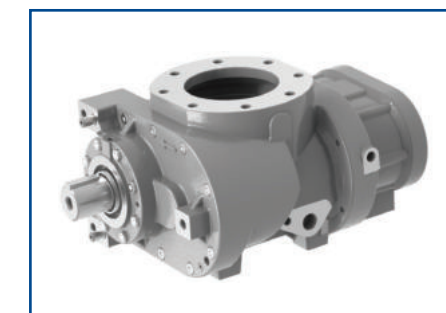
All screw compressors casings are lined internally with noise dampening material, whose ability to absorb sound is 80% on average.

The specially formed ventilation ducts lined with the foam characterized by a high acoustic insulation coefficient effectively reduce sound intensity.

Reliable vibration isolators additionally reduce noise and suppress the compressor vibration.

### High service life of the screw air end

Designed and manufactured by Airpol, ASU airend assemblies with optimized rotor profile, have high efficiency and long service life provided by appropriately oversized bearings (their first regeneration is performed no sooner than after about 30,000 hours of operation).



### Reliable and thought out design

The compressor design, protection and regulation methods used ensure full working safety and user comfort. A good access to all elements improves and shortens service operations.

Daily maintenance and service is simple and not requiring the specialised tools.



## SCREW COMPRESSORS WITH BELT DRIVE

SIMPLE  
DESIGN,  
EASY  
TO USE

motor power from 3 kW to 55 kW

### Effective cooling system

Suitably selected air coolers with the carefully thought out air flow system enable the compressors to operate at ambient temperature up to 40°C and ensure appropriate compressed air cooling.



### Control system protection

The microprocessor controller including electrical installation is located in the separated, cooled space with the increased ingress protection (IP) rating. It ensures better ventilation, safety and protection against heat and pollution.

### Good access to subassemblies

The elements to be maintained and serviced are optimally accessible, which shortens service down time.



### Easy installation

The compressors are the complete compressed air stations ready for operation. It is enough to connect the compressor to power supply and compressed air network, and no additional installation work is required. All compressors are equipped with a standard connector, and in the case of a version on the receiver (Airpol K and Airpol KT series) there is no need to install equalizing tanks.

According to the operating conditions, the screw compressors with belt drive and direct drive compressors can be additionally equipped with:

- frequency inverter (Airpol PR series compressors with motor power from 5,5 kW)
- water/oil exchanger,
- heating system,
- water cooling,
- stainless steel or galvanized air receiver,
- compressed air treatment system (Airpol KT, Airpol T series).

## DIRECT DRIVE SCREW COMPRESSORS

motor power from 15 kW to 315 kW

HIGH-  
EFFICIENCY  
DRIVE

### Direct drive 1:1

The most efficient drive option, where the screw unit is coupled directly to an electric motor, using the flexible coupling. Owing to such a solution, there are no energy losses when a torque is transferred from the motor to the block. Power consumption is considerably reduced.



### MS Connect – real-time monitoring and supervising of individual compressor

MS Connect provides the remote work monitoring, supervision and changing of the basic operating parameters of the screw compressor equipped with the MS-AIRPOL POWER CONTROL series controller.

Software is designed for installation on PCs of people responsible for maintaining work continuity and managing the operation of compressors.



### Centrifugal fan

The high-efficiency fan with a higher compression ratio ensures effective cooling throughout the entire compressor operation time. High compression ratio ensures an appropriate, even flow of sucked ambient air, through the cooler, also in the case of cooler fouling. Centrifugal fan is driven by low-speed electrical motor, which considerably influences the compressor noise level.





# SCREW COMPRESSORS WITH COMPRESSED AIR TREATMENT SYSTEM

## Airpol KT Airpol T

The compact design equipment dedicated to the users who have a small working area and are looking for an efficient compressor station with increased cleanliness class.



### Individual approach to every Customer

According to the operating conditions, the compressors type Airpol T can be additionally equipped with:

- frequency inverter (Airpol PRT, Airpol KTPR),
- water/oil exchanger,
- stainless steel or galvanized air receiver,
- automatic condensate drain mounted under the air receiver,
- additional end filters,
- MS Connect – software for remote work monitoring, supervision and changing of the basic operating parameters of the screw compressor equipped with MS-185, MS-585, MS-587FRQ controllers).

HIGH QUALITY  
OF COMPRESSED  
AIR

3in1

COMPRESSION ■ FILTRATION ■ DRYING

### Compact design

The refrigerant dryer together with two compressed air filters are located in one housing with the entire compressor.

It eliminates the necessity of providing an additional operating space and spending installation costs of the compressed air treatment system.

### Good access to components

The elements to be maintained and serviced are optimally accessible, which shortens service down time.

Daily maintenance and service is simple and does not require specialised tools.

### Safe design

The compressed air treatment system is located in a separated chamber to ensure better ventilation, safety of the dryer operation and protection of the compressed air treatment equipment against a heat stream coming from the compressor cooling.



### Integrated compressed air treatment system

**Prefilter** – high porosity of the nonwoven fabric, which the filter element is made of, ensures high ability to store dust. It guarantees removal of 99% of solid particles and liquid ones larger than 3 µm.

**Refrigeration dryer** – removes moisture from compressed air to the required dew point of +3°C. The air relative humidity, that upstream the dryer is 100%, is reduced to only 21%.

**Fine filter** – element is made of high density multilayer microfibre. By using the single fibre diffusion and coalescence phenomena, 99.9% of solid particles larger than 1 µm are removed and the residual oil content downstream the filter not higher than 0,1 mg/m<sup>3</sup> is achieved.

Both compressed air filters and refrigeration dryer are equipped with automatic drain valves.





## SCREW COMPRESSORS WITH FREQUENCY INVERTER

Airpol PR Airpol KPR Airpol PRT Airpol KTPR  
with motor power from 5,5 kW

INTELLIGENT  
DRIVE  
TECHNOLOGY



### Cooperation of compressors without the use of an external controller

The MS-587FRQ controller, which is standard equipment of variable speed screw compressors from 30kW, enables the cooperation of compressors connected to one network. The variable speed compressor with the MS-587FRQ controller works as the main one, switching auxiliary compressors (max. 4 compressors with MS-Airpol Power Control type controllers working in the network in sequential or cascade mode).

The compressor equipped with the MS-587FRQ controller can also cooperate in a network with one analog-controlled compressor or one equipped with a different controller than the MS-Airpol Power Control series controller without the need for an external controller.

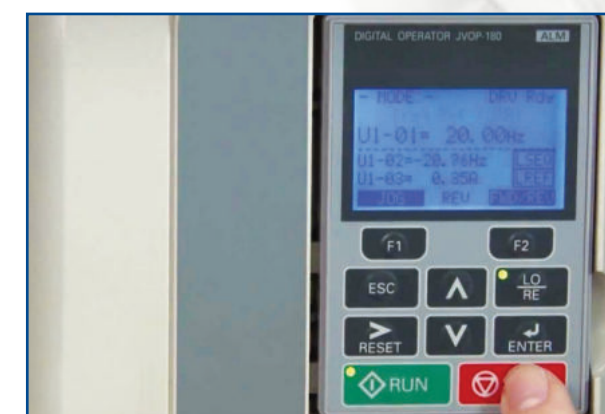


## Infinite rotation adjustment and constant pressure in the compressed air network

Energy-saving screw compressors of the Airpol PR, Airpol PRT, Airpol KPR and Airpol KTPR series have a smooth speed control in the range of 20% to 100% (for individual compressors this range varies depending on the engine power and pressure for which the device is made).

The operation control system with the frequency inverter tries to maintain the compressor motor rotations at the level that ensures constant pressure in the compressed air system i.e. at the set level. When the network pressure decreases, the inverter increases the motor rotational speed, which results in the compressor capacity increase, and when pressure increases, the motor rotational speed decreases.

ENERGY SAVING  
close to  
70% of electric  
energy saving when  
compared to the  
compressors  
with traditional control



### Benefits from the use of a frequency converter in screw compressors:

- reduction of compressor pressure hysteresis, thus reducing pressure variations in the pneumatic network,
- adjustment of the compressor's capacity to the actual demand for compressed air,
- start-up current limitation,
- reduction of the number of starts,
- reduction of idle run time,
- energy saving,
- minimization of mechanical wear and extending of the components working life,
- possibility of using an air receiver with a smaller capacity.

### Longer life and higher reliability

Smoothly controlled acceleration and deceleration reduces load of mechanical and electrical elements. The moving structural elements operate at lower rotations.

### Operation safety

The frequency inverter is located in the separate and effectively cooled switchgear, which ensures good ventilation and protection against an influence of heat emitted by the compression module operation.

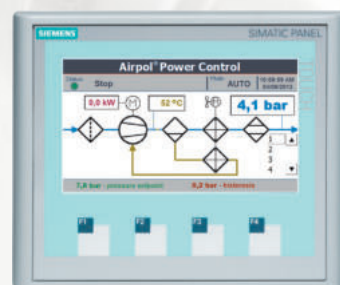
## MICROPROCESSOR CONTROL

The Airpol Power Control controllers, based on the modern technologies (microprocessor with the Cortex core), meet the recent industrial requirements with simultaneous minimum power consumption and correct, failure-free compressor operation.

Easy to read display, information diodes and clear keyboard provide easy and fast configuration of operating parameters, diagnosis of the compressor operation state, as well as an operation mode selection.

### THE LEDS ON THE CONTROLLER INFORM THE OPERATING PERSONNEL ABOUT:

- compressor operation mode,
- motor operation status,
- occurrence of any events.



Touch operator panel

The intelligent algorithm for automatic control of the motor idle running time - AutoTlse, limits considerably the power consumption.

Possibility of selecting the operation mode and precise programming of the compressor operation time according to calendar and time needs, which additionally provides the economic machine operation.

The extended supervision and self-control mode that monitors the most important compressor and motor parameters and reminds of worn mechanical consumables and service dates.

The event identification mode that signals the event occurrence with suitable messages.

The circuit-breaker and overvoltage protection systems used in the power supply circuit.

The short-circuit detection module in the 24VDC circuit, prevents damage of the controller electronic elements (in MS-585, MS-587FRQ and Siemens 1200).

Possibility of co-operation with the external power supply asymmetry and phase sequence monitoring module ASKF3B or two-state power supply monitoring module. When a phase is missing or phase sequence is incorrect, an error message will prevent the compressor from starting, protecting it against damage.

Enhanced communication capabilities: Modbus, CanOpen, Ethernet.

### EASY USE AND CLEAR WAY OF PARAMETER CHANGES

### ECONOMIC WAY OF THE COMPRESSOR OPERATION CONTROL



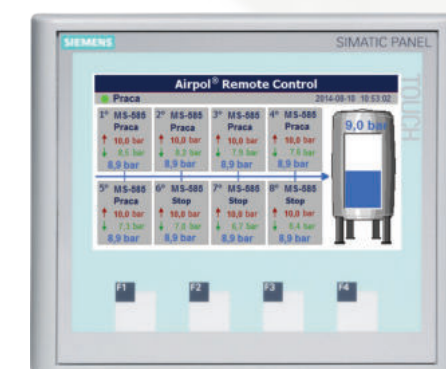
## MASTER CONTROLLER OF SCREW COMPRESSOR GROUP

### Master control unit RC is responsible for:

- control of the start and stop system of the compressors installed in one compressed air network,
- monitoring and ensuring correct pressure in the system,
- optimum load distribution between individual compressors,
- possibility of selecting the leading compressor,
- setting pressure start and stop thresholds;
- entering the parameters of the system regulation,
- collection of information from the supervised system and its processing, visualisation, archiving and signalling (in RC-S),
- remote monitoring of the supervised system status by means of the installed interface operated in the web browser or/and by means of the Modbus TCP communication protocol (in Modbus RTU option via RS485), (in RC-S).

**Sm@rt Server** – additional feature of the RC-S series master controllers that provides to duplicate the operator panel onto a PC or mobile devices.

This feature can be implemented in both new controllers and the controllers that are already used to control a specific group of compressors.



The use of the RC-control unit of the compressor group eliminates the necessity of the machine operator intervention into settings and enables equal load distribution between compressors.

Control of the screw compressor group is possible in the sequence or cascade mode. The sequence control is recommended for the compressors of comparable size. Their operation time is usually equalized.

The cascade control is dedicated to the machines of different sizes, where the one operates in a continuous way and the others operate only during peak demands for compressed air.





## REMOTE MONITORING AND COMPRESSOR WORK SUPERVISION

**Web Server** – gives the opportunity to monitor the current compressor status and its parameters, view settings and counter indications and check the activity of recorded events. Everything is done in a standard web browser - there is no need to install special software (refers screw compressors with S7-1200 controller).



### User benefits of compressors work remote monitoring:

- possibility to manage the compressor from a different location than the location of the compressor,
- ability to act quickly in the event of unforeseen events - monitor preview,
- possibility to analyse sensor data – work optimisation,
- remote change of the basic compressor operating parameters,
- planning service inspections – cost optimisation.

**MS Connect** – software designed for installation on PCs of people responsible for maintaining work continuity and managing the operation of compressors. The application is used to monitor and supervise in real time individual compressors working alone or in a group consisting of max.14 compressors (for compressors equipped with MS 385V24, MS-386V24, MS-185, MS-585, MS-386FRQ, MS-586FRQ, MS-587FRQ controllers).



## CONTAINER COMPRESSOR STATIONS

The container compressor stations are used wherever there is a need for the source of compressed air or nitrogen and there is no possibility of building a compressor room. They provide high mobility and use at any location by a user.



The professionally made container compressor station ensures protection of the inside equipment against any external factors and optimum conditions for the equipment operation at the same time. The entire station equipment is configured according to individual needs of a customer.

The container size depends on the type and number of units installed inside such as: screw compressors, boosters, air receivers, separators, filters and air dryers. The construction of the container together with the units installed is placed on a common supporting frame, which enables easy transport and installation at any location.

Owing to the use of the suitable ventilation and heating system, the container station is completely independent of prevailing weather conditions.

Power is supplied into the container switchgear from the power network or generating sets through the cable entries.

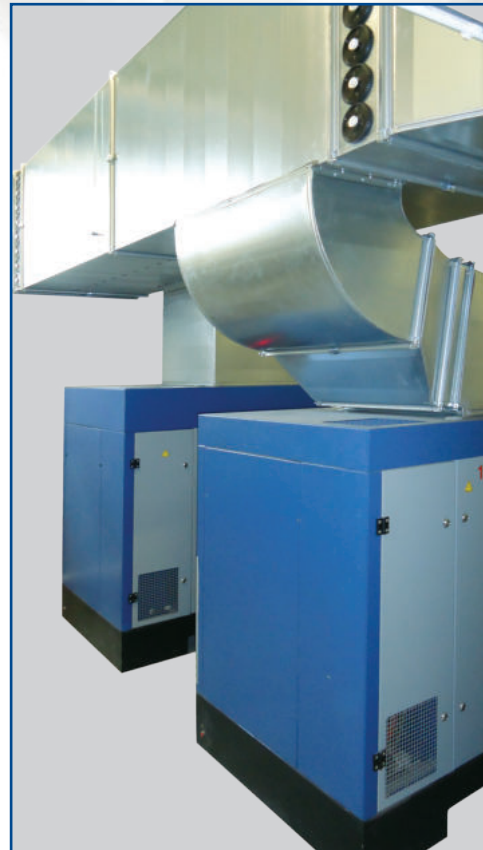




## HEAT RECOVERY FROM SCREW COMPRESSORS

Every screw compressor converts 100% of the supplied electrical energy into heat energy.

Only 4% of heat energy remains in the compressed air, and 96% may be effectively recovered and used again.



### System of ventilating ducts

Almost 96% of the energy supplied to the compressor may be recovered in a form of hot air stream.

The suitable ventilation ducts together with the damper system make it possible to appropriately direct an air stream and use it directly for forced air heating of the rooms adjacent to the compressor station e.g. production or store halls.

The heated air stream is dosed through the dampers (electrically driven and thermostatically controlled), which enables constant temperature to be maintained at the heated room.

When there is no demand for heating, air is directed outside through the dampers.

HEATING  
ENERGY  
SAVING

### Water/oil exchanger

Approx. 78% of energy may be recovered by installation of the water/oil exchanger in the compressor. Heated water is used in the water central heating system or domestic hot water system.

The plate heat exchanger system is anticipated for standard applications.









The use of thin plates, effective use of heat exchange surface and possibilities of achieving very high turbulence of liquids flowing through the exchanger enable superb heat transfer coefficients between oil and cooling water to be achieved.

It is possible to heat water up to temperature of approx. 60°C at full-load of the compressor.












The depreciation period of the heat recovery system purchase (installation of the water/oil exchanger) is max. 1 year.












| Model   | Discharge overpressure | Capacity *) | Capacity *) | Nominal motor power | Air receiver volume | Overall dimensions (L x D x H) | Compressed air connection | Weight        | Noise level **) |      |               |     |
|---|------------------------|-------------|-------------|---------------------|---------------------|--------------------------------|---------------------------|---------------|-----------------|------|---------------|-----|
|   | MPa                    | m³/h        | m³/min      | kW                  | L                   | mm                             |                           | kg            | db(A)           |      |               |     |
| SCREW COMPRESSORS ON AIR RECEIVER - BELT DRIVE                                      |                        |             |             |                     |                     |                                |                           |               |                 |      |               |     |
|    | Airpol K3              | 0,8         | 25          | 3                   | 240                 | 1920x660x1530                  | G 1/2                     | 250           | 72              |      |               |     |
|   |                        | 1,0         | 20          |                     |                     |                                |                           |               |                 | 0,33 |               |     |
|    |                        | 0,8         | 25          |                     | 0,42                | 500                            |                           | 1430x660x1430 |                 | 340  |               |     |
|   |                        | 1,0         | 20          |                     | 0,33                |                                |                           |               |                 |      |               |     |
|    | Airpol K4              | 0,8         | 34          | 4                   | 240                 | 1920x660x1530                  | G 1/2                     | 255           | 72              |      |               |     |
|   |                        | 1,0         | 28          |                     |                     |                                |                           | 0,47          |                 | 500  | 1430x660x1430 | 330 |
|   |                        | 1,3         | 22          |                     |                     |                                |                           | 0,37          |                 |      |               | 410 |
|   |                        | 0,8         | 34          |                     | 0,57                | 500                            |                           | 1430x660x1430 |                 |      |               |     |
|   |                        | 1,0         | 28          |                     | 0,47                |                                |                           |               |                 | 410  |               |     |
|   |                        | 1,3         | 22          |                     | 0,37                |                                |                           |               |                 |      | 410           |     |
|  | Airpol K5              | 0,8         | 50          | 5,5                 | 500                 | 1920x660x1520                  | G 3/4                     | 360           | 72              |      |               |     |
|   |                        | 1,0         | 40          |                     |                     |                                |                           | 0,66          |                 | 410  |               |     |
|   |                        | 1,3         | 33          |                     |                     |                                |                           | 0,55          |                 |      | 410           |     |
|   |                        | 1,5         | 20          |                     |                     |                                |                           | 0,33          |                 |      |               | 410 |
|  | Airpol K7              | 0,8         | 68          | 7,5                 | 500                 | 1920x660x1520                  | G 3/4                     | 370           | 72              |      |               |     |
|   |                        | 1,0         | 57          |                     |                     |                                |                           | 0,95          |                 | 420  |               |     |
|   |                        | 1,3         | 47          |                     |                     |                                |                           | 0,78          |                 |      | 420           |     |
|   |                        | 1,5         | 35          |                     |                     |                                |                           | 0,58          |                 |      |               | 420 |
|  | Airpol K11             | 0,8         | 108         | 11                  | 500                 | 1920x660x1520                  | G 3/4                     | 395           | 72              |      |               |     |
|   |                        | 1,0         | 90          |                     |                     |                                |                           | 1,50          |                 | 445  |               |     |
|   |                        | 1,3         | 70          |                     |                     |                                |                           | 1,16          |                 |      | 445           |     |
|   |                        | 1,5         | 55          |                     |                     |                                |                           | 0,91          |                 |      |               | 445 |
|  | Airpol K15             | 0,8         | 150         | 15                  | 500                 | 1920x660x1600                  | G 3/4                     | 475           | 72              |      |               |     |
|   |                        | 1,0         | 120         |                     |                     |                                |                           | 2,00          |                 | 525  |               |     |
|   |                        | 1,3         | 96          |                     |                     |                                |                           | 1,60          |                 |      | 525           |     |
|   |                        | 1,5         | 85          |                     |                     |                                |                           | 1,41          |                 |      |               | 525 |









\*) Capacity measured acc. to EN ISO 1217:2009 and EN ISO 5167-2.  
\*\*) Noise level acc. to EN ISO 2151.

| Model   | Discharge overpressure | Capacity *) | Capacity *) | Nominal motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight  | Noise level **) |    |
|---|------------------------|-------------|-------------|---------------------|--------------------------------|---------------------------|---------|-----------------|----|
|   | MPa                    | m³/h        | m³/min      | kW                  | mm                             |                           | kg      | db(A)           |    |
| SCREW COMPRESSORS WITHOUT AIR RECEIVER - BELT DRIVE                                   |                        |             |             |                     |                                |                           |         |                 |    |
|    | Airpol 3               | 0,8         | 25          | 0,42                | 3                              | 1000x645x935              | G 1/2   | 270             | 70 |
|   |                        | 1,0         | 20          | 0,33                |                                |                           |         |                 |    |
|    | Airpol 4               | 0,8         | 34          | 0,57                | 4                              | 1000x645x935              | G 1/2   | 270             | 70 |
|   |                        | 1,0         | 28          | 0,47                |                                |                           |         |                 |    |
|   |                        | 1,3         | 22          | 0,37                |                                |                           |         |                 |    |
|    | Airpol 5               | 0,8         | 50          | 0,83                | 5,5                            | 940x660x1340              | G 1/2   | 280             | 70 |
|   |                        | 1,0         | 40          | 0,66                |                                |                           |         |                 |    |
|   |                        | 1,3         | 33          | 0,55                |                                |                           |         |                 |    |
|   |                        | 1,5         | 20          | 0,33                |                                |                           |         |                 |    |
|    | Airpol 7               | 0,8         | 68          | 1,13                | 7,5                            | 940x660x1340              | G 1/2   | 290             | 70 |
|   |                        | 1,0         | 57          | 0,95                |                                |                           |         |                 |    |
|   |                        | 1,3         | 47          | 0,78                |                                |                           |         |                 |    |
|   |                        | 1,5         | 35          | 0,58                |                                |                           |         |                 |    |
|   | Airpol 11              | 0,8         | 108         | 1,80                | 11                             | 940x660x1340              | G 1/2   | 320             | 70 |
|   |                        | 1,0         | 90          | 1,50                |                                |                           |         |                 |    |
|   |                        | 1,3         | 70          | 1,16                |                                |                           |         |                 |    |
|   |                        | 1,5         | 55          | 0,91                |                                |                           |         |                 |    |
|  | Airpol 15              | 0,8         | 150         | 2,50                | 15                             | 1100x720x1430             | G 3/4   | 400             | 70 |
|   |                        | 1,0         | 120         | 2,00                |                                |                           |         |                 |    |
|   |                        | 1,3         | 96          | 1,60                |                                |                           |         |                 |    |
|   |                        | 1,5         | 85          | 1,41                |                                |                           |         |                 |    |
|  | Airpol 18              | 0,8         | 190         | 3,16                | 18,5                           | 1100x720x1430             | G 3/4   | 420             | 70 |
|   |                        | 1,0         | 160         | 2,66                |                                |                           |         |                 |    |
|   |                        | 1,3         | 132         | 2,20                |                                |                           |         |                 |    |
|   |                        | 1,5         | 90          | 1,50                |                                |                           |         |                 |    |
|  | Airpol 22              | 0,8         | 220         | 3,66                | 22                             | 1100x720x1430             | G 3/4   | 480             | 70 |
|   |                        | 1,0         | 190         | 3,16                |                                |                           |         |                 |    |
|   |                        | 1,3         | 162         | 2,70                |                                |                           |         |                 |    |
|   |                        | 1,5         | 120         | 2,00                |                                |                           |         |                 |    |
|  | Airpol 30              | 0,75        | 320         | 5,33                | 30                             | 1000x1170x1470            | G 1 1/2 | 720             | 76 |
|   |                        | 1,0         | 265         | 4,41                |                                |                           |         |                 |    |
|   |                        | 1,3         | 200         | 3,33                |                                |                           |         |                 |    |
|   |                        | 1,5         | 190         | 3,17                |                                |                           |         |                 |    |
|  | Airpol 37              | 0,75        | 385         | 6,41                | 37                             | 1000x1170x1470            | G 1 1/2 | 760             | 76 |
|   |                        | 1,0         | 325         | 5,41                |                                |                           |         |                 |    |
|   |                        | 1,3         | 290         | 4,83                |                                |                           |         |                 |    |
|   |                        | 1,5         | 245         | 4,08                |                                |                           |         |                 |    |
|  | Airpol 45              | 0,75        | 465         | 7,75                | 45                             | 1060x1350x1570            | G 1 1/2 | 1100            | 76 |
|   |                        | 1,0         | 420         | 7,00                |                                |                           |         |                 |    |
|   |                        | 1,3         | 350         | 5,83                |                                |                           |         |                 |    |
|   |                        | 1,5         | 280         | 4,66                |                                |                           |         |                 |    |
|  | Airpol 55              | 0,75        | 595         | 9,91                | 55                             | 1060x1350x1570            | G 1 1/2 | 1140            | 76 |
|   |                        | 1,0         | 510         | 8,50                |                                |                           |         |                 |    |
|   |                        | 1,3         | 400         | 6,67                |                                |                           |         |                 |    |
|   |                        | 1,5         | 350         | 5,83                |                                |                           |         |                 |    |














| Model   | Discharge overpressure | Capacity *) | Capacity *) | Nominal motor power | Fan motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |    |
|---|------------------------|-------------|-------------|---------------------|-----------------|--------------------------------|---------------------------|--------|-----------------|----|
|   | MPa                    | m³/h        | m³/min      | kW                  | kW              | mm                             |                           | kg     | db(A)           |    |
| SCREW COMPRESSORS - DIRECT DRIVE  |                        |             |             |                     |                 |                                |                           |        |                 |    |
|    | Airpol NB 75           | 1,0         | 740         | 12,33               | 75              | 4,15                           | 2100x1230x1670            | G 2    | 1750            | 75 |
|    | Airpol NB 110          | 0,75        | 1155        | 19,25               | 110             | 5,5                            | 2670x1330x1800            | G 2    | 2400            | 83 |
|   |                        | 1,0         | 1015        | 16,92               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 850         | 14,16               |                 |                                |                           |        |                 |    |
|    | Airpol NB 132          | 0,75        | 1380        | 23,00               | 132             | 5,5                            | 3300x1600x1800            | G 2½   | 3350            | 83 |
|   |                        | 1,0         | 1235        | 20,58               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 995         | 16,58               |                 |                                |                           |        |                 |    |
|   | Airpol NB 160          | 0,75        | 1800        | 30,00               | 160             | 11                             | 3300x1600x1800            | G 2½   | 3600            | 83 |
|   |                        | 1,0         | 1475        | 24,58               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 1360        | 22,66               |                 |                                |                           |        |                 |    |
|  | Airpol NB 200          | 0,75        | 2080        | 34,66               | 200             | 15                             | 4000x1900x2180            | DN 100 | 5500            | 85 |
|   |                        | 1,0         | 1865        | 31,08               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 1570        | 26,16               |                 |                                |                           |        |                 |    |
|  | Airpol NB 250          | 0,75        | 2400        | 40,00               | 250             | 15                             | 4000x1900x2180            | DN 100 | 5700            | 85 |
|   |                        | 1,0         | 2160        | 36,00               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 1800        | 30,00               |                 |                                |                           |        |                 |    |
|  | Airpol NB 315          | 0,75        | 2990        | 49,83               | 315             | 22                             | 4000x1900x2180            | DN 100 | 6100            | 85 |
|   |                        | 1,0         | 2460        | 41,00               |                 |                                |                           |        |                 |    |
|   |                        | 1,3         | 2280        | 38,00               |                 |                                |                           |        |                 |    |

**NOTE:** for screw compressors with direct drive and 30–90 kW electric motor, the manufacturer offers extended, energy-saving version with a frequency converter (p. 22–23).






| Model   | Discharge overpressure | Capacity *) | Capacity *) | Nominal motor power | Air receiver volume | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |    |               |
|---|------------------------|-------------|-------------|---------------------|---------------------|--------------------------------|---------------------------|--------|-----------------|----|---------------|
|   | MPa                    | m³/h        | m³/min      | kW                  | L                   | mm                             |                           | kg     | db(A)           |    |               |
| SCREW COMPRESSORS WITH AIR DRYER AND COMPRESSED AIR FILTERS – BELT DRIVE              |                        |             |             |                     |                     |                                |                           |        |                 |    |               |
|    | Airpol KT 3            | 0,8         | 25          | 0,42                | 3                   | 240                            | 1430x660x1430             | G 1/2  | 310             | 70 |               |
|   |                        | 1,0         | 20          | 0,33                |                     |                                |                           |        |                 |    |               |
|    |                        | 0,8         | 25          | 0,42                |                     | 500                            |                           |        |                 |    | 1920x660x1530 |
|   |                        | 1,0         | 20          | 0,33                |                     |                                |                           |        |                 |    |               |
|    | Airpol KT 4            | 0,8         | 34          | 0,57                | 4                   | 240                            | 1430x660x1430             | G 1/2  | 310             | 70 |               |
|   |                        | 1,0         | 28          | 0,47                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,3         | 22          | 0,37                |                     | 500                            |                           |        |                 |    | 1920x660x1530 |
|   |                        | 0,8         | 34          | 0,57                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,0         | 28          | 0,47                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,3         | 22          | 0,37                |                     |                                |                           |        |                 |    |               |
|  | Airpol KT 5            | 0,8         | 50          | 0,83                | 5,5                 | 500                            | 1920x660x1520             | G 3/4  | 395             | 72 |               |
|   |                        | 1,0         | 40          | 0,66                |                     |                                |                           |        | 445             |    |               |
|   |                        | 1,3         | 33          | 0,55                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,5         | 20          | 0,33                |                     |                                |                           |        |                 |    |               |
|  | Airpol KT 7            | 0,8         | 68          | 1,13                | 7,5                 | 500                            | 1920x660x1520             | G 3/4  | 400             | 72 |               |
|   |                        | 1,0         | 57          | 0,95                |                     |                                |                           |        | 450             |    |               |
|   |                        | 1,3         | 47          | 0,78                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,5         | 35          | 0,58                |                     |                                |                           |        |                 |    |               |
|  | Airpol KT 11           | 0,8         | 108         | 1,80                | 11                  | 500                            | 1920x660x1520             | G 3/4  | 425             | 72 |               |
|   |                        | 1,0         | 90          | 1,50                |                     |                                |                           |        | 475             |    |               |
|   |                        | 1,3         | 70          | 1,16                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,5         | 55          | 0,91                |                     |                                |                           |        |                 |    |               |
|  | Airpol KT 15           | 0,8         | 150         | 2,50                | 15                  | 500                            | 1920x660x1600             | G 3/4  | 515             | 72 |               |
|   |                        | 1,0         | 120         | 2,00                |                     |                                |                           |        | 565             |    |               |
|   |                        | 1,3         | 96          | 1,60                |                     |                                |                           |        |                 |    |               |
|   |                        | 1,5         | 85          | 1,41                |                     |                                |                           |        |                 |    |               |

\*) Capacity measured acc. to EN ISO 1217:2009 and EN ISO 5167-2.  
\*\*) Noise level acc. to EN ISO 2151.  
In screw compressors Airpol KT and Airpol T series:  
- pressure dew point of the refrigeration air dryer: +3°C  
- 2.4.2 compressed air quality class, acc. to ISO 8573.1 (in standard version of screw compressors Airpol KT and Airpol T).  
On Customer request - possible individual compressor version, depending on the required air quality class.




| Model   | Discharge overpressure | Capacity *) | Capacity *) | Nominal motor power | Fan motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight  | Noise level **) |    |
|---|------------------------|-------------|-------------|---------------------|-----------------|--------------------------------|---------------------------|---------|-----------------|----|
|   | MPa                    | m³/h        | m³/min      | kW                  | kW              | mm                             |                           | kg      | db(A)           |    |
| SCREW COMPRESSORS WITH AIR DRYER AND COMPRESSED AIR FILTERS – BELT DRIVE            |                        |             |             |                     |                 |                                |                           |         |                 |    |
|    | Airpol T 3             | 0,8         | 25          | 0,42                | 3               | -                              | 650x1200x1380             | G 1/2   | 290             | 70 |
|   |                        | 1,0         | 20          | 0,33                |                 |                                |                           |         |                 |    |
|    | Airpol T 4             | 0,8         | 34          | 0,57                | 4               | -                              | 650x1200x1380             | G 1/2   | 290             | 70 |
|   |                        | 1,0         | 28          | 0,47                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 22          | 0,37                |                 |                                |                           |         |                 |    |
|    | Airpol T 5             | 0,8         | 50          | 0,83                | 5,5             | -                              | 940x660x1340              | G 1/2   | 300             | 70 |
|   |                        | 1,0         | 40          | 0,66                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 33          | 0,55                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 20          | 0,33                |                 |                                |                           |         |                 |    |
|    | Airpol T 7             | 0,8         | 68          | 1,13                | 7,5             | -                              | 940x660x1340              | G 1/2   | 310             | 70 |
|   |                        | 1,0         | 57          | 0,95                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 47          | 0,78                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 35          | 0,58                |                 |                                |                           |         |                 |    |
|   | Airpol T 11            | 0,8         | 108         | 1,80                | 11              | -                              | 940x660x1340              | G 1/2   | 360             | 70 |
|   |                        | 1,0         | 90          | 1,50                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 70          | 1,16                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 55          | 0,91                |                 |                                |                           |         |                 |    |
|  | Airpol T 15            | 0,8         | 150         | 2,50                | 15              | -                              | 1100x720x1430             | G 3/4   | 490             | 70 |
|   |                        | 1,0         | 120         | 2,00                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 96          | 1,60                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 85          | 1,41                |                 |                                |                           |         |                 |    |
|  | Airpol T 18            | 0,8         | 190         | 3,16                | 18,5            | -                              | 1100x720x1430             | G 3/4   | 530             | 70 |
|   |                        | 1,0         | 160         | 2,66                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 132         | 2,20                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 90          | 1,50                |                 |                                |                           |         |                 |    |
|  | Airpol T 22            | 0,8         | 220         | 3,66                | 22              | -                              | 1100x720x1430             | G 3/4   | 560             | 70 |
|   |                        | 1,0         | 190         | 3,16                |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 162         | 2,70                |                 |                                |                           |         |                 |    |
|   |                        | 1,5         | 120         | 2,00                |                 |                                |                           |         |                 |    |
| SCREW COMPRESSORS WITH AIR DRYER AND COMPRESSED AIR FILTERS – DIRECT DRIVE          |                        |             |             |                     |                 |                                |                           |         |                 |    |
|  | Airpol T 110           | 0,75        | 1155        | 19,25               | 110             | 3,0                            | 3750x1485x2130            | G 2     | 3530            | 83 |
|   |                        | 1,0         | 1015        | 16,92               |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 850         | 14,16               |                 |                                |                           |         |                 |    |
|  | Airpol T 132           | 0,75        | 1380        | 23,00               | 132             | 5,5                            | 4500x1600x1800            | G 2 1/2 | 4100            | 83 |
|   |                        | 1,0         | 1235        | 20,58               |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 995         | 16,58               |                 |                                |                           |         |                 |    |
|  | Airpol T 160           | 0,75        | 1800        | 30,00               | 160             | 11                             | 4500x1600x1800            | G 2 1/2 | 4200            | 83 |
|   |                        | 1,0         | 1475        | 24,58               |                 |                                |                           |         |                 |    |
|   |                        | 1,3         | 1360        | 22,66               |                 |                                |                           |         |                 |    |











NOTE: for screw compressors with air dryer, compressed air filters and 30–90 kW electric motor, the manufacturer offers extended, energy-saving version with a frequency converter (p. 25–26).

| Model   | Discharge overpressure | Capacity *) min-max | Capacity *) min-max | Nominal motor power | Air receiver volume | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |     |
|---|------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------|---------------------------|--------|-----------------|-----|
|   |                        |                     |                     |                     |                     |                                |                           |        |                 | MPa |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER – BELT DRIVE                               |                        |                     |                     |                     |                     |                                |                           |        |                 |     |
|    | Airpol KPR 5           | 0,8                 | 10 - 50             | 0,17 - 0,83         | 5,5                 | 500                            | 1920x660x1520             | G ¾    | 380             | 72  |
|   |                        | 1,0                 | 10 - 40             | 0,17 - 0,67         |                     |                                |                           |        |                 |     |
|   |                        | 1,3                 | 10 - 33             | 0,17 - 0,55         |                     |                                |                           |        |                 |     |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                     |                                |                           |        |                 |     |
|    | Airpol KPR 7           | 0,8                 | 17 - 68             | 0,28 - 1,13         | 7,5                 | 500                            | 1920x660x1520             | G ¾    | 390             | 72  |
|   |                        | 1,0                 | 17 - 57             | 0,28 - 0,95         |                     |                                |                           |        |                 |     |
|   |                        | 1,3                 | 15 - 47             | 0,25 - 0,78         |                     |                                |                           |        |                 |     |
|   |                        | 1,5                 | 13 - 35             | 0,22 - 0,58         |                     |                                |                           |        |                 |     |
|    | Airpol KPR 11          | 0,8                 | 17 - 108            | 0,28 - 1,80         | 11                  | 500                            | 1920x660x1520             | G ¾    | 415             | 72  |
|   |                        | 1,0                 | 17 - 90             | 0,28 - 1,50         |                     |                                |                           |        |                 |     |
|   |                        | 1,3                 | 17 - 70             | 0,28 - 1,17         |                     |                                |                           |        |                 |     |
|   |                        | 1,5                 | 14 - 55             | 0,23 - 0,92         |                     |                                |                           |        |                 |     |
|  | Airpol KPR 15          | 0,8                 | 52 - 150            | 0,87 - 2,50         | 15                  | 500                            | 1920x660x1600             | G ¾    | 490             | 72  |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                     |                                |                           |        |                 |     |
|   |                        | 1,3                 | 17 - 96             | 0,28 - 1,60         |                     |                                |                           |        |                 |     |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                     |                                |                           |        |                 |     |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER – DIRECT DRIVE                             |                        |                     |                     |                     |                     |                                |                           |        |                 |     |
|  | Airpol KPR D15         | 0,8                 | 52 - 150            | 0,87 - 2,50         | 15                  | 500                            | 1920x700x1644             | G ¾    | 500             | 72  |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                     |                                |                           |        |                 |     |






\*) Capacity measured acc. to EN ISO 1217:2009 and EN ISO 5167-2.  
\*\*) Noise level acc. to EN ISO 2151.  
In screw compressors Airpol KT, Airpol KTPR and Airpol T, Airpol PRT series:  
- pressure dew point of the refrigeration air dryer: +3°C  
- 2.4.2 compressed air quality class, acc. to ISO 8573.1 (in standard version of screw compressors KT and T).  
On Customer request - possible individual compressor version, depending on the required air quality class.



| Model   | Discharge overpressure | Capacity *) min-max | Capacity *) min-max | Nominal motor power | Fan motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight  | Noise level **) |    |
|---|------------------------|---------------------|---------------------|---------------------|-----------------|--------------------------------|---------------------------|---------|-----------------|----|
|   | MPa                    | m³/h                | m³/min              | kW                  | kW              | mm                             |                           | kg      | db(A)           |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER – BELT DRIVE                             |                        |                     |                     |                     |                 |                                |                           |         |                 |    |
|    | Airpol PR 5            | 0,8                 | 10 - 50             | 0,17 - 0,83         | 5,5             | -                              | 940x660x1340              | G 1/2   | 290             | 70 |
|   |                        | 1,0                 | 10 - 40             | 0,17 - 0,67         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 10 - 33             | 0,17 - 0,55         |                 |                                |                           |         |                 |    |
|   |                        | 1,5                 | 10 - 20             | 0,17 - 0,33         |                 |                                |                           |         |                 |    |
|    | Airpol PR 7            | 0,8                 | 17 - 68             | 0,28 - 1,13         | 7,5             | -                              | 940x660x1340              | G 1/2   | 300             | 70 |
|   |                        | 1,0                 | 17 - 57             | 0,28 - 0,95         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 15 - 47             | 0,25 - 0,78         |                 |                                |                           |         |                 |    |
|   |                        | 1,5                 | 13 - 35             | 0,22 - 0,58         |                 |                                |                           |         |                 |    |
|    | Airpol PR 11           | 0,8                 | 17 - 108            | 0,28 - 1,80         | 11              | -                              | 940x660x1340              | G 1/2   | 340             | 70 |
|   |                        | 1,0                 | 17 - 90             | 0,28 - 1,50         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 17 - 70             | 0,28 - 1,17         |                 |                                |                           |         |                 |    |
|   |                        | 1,5                 | 14 - 55             | 0,23 - 0,92         |                 |                                |                           |         |                 |    |
|  | Airpol PR 15           | 0,8                 | 52 - 150            | 0,87 - 2,50         | 15              | -                              | 1100x720x1430             | G 3/4   | 410             | 70 |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 17 - 96             | 0,28 - 1,60         |                 |                                |                           |         |                 |    |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                 |                                |                           |         |                 |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER – DIRECT DRIVE                           |                        |                     |                     |                     |                 |                                |                           |         |                 |    |
|  | Airpol PR 18           | 0,8                 | 55 - 190            | 0,92 - 3,17         | 18,5            | 0,64                           | 720x1300x1460             | G 3/4   | 440             | 70 |
|   |                        | 1,0                 | 55 - 160            | 0,92 - 2,67         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 50 - 132            | 0,83 - 2,20         |                 |                                |                           |         |                 |    |
|  | Airpol PR 22           | 0,8                 | 54 - 220            | 0,90 - 3,67         | 22              | 0,64                           | 720x1300x1460             | G 3/4   | 520             | 70 |
|   |                        | 1,0                 | 54 - 190            | 0,90 - 3,17         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 52 - 162            | 0,87 - 2,70         |                 |                                |                           |         |                 |    |
|  | Airpol PR 30           | 0,75                | 90 - 320            | 1,50 - 5,33         | 30              | 2,2                            | 1750x900x1450             | G 1 1/2 | 920             | 75 |
|   |                        | 1,0                 | 90 - 265            | 1,50 - 4,42         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 77 - 200            | 1,28 - 3,33         |                 |                                |                           |         |                 |    |
|  | Airpol PR 37           | 0,75                | 96 - 385            | 1,60 - 6,42         | 37              | 2,2                            | 1750x900x1450             | G 1 1/2 | 950             | 75 |
|   |                        | 1,0                 | 96 - 325            | 1,60 - 5,42         |                 |                                |                           |         |                 |    |
|   |                        | 1,3                 | 98 - 290            | 1,63 - 4,83         |                 |                                |                           |         |                 |    |

|   |               |      |             |               |     |      |                |         |      |    |
|---|---------------|------|-------------|---------------|-----|------|----------------|---------|------|----|
|    | Airpol PR 45  | 0,75 | 150 - 465   | 2,50 - 7,75   | 45  | 2,2  | 2000x1000x1640 | G 1 1/2 | 1200 | 75 |
|   |               | 1,0  | 150 - 420   | 2,50 - 7,00   |     |      |                |         |      |    |
|   |               | 1,3  | 120 - 350   | 2,00 - 5,83   |     |      |                |         |      |    |
|    | Airpol PR 55  | 0,75 | 154 - 595   | 2,57 - 9,92   | 55  | 2,2  | 2000x1000x1640 | G 1 1/2 | 1300 | 75 |
|   |               | 1,0  | 154 - 510   | 2,57 - 8,50   |     |      |                |         |      |    |
|   |               | 1,3  | 138 - 400   | 2,30 - 6,67   |     |      |                |         |      |    |
|    | Airpol PR 75  | 0,75 | 218 - 820   | 3,36 - 13,67  | 75  | 4,15 | 2100x1230x1670 | G 2     | 1800 | 75 |
|   |               | 1,0  | 218 - 740   | 3,36 - 12,33  |     |      |                |         |      |    |
|   |               | 1,3  | 212 - 565   | 3,53 - 9,42   |     |      |                |         |      |    |
|    | Airpol PR 90  | 0,75 | 276 - 975   | 4,60 - 16,25  | 90  | 4,15 | 2300x1330x1670 | G 2     | 1950 | 83 |
|   |               | 1,0  | 276 - 820   | 4,60 - 13,67  |     |      |                |         |      |    |
|   |               | 1,3  | 206 - 685   | 3,43 - 11,42  |     |      |                |         |      |    |
|    | Airpol PR 110 | 0,75 | 577 - 1155  | 9,62 - 19,25  | 110 | 3,0  | 2670x1330x1800 | G 2     | 2500 | 83 |
|   |               | 1,0  | 507 - 1015  | 8,45 - 16,92  |     |      |                |         |      |    |
|   |               | 1,3  | 425 - 850   | 7,10 - 14,17  |     |      |                |         |      |    |
|   | Airpol PR 132 | 0,75 | 690 - 1380  | 11,50 - 23,00 | 132 | 5,5  | 3300x1600x1800 | G 2 1/2 | 3430 | 83 |
|   |               | 1,0  | 618 - 1235  | 10,30 - 20,60 |     |      |                |         |      |    |
|   |               | 1,3  | 498 - 995   | 8,30 - 16,58  |     |      |                |         |      |    |
|  | Airpol PR 160 | 0,75 | 900 - 1800  | 15,00 - 30,00 | 160 | 11   | 3300x1600x1800 | G 2 1/2 | 3850 | 83 |
|   |               | 1,0  | 738 - 1475  | 12,25 - 24,58 |     |      |                |         |      |    |
|   |               | 1,3  | 680 - 1360  | 11,33 - 22,67 |     |      |                |         |      |    |
|  | Airpol PR 200 | 0,75 | 1040 - 2080 | 17,33 - 34,67 | 200 | 15   | 4000x2100x2200 | DN 100  | 5750 | 85 |
|   |               | 1,0  | 933 - 1865  | 15,55 - 31,10 |     |      |                |         |      |    |
|   |               | 1,3  | 785 - 1570  | 13,10 - 26,17 |     |      |                |         |      |    |
|  | Airpol PR 250 | 0,75 | 1200 - 2400 | 20,00 - 40,00 | 250 | 15   | 4000x2100x2200 | DN 100  | 5950 | 85 |
|   |               | 1,0  | 1080 - 2160 | 18,00 - 36,00 |     |      |                |         |      |    |
|   |               | 1,3  | 900 - 1800  | 15,00 - 30,00 |     |      |                |         |      |    |
|  | Airpol PR 315 | 0,75 | 1495 - 2990 | 24,92 - 49,83 | 315 | 22   | 4000x2200x2200 | DN 100  | 6350 | 85 |
|   |               | 1,0  | 1230 - 2460 | 20,50 - 41,00 |     |      |                |         |      |    |
|   |               | 1,3  | 1140 - 2280 | 19,00 - 38,00 |     |      |                |         |      |    |

\*) Capacity measured acc. to EN ISO 1217:2009 and EN ISO 5167-2.  
\*\*) Noise level acc. to EN ISO 2151.

| Model   | Discharge overpressure | Capacity *) min-max | Capacity *) min-max | Nominal motor power | Air receiver volume | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |    |
|---|------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------|---------------------------|--------|-----------------|----|
|   | MPa                    | m³/h                | m³/min              | kW                  | L                   | mm                             |                           | kg     | db(A)           |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER AND AIR DRYER – BELT DRIVE               |                        |                     |                     |                     |                     |                                |                           |        |                 |    |
|    | Airpol KT PR5          | 0,8                 | 10 - 50             | 0,17 - 0,83         | 5,5                 | 500                            | 1920x660x1520             | G ¾    | 415             | 72 |
|   |                        | 1,0                 | 10 - 40             | 0,17 - 0,67         |                     |                                |                           |        |                 |    |
|   |                        | 1,3                 | 10 - 33             | 0,17 - 0,55         |                     |                                |                           |        |                 |    |
|   |                        | 1,5                 | 10 - 20             | 0,17 - 0,33         |                     |                                |                           |        |                 |    |
|    | Airpol KT PR7          | 0,8                 | 17 - 68             | 0,28 - 1,13         | 7,5                 | 500                            | 1920x660x1520             | G ¾    | 425             | 72 |
|   |                        | 1,0                 | 17 - 57             | 0,28 - 0,95         |                     |                                |                           |        |                 |    |
|   |                        | 1,3                 | 15 - 47             | 0,25 - 0,78         |                     |                                |                           |        |                 |    |
|   |                        | 1,5                 | 13 - 35             | 0,22 - 0,58         |                     |                                |                           |        |                 |    |
|   | Airpol KT PR11         | 0,8                 | 17 - 108            | 0,28 - 1,80         | 11                  | 500                            | 1920x660x1520             | G ¾    | 445             | 72 |
|   |                        | 1,0                 | 17 - 90             | 0,28 - 1,50         |                     |                                |                           |        |                 |    |
|   |                        | 1,3                 | 17 - 70             | 0,28 - 1,17         |                     |                                |                           |        |                 |    |
|   |                        | 1,5                 | 14 - 55             | 0,23 - 0,92         |                     |                                |                           |        |                 |    |
|  | Airpol KT PR15         | 0,8                 | 52 - 150            | 0,87 - 2,50         | 15                  | 500                            | 1920x660x1600             | G ¾    | 535             | 72 |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                     |                                |                           |        |                 |    |
|   |                        | 1,3                 | 17 - 96             | 0,28 - 1,60         |                     |                                |                           |        |                 |    |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                     |                                |                           |        |                 |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER AND AIR DRYER – DIRECT DRIVE             |                        |                     |                     |                     |                     |                                |                           |        |                 |    |
|  | Airpol KTPR D15        | 0,8                 | 542 - 150           | 0,87 - 2,50         | 15                  | 500                            | 1920x700x1644             | G ¾    | 540             | 75 |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                     |                                |                           |        | 540             |    |

\*) Capacity measured acc. to EN ISO 1217:2009 and EN ISO 5167-2.







\*\*) Noise level acc. to EN ISO 2151.

In screw compressors Airpol KTPR and Airpol PRT series:








- pressure dew point of the refrigeration air dryer: +3°C

- 2.4.2 compressed air quality class, acc. to ISO 8573.1 (in standard version of screw compressors KTPR and PRT).

On Customer request - possible individual compressor version, depending on the required air quality class.

| Model   | Discharge overpressure | Capacity *) min-max | Capacity *) min-max | Nominal motor power | Fan motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |    |
|---|------------------------|---------------------|---------------------|---------------------|-----------------|--------------------------------|---------------------------|--------|-----------------|----|
|   | MPa                    | m³/h                | m³/min              | kW                  | kW              | mm                             |                           | kg     | db(A)           |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER AND AIR DRYER – BELT DRIVE                 |                        |                     |                     |                     |                 |                                |                           |        |                 |    |
|    | Airpol PRT 5           | 0,8                 | 10 - 50             | 0,17 - 0,83         | 5,5             | -                              | 940x600x1340              | G ½    | 300             | 70 |
|   |                        | 1,0                 | 10 - 40             | 0,17 - 0,67         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 10 - 33             | 0,17 - 0,55         |                 |                                |                           |        |                 |    |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                 |                                |                           |        |                 |    |
|    | Airpol PRT 7           | 0,8                 | 17 - 68             | 0,28 - 1,13         | 7,5             | -                              | 940x660x1340              | G ½    | 310             | 70 |
|   |                        | 1,0                 | 17 - 57             | 0,28 - 0,95         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 15 - 47             | 0,25 - 0,78         |                 |                                |                           |        |                 |    |
|   |                        | 1,5                 | 13 - 35             | 0,22 - 0,58         |                 |                                |                           |        |                 |    |
|   | Airpol PRT 11          | 0,8                 | 17 - 108            | 0,28 - 1,80         | 11              | -                              | 940x660x1340              | G ½    | 380             | 70 |
|   |                        | 1,0                 | 17 - 90             | 0,28 - 1,50         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 17 - 70             | 0,28 - 1,17         |                 |                                |                           |        |                 |    |
|   |                        | 1,5                 | 14 - 55             | 0,23 - 0,92         |                 |                                |                           |        |                 |    |
|  | Airpol PRT 15          | 0,8                 | 52 - 150            | 0,87 - 2,50         | 15              | -                              | 1100x720x1430             | G ¾    | 510             | 70 |
|   |                        | 1,0                 | 52 - 120            | 0,87 - 2,00         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 17 - 96             | 0,28 - 1,60         |                 |                                |                           |        |                 |    |
|   |                        | 1,5                 | 17 - 85             | 0,28 - 1,42         |                 |                                |                           |        |                 |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER AND AIR DRYER – DIRECT DRIVE               |                        |                     |                     |                     |                 |                                |                           |        |                 |    |
|  | Airpol PRT 18          | 0,8                 | 55 - 190            | 0,92 - 3,17         | 18,5            | 0,64                           | 720x1300x1460             | G ¾    | 560             | 70 |
|   |                        | 1,0                 | 55 - 160            | 0,92 - 2,67         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 50 - 132            | 0,83 - 2,20         |                 |                                |                           |        |                 |    |
|  | Airpol PRT 22          | 0,8                 | 54 - 220            | 0,90 - 3,67         | 22              | 0,64                           | 720x1300x1460             | G ¾    | 595             | 70 |
|   |                        | 1,0                 | 54 - 190            | 0,90 - 3,17         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 52 - 162            | 0,87 - 2,70         |                 |                                |                           |        |                 |    |
|  | Airpol PRT 30          | 0,75                | 90 - 320            | 1,50 - 5,33         | 30              | 2,2                            | 2330x900x1460             | G 1½   | 1250            | 75 |
|   |                        | 1,0                 | 90 - 265            | 1,50 - 4,42         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 77 - 200            | 1,28 - 3,33         |                 |                                |                           |        |                 |    |
|  | Airpol PRT 37          | 0,75                | 96 - 385            | 1,60 - 6,42         | 37              | 2,2                            | 2330x900x1460             | G 1½   | 1290            | 75 |
|   |                        | 1,0                 | 96 - 325            | 1,60 - 5,42         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 98 - 290            | 1,63 - 4,83         |                 |                                |                           |        |                 |    |



| Model   | Discharge overpressure | Capacity *) min-max | Capacity *) min-max | Nominal motor power | Fan motor power | Overall dimensions (L x D x H) | Compressed air connection | Weight | Noise level **) |    |
|---|------------------------|---------------------|---------------------|---------------------|-----------------|--------------------------------|---------------------------|--------|-----------------|----|
|   | MPa                    | m³/h                | m³/min              | kW                  | kW              | mm                             |                           | kg     | db(A)           |    |
| SCREW COMPRESSORS WITH FREQUENCY CONVERTER AND AIR DRYER – DIRECT DRIVE             |                        |                     |                     |                     |                 |                                |                           |        |                 |    |
|    | Airpol PRT45           | 0,75                | 150 - 465           | 2,50 - 7,75         | 45              | 2,2                            | 2530x1000x1640            | G 1½   | 1400            | 75 |
|   |                        | 1,0                 | 150 - 420           | 2,50 - 7,00         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 120 - 350           | 2,00 - 5,83         |                 |                                |                           |        |                 |    |
|    | Airpol PRT 55          | 0,75                | 154 - 595           | 2,57 - 9,92         | 55              | 2,2                            | 2530x1000x1640            | G 1½   | 1500            | 75 |
|   |                        | 1,0                 | 154 - 510           | 2,57 - 8,50         |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 138 - 400           | 2,30 - 6,67         |                 |                                |                           |        |                 |    |
|    | Airpol PRT 75          | 0,75                | 218 - 820           | 3,36 - 13,67        | 75              | 4,15                           | 2850x1230x1670            | G 2    | 2200            | 75 |
|   |                        | 1,0                 | 218 - 740           | 3,36 - 12,33        |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 212 - 565           | 3,53 - 9,42         |                 |                                |                           |        |                 |    |
|   | Airpol PRT 90          | 0,75                | 276 - 975           | 4,60 - 16,25        | 90              | 4,15                           | 3750x1485x2130            | G 2    | 3000            | 83 |
|   |                        | 1,0                 | 276 - 820           | 4,60 - 13,67        |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 206 - 685           | 3,43 - 11,42        |                 |                                |                           |        |                 |    |
|  | Airpol PRT 110         | 0,75                | 577 - 1155          | 9,62 - 19,25        | 110             | 3,0                            | 3750x1485x2130            | G 2    | 3800            | 83 |
|   |                        | 1,0                 | 507 - 1015          | 8,45 - 16,92        |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 425 - 850           | 7,10 - 14,17        |                 |                                |                           |        |                 |    |
|  | Airpol PRT 132         | 0,75                | 690 - 1380          | 11,50 - 23,00       | 132             | 5,5                            | 4500x1600x1800            | G 2½   | 4200            | 83 |
|   |                        | 1,0                 | 618 - 1235          | 10,30 - 20,60       |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 498 - 995           | 8,30 - 16,58        |                 |                                |                           |        |                 |    |
|  | Airpol PRT 160         | 0,75                | 900 - 1800          | 15,00 - 30,00       | 160             | 11                             | 4500x1600x1800            | G 2½   | 4500            | 83 |
|   |                        | 1,0                 | 738 - 1475          | 12,25 - 24,58       |                 |                                |                           |        |                 |    |
|   |                        | 1,3                 | 680 - 1360          | 11,33 - 22,67       |                 |                                |                           |        |                 |    |

# Airpol

Airpol Ltd. is the largest Polish manufacturer of compressors, delivering modern and efficient compressed air production and treatment systems. We offer a complete service from design to turnkey compressor room and adapt our products to meet individual customer's requirements.

The company was established in 1991, after restructuring a factory with over 30 years of tradition in compressors manufacturing. At present it employs nearly 150 people, including the experienced team of engineers and technicians who continuously improves our products, develops innovative design solutions and offers extensive help in development of individual energy-saving solutions.

Over 60 years of experience in the compressor industry led to extending our offer with our own air ends, designed and manufactured with the highest precision using the latest technology.

The detailed quality control at every stage of the production process gives the certainty of selecting the products with the highest quality and utility features.

Many years of experience in compressors production, high quality product and wide company's offer together with an individual approach to every customer has ensured the company a strong competitor position in the compressor industry both on the Polish and foreign market.



Screw air ends  
ASU  
with optimized  
rotors profile

WE OFFER

- oil-free and oil-injected screw compressors
- oil lubricated and oil-free reciprocating compressors for air and other gases
- scroll compressors
- screw air ends
- blowers
- air receivers
- adsorption dryers
- refrigeration dryers
- nitrogen generators
- container compressor stations
- compressed air treatment systems (filters, dryers, water separators, oil water separators)
- compressed air installations
- permanent service support of compressors (through factory service in Poznan, Elk, Rzeszow and Gliwice and developed network of authorised service centres)



The manufacturer reserves the right to make changes and/or improvements in designs and dimensions without notice and without incurring obligation.





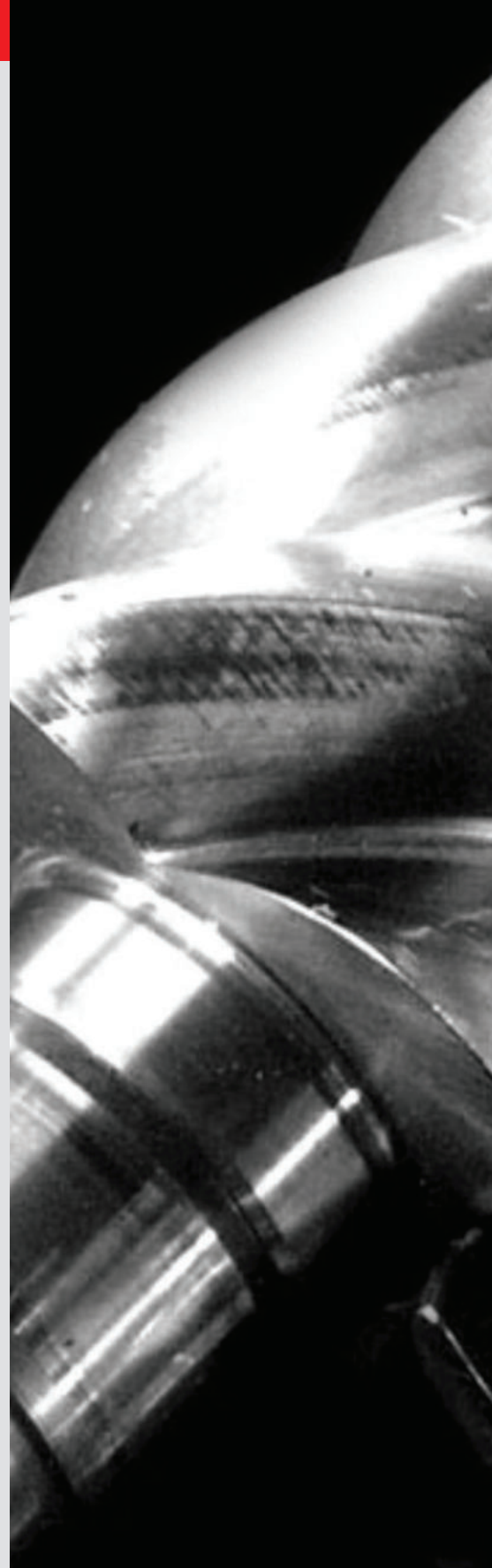
# **Airpol**

COMPRESSORS Ltd.

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