

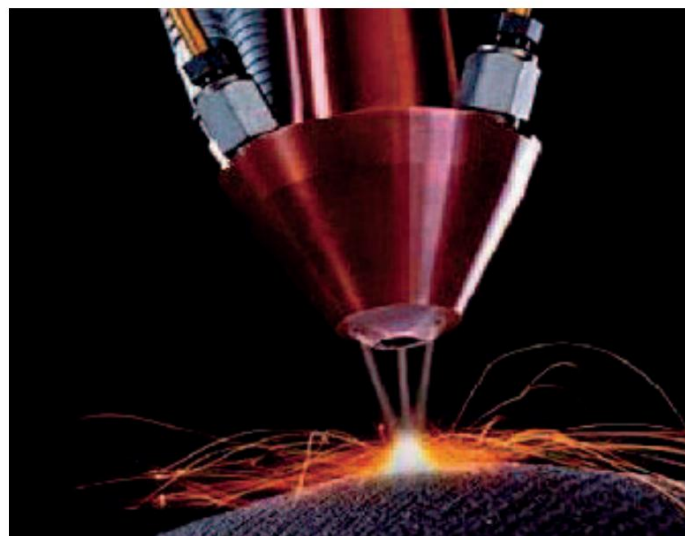
Absorption dryer series CXS - FSX - HSX



**Javac the affordable
alternative in quality**

Pure compressed air

With the development of the modern high-end intelligent application of compressed air, the need for high-quality compressed air is in sharply increasing demand. To increase the control process of intelligent applications, due to increasing automation in industry, agri, petrochemicals, pharmaceuticals, aviation, electric vehicles, etc., the demand is high for reliable compressed air treatment equipment to reduce operating costs, but also especially to positively influence the lifespan of all compressed air-related machines and the various peripheral equipment. Objective : increase production and reduce costs. To meet this demand, there is a need for professional technology and equipment to achieve (ultra) pure compressed air practically free of any contamination. Even when using conventional oil-lubricated compressors.



- » Water vapor
- » Condensation
- » Fog formation



- » Atmospheric influence
- » Rust formation
- » Contamination of the compressed air line



- » Oil contamination
- » Oil mist formation



- » Microorganisms



When determining air quality, you must clearly consider the consequences of an investment in air treatment, the impact on costs, including the maintenance and service of your dryers.

Before purchasing a dryer, a clear checklist is necessary. An absorption dryer will be decisive for

the quality of your compressed air, but also the impact on the cost of maintenance. Let Javac be your partner in making the right choice. Our extensive range and excellent after-sales service provide the best solution for high-quality compressed air. Modern production technologies place high demands on treated compressed air to ensure stable production quality.

Javac absorption dryer

By using a high-quality adsorbent sieve with a low ratio between the static and dynamic adsorption capacity, this results in an increased drying process. This process is controlled by means of a sophisticated time control system. Our absorption dryers realize an absolute absorption and regeneration of the drying granules, which improves the performance

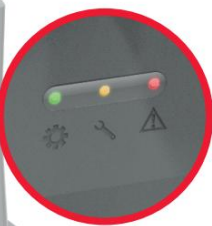
significantly better than other suppliers. Our dryers are also equipped with a series of high-quality pre- and post-filters (4). The digital dew point display allows you to monitor the operation of the dryer in real time. All together this results in a thorough quality concept. Result: consistent and stable clean and dry compressed air.



Work status monitoring

Simple and clear working status indication with the following functions:

- » Normal work instruction
- » Maintenance reminder instruction
- » Maintenance or fault alarm indication



Industrial design

Simple and clean design works interactively with compressor



Easy to install and maintenance-friendly Connection to compressor optionally left or right. Filters and drying granules are very accessible and guarantee a fast cost-saving maintenance intervention

Exceptional performance

Choice of dew point -20 -40 and -70 C°, in combination with the necessary hydrogen and oil filters

Supplied complete Our absorption dryers are equipped with all options as standard. Our view says that performance and quality take precedence over pricing. Finally, our total product is attractive in terms of pricing

Anti-rust treatment

The two chambers are treated on the inside with an anti-rust coating, so that the drying granules cannot be contaminated by any rust formation

High quality/price ratio

Superior quality of the dryers and its components leads to sustainable use and significantly reduces maintenance costs

Universally applicable

Our absorption dryers can be used universally regardless of the flow rate, oil-lubricated or oil-free compressors, and for every discipline, and in operating pressures from 4 to 16 bar



Dew point screen (not available on -20C° versions)

A digital readout of the dew point in real time gives users greater assurance that the dryer is operating at its best

Controller TIPX (only on the FXS and HSX version)

Interactive controller that limits the operation of the absorption dryer in function of the actual compressed air consumption, saving you up to 80% compressed air on the regeneration process

Superior quality of the drying granules

The molecular sieve has a very long service life and guarantees superior and dry compressed air. We recommend replacing the drying granules annually

Advanced coating of dryer and filters

High-quality and double-applied anti-corrosion coating based on an epoxy resin guarantees that this dryer will not be affected in a very aggressive environment (chemicals, agro sector, dusty environment, etc.)

Silent operation

The noise nuisance is limited to 70 dBa at zero meters, the silencer is located at the bottom of the dryer, so that the nuisance of the cooling air is reduced to a minimum

Interactive connection with the compressor

All absorption dryers are equipped with the necessary communication options to interact with the compressor, including an on/off contact, an induction contact, and on the FXS and HSX versions a communication port 485. As soon as the compressed air demand stops, the dryer goes into waiting mode and resumes its function at the same level thanks to its internal memory



Complete version

Our absorption dryers are standard equipped with 4 filters, which can be mounted in 4 positions. This set consists of: a water pre-filter, a high-efficiency particulate filter, an oil particulate filter (input) and finally a high-efficiency particulate filter (output). These filters are securely mounted and anchored to the dryer. The whole of filters and ditto pipes are extremely sturdy, so that breakage or air leaks are practically excluded.

This set of extra filters results in optimum air quality. The contamination of the compressed air with oil and dust particles is reduced to less than 0.01 ppm



Technical specifications

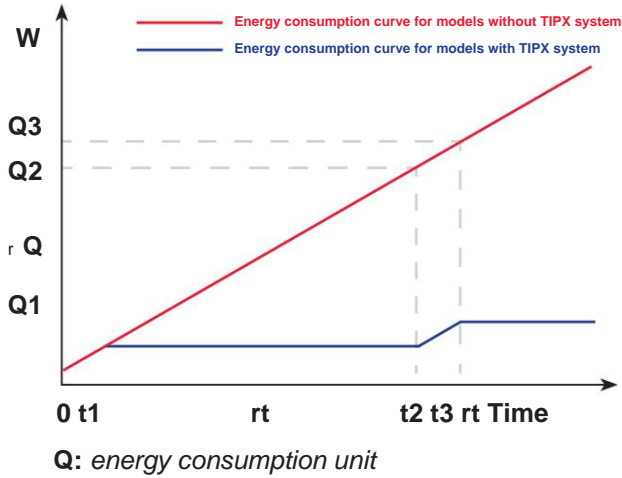
| | | | |
|------------------------|----------------------|------------------------|---------------|
| max. Inlet temperature | 50°C | Min. Inlet temperature | 2°C |
| Ambient temp. | 2-45°C | Noise load | 70 dBa |
| max. Workload | 10 bars | Min. Workload | 4 bars |
| Power supply | 230 volts AC50/50 Hz | Assets | 50W |
| Pressure dew point | -20°C/-40°C/-70°C | Pressure drop | Drop 0.14 bar |

| Execution configuration | | | | | | | | | |
|-------------------------|--------------------|------------------|----------------|-------------------|------|-----------------|-----------------------------------|-----------------------------|-----------------------|
| Fashion model | Interactive signal | | Super silencer | Dew point display | TIPX | Water separator | Precision Particle remover filter | Precision Oil Remove Filter | Precision dust filter |
| | Direct entry | Current inductor | | | | | | | |
| CFX0035 | ÿ | ÿ | ÿ | - | - | S(0003) | O(0003) | A(0003) | RA(0003) |
| CFX0060 | ÿ | ÿ | ÿ | - | - | S(0006) | O(0006) | A(0006) | RA(0006) |
| CFX0095 | ÿ | ÿ | ÿ | - | - | S(0012) | O(0012) | A(0012) | RA(0012) |
| FXS0115 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0015) | O(0015) | A(0015) | RA(0015) |
| FXS0165 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0020) | O(0020) | A(0020) | RA(0020) |
| FXS0200 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0028) | O(0028) | A(0028) | RA(0028) |
| FXS0230 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0028) | O(0028) | A(0028) | RA(0028) |
| FXS0330 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0036) | O(0036) | A(0036) | RA(0036) |
| FXS0400 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0048) | O(0048) | A(0048) | RA(0048) |
| FXS0510 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0060) | O(0060) | A(0060) | RA(0060) |
| FXS0620 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0075) | O(0075) | A(0075) | RA(0075) |
| FXS0680 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0075) | O(0075) | A(0075) | RA(0075) |
| HSX0080 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0015) | O(0015) | A(0015) | RA(0015) |
| HSX0115 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0020) | O(0020) | A(0020) | RA(0020) |
| HSX0140 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0028) | O(0028) | A(0028) | RA(0028) |
| HSX0160 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0028) | O(0028) | A(0028) | RA(0028) |
| HSX0230 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0036) | O(0036) | A(0036) | RA(0036) |
| HSX0280 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0048) | O(0048) | A(0048) | RA(0048) |
| HSX0355 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0060) | O(0060) | A(0060) | RA(0060) |
| HSX0420 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0075) | O(0075) | A(0075) | RA(0075) |
| HSX0450 | ÿ | ÿ | ÿ | ÿ | ÿ | S(0075) | O(0075) | A(0075) | RA(0075) |

Dimensions

| Fashion model | Processing capacity @ 7bar, 35°C m³/min | | | Dimensions (mm) | | | | | | | | At closure | Weight (kg) |
|---------------|--|-------|-------|-----------------|-----|-----|-----|-----|-----|-----|------|------------|-------------|
| | -20°C | -40°C | -70°C | a | B | C | D | E | F | G | H | | |
| CXS0035 | 0.35 | | | 568.5 | 320 | 184 | 246 | 445 | 156 | 296 | \ | G1/2 | 2.50 pm |
| CXS0060 | 0.60 | | | 728.5 | 320 | 184 | 246 | 445 | 156 | 296 | \ | G1/2 | 8.00 pm |
| CXS0095 | 0.95 | | | 908.5 | 320 | 184 | 246 | 445 | 156 | 296 | \ | G1/2 | 26.50 |
| CXS0125 | 1.25 | | | 735 | 415 | 450 | 410 | 355 | 200 | 320 | 680 | G3/4 | 56.40 |
| CXS0180 | 1.8 | | | 885 | 415 | 450 | 480 | 355 | 200 | 320 | 835 | G3/4 | 63.20 |
| CXS0220 | 2.2 | | | 995 | 425 | 450 | 500 | 365 | 200 | 320 | 940 | G1" | 71.00 |
| CXS0250 | 2.5 | | | 1085 | 500 | 475 | 530 | 410 | 200 | 320 | 1030 | G1" | 76.50 |
| CXS0360 | 3.6 | | | 790 | 725 | 535 | 545 | \ | 240 | 295 | 655 | G1 1/4" | 116.00 |
| CXS0440 | 4.4 | | | 900 | 725 | 535 | 545 | \ | 240 | 295 | 765 | G1 1/4" | 133.70 |
| CXS0560 | 5.6 | | | 790 | 910 | 535 | 650 | \ | 400 | 295 | 655 | G1 1/2" | 157.10 |
| CXS0750 | 7.5 | | | 900 | 910 | 535 | 650 | \ | 400 | 295 | 765 | G1 1/2" | 203.70 |
| FXS0115 | | 1.15 | | 735 | 415 | 450 | 410 | 355 | 200 | 320 | 680 | G3/4 | 56.40 |
| FXS0165 | | 1.65 | | 885 | 415 | 450 | 480 | 355 | 200 | 320 | 835 | G3/4 | 63.20 |
| FXS0200 | | 2.20 | | 995 | 425 | 450 | 500 | 365 | 200 | 320 | 940 | G1" | 71.00 |
| FXS0230 | | 2.30 | | 1085 | 500 | 475 | 530 | 410 | 200 | 320 | 1030 | G1" | 76.50 |
| FXS0330 | | 3.30 | | 790 | 725 | 535 | 545 | \ | 240 | 295 | 655 | G1 1/4" | 116.00 |
| FXS0400 | | 4.00 | | 900 | 725 | 535 | 545 | \ | 240 | 295 | 765 | G1 1/4" | 133.70 |
| FXS0510 | | 5.10 | | 790 | 910 | 535 | 650 | \ | 400 | 295 | 655 | G1 1/2" | 157.10 |
| FXS0680 | | 6.80 | | 900 | 910 | 535 | 650 | \ | 400 | 295 | 765 | G1 1/2" | 203.70 |
| FXS0080 | | | 0.80 | 735 | 415 | 450 | 410 | 355 | 200 | 320 | 680 | G3/4 | 56.40 |
| HSX0115 | | | 1.15 | 885 | 415 | 450 | 480 | 355 | 200 | 320 | 835 | G3/4 | 63.20 |
| HSX0140 | | | 1.40 | 995 | 425 | 450 | 500 | 365 | 200 | 320 | 940 | G1" | 71.00 |
| HSX0160 | | | 1.60 | 1085 | 500 | 475 | 530 | 410 | 200 | 320 | 1030 | G1" | 76.50 |
| HSX0230 | | | 2.30 | 790 | 725 | 535 | 545 | \ | 240 | 295 | 655 | G1 1/4" | 116.00 |
| HSX0280 | | | 2.80 | 900 | 725 | 535 | 545 | \ | 240 | 295 | 765 | G1 1/4" | 133.70 |
| HSX0355 | | | 3.55 | 790 | 910 | 535 | 650 | \ | 400 | 295 | 655 | G1 1/2" | 157.10 |
| HSX0450 | | | 4.50 | 900 | 910 | 535 | 650 | \ | 400 | 295 | 765 | G1 1/2" | 203.70 |

TIPX control system



The TIPX control system monitors the dew point in real time, and controls the operation of the dryer, significantly extending the absorption time and saving on the regeneration compressed air required to dry the molecular granules. As such, the patented TIPX control system saves up to 80% on the energy required compared to a conventional absorption dryer.

Temperature Correction Factor (CFT)

| | | | | | | | |
|------------------------|-----|----|----|----|------|------|------|
| max. Inlet temperature | °C | 25 | 30 | 35 | 40 | 45 | 50 |
| | CFT | 1 | 1 | 1 | 0.97 | 0.88 | 0.73 |

Working pressure correction factor (CAD)

| | | | | | | | | | | | | | | |
|------------------------------|-----|------|------|------|------|------|------|----|------|------|------|------|------|------|
| Minimum compressed air press | Bar | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | CFP | 0.30 | 0.36 | 0.42 | 0.47 | 0.54 | 0.59 | | 0.65 | 0.71 | 0.77 | 0.83 | 0.88 | 0.94 |

Inlet Flow Rate: $\frac{\text{compressed air flow rate}}{\text{CFT} \times \text{CAD}}$ (capacity) = the minimum capacity below which the dryer must comply

