positive displacement

CATALOG
#1

STATIONARY
Screw Compressors
D-series

Index

Design features of screw compressors

version (D)
standard version
on base frame

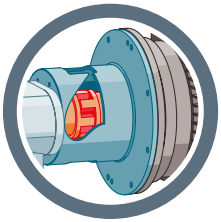
Space-saving design.

All other components of the compressed air system can be selected as required.

D-SERIES COMPRESSORS WITH 1:1 DIRECT DRIVE

Comprag D-Series direct drive air compressors are designed for applications where durability, efficiency and reliability are essential.

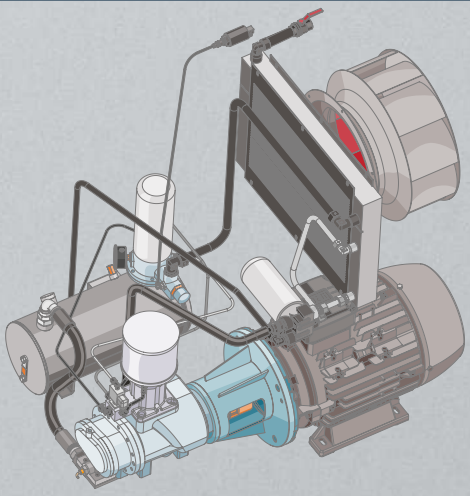
D-Series compressors are fitted with a large screw unit with direct one-to-one drive in order to avoid loss through belt- or gear drives.



DIRECT DRIVE ADVANTAGES

Direct driven air compressors are typically compared with belt driven compressors when choosing the right equipment for an application.

In a direct drive compressor, the motor is connected with the air-end by a flexible coupling and transferring power directly and effectively. In contrast to a belt driven compressor, where a belt is adapted for the power transmission, a direct driven compressor operates more efficiently, with no power loss from a belt drive system. In addition, a direct drive compressor has fewer moving parts, is less subject to failure and possesses long operational life due to reduced wear and tear.



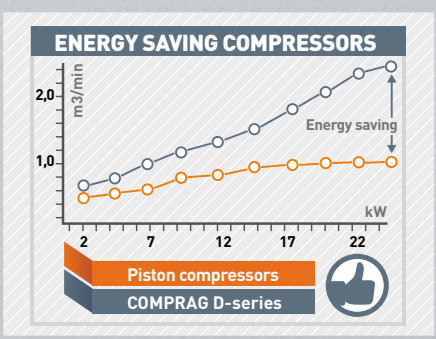
- FEWER MOVING PARTS
- LESS WEAR & TEAR
- MORE EFFICIENT
- REDUCES ENERGY COSTS

SCREW COMPRESSORS D-SERIES WIDTH DIRECT DRIVE 1:1
with drive power 11-15 kW, capacity up to 2,3 m³/min

D-Series are oil filled screw compressors designed for smooth and economical production of compressed air in industrial plants. They feature a compact, logically laid-out design and are simple to use.

version (D)

Features:



- Modern, energy-efficient air-end.
- Microprocessor controlled for optimal cost-effective compressor operation.
- Through intelligent design of all key components, internal pressure losses are kept to a minimum, resulting in noticeable savings in total energy consumption.
- Through the use of an effective oil separation system, a residual oil content in compressed air of maximum 3 mg/m³ is attained.
- i-Log controller for more setting and control options a group mode control via several i-Log controllers and connection to a higher-level master controller or a control room via MODBUS.
- All filters and separators are easy to reach for economical service.

Screw compressors offer significant energy savings in the 7.5 kW to 22 kW motor power range of compressors when compared to piston compressors. For the same electrical power consumption, the specific cost per cubic meter of compressed air is significantly lower when using D-Series compressors.

Design and technical characteristics

D-Series screw oil-filled compressors produce industrial compressed air, up to class 4-4-4 to ISO 8573-1:2010.

New compressor design: Professional controller (A), Reliable electric motor (B), Screw air-end (C), Oil separator tank (D) and Comprag made control valves (E).

Professional controller i-Log (A)

The professional controller **i-Log** controls operation of the compressor in automatic mode, and also provides the user with necessary information on the working pressure, temperature of the air oil mixture, compressor's operation time, need for servicing, etc.

The professional controller allows a group mode control via several **i-Log** controllers and connection to a higher-level master controller or a control room via MODBUS.

Reliable electric motor (B)

D-Series compressors are fitted with quality electric motors with a high efficiency coefficient and world-class bearings from leading manufacturers.

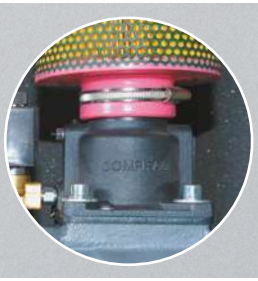
The motors are not overloaded, but have a power reserve and overheat protection for windings.

Screw air-end (C)

The air-end has a contemporary energy-efficient screw shape.

This increases compressor efficiency and reduces maintenance and replacement costs.

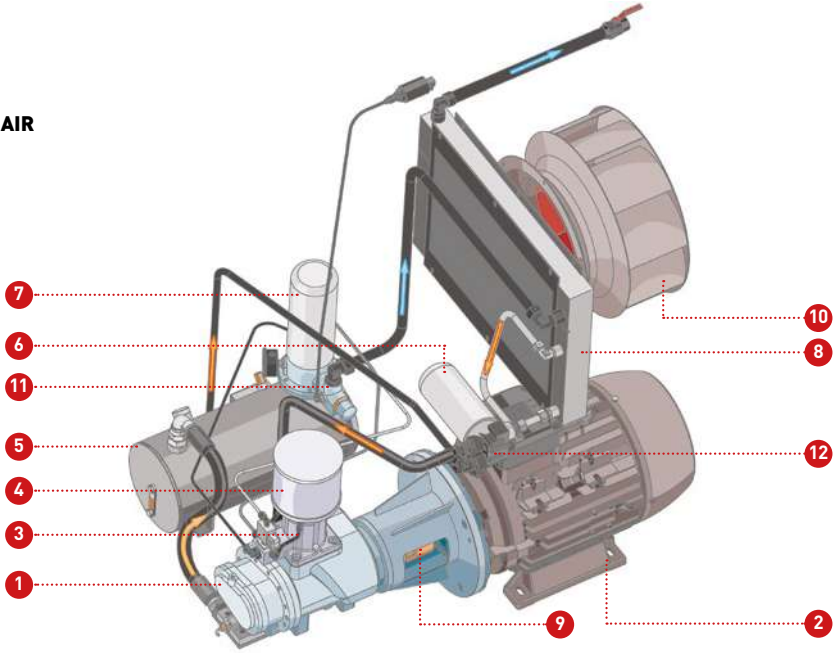
Control valve (E)



Comprag made control valves. Minimum pressure loss, improved unloading time adjustment.

Flow chart of compressor

-OIL
-OIL+AIR
-AIR



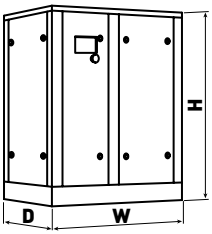
1. Screw air-end
2. Electric motor
3. Air intake valve
4. Air filter
5. Separation vessel
6. Spin-On oil filter
7. Internal separator
8. Heat exchanger
9. Coupling
10. Cooling Fan
11. Minimum pressure valve
12. Thermostatic valve

Table of models D-Series

Article	Model	Drive power (kW)	Max. working pressure (bar)	Capacity* (m^3/min)	Rated voltage (phase/V/Hz)	Sound pressure level** dB(A)	Screw connection
11300021	D-1108	11	8	1,5	3/380-420/50	72	1/2"
11300022	D-1110		10	1,3		72	
11300031	D-1508	15	8	2,3	3/380-420/50	72	1/2"
11300032	D-1510		10	2,1		72	

* Measured according to ISO 1217; ** Measured according to ISO 3744

Dimensions D-Series



Model	Height H (mm)	Width W (mm)	Depth D (mm)	Weight (kg)
D-11	1280	1190	810	400
D-15	1280	1190	810	420

SCREW COMPRESSORS D-SERIES WIDTH DIRECT DRIVE 1:1

with drive power 18-22 kW, capacity up to 3,6 m³/min

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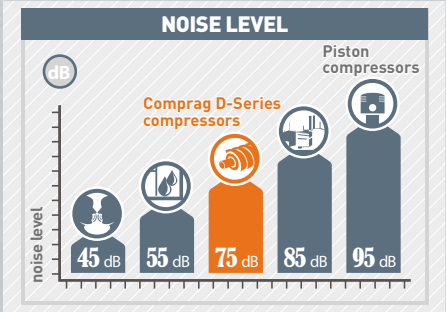
version (D)

Features:



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- Through the use of an effective oil separation system, a residual oil content in compressed air of maximum 3 mg/m³ is attained.
- i-Log controller for more setting and control options a group mode control via several i-Log controllers and connection to a higher-level master controller or a control room via MODBUS.
- All filters and separators are easy to reach for economical service.

Comprag D-Series compressors are noise-and vibration-insulated and can be installed in any industrial premises in close proximity to the consumer. This eliminates the need to install costly noise insulation and to run long compressed air lines, thereby reducing pressure losses and increasing system efficiency.

Design and technical characteristics

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D-Series compressors are fitted with quality electric motors with a high efficiency coefficient and world-class bearings from leading manufacturers.

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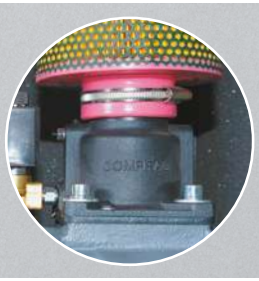
Screw air-end (C)

The air-end has a contemporary energy-efficient screw shape.

This increases compressor efficiency and reduces maintenance and replacement costs.

Control valve (E)



Comprag made control valves. Minimum pressure loss, improved unloading time adjustment.

Flow chart of compressor

-OIL
-OIL+AIR
-AIR

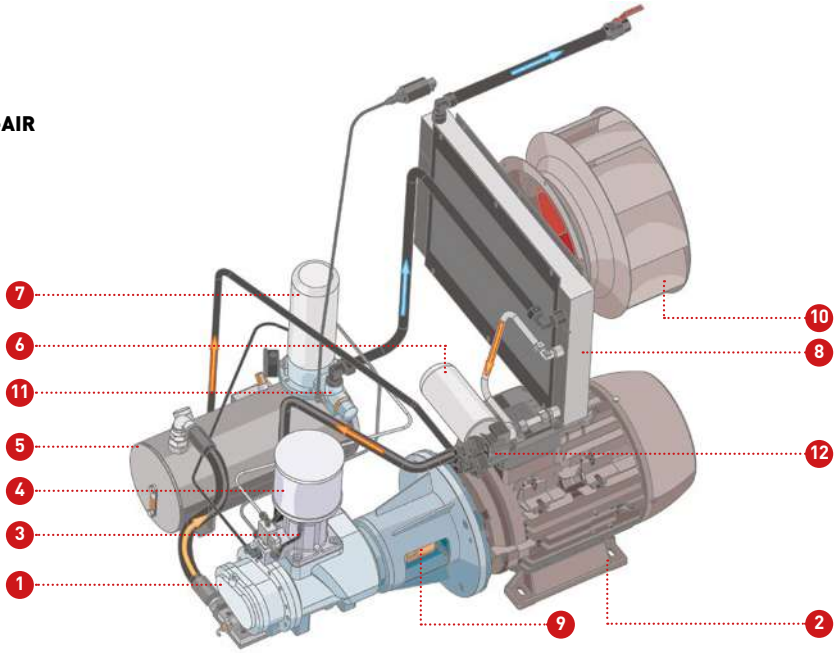


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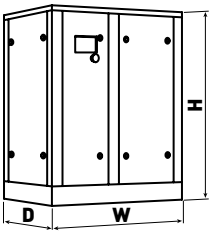
Table of models D-Series

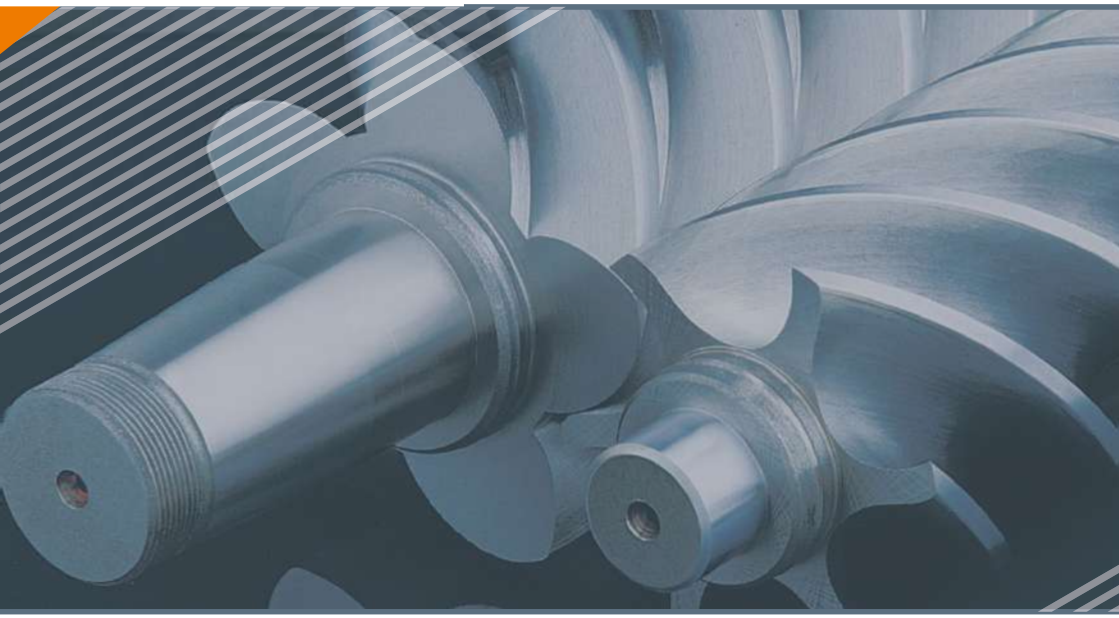
Article	Model	Drive power (kW)	Max. working pressure (bar)	Capacity* (m^3/min)	Rated voltage (phase/V/Hz)	Sound pressure level** dB(A)	Screw connection
11300041	D-1808	18	8	2,9	3/380-420/50	72	3/4"
11300042	D-1810		10	2,6		72	
11300051	D-2208	22	8	3,6	3/380-420/50	72	3/4"
11300052	D-2210		10	3,2		72	

* Measured according to ISO 1217; ** Measured according to ISO 3744

Dimensions D-Series



Model	Height H (mm)	Width W (mm)	Depth D (mm)	Weight (kg)
D-18	1280	1300	940	450
D-22	1280	1300	940	480



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