

CPA 10-20

CP OIL INJECTED SCREW COMPRESSOR

General Description

The CPA 10-20 oil injected screw air compressors, available in 10hP,15hP and 20hP, provide an energy efficient, reliable air compressor that minimizes the total cost of ownership. These air compressors are designed to withstand the harshest of environments while providing you with a quiet air compressor with sound levels ranging between 67 and 71 dB (A). The CPA10-20 series is designed and manufactured in accordance with ISO 9001, ISO 14001 and ISO 1217 which insures a reliable trouble free air compressor. As standard these units are designed to operate up to real 46°C ambient conditions and are available as a Floor Mount, Tank Mount and Tank Mount with Dryer.

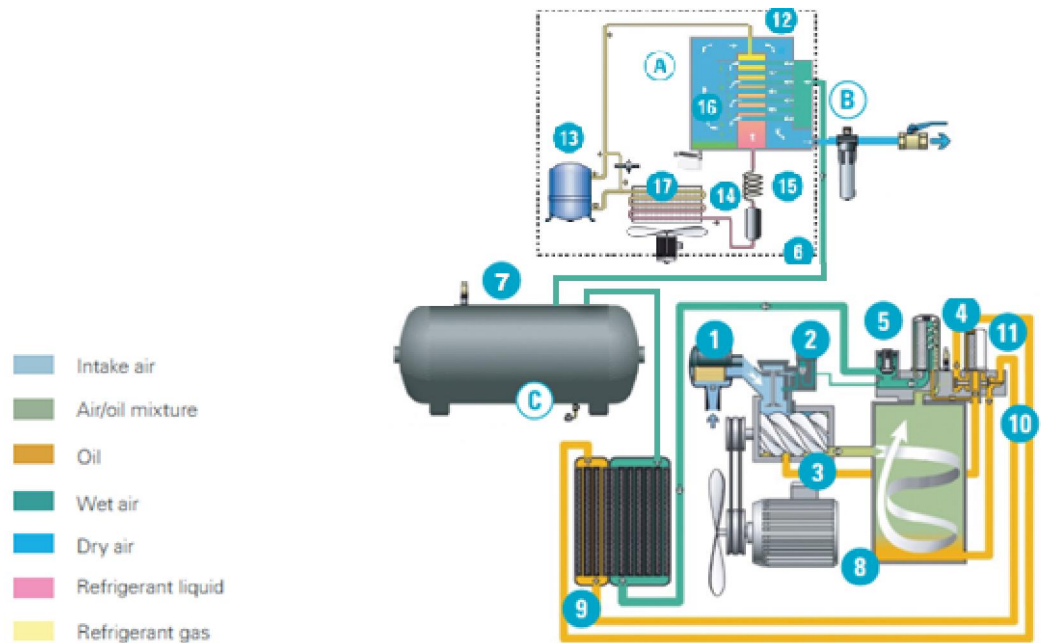


The compressors are constructed with the following major components:

- State of the art compression element
- IP55 (TEFC) motor meeting with greased for life bearings
- ES4000 Basic
- Air-oil separator
- Inlet air filter

Working Principle

Air is drawn in through the air filter and the inlet valve into the compression element. This compressed air is forced through the air/oil separator, past the minimum pressure valve, through the after-cooler and into the receiver (if included). In case of a Tank Mounted with dryer unit, we have a wet vessel principle, which decreases the load on the dryer considerably.



AIR FLOW

- 1 Inlet air filter
- 2 Inlet valve
- 3 Compression element
- 4 Oil separator element
- 5 Minimum pressure valve
- 6 Aftercooler
- 7 Air receiver

OIL FLOW

- 8 Oil reservoir
- 9 Oil cooler
- 10 Thermostatic valve block
- 11 Oil filter

REFRIGERANT FLOW

- 12 Evaporator
- 13 Refrigerant compressor
- 14 Condenser
- 15 Capillary tube
- 16 Water separator
- 17 Electronic automatic drain

OPTIONS

- A Full Feature
- B PD high efficiency air filter
- C Electronic receiver drain

Model	Max. Working Pressure		Capacity		Motor Power		Noise Level **
	Bar	m3/h	l/s	cfm	kW	hp	db(A)
CPA 10	7	76	21	44	7,5	10	65
	10	65	18	36			
	13	51	14	29			
CPA 15	7	107	30	62	11	15	67
	10	88	25	52			
	13	75	21	43.5			
CPA 20	7	124	34	72.4	15	20	71
	10	109	30	64			
	13	90	25	50			

Scope of supply

Oil Separator System, Oil Filter and Consumables

High efficiency 2 step air oil separator system for reduced oil consumption ensuring low maintenance costs and good oil separation result between service intervals. The oil filter cleans the oil continuously from particles bigger than 25 micron with 99% efficiency in order to protect the lubrication quality and health of the rotating components.



Simplified Control and Regulation System



The icon based ES4000 Basic on the CPA10-20 models include:

- Running hours - and working hours @ load counters
- Service warnings for optimal protection
- Pressure - and element outlet temperature reading

Air Dryer (TMD unit)

The integrated dryer efficiently removes moisture, aerosols and dirt particles to protect your complete installation. This quality air expands the life of equipment, increasing efficiency and ensuring quality in your final product.



Features & Benefits

Energy Savings

- State of the Art compression element
 - Low energy consumption and high output of compressed air
- Fully Integrated & Compact design
 - Controller to ensure optimum efficiency and reliability. Ensures compliance with your air requirements and makes the best use of your valuable floor space.

Quiet operation

- Sound insulated canopy
 - No separate compressor room required. Allows for installation in most working environments.

Highest reliability

- Robust Air Filter
 - Offers long lifetime and high reliability for long service intervals and low maintenance needs. Air filter is very easy to replace.
- IP55 (TEFC) IE2 Motor
 - Totally enclosed fan cooled motor insures reliability. Bearings are greased for life.