BOGE compressed air centre C 20 LDR 350 air cooled
Screw compressor with BOGE energy saving refrigerant compressed air dryer on horizontal compressed air receivers
Complete and ready to connect, fully automatic operation, with CE approval stamp

The most efficient way to produce, dry and store compressed air.
Compressed air is one of the most important auxiliary powers in industry and crafts. Particularly for continual compressed air requirements BOGE screw compressors are the first choice. Series C..L by BOGE sets standards for the efficient and reliable production of compressed air and ensures that you always haver **air to work**.

Excellent performance with low operating costs,
Energy saving and environmentally friendly

- The **BOGE energy-saving air end Effilence** with an optimized screw profile ensures, in combination with generously designed components, optimally designed performance ranges and maximum volumetric efficiencies.
- The intelligent design of the whole system allows the lowest internal pressure loss and optimal suction of the oil injection cooled **BOGE-Effilence-compression stage**
- The **BOGE suction regulator** ensures, through a fully balanced start, gentle and intrinsically safe operation of all moving parts. If the system is at a standstill it closes off hermetically
- The **highly efficient** and maintenance free force transmission through direct drive with elastic coupling, allows the longest life and ensures, together with the most economical **IE 3** drive motors, for optimal power consumption
- The use of the **latest compressor controls**ensures, with the **BOGE control, regulation and monitoring concept**, the automatic selection of the most efficient operating mode as well as intrinsically safe operation at all times of the compressor. Individual fault alarms, permanent current compression temperature and pressure displays, precise and easy pressure settings on the keyboard and frost protection for compressors to -10°C from the factory are just some of the features
- **BOGE compressed air receivers** are blast cleaned to metal and coated, this prevents corrosion and ensures a long life. CE-Mark and hand hole as inspection opening as standard

Maintenance friendly
- For routine inspections and maintenance all components must be accessible easily and from the front
- Very simple maintenance through common access opening for oil separator cartridge and high efficiency oil filter; valveless oil circuit
- This minimises your maintenance and service costs

BOGE Energy-saving refrigerant compressed air dryer of series DS
- Large-scale components not only stand for low pressure loss and avoid overcompression but also mean the greatest reliability and guaranteed durability
- Low operating costs to to optimally harmonised components
- The refrigerant dryer in the DS series is characterised by an unusually low pressure loss. This means that less pressure loss must be compensated at the compressor. That saves 6% energy costs per bar less overcompression
- The environmentally friendly refrigerant that is used has no ozone depletion potential and ensures, together with the recyclable materials and high energy efficiency, **maximum resource protection** and environmentally friendly and modern refrigerant dryer operation
- The built in components are tried and tested in practice. The intelligent layout of the robust heat exchanger package guarantees energy saving operation
- Standard with level controlled condensate drain

Additional features

- Compressor unit isolated from mechanical vibration
- Motor protection IP 55 with PTC thermistors
- integrated electrical switch cabinet (IP 54)
- Constant low oil carry-over in all operating phases due to efficient pre-separation in the integral compressed air-oil separator
- Compressed air aftercooler for low compressed air outlet temperatures
- No condensate in the oil due to thermostatically controlled oil cooler
- Powder coated surface, light blue, RAL 5012
- Instrument panel on holder with all necessary instruments, such as a type tested safety valve, manometer, control flange with nozzle bore
- Shut-off valve on compressed air outlet, condensate drain valve as standard
- Receiver according to EEC-directive 2009/105, manufactured according to AD-regulations 2000, with CE symbol

Technical Data:

Effective free air delivery of complete unit measured according to ISO 1217 Part C	**2,24**	**m³/min**
at maximum compressor overpressure	**10**	**bar**
Main drive motor nominal power	**15,00**	**kW**
Required power input of the dryer	**0,76**	**kW**
Protection type / Insulation class of the motor	**IP 55 / F**	
Operating voltage (compressor)	**400 V / 50 Hz**	
Control voltage (compressor)	**24 V AC / 24 V DC**	
Operating-/control voltage (dryer)	**230 V / 50 Hz**	
Cooling air volume flow (compressor)	**4800,00**	**m³/h**
Cooling air volume flow (dryer)	**380,00**	**m³/h**
Suction or ambient temperature (min...max)	**+5...+45**	**°C**
Compressed air outlet temperature above ambient temperature	**9**	**K**
Pressure dew point at inlet conditions according to DIN ISO 7183	**+3**	**°C**
Residual oil content in compressed air	**< 3**	**mg/m³**
Receiver volume	**350**	**l**
Permissible maximum receiver pressure	**11**	**bar**
silenced version (acc. to dimensioned drawing):	**M 3200.0863**	
Unit sound pressure level (in accordance with DIN EN ISO 2151)	**75**	**dB(A)**
Width / Depth / Height	**2020 / 720 / 1365**	**mm**
Compressed air connection (ball valve)	**G ½**	
Compressed air connection (ball valve)	**G 1**	
Weight	**380,0**	**kg**

Further recommended equipment:

- **Sound insulation hood**
  to reduce the noise level at least 5 dB
- **High pressure hose 500 mm**
  for vibration free compressed air connection to the mains or downstream components
  bzw. nachfolgenden Komponenten
- **Electronic, level controlled condensate drain** Type Bekomat,
  for safe drainage of oil saturated condensate from compressed air receiver
- **BOGE-Duotherm BPT**, ∆t 50 K, tmaxOut = 70 °C
  added

Subject to technical modifications.
The listed performance data is representative of standard compressors.

BOGE-base control

Features of the control system
- Automatic selection of the optimum operating mode by synchronisation
- Automatic optimisation of motor switching cycles
- Monitoring of pressure via pressure transmitter
- Network pressure adjusted from the keyboard
- Integral test function for outputs
- Messages via LC-Display / LEDs / contacts
- Run on time (for short operating times) adjustable via keypad
- Control voltages 230 V / 24 V AC
- Connection for Master Control System
- Non-resetting after power failure
- Auto-restart function after power failure selectable

Control elements
- ON button
- Off button
- EMERGENCY STOP button
- Info button
- Enter button

Displays
- Green LED 'Ready' indicator (steady light) and display of 'soft' run down after manual switch off (flashing light)
- Final compression temperature
- Network pressure
- Load operation
- Idling
- Ready to operate
- Automatic selection of operating mode or continuous operation mode active
- Pressure control set to external
- Auto-restart function is active after power failure
- Operating hours - Total
- Operating hours - Idling
- Operating hours until next scheduled compressor service is due
- Operating hours until next motor service is due
- Load cycles until next receiver service due
- Load cycles until next suction regulator service due
- Function test for display elements
- Software-no.
- Warning message
- Red LED for fault messages (flashing light), maintenance (flickering light)

Monitoring as individual messages
– Max. service pressure too high
– Temperature too low (frost protection)
– Drive motor temperature outside limits
– Fault - network pressure transducer
– Single control button (On / Off / Info / Enter) defective
– Control save function defective

Messages
– Intermittent mode
– Continuous mode
– Ready to operate
– Operation
– Load operation
– Idling
– Lamp test