



ISO 9001

From design to production and delivery of compressors, Sullair adheres to the ISO 9001 management system.



ISO 14001

Sullair's Environmental Management System forms an integral part of our business.

Specifications, weight and dimension – Sullair 900XH, 980RH portable air compressor

MODEL	980RH	900XH
Complete machine		
Rated Discharge Pressure bar (psig)	20.7/300	24.1/350
Working Pressure Range bar (psig)	9.7-20.7(140-300)	9.7-24.1(140-350)
Nominal Volumetric Capacity m ³ /min (CFM)	27.8(980)	25.5(900)
Max. Towing Speed (km/h)	35	
Max. Working Angle	15°	
Machine Weight kg(Lbs)	6070 (excluding the weight of diesel oil)	
L × W ×H mm	4687×2100×2558	
Track width mm(in)	1786 (70.3)	
Tire Specification	8.25-16-14PR	
Tire Pressure kPa	690-760	
Diesel Engine		
Model	Cummins QSM11	
Working Speed, full load/no-load rpm	1800/1200	
Rated Power kW(HP)	280(375)	
Displacement L (in ³)	10.8(660)	
Coolant Capacity L (U.S.gal)	56(14.8)	
Engine Oil Capacity L (U.S.gal)	34(9)	
Fuel Tank Capacity L (U.S.gal)	700(185)	
Electrical System Voltage V	24	
Rated Capacity of Battery C ₂₀	210A.h	
Compressor		
Fluid Capacity L (U.S.gal)	60(15.8)	
Specification of Air Supply Valve (Qty.)	One RP2, one RP3/4	



www.sullair.asia.com

900XH, 980RH High Pressure Series

Diesel Engine Driven Portable Screw Air Compressor

300PSIG-350PSIG (20.7bar-24.1bar)
900CFM(25.5 m³/min) -980CFM(27.8 m³/min)

— The most reliable compressed air system



- ☐ Driven by Cummins QSM11 electric injection diesel engine
- ☐ Automatic inlet valve and blowdown starter
- ☐ 0%~100% capacity regulation
- ☐ LCD multi-purpose display
- ☐ Delicate multi-purpose instrument panel
- ☐ Double-stage dry type heavy-duty air filter with secondary filter element
- ☐ All weather (AWF) compressor fluid



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900XH, 980RH High Pressure Series

Diesel Engine Driven Portable Screw Air Compressor
350PSI(24Bar) (20.7bar-24.1bar)
900CFM(25.5 m³/min) -980CFM(27.8 m³/min)



Sullair air end is guaranteed for operation reliably below 3048m altitude, especially suitable for high altitude region in west China.



Double-stage design further enhances Sullair screw compressor air end

Double-stage screw air compressor provides higher pressure of 350PSI (24Bar). Compared with single-stage compressor of the same size, double-stage screw compressor's efficiency is 11~13% higher due to:

1. Double-stage screw compressor significantly reduces compression ratio of each stage. Considering single-stage compressor with 7.8:1 compression ratio, compression ratio of 2.8:1 for each stage in a double-stage compressor will reach a total ratio of 7.8:1. Efficiency is significantly improved.
 2. Much lower compression ratio will reduce internal leakage caused by pressure drop. Efficiency is significantly improved.
- On the other hand, due to lower compression ratio of each stage, unbalanced force on bearings and rotors due to pressure drop will be much lower. Therefore bearing life is drastically improved and noise reduced.

Cummins QSM11 industrial diesel engine

Cummins engine is renowned for its durability, high performance and low operation cost.

Cummins industrial diesel engine is not only of good quality, reliability and durability, it utilizes state-of-art electronic control technology, providing optimal horsepower/weight ratio.

Electronic control module (ECM) of the engine uses double microprocessors and multiple sensors to constantly monitor the engine and adjust automatically, keeping the engine at top performance. ECM keeps a log of diagnostic data for service personnel to use. Service personnel may use the data for a complete diagnosis.

- Fuel injection volume is precisely metered to improve power density and reduce vibration;
- Higher fuel injection pressure may improve combustion; reduce fuel consumption and emission of carbon fume and particle;
- Flexible and accurate fuel injection timing may reduce emission of HC and NOx and improve fuel economy;
- The best fuel injection rate curve can reduce noise



The only air end with 5 years or 10,000 hours warranty in the world

Prominent Sullair screw compressor air end
Five years or 10,000 hours air end warranty

Although all screw air compressors use the same concept, Sullair's unique air end design of two rotors with asymmetric contour and constantly improving material offer long service life, high efficiency and high reliability.

Zero friction

Fine machined screw rotors are the only moving parts inside the compressing chamber. During operation, oil film between the rotors ensures there are no friction and wear between metal parts. Therefore, compressing efficiency will not deteriorate by time.

Super long service life

Uniquely designed BFR (bearing fluid reservoir) system utilizes pressurized overflow lubrication to ensure high lubrication performance of bearings and screw rotors, prolonging service life.

Low operation cost

Discharge port is designed so that the compression ratio and pressure are matched properly. Improved efficiency reduces operation cost. Axial flow inlet port reduces pressure drop and avoids inlet air preheated, thus operation cost is further lowered.



**FIVE YEAR OR 10,000 HOUR
AIR END
WARRANTY**



Delicate multi-function instrument panel

LCD multi-function display
Diagnostic indicator
Fault alarm indicator
Compressor system pressure gauge
High/low pressure selector

Safety protection device

Compressor discharge temperature switch
Diesel engine oil pressure protection
Diesel engine coolant temperature protection
Diesel engine coolant level protection
Starting tank pressure protection
Diesel engine fuel temperature
Breaker

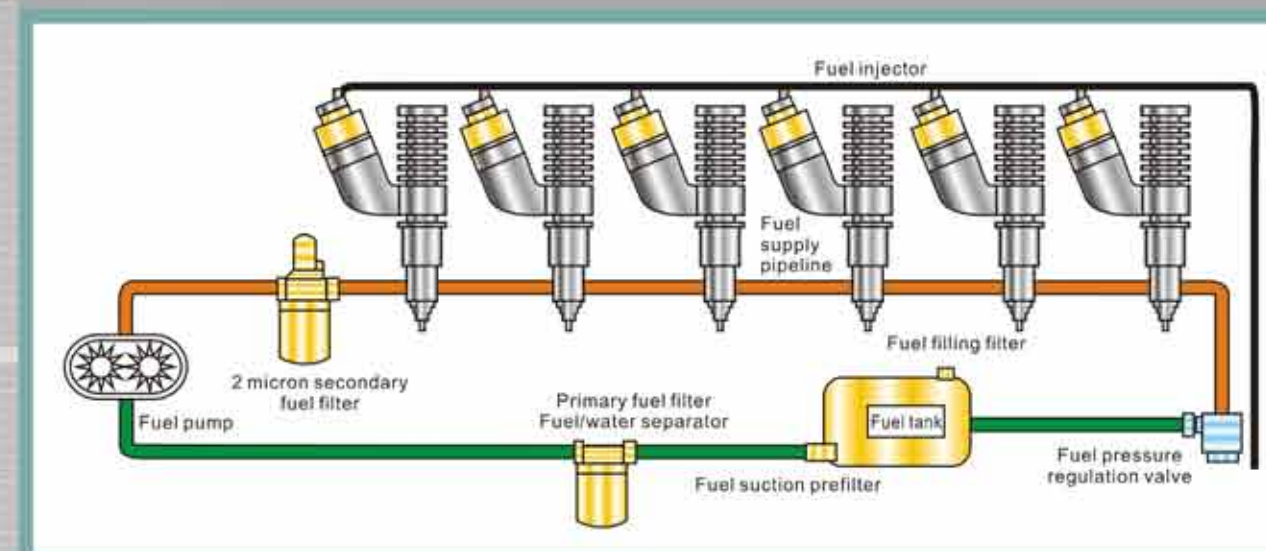
Automatic inlet valve and blowdown starter

Fault diagnostic indication system

Diagnostic indicators installed on instrument panel show the cause of stop, simplifying the troubleshooting procedures.



Specific compressor fluid (AWF) is functional at any climate and ambient temperature (-32°C~49°C).



Four-stage fuel filtering

Considering domestic fuel quality used on construction site, the unit is equipped with four stages of fuel filtering – fuel filling filter, fuel suction prefilter, primary fuel filter, fuel/water separator and secondary high efficiency fuel filter. Especially the 2 micron high efficiency fuel filter, its high filtering resolution and efficiency ensures clean and reliable fuel supply to the electronic injector. This will keep the electronic fuel injection system at top performance and low fault rate.



Side doors of air compressor

Service doors are wide, easier for user to inspect, repair and service. All service required parts are accessible, minimizing downtime and service cost. Spacious internal room is convenient for user operation.

Low noise

Enclosed silent design. Both Chinese and US standard requirements on noise are satisfied.