



# 375 - 425 SERIES

Diesel Engine Driven Portable Rotary Screw Air Compressor

*100 PSI (6.9 bar) - 200 PSI(13.8 bar)*

*375 CFM (10.6 m<sup>3</sup>/min) - 425 CFM (12.0 m<sup>3</sup>/min)*



# 375 - 425 SERIES

# DIESEL ENGINE DRIVEN PORTABLE ROTARY SCREW AIR COMPRESSOR

**Sullair air end is guaranteed for operation with constant discharge volume and pressure below 3,048 m altitude.**

THE ONLY AIR END WITH 5 YEARS OR 10,000 HOURS WARRANTY IN THE WORLD

**The air end of Sullair screw compressor with extraordinary performance**

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

Original Sullair air end has only two moving parts – two rotors with asymmetric contour mesh together through oil film, thus minimize friction. This drastically improves service life and reduces maintenance period.

- Sullair rotor pairing process originally made from the United States guarantees meeting the accuracy and compression efficiency
- Most efficient, most reliable and most durable air end recognized globally
- The only compressor air end with 5 years or 10,000 hours warranty in the world

**AWM**  
**5**  
YEAR WARRANTY



### **Super long service life**

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

### **Low operation cost**

Discharge port is well designed so that the capacity compression ratio and pressure are matched properly. Improved efficiency reduces operation cost. Axial flow intake port reduces pressure difference and avoids intake air preheating, thus operation cost is further lowered.

## CUMMINS INDUSTRIAL DIESEL ENGINE

### **Excellent adaptability for high altitude application**

- Boost or inter-cooling booster
- Bypass booster
- Boost compensator
- Cold start auxiliary device to ensure normal start above -32° C
- Low power loss
- High engine reliability
- Operation at or below 3048m altitude without adjustment

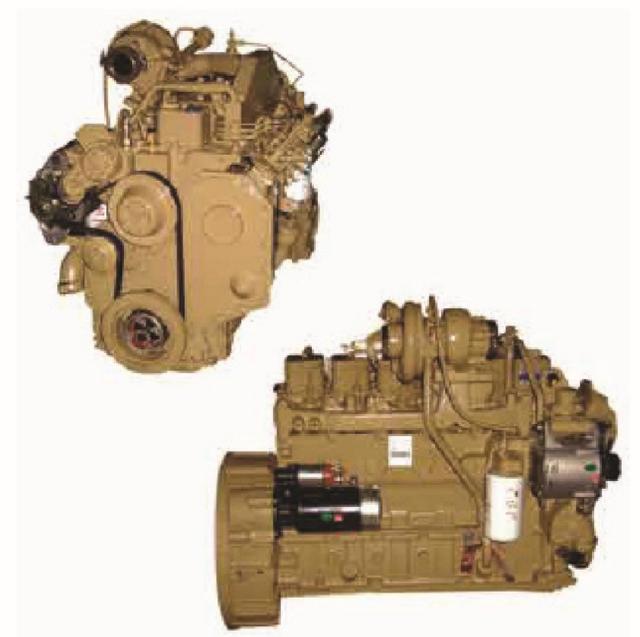
### **High durability**

- Enormous structure design analysis and optimization
- Tens of thousands of units experiment and test
- Strict supplier identification
- Robust design to ensure super long lifetime

### **T2 emission level**

- Meet the strictest emission regulation in the world
- Noise level certified by European regulations

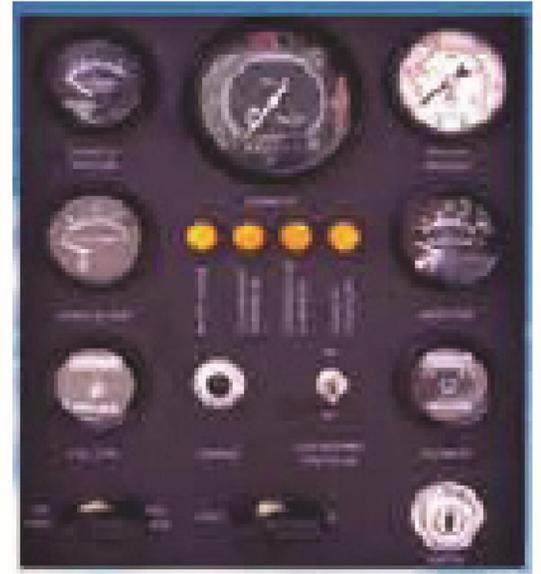
### **Good fuel economy**



## DELUXE INSTRUMENT PANEL WITH EASY-TO-OPERATE

Instrument panel cover is equipped with hinge fastener. Mechanical instruments include:

- Air supply pressure gauge
- Oil pressure gauge
- Water thermometer
- Voltmeter
- Start-up/running switch
- Override button
- Air inlet preheating indicator
- Engine air filter alarm indicator
- Tachometer/hour meter
- Oil thermometer
- Fuel level gauge
- Ignition switch
- Air inlet preheating switch
- Battery charging indicator
- Compressor air filter alarm indicator
- High/low pressure selector



## ADDITIONAL FEATURES

- Automatic protection and shut-down switches / system applied on compressor and diesel engine
- The pneumatic inlet valve and unloaded start device, allows 0-100% capacity regulation

*The Sullair All Weather Fluid (AWF) applied is functional normally at any climate and ambient temperature range (-29 - +49° C)*



## MULTI-STAGE FUEL FILTRATION

Multi-stage fuel filtration equipped ensuring effectively clean and reliable fuel supply to the operation system.

## LOWER NOISE LEVEL

Enclosure silent design meets the working requirement worldwide.

## EASY-TO-MAINTAIN DESIGN AND RELIABLE PERFORMANCE

Wide service door. Front door and side door are convenient for the service of air filter, compressor fuel tank, battery and engine. Back door is convenient for the service of oil cooler. All service required parts are accessible, minimizing downtime and service cost.



# SPECIFICATIONS - SULLAIR 375 - 425 SERIES PORTABLE AIR COMPRESSOR

| Model  | 375H  | 375HH                | 425                 | 425H                 | 425HH                | 400XH                |
|--|---|----------------------|---------------------|----------------------|----------------------|----------------------|
| <b>Complete Machine</b>                          |   |                      |                     |                      |                      |                      |
| Nominal volume capacity m <sup>3</sup> /min CFM) | 10.6 (375)  |                      | 12.0 (425)          |                      |                      | 11.3 (400)           |
| Rated discharge pressure bar (psi)               | 10.3 (150)  | 12.0 (175)           | 6.9 (100)           | 10.3 (150)           | 12.0 (175)           | 13.8 (200)           |
| Working pressure range bar (psi)                 | 5.5-10.3<br>(80-150)                                    | 5.5-12.0<br>(80-175) | 5.5-6.9<br>(80-100) | 5.5-10.3<br>(80-150) | 5.5-12.0<br>(80-175) | 5.5-13.8<br>(80-200) |
| Machine weight                                   | ~2,000 kg (4,410 Lb)                                    |                      |                     |                      |                      |                      |
| L × W × H mm (DPQ/DLQ)                           | 4,010×1,992×1,973 / 2,696×1,485×1,597                   |                      |                     |                      |                      |                      |
| Track width mm (in)                              | 1,746 (68.8)  |                      |                     |                      |                      |                      |
| Tire specification                               | 7.50-16-14PR  |                      |                     |                      |                      |                      |
| Tire pressure kPa                                | 630-700   |                      |                     |                      |                      |                      |
| Max. working altitude                            | 3,048 m (10,000 ft)                                     |                      |                     |                      |                      |                      |
| <b>Diesel Engine</b>                             |   |                      |                     |                      |                      |                      |
| Manufacturer                                     | DONGFENG CUMMINS  |                      |                     |                      |                      |                      |
| Model  | 6BT5.9-C  |                      |                     | 6BTA5.9-C            |                      |                      |
| Full-load/no-load speed rpm                      | 2,250 / 1,600   |                      |                     |                      |                      | 2,100 / 1,600        |
| Rated power kW (BHP)                             | 100 (134)   | 110 (147)            | 100 (134)           | 110 (147)            | 130 (174)            | 130 (174)            |
| Displacement                                     | 5.9 L (360 in <sup>3</sup> )                            |                      |                     |                      |                      |                      |
| Coolant capacity                                 | 24 L (6.3 U.S.gal)                                      |                      |                     |                      |                      |                      |
| Oil capacity                                     | Max. 14.2 L (3.75 U.S.GAL), Min. 12.3 L (3.25 U.S. gal) |                      |                     |                      |                      |                      |
| Fuel tank capacity                               | 200 L (52.8 U.S. gal)                                   |                      |                     |                      |                      |                      |
| Electric system operating voltage                | 24V   |                      |                     |                      |                      |                      |
| Rated capacity of battery                        | 180 Ah/ea.  |                      |                     |                      |                      |                      |
| <b>Compressor</b>                                |   |                      |                     |                      |                      |                      |
| Fluid capacity L (U.S.gal)                       | 26.5(7.00)  |                      |                     |                      |                      |                      |
| Specification of air supply valve                | 1-Rp 1/2, 1-Rp 3/4, 1-Rp1 1/4                           |                      |                     |                      |                      |                      |

- After cooled type is available for 375H,375HH,425H,425HH models.
- DPQ and DLQ running gear is available
- The data will be changed without notice in advance



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