



Compressed Air Solution for
ATmosphères
EXplosibles



YOUR SAFETY IS OUR CONCERN

In the oil and gas industry, safety is the number one priority. Built to the most stringent standards, our Zone 2 air compressors meet all requirements of selected authorities and will be safe for operations like well testing, gas flaring and other maintenance jobs on-board rigs/vessels in the Zone 2 hazardous areas.

To give our customers peace of mind, our Zone 2 air compressor consists of reputable brands packaged into one solid and robust enclosure. In addition, the explosion kit used is fully certified by specialists with Attestation of Conformity to ATEX Directive 94/9/EC.



POWERED BY ONE OF THE MOST RELIABLE ENGINES

LATEST ATEX TECHNOLOGIES

- Customary factory certifications by in-house specialists
 - ATEX Directive (94/9/EC) Group 2A
 - Category 3G (Zone 2) Temperature Class T3
- ATEX technologies
 - ATEX designed and tested exhaust system
 - Certified flameproof intake system

IMPROVE EFFICIENCY, REDUCE WASTAGE

- Package certified for hazardous location applications
- Generating power with a wide range of operating speeds to improve performance efficiency and reduce unnecessary waste
- Stable torque increase to deliver higher load acceptance

REDUCED DOWNTIME THROUGH EXCELLENT PRODUCT SUPPORT

- Caterpillar® parts warranty
- Caterpillar dealer outlets worldwide to provide engine support

LOWER POSSIBLE OPERATION COST

- Rigorously tested for Caterpillar on all components
- Achieved one of the longest component overhaul life
- One of the best serviceability in the market



Image shown may not reflect actual engine configuration

THE SOLUTION FOR HAZARDOUS AREAS

The Sullair® Air End

- Features Sullair rotary screw compressor
- Longer average bearing life, designed for over 100,000 hours of service
- Uses Sullair technology of pneumatic inlet valve and unloaded starting
- Fuel efficiency through matching output to demand
- Extends overall package life and lower operating cost
- Stabilizes system pressure
- Proven reliability with improved materials and engineering design of its air end

Sullair AWF Compressor Fluid

- Improved hot and cold weather lubrication
- Longer compressor fluid life
- Extended air end warranty

Three-stage Dry Type Air Filters

- Separate filters for engine and compressor
- Prolong life of the engine and air end with effective prevention of impurities from intake air
- Protects premature failure of key components due to impurities

Fuel / Water Separator

- Improved design to prevent leaking and save service time
- High efficiency filter element to 90% efficiency
- Cleaner fuel thus longer engine life

Exhaust System

- Factory-matched with ATEX designed and tested exhaust system, compliant to EN 1834-1
- All skin temperatures and exhaust gas < 200°C (T3)

Air Inlet System

- Factory-matched with ATEX designed and tested inlet system, compliant to EN 1834-1
- Certified flameproof intake system to avoid any internal explosions from spreading to external atmosphere

Cooling System

- Closed cooling system with air blast radiator and charge air cooling
- Certified to maintain T3 skin temperatures for up to 45°C ambient applications

Superior Corrosion Resistance

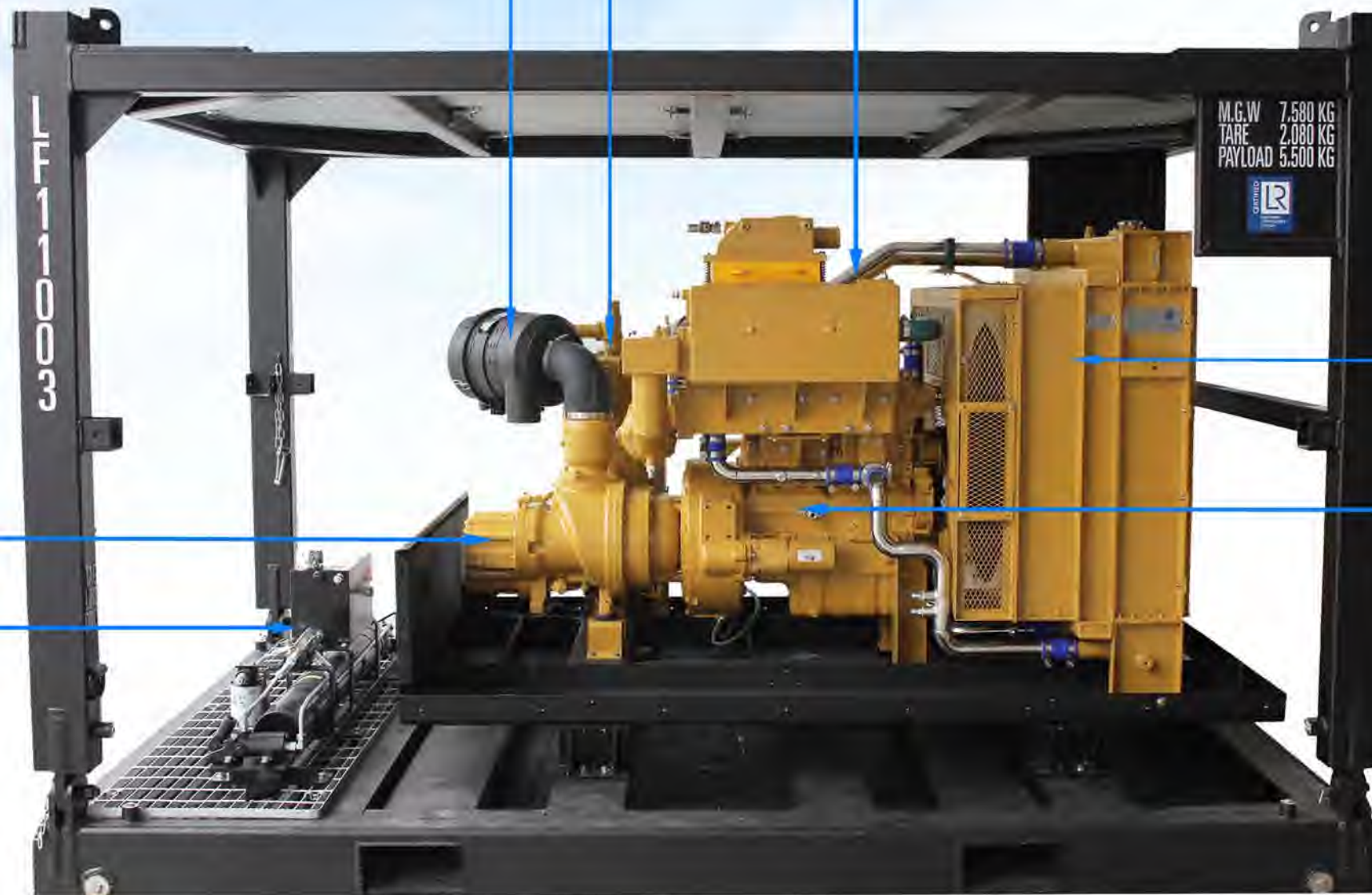
- Marine grade solder dipped core radiator
- Specially selected material used
- Coated with offshore paint spec

Hydraulic Engine Starting Systems

- With more than 90% efficiency, turns the engine faster to achieve higher combustion temperature together with reliable ignition and positive start
- Virtually maintenance free, last the life of the engine which results in maximum costs saving
- Allows incremental rotation of the engine for service purposes

General

- Package ambient capability is -10°C to 40°C
- Mechanical systems are designed for Gas Group IIA
- Electrical systems are designed for Gas Group IIC
- All systems meet temperature class T3 (200°C limit); includes a declaration of conformity for the entire package scope
- Earth bonding per standard EN 60079-14



Some components not shown for clarity purposes

OUR DEDICATION

TO CUSTOMERS



Aside from safety, we also customise to customers' special requirement with the latest ATEX technologies for energy efficient performance, coupled with ease of maintenance in order to achieve lower possible operational cost and downtime.

FEATURES AND BENEFITS

- Hazardous area ratings available: ATEX 94/9/EC
- Machinery directive compliant: 2006/42/EC
- Noise attenuation
- Diesel engine: Caterpillar®
- Air end: Sullair®
- Container and slings: Option of OEM canopy or containerised with either EN 12079 or DNV 2.7.1 crash frame and forklift slots
- Single starter: Option of electric, hydraulic, spring, and pneumatic start
- Multi-stage air/oil separator
- Safety kits
 - SVD's valve
 - Exhaust manicooler
 - Exhaust outlet box
 - Exhaust flame arrestor
 - Exhaust flexible (flanged)
 - Exhaust spark arrestor
 - Coolant temperature sensor
 - Exhaust gas temperature sensor
 - Compressor oil temperature sensor
 - Engine oil temperature sensor
 - Over-speed valve SVDS
 - Fuel shutoff valve
 - Emergency shutdown lever
 - Exhaust gas temperature gauge
 - Coolant temperature gauge
 - Working air pressure gauge
 - Engine oil pressure gauge
 - RPM meter



TECHNICAL SPECIFICATIONS



Model	185	375H	750H	900H	1600H
Capacity (acfm)	185	375	750	900	1600
Pressure (bar/PSI)	7/100	10/150	10/150	10/150	10/150
Engine Model	V2403	3054C	C9	C9	C15
Sound Level @ 1meter^ (dBA)	85	85	85	85	85
Operating Temperature (°C)	-10 to 50	-10 to 50	-10 to 50	-10 to 50	-10 to 50

* varies with different configuration

For more information on our Zone 2 air compressors and solutions, contact:

Tel: (65) 6663 8850 Fax: (65) 6265 8915

Email: sullair@tractors.simedarby.com.sg

or visit us on the web at www.zone2compressor.com

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ZONE2 **AIR**

SOLUTION PROVIDER

Tractors Singapore Limited
26 Benoi Sector, Singapore 629858

Tel: (65) 6261 2222
Fax: (65) 6265 6772
Web: www.tractors.com.sg

A  Industrial Company

Scan QR code to
visit website

