

# factair

## FM31E Electric Mobile Breathing-Air System



The FM31E has been specially designed to provide safe breathing-air supply for operatives working in hazardous environments.

The 3 phase electrically powered road towable unit provides a breathing air supply of up to 1700LPM from either its 4 no. regulated CEJN342 profile outlets or 1 no. unregulated CEJN442 outlet.

Based on an M31E Kaeser rotary screw compressor the unit has been specially modified by Factair for breathing-air applications. The compressed air supplied is purified to breathing air standard by a 5-stage filtration and drying system that will provide breathing quality air well in excess of the criteria stated in EN: 12021: 2014, dry to a -40°C pressure dewpoint and provide active suppression of CO and CO<sub>2</sub>.

In the event of a mains power failure, or failure of the primary compressor a visual/audible warning will be activated.

An airline connection for an emergency breathing-air reserve is provided; should primary air supply pressure drop breathing-air will then continue to be delivered from this secondary source.

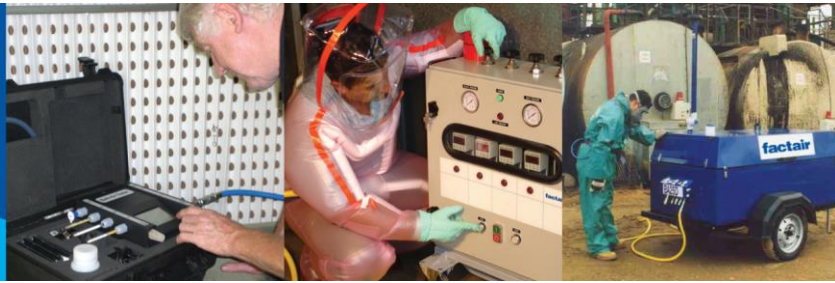
There is also a mounting point for the Safeguard air quality monitor this unit will automatically monitor intake air quality and should readings exceed user defined limits the alarm will be activated. If the emergency breathing-air reserve is connected then air will be supplied from this source.



**Factair Ltd.** 49 Boss Hall Road, Ipswich Suffolk IP1 5BN

Tel Sales: +44 (0) 1473 746400 Fax: +44 (0) 1473 747123 Email: [enquiries@factair.co.uk](mailto:enquiries@factair.co.uk) [www.factair.co.uk](http://www.factair.co.uk)

## FM31E Electric Mobile Breathing-Air System



- COMPRESSOR - Kaeser M31E
- FILTRATION - 5 stage filtration including desiccant dryer, with CO and CO<sub>2</sub> suppression, purifies air to breathing quality conforming to EN 12021:2014
  - The desiccant dryer reduces the dewpoint to -40°C
- CHASSIS - To full EEC regulations with overrun brakes.
- TOWING HITCH - 50 mm ball
- CAPACITY - 2300 l/min output @ 7 barg (100 psi)
- NOISE LEVEL - 63dBA @ 10 metres
- MOTOR - 22 kW
- CEE POWER SOCKET - 63A
- EARTHING CABLE - 10 metre retractable with crocodile clamp
- STANDARD FEATURES - Fully automatic 'fail-safe' reserve from secondary BA source
  - Interface with Safeguard air quality monitor
- GAUGES SHOW - Compressor supply pressure, Emergency reserve pressure, Regulated outlet pressure
- INFORMATION - LCD display with faults and condition status
- AUDIBLE ALARMS - Primary air supply failure, Safeguard alarm activation
- OUTLETS - 4 off regulated CEJN type 342 couplings, 1 off unregulated CEJN 442 coupling
- AUXILLIARY INLET - 1 off BA Emergency Reserve Back Up connection (16 barg maximum)
- WASTES - Integral oil water separator fitted
- QUALITY - The FM31E is manufactured in accordance with our Quality Assurance Procedures approved to ISO9001

Power	Load	Free Air Delivered	Maximum Pressure	Sound Power Level	Dimensions			Weight
22kW	63A	2,300 l/min at 7 barg	10 barg	≤97 dBA	3015mm long	1260mm wide	1330mm high	<750Kg