

Compressed-Air Systems for Hazardous Areas

Factair produces a range of specially customised portable and fixed installation compressors for use in hazardous areas. Each system is specially designed to comply with the Atex requirements for the designated zone in which the compressor will be operating.

Detailed below are 2 recent examples of the type of Atex compliant compressed-air system Factair can design and manufacture.

Mobile Breathing-Air Compressor

The Factair BA20EX ZONE 1 is an electrically powered, breathing-air compressor designed to operate in a hazardous area (designated Zone I), ie where an explosive gas/air mixture is likely to occur such as an area immediately adjacent to containers where inflammable liquid/vapour is stored.

This electric powered, compressor unit was designed to supply breathing air, producing a FAD of 509 l/min at 10 bar in a Zone 1. T4 operation, incorporating an emergency back up cylinder reserve system. Air quality meets the criteria laid down in BS EN12021:1999 .

Incorporated in the unit is the Factair fully-automatic backup system which, in the event of primary air supply failure, switches to a reserve air supply stored in two 9-litre hp cylinders. When the air in the cylinders falls below a permissible level a warning whistle is activated.

Fixed Installation

This receiver mounted Hydrovane V02, with stop/start control, was specially modified to operate in a Zone 1 off shore application. The unit produces a FAD of 204 l/min at 10 bar.

