



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 95 equipment directive 94/9/EC, Equipment and protective systems intended for use in potentially explosive atmospheres. Detailed below are some recent examples of the type of ATEX compliant compressed-air system Factair have designed and manufactured.

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), i.e. 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 450 l/min at 10 bar in a Zone 1. T4 operation and in this case 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 and sounds a pneumatic alarm. The alarm also sounds when the air pressure in the cylinders falls below a predetermined level.



Fixed Installation

Factair produces a wide variety of fixed installation Atex packages. Each is specifically tailored to the customer's requirements with a number being produced for harsh offshore environments. Pictured opposite is a Zone 2 offshore package incorporating 2 no. SK24 HPC/Kaeser screw compressors.

Overleaf are examples based on the Hydrovane air end and our Zone 1 110V 300mm electric fan.





Zone 1 Breathing-Air Compressor incorporating Mattei M80E rotary vane compressor, producing 450 l/min at 7 bar from 50 Hz supply or 600 l/min at 7 bar from 60 Hz supply, dual wound motor 400V – 3ph-50Hz, 460V - 3ph-60Hz



Hydrovane VO1 receiver mounted with stop/start control producing FAD of 100 l/min at 10 bar, 400V – 3Ph-50Hz



V02 Zone 1 Hydrovane Compressor Skid Sets, each producing FAD of 200 l/min at 10 bar 400V-3ph-50Hz



Other Atex Products

Electric Ventilation Fan

AF300 Eexd IIC T4 300mm Zone1 Fan

110V-1ph-50Hz

Performance: 4,500 m³/hr at 0 bar, 3,500 m³/hr at 200 bar