

COMPRESSED AIR ANALYZER

Compressed air analyzer consist of power meter, flow meter and data logger which enable the user to data log and analyze the compressed air usage and behavior.

Using sophisticated software we can determine the performance statistics of compressors (efficiency, air delivery, load/unload cycles), leakage analysis, report generation and more.

This is the ideal instruments for energy analysis (ISO 50001) and air audits (ISO 11011).

COMPRESSED AIR FLOW METER

Compressed air flow meter uses thermal mass or pitot tube sensor to know the compressed air flow and consumption.

This will help the user improve system efficiency, while helping reduce compressed air usage and operating costs.

If connected on data logger or monitoring systems flow data can help to analyze the compressed air usage and generate action based on actual data extracted and recorder by the instruments.

WATER AND OIL SEPARATOR

Water oil separators have been specifically developed to separate lubricant oil from condensate from compressed air systems.

Condensate treated with water and oil separators can be drained into public sewers. It separate any type of oil and works with any type of condensate drain.

It usually installed in a compressed air system to comply with environment management system.

COMPRESSED AIR FILTER

Compressed air filter has been specifically developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems. To meet the required compressed air quality appropriate filter element must be installed into filter housing.

It can be use on automotive, electronics, food and beverage, chemical and general industrial application that need the removal of compressed air contaminants.

REFRIGERATED AIR DRYER

Refrigerated dryer has been designed to lower the dew point in compressed air system by cooling the inlet air. By this water vapour retention of air drops significantly. The excess water condenses and is drained out of the system.

Refrigerated dryer can lower the dew point of compressed air system up to 30C.

ADVANCED COMPRESSED AIR PIPING

A compressed air network entails linking a source of compressed air, from compressor to the distribution points. The advanced compressed air piping is made of aluminum pipes, loop together and connects pipes with a smaller diameter, known as drops feed off. These constitute compressed air distribution points, to which various equipment such as safety fittings, filters, flexible hoses are attached.

The Advanced compressed air piping network range comprises compact, lightweight and resistant pipes and fittings made entirely from aluminum. They are quick and easy to install and can be pressurized immediately.



TUBINGS AND CONNECTORS

Tubing and connectors keeps the pneumatic component connected and intact to perform task need by the machine.

Pneumatic push-in fittings, polyurethane tubing, coil hose, blow guns and other connectors are some of the components needed to ensure that the compressed air is delivered to the pneumatic component.

Tubing and connectors should better compact and durable to eliminate all risk of leaking while connecting the tool or pneumatic component to the compressed air piping system.



POINT OF USE ADSORPTION DRYER

Point of use adsorption dryers have been designed for continuous separation of water vapour from compressed air of the point of use machine. Operation of the dryer requires two columns operated alternately. Adsorption takes place under pressure in the first column while the second column regenerates with a portion of already dried compressed air at ambient pressure. Dryers consists from upper and lower control block, controller with display and two columns filled with desiccant. Springs in the columns make sure that the desiccant beads will not move during operation. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.



AUTOMATIC HOSE REEL

Automatic hose reels are essential equipment for an efficient workshop. They save time and enable flexible distribution hoses to be used in total safety and comfort.

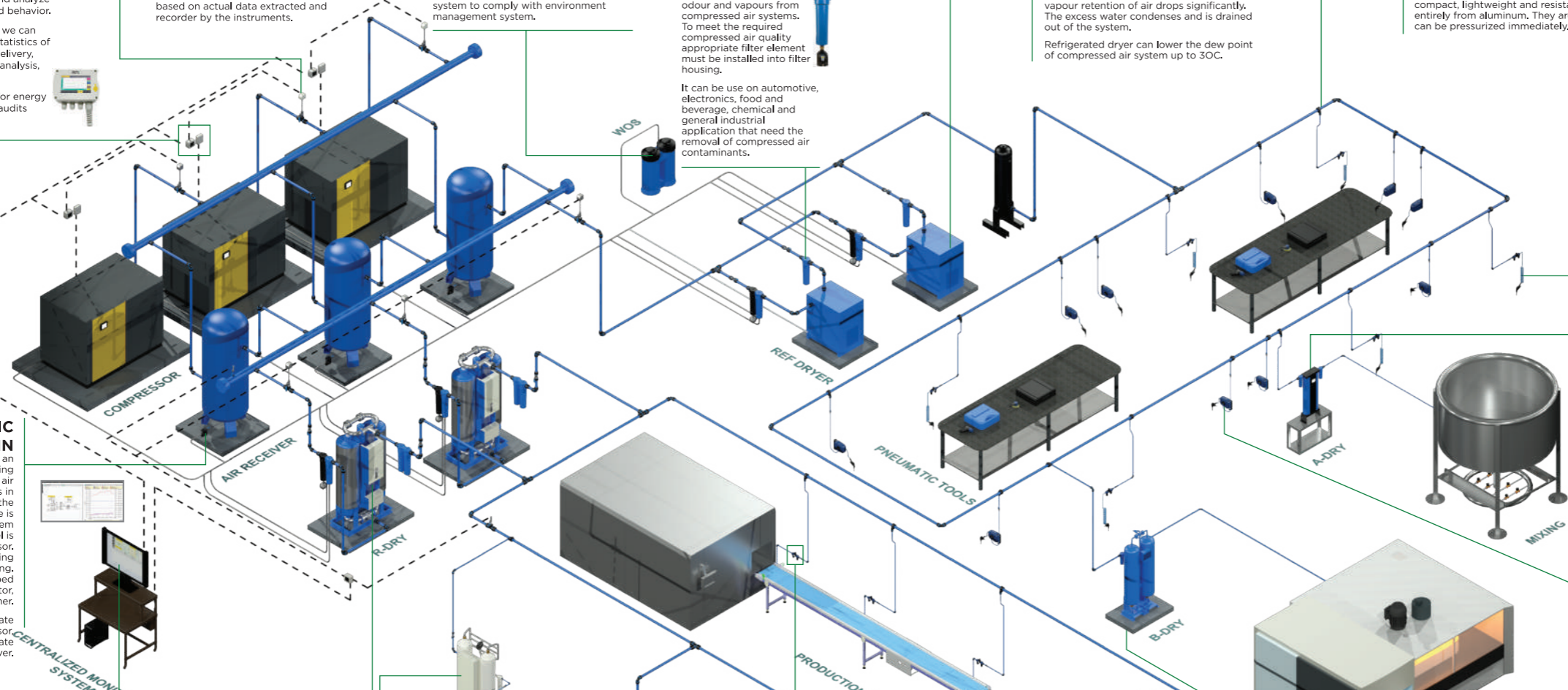
The technology and the quality of the materials ensure that the reels are robust and effective. Compressed air hose reels include quick safety couplings, offering hose whip protection and enabling single press depressurisation and disconnection of pneumatic tools in total safety.



AUTOMATIC CONDENSATE DRAIN

Automatic condensate drain is an electronic level sensing discharging units for operation in compressed air system. Condensate accumulates in the collecting reservoir and when the level is high enough condensate is being discharged from the system without any air losses. Fluid level is detected by precise level sensor. Special self-cleaning direct acting valve assures reliable operating. Condensate drain usually equipped with operation alarm, led indicator, test button and internal strainer.

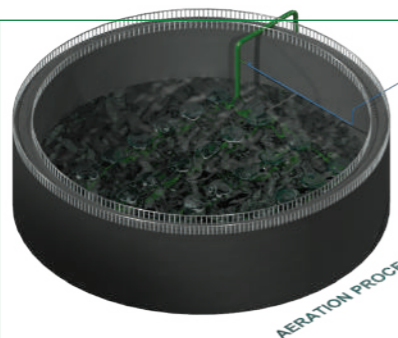
It can be use in condensate discharge of compressor, refrigerated dryer, condensate separator, filter and receiver.



CENTRALIZED MONITORING SYSTEM

COMPRESSED AIR CENTRALIZED MONITORING SYSTEM

Compressed air centralized monitoring system designed to monitor factory or building systems of all scales. For compressed air system it records and analyzes air consumption, system pressure, dew point, oil vapor contents, compressor status, particles basically everything required for a safe operation. Alarm monitoring with indications on screen, relay outputs and e-mail puts the user in control of the system. Monitoring system uses Modbus or industrial protocol for communication to the instruments. All data can be recorded and analyze for systems improvement.



HEAT REGENERATIVE ADSORPTION DRYERS

Heat regenerative adsorption dryers are designed for continuous separation of water vapour from compressed air thus lowering the dew point. It has two columns that operate alternately. Adsorption takes place under pressure in the first column while the second column regenerates using heated ambient air for desorption and expanded dry compressed air purge for cooling. Heat regenerative adsorption dryer consists of two columns, filled with desiccant beads, a blower, heater, controller with display, valves, manometers, and a support construction.

OXYGEN GENERATOR

The oxygen generators extract the available oxygen in the ambient air from the other gases by applying the Pressure Swing Adsorption (PSA) technology. During the PSA process compressed, cleaned ambient air is led to a molecular sieve bed, which allows the oxygen to pass through as a product gas, but adsorbs other gases. The sieve releases the adsorbed gases to the atmosphere, when the outlet valve is closed and the bed pressure returns to ambient pressure. Subsequently the bed will be purged with oxygen before fresh compressed air will enter for a new production cycle. In order to guarantee a constant product flow, oxygen generators use modules of two molecular sieve beds, which alternatively switch between the adsorption and the regeneration phase.

NITROGEN GENERATOR

The nitrogen generators extract the available nitrogen in the ambient air from the other gases by applying the Pressure Swing Adsorption (PSA) technology. During the PSA process compressed, cleaned ambient air is led to a molecular sieve bed, which allows the nitrogen to pass through as a product gas, but adsorbs other gases. The sieve releases the adsorbed gases to the atmosphere, when the outlet valve is closed and the bed pressure returns to ambient pressure. Subsequently the bed will be purged with nitrogen before fresh compressed air will enter for a new production cycle. In order to guarantee a constant product flow nitrogen generators use two molecular sieve beds, which alternatively switch between the adsorption and the regeneration phase.

FILTER, REGULATOR AND LUBRICATOR UNIT

Filters eliminate contaminants from compressed air (particles, water and oil) by filtration and bleeding. They ensure 95% separation of water, oil and solid particles greater than or equal to the selected filtration threshold. Regulators adjust pressure to the values required by each application. Oil mist lubricators preserve your pneumatic tools by injecting precisely metered quantities of lubricant into the filtered air.

HEATLESS ADSORPTION DRYER

Heatless Adsorption dryers have been designed for continuous separation of water vapour from compressed air thus reducing dew point. Operation of dryer requires two columns operated alternately. Adsorption takes place under pressure in first column while second column regenerates with a portion of already dried compressed air at ambient pressure. A dryer consists of two columns, filled with desiccant beads, controller with display, valves, manometers, support construction and suitable filter housings with the required filter element. Proven robust design enables efficient and reliable operation, fast installation and simple maintenance.

STAINLESS STERILE FILTERS

Stainless steel sterile filters have been specifically developed for removing of impurities from compressed air system. To meet the required compressed air quality appropriate filter element must be installed into filter housing. Sterile filter housing is also designed for sterilization. Stainless steel sterile filters are widely used in food and beverage application like packing, biotechnology, breweries, dairies and fermentation.

GRUNTECH COMPRESSED AIR AND GAS SOLUTION

Compressed air and gas are vital parts of manufacturing process. Gruntech can supply and support you with compressors, air receivers, compressed air and gas treatment equipments, gas generators, instruments, pipings, tubings, connectors as well as custom built system based on your needs.

OUR PARTNERS :

