K581

Waste gas separator

Use

An example of use is in the production of expansion valves, where residual gases remain in the production process.
K581 separator is used to collect these residual gases.
The gases are sucked into a separator, then liquefied and bottled so that they can be disposed of in an environmentally friendly manner.
Harmless gases are released into the air (air, N, He, etc.)
Examples of liquefaction are all common HFC, HCFC and CFC refrigerants (R12, R134a, R22, R404A, R410A, etc.) as well as A2, A2L and A3 refrigerants class (R290, R500a, R1234yf, etc.).
K581 separator is not intended for use in potentially explosive atmospheres and is not designed to collect explosive gases together with air!

Function description

The gases are automatically sucked into the vacuum reservoir after the inlet sensor detects pressure increase.
The vacuum in the tank is maintained by two independent compressors, only one compressor is always in operation, the other one serves as a backup or in case of need to increase the output.
According to the set conditions, the liquefied gases are filled into transport cylinders and non-condensable gases (air, N, He, etc.) are discharged.
There are two transport cylinders available on two weighing platforms. If one cylinder is filled, the operator is informed to replace the cylinder with an empty one. Meanwhile, it is filled into the second cylinder.
Except for the cylinder's replacement, everything functions automatically according to the set parameters.
Control, monitoring and testing can be performed from anywhere via web interface.

Technical parameters

Approximate dimensions, including weighing platforms: 950x1200 mm, height 1550 mm.
Inlet tube 12x1 mm, outlet tube 12x1 mm
Reaction to pressure from 0.02 bar
Working pressure of the vacuum tank 0.5-0.9 bar
Working pressure of transport cylinders 1-18 bar (according to collected gases)
Approximate collection capacity 1-20 kg / day.
Max flow rate approx. 5 m3 / hr
Transport cylinders volume - 5-60 liters.
Control via touch screen or web interface.

Most parameters, including performance, can be adapted to specific conditions.

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