



# Machine and System Boxes

Machine and System Boxes by SAMAD are individually designed to meet customer needs and manufactured to specific needs and countries. On request, solutions for extreme environmental conditions (desert or permafrost areas) can also be developed.

# History of SAMAD Industrietechnik GmbH



- 1990** Company founded in Bärenstein
  - 2002** First Machine and System Box supplied to Deutsche Bahn (German railway)
  - 2006** Moving from Bärenstein to Geyer
  - 2007** Extension of production facilities, Annex
- Currently 20 employees



# History of SAMAD-Průmyslová technika s.r.o.



- 1994** Company founded in Vejprty
- 1997** Moving to Jirkov (about an hour from the capital city Prague)





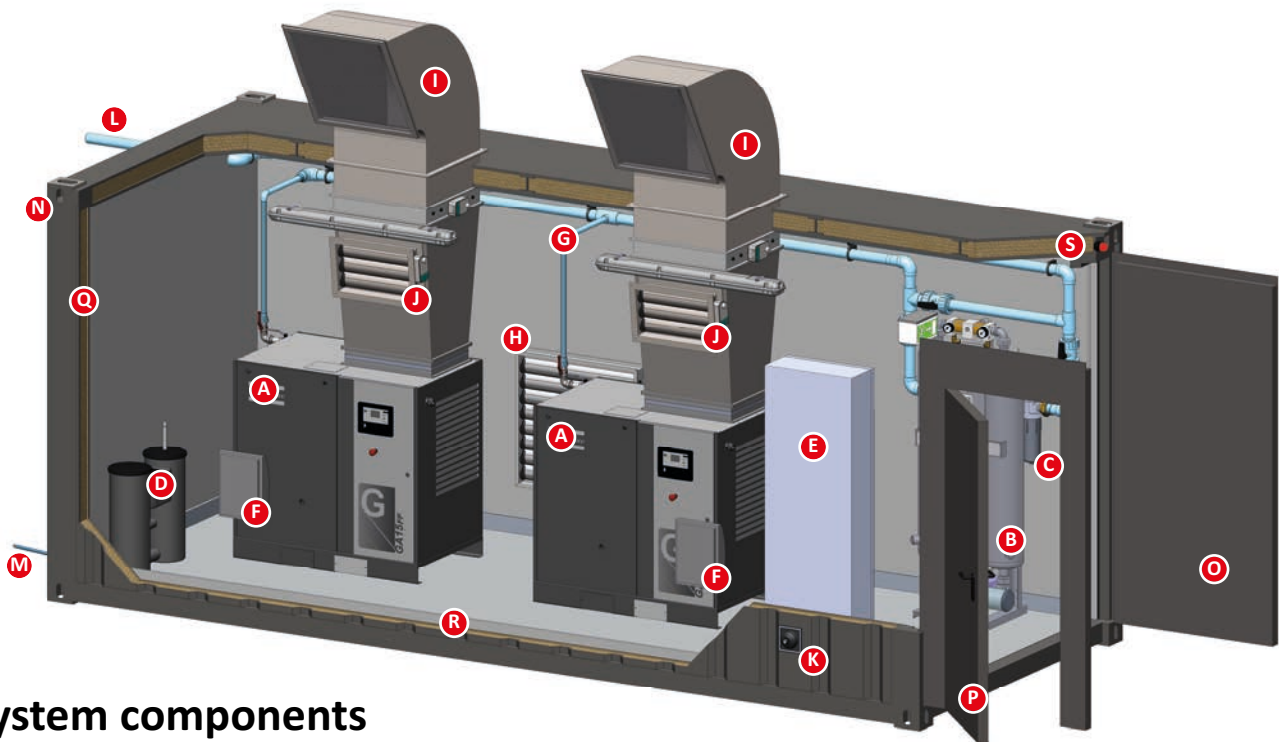
## Basic design



Container



Skid



## System components

- |                                                  |                                                           |                                                        |
|--------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|
| <b>A</b> Screw compressors                       | <b>H</b> Supply air opening                               | <b>N</b> ISO container corners for Twistlock locking   |
| <b>B</b> Desiccant air dryer                     | <b>I</b> Exhaust air ducts                                | <b>O</b> Two-wing container door                       |
| <b>C</b> Filter                                  | <b>J</b> Multileaf damper for recirculation               | <b>P</b> Wicket door                                   |
| <b>D</b> Oil-water separator                     | <b>K</b> Cable bushing for electric cables (power supply) | <b>Q</b> Sound and heat insulated fire-resistant walls |
| <b>E</b> Switch cabinet                          | <b>L</b> Compressed air outlet                            | <b>R</b> Water and oil-tight floor pan                 |
| <b>F</b> Electric quick heater                   | <b>M</b> Condensate discharge                             | <b>S</b> Warning light                                 |
| <b>G</b> Compressed air pipeline system Metapipe |                                                           |                                                        |

## Other possible components

- Piston, rotary tooth, scroll compressors
- Natural gas compressor
- Refrigerant air dryers
- Nitrogen generators
- Oxygen generators
- Pressure vessel for compressed air, nitrogen, oxygen
- ...

## Applications

- Mining
- Processing industry
- Railway (brake test stands)
- Food industry
- Energy technology (power plants)
- Agriculture (e.g. greenhouses)
- Electronics industry

## References



▲ Container with compressors, desiccant dryer, filter and oil-water separator  
Application: Brake tester for rail vehicles



▲ Skid with compressor, desiccant dryer, compressed air tank and filters

Skid with oil-free compressors, desiccant dryers, filters and compressed air tank  
Application: Greenhouse fumigation (CO<sub>2</sub>) in the Netherlands



SAMAD Machine and System Boxes have already been delivered and installed on four continents, in four different climatic zones – from subpolar to subtropical – among others in the following countries:



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