



Air-Main Charging Systems

DHS 4.0 Series

Compact assistants that make a big difference.

A system is only as good as its components.

www.kaeser.com

Scan the code to
learn more!



DHS 4.0 series

Compact assistants that make a big difference

DHS 4.0 series electronic air-main charging systems from KAESER not only provide protection for your compressed air treatment components, but also help ensure reliable compressed air quality. This even applies following complete shutdown of your compressed air supply system, for example at weekends. It is here where our air-main charging systems truly shine.

Since the network is often depressurised following periods of downtime, there is no flow resistance from the network pressure when the compressors are started. The compressed air treatment components in a compressed air supply system, however, are designed to accommodate the flow rates and speeds that occur in the distribution network when the system is in load operation.

Therefore, without back-pressure present, there is the risk that filter and dryer components may become 'overwhelmed' by the sudden surge in airflow that occurs when the system restarts. This can lead to filter element damage and to a raised pressure dew point in the refrigeration dryers. As a result, contaminants such as oil, particulate matter and humidity are introduced into the pipe distribution network and the process air.

DHS 4.0 series electronic air-main charging systems from KAESER eliminate these risks by guaranteeing the required minimum pressure, which consequently ensures smooth network start-up and safe operation of the compressed air station. Electronic air-main charging systems also prove highly useful during system operation – and are even essential for stations with multiple treatment lines – because they help assure consistently high compressed air quality. If a fault occurs with a dryer or a filter, for example, the air-main charging system is able to shut down and isolate the affected treatment line. This not only assures consistent air quality, but also safeguards the pipe distribution network and the air consumers in your production facility.

Moreover, this protection saves money: it minimises the burden on compressed air treatment components, air receivers and pipe networks and also prevents surge loads caused by large changes in pressure from occurring. This consequently ensures long service life, which in turn leads to considerably reduced costs. Connected to the SIGMA AIR MANAGER 4.0, it enables you to take full control of your system, assuring maximum compressed air supply dependability and availability.

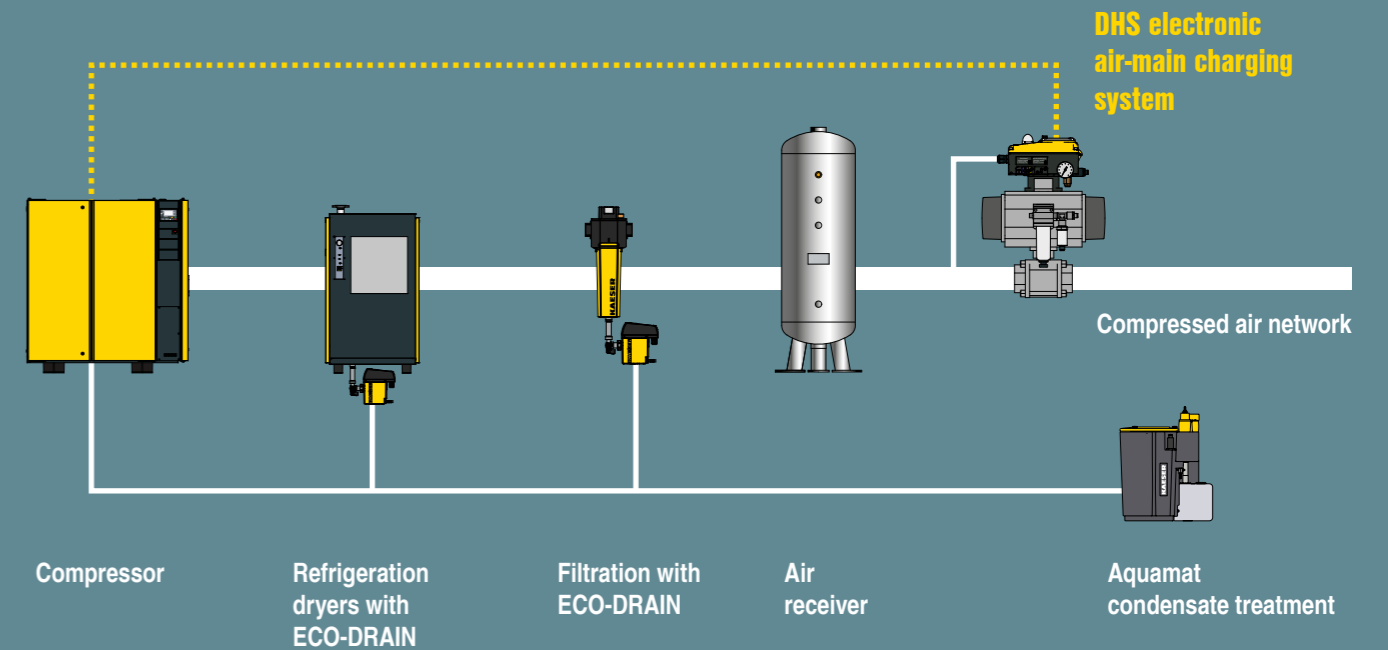


Flexible application

Image: Example compressed air station

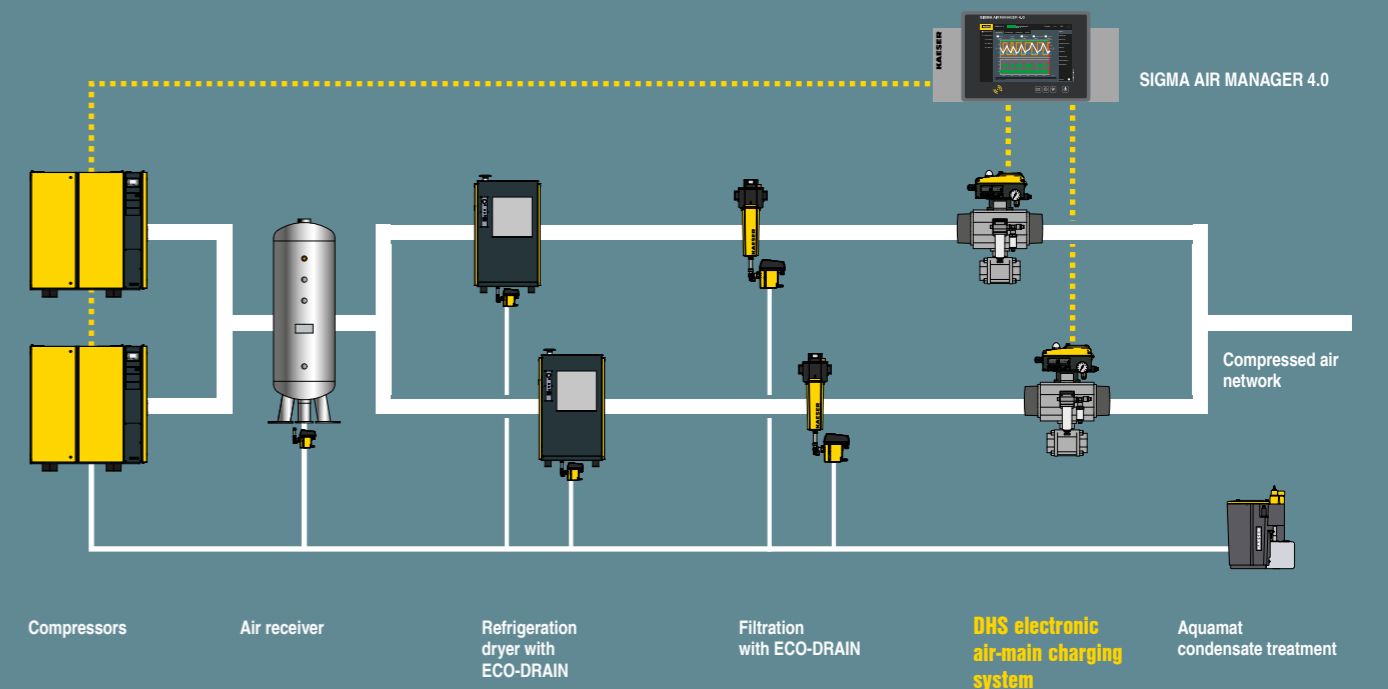
Reliable compressed air supply with air-main charging

Protects your components!



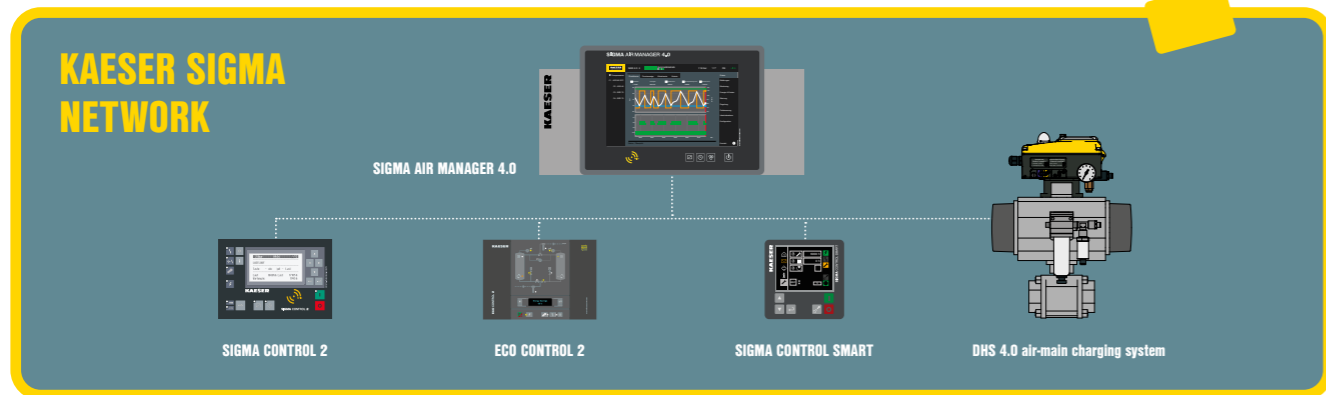
Reliable compressed air quality with air-main charging

Trouble-free production!



Perfect interplay

Data Transfer



We offer system solutions

DHS 4.0 series air-main charging systems, like all other station components, can be connected to the SIGMA AIR MANAGER 4.0 master controller via the SIGMA NETWORK.

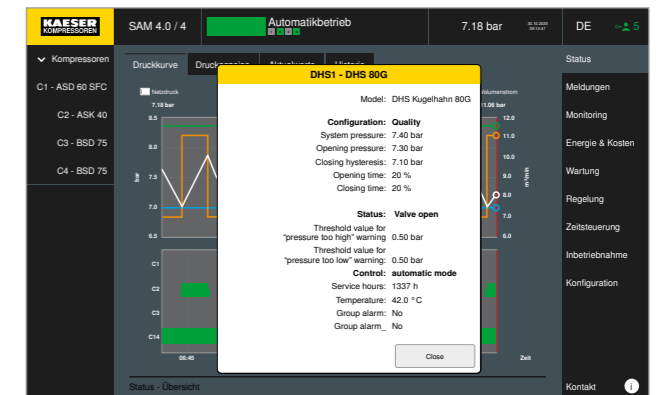
Information & communication

All relevant information, such as measured pressure values or status indicators, is shown in real-time and formatted for cross-machine communication.



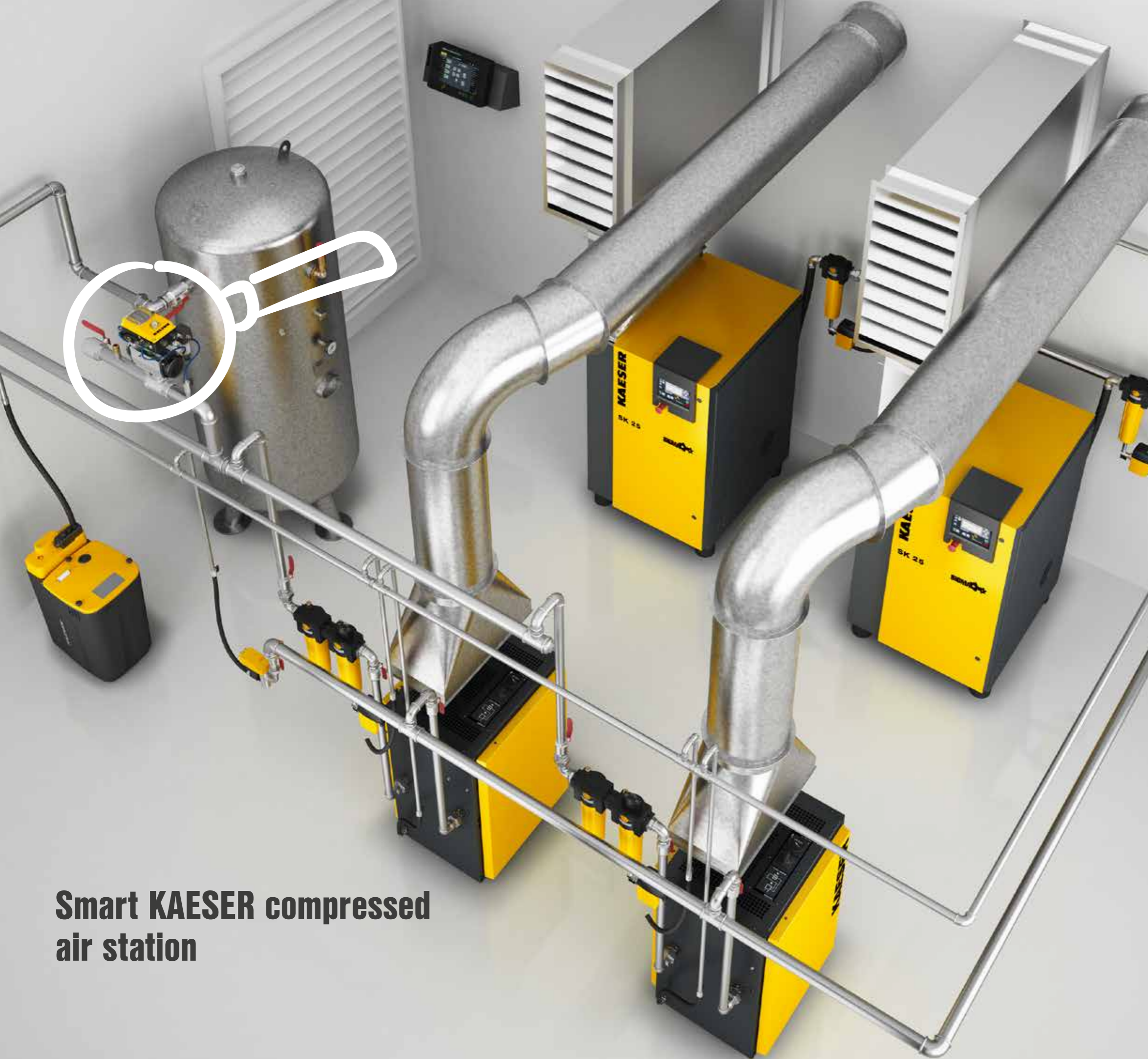
Expanded control and function capability

The air-main charging system can be easily adjusted to accommodate specific production periods and can be opened or closed, for example, via the controller's timer function. The real-time display keeps you informed of the operating state at all times. The SIGMA NETWORK connection provides you with direct control.



Convenient operation & display

In addition to the stand-alone capability of the DHS 4.0, you will also be able to use your SIGMA AIR MANAGER 4.0 for input and visualisation. The extended menu is intuitive to navigate and presents you with all essential information.



Smart KAESER compressed air station

DHS 4.0 series

A system is more than the sum of its parts

There is no mystery behind what it takes to create a reliable, efficient and energy-saving compressed air supply. Yet to many users, it can appear as if some strange and wonderful magic is involved. However, by simply observing a few points, it quickly becomes clear that this seeming sorcery is nothing more than an illusion and it is possible to achieve significant operating cost savings.

Therefore, in order to ensure proper planning and to benefit from efficient and dependable compressed air system operation, the following should be taken into consideration: in addition to demand pressure and process air requirements, factors such as piping, cooling, ventilation, spatial conditions and environmental aspects should be included in the planning process. A well thought-out system design lays the optimum foundation for effective operation later on.

Generation, treatment and compressed air storage are essential components when it comes to the supply of compressed air. If the treatment components are overwhelmed by excessively high air flow rates, or if a treatment line is not effectively closed-off in the event of a fault, unwanted contamination of the process air may occur. Moreover, unnecessary costs are incurred if the compressors also run at weekends to compensate for leakage losses.

With an air-main charging system from KAESER, these issues are a thing of the past.

We keep an eye on your compressed air system.

