

THE LINDE GROUP

AGA

Linde Expert Services Infrastructure Management

Outstanding in a supporting role



Infrastructure Management Service

The same high standard of quality that made us the medical gas experts is now the platform for an outstanding portfolio of services. We call it Linde Expert Services. It is our offering of reliability and peace of mind to our partners within healthcare around the world.

Linde Expert Services are designed to ensure the highest levels of patient safety. To us this means establishing pharmaceutical quality levels in the complete chain of events for gases and their supply all the way to the patient. In other words, the complete array of services that takes care of your needs and requirements for ensuring fail safe delivery, installation and maintenance of medical gas infrastructure.

Infrastructure Management Service (IMS)

Today's challenging healthcare environment demands that your facility is operating at the highest safety and performance levels. Now, more than ever, it is vital to have complete control of the infrastructure for medical gases and that all documentation is updated and compliant.

IMS is the service designed by Linde Expert Services to make the management of medical gas systems secure and simple. It assembles infrastructure information such as drawings and component interconnectivity, and makes it easily and highly accessible to you.

The IMS gives you access to powerful software applications on the Internet. You can check your drawings for standards compliance, and access and view the interactive model of your installations.

The IMS is part of a total service offering that includes the tools for improving the quality management system. Plus, you receive all the expertise and support necessary for maximising on the service benefits. We facilitate complete set-up, including advice and training on the use of the software as well as the entry of information into the software databases.

Thanks to the IMS, you will achieve heightened control of your medical gas infrastructure. This service assists you to ensure:

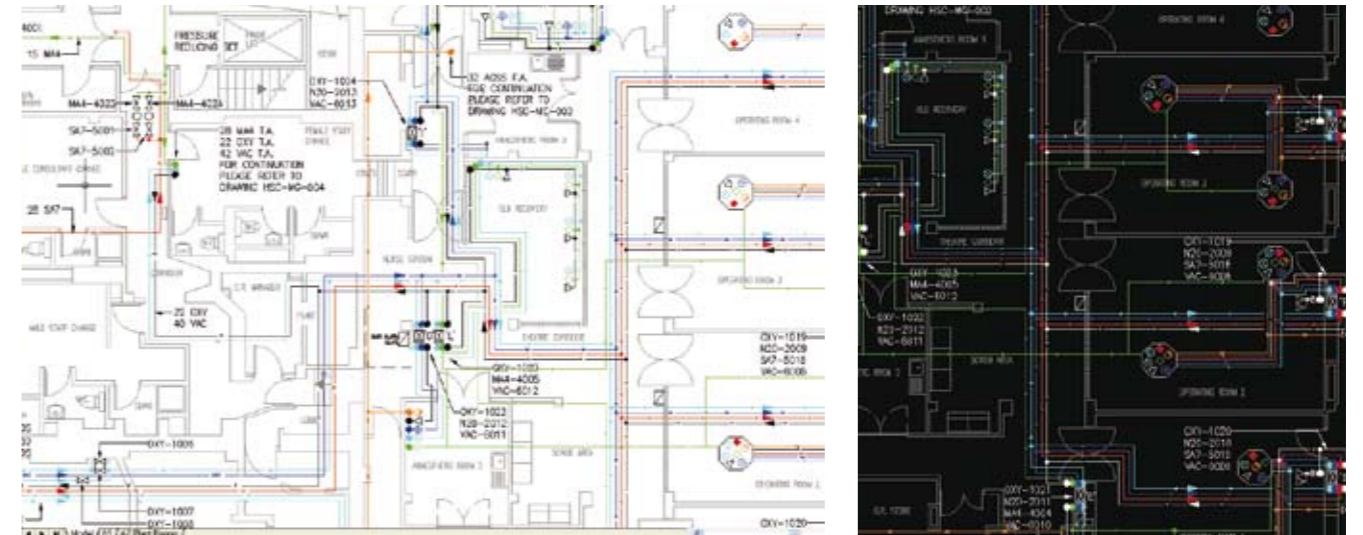
- High patient safety
- High quality
- High time and cost efficiency

The building blocks to an expert service

Automatic validation of drawings

The IMS validates compliance of drawing standards, checks for inconsistencies with respect to predefined rules, as well as for deviations from acceptable engineering implementation practices. CAD drawings are converted into a SQL database and all data layers are presented in a simple, user-friendly manner.

The service also enables 'as-built' drawings to be easily and quickly maintained and kept up to date. You need to simply select the relevant area when changes are to be implemented e.g. after refurbishments or changes in the infrastructure.



By reducing risks and assuring compliance, IMS provides help and solutions to many hurdles when managing your medical gas installations.

Benefits in brief:

- Quality check and automatic validation of drawings.
- Eliminates potential human error.
- Minimises dependency on personnel competence.
- Increases consistency.

Interactive consequence analysis

The IMS enables you to view an interactive model of your infrastructure system and to conduct trouble-shooting, simulation and training. The inter-connectivity between different components is mapped to give you the possibility to analyse problems utilising "what if" scenarios.

This can facilitate system testing and operation as well as planning for renovations. You can identify the effect of an activity and formulate risk assessments of the outcome, all on the system, before you take action.

In the event of an emergency, the IMS offers you the ability to swiftly and thoroughly analyse your infrastructure system. Accurate and specific identification of isolation valves or controls are provided by area, room or service. This aids in patient safety and effective risk management to the highest degree.

Benefits in brief:

- Interactive trouble-shooting possibilities.
- "What if" scenarios support simulations of the actual effects on screen BEFORE actions are executed.
- Provides understandable responses to operational queries.

One source of information

The IMS is the service that enables you to trace the history of modifications and is a source of compiled information when planning infrastructural renovations and investments.

Benefits in brief:

- One source of updated drawings.
- Simplifies and encourages the process of storing 'as-built' and up-dated drawings, thereby ensuring accuracy.
- Possibility for asset registration and management.
- Enables Web-based viewing of converted CAD files.
- Transparency of medical gas system knowledge encourages security by being independent of people.

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