

SOKRATHERM® GmbH Energie- und Waermetechnik

Over 40 years of experience with heat and power

The medium-sized company SOKRATHERM was founded 1977 by Dipl.-Ing. Hermann Meinhold in Hiddenhausen (north-western Germany) and is active in the energy and heat technology since then. Today SOKRATHERM is one of the leading producers of combined heat and power (CHP) generation units which efficiently and eco-friendly produce heat and power by employing the cogeneration principle.

In 1992, SOKRATHERM founded a subsidiary in Nordhausen (eastern Germany) on the site of the then existing "IFA-Motorenwerke" and erected an own production plant in 1996. In the course of continuous expansion, the production and administration area in Nordhausen was doubled in 2008, enlarged in 2012 and enlarged again in 2018. On today roughly 4000 m² are the CHP unit production with test sites and switchgear cabinet construction as well as the construction, purchasing, documentation and technical service departments equipped with latest information technology. In the head office Hiddenhausen the administration, sales and CHP project implementation departments are located. In recent years, company sales offices in Germany were added and international sales partners have joined. To date, SOKRATHERM engages over 100 employees and roughly 10 apprentices. With the entry of Dipl.-Ing. Johannes Meinhold into management in 2014 the transition of the family enterprise to the next generation was initiated.

Since the company founding, the product range has been extended from CHP units with roughly 50 kW electric power to substantially more powerful CHP units: In 1993, the company has become market leader in the 100 kW class, presented a compact CHP unit of the 200 kW class for the first time on the EXPO 2000 world exhibition, introduced the most compact CHP unit of the 400 kW and in 2013 the with 532 kW currently most powerful CHP unit built in compact construction.

In the lower power range SOKRATHERM presented in 2017 its all-new CHP unit type GG 50 which is even more compact than its predecessor and therefore the smallest ready-to-connect CHP unit of its power class. In all CHP units the CHP unit control based on an industrial PC allows for a fully automatic, unattended operation, a comprehensive web-based remote monitoring and the easy integration in virtual power plants.

Due to high product quality and continuous innovation SOKRATHERM compact CHP units enjoy an excellent market reputation which is documented in the customer satisfaction surveys conducted every year as part of the regularly ISO 9001 certified quality management system.

Numerous reports in professional media about innovative CHP schemes, awards like "Deutscher TGA Award 2014" for the Energiebunker Hamburg, the repeated election for "BHKW des Jahres" (CHP scheme of the year) by the German cogeneration association B.KWK (2009 and 2014) and the "Contracting-Award 2018" by the AGFW association confirm this as well as the satisfied customers of roughly 1500 delivered CHP units. Internationally, compact SOKRATHERM cogeneration units provide in over 20 countries not only in Europe (e.g. Italy, Netherlands, Belgium, Switzerland, Ireland, England, France, Spain, Latvia, Estonia, Ukraine, Poland, Slovenia,

Romania, Bulgaria and Russia) but also in South America (Chile, Argentina) for a reliable, eco-friendly and cost-efficient heat and power supply.

Among the customers of SOKRATHERM are industrial companies, hotels, BOO (Build-own-operate) and energy supply companies and municipalities as operators of hospitals, elderly homes and swimming pools. The specific advantages of the SOKRATHERM compact CHP units are:

- Excellent efficiency rate of 90 to over 104%, which provides for the optimal utilization of the energy contained in the fuel and minimizes the energy cost.
- Cost-efficient installation also in narrow rooms due to very compact design.
- Low integration cost due to the CHP integrated switchgear cabinet which minimizes the onsite wiring expenditures and the triple vibration damping which often makes a costly baseplate obsolete.
- Outstanding sound insulation which allows for an installation of the CHP units also in sound sensitive objects like hotels, hospitals and elderly homes.
- Comfortable, unattended operation by fully automatic switchgear with remote monitoring and control.
- Highest reliability and therefore low operation and maintenance costs due to carefully selected original serial parts for production and maintenance to secure high quality and a long-term supply with spare parts.
- Best protection of the environment with catalyst and self-calibrating lambda control for the gas engine operation in the lowest emission range.

The product range of SOKRATHERM contains:

- Compact CHP units in the power range 50 to 1 MW are powered by natural gas or the renewable fuels sewage gas and biogas.
- Installation of turnkey CHP schemes with one or more CHP units, boilers, buffer storages and master control with a total electrical power of up to 4 MW.
- Special configurations e.g with emergency power option, "hot cooling" to power absorption chillers, steam generation or thermal oil heating.
- Sophisticated operation and maintenance concepts in which the operator can be integrated in economically sound ways.

SOKRATHERM® GmbH Energie- und Waermetechnik
D-32120 Hiddenhausen, Milchstrasse 12
Phone: +49.5221.9621-0, Telefax: +49.5221.9621-34
e-mail: info@sokratherm.de Internet: www.sokratherm.com