

COMPANY PROFILE

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 PUMPS



**Modern Pumping Technology
 for HVAC Installations**

SMEDEGARD
 Pumping Technology



Headquarters in Denmark and Manufacturing Site for Centrifugal Pumps



Manufacturing Site in Switzerland for Glandless Motors and Circulators



Manufacturing Site in the UK for Pressurisation Equipment and Booster Sets



The Swedish Branch Office

Smedegaard have been manufacturing pumps for more than 65 years. Over this period the company has grown much larger with manufacturing operations in Denmark, United Kingdom, Switzerland, with a sales office in Sweden and representation in 28 different countries, spread over five continents.



Søren Smedegaard

- A Family Owned Group of Companies
- Production sites located in Denmark, Switzerland and United Kingdom with a branch office in Sweden.
- Sales and distribution in 28 countries

Smedegaard products are constructed to an extremely high level of craftsmanship. All pumps are effectively custom built to the exact requirements of the customer, giving Smedegaard a reputation for flexibility and quality.

We believe that providing our clients with products built to their specification ultimately saves them money in the long run and represents a value for money that is rare in today's market. The policy of Smedegaard has always remained the same – to produce a quality product, combined with a first class sales and service backup. Our objective for the future stays the same – the customer remains the most important factor with Smedegaard.

Søren Smedegaard, Group CEO

Investment in the latest technology enables us to satisfy the current market's requirements.

With the introduction of electronic glandless and glanded pump ranges, together with inverter drive cold water booster sets and state of the art pressurisation units. We are ready for the future.

- First Manufacturer of the Four Speed Glandless Circulators and Electrically Regulated Circulators
- Unique TUT Anti-Lime System for Bronze Pumps
- Eco Friendly 1-2-3 Construction with the Benefit of Easy Servicing

Smedegaard pumps have a reputation for long life and quiet operation, as well as being environmentally friendly. Our Eco policy for product design and production techniques has encouraged consultants and engineers to specify these products for many prestigious installations all over the world.

Smedegaard Manufacture an Extensive Range of:

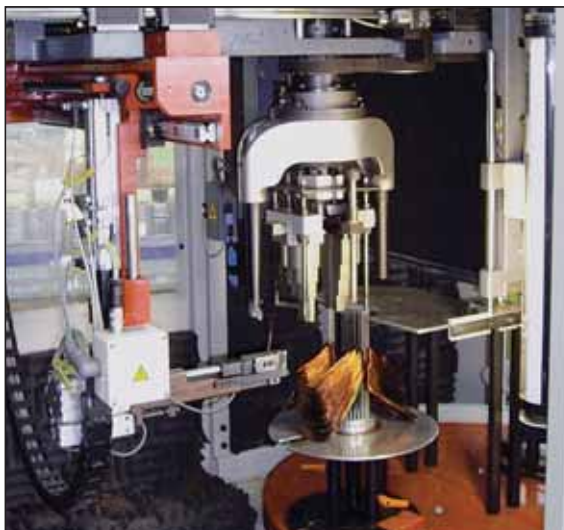
- Variable Speed Inverter Control Pumps
- Domestic, Commercial and Industrial Heating Pumps, Glandless & Glanded
- Chilled Water Pumps
- H.W.S. Bronze Pumps
- Pumps for Non-Aggressive Fluids

We also Design and Manufacture a Full Range of:

- Pressurisation Sets for Heating and Chilled Water Systems
- Cold Water Booster Sets with or without Variable Speed Drives
- Energy Saving Controls
- Category 5 Breaktank Cold Water Booster Sets



Quality manufacture means our products are durable and meet European rules



The fully automatic winding machine at our Swiss plant

These are produced at our factories in Denmark (Head Office), Switzerland and the United Kingdom. This extensive range of products is CE marked, complies with all international standards within the European Union and also meets virtually every requirement of the H&V industry.

**Quality Engineering Built by
Experts Means Exceptional
Value for Money and Superior
Workmanship**



Domestic/Light Commercial Three Speed & Electronically Regulated Circulators

- Complete range for domestic/ light commercial systems
- Energy efficient 'A' and 'B' rated models available
- 3-speed regulation
- 1 2 3 manufacture system
- 130mm and 180mm casings to replace most models
- Temperature range -15°C to +120°C
- Cast iron and bronze options
- Available as single and twin pumps



Commercial EV Four Speed Circulators

- Complete range of 1400 and 2800 rpm pumps
- Temperature range from -15°C to +120°C
- 4-speed regulation
- 1 2 3 manufacture system
- Clearly visible and robust 4-speed regulator
- Improved bearing lubrication system
- Cast iron and bronze options
- Available as single and twin pumps
- 'R' range replacement pumps
- Up to 65mm flanged for both PN6/PN10. PN10 for 80mm and over.



SimFlex & Isobar™ Circulator Ranges with Integral Variable Speed Drive

- Complete range of electronic controlled circulators (25-80 mm)
- Conforms with international energy saving regulations
- Regulates automatically without external sensors
- Electronic overload protection incorporated
- Also adjustable fixed speed setting.
- 1 2 3 manufacture system



Omega™ and VM™ In-line Glanded Pumps

- Pump casings, impellers and motors designed for high efficiency
- Advanced design reduces noise levels
- Non overloading capacity curves
- High quality stainless steel shaft, AISI 316
- Branch sizes from 25 mm to 300 mm, PN 10 and 16
- Flow rates up to 1300 m³/hr (360 l/s)
- Heads up to 90m (900kPa)
- Temperature range -25°C to +120°C (+140°C with special seal)
- Most models available as single-case twin
- Bronze models available for HWS installations
- VM pumps, VM heads, VM spares available



OmegaDrive™ & OmegaFlex™ Inline Inverter Controlled Glanded Pumps

- In-line glanded pumps inverter controlled
- Pump or wall mounted from 0.55 - 22 kW
- Above 22kW wall mounted drive available
- Automatic speed adjustment giving energy savings
- Soft start with built in motor protection
- Reduce noise levels
- Easy to install and programme
- Suitable to retrofit
- Available with factory fitted transducers
- Digital LCD display



End Suction Pumps

- Available 1450/2900 RPM
- Variable speed control available
- Max flow rate 400M³/h, max head 100m
- Temperature range -15/+120
- Available 3 phase or 1 phase up to 2.2 kW
- Bronze impellers available
- Many models available in bronze

Sump Pumps

- Extensive range AISI 304 stainless steel
- Light weight compact design
- Portable with carry handle
- Available with automatic float switch
- Built for continuous duty operation
- Double mechanical seal



HIL & HILVE Inverter Control Multistage Pumps



- All wetted parts stainless steel AISI 304/AISI 316
- Maximum flow rate 80m³/h, maximum head 400m
- Temperature range -15°C to +120°C
- Heavy duty ceramic bearings
- High pressure mechanical seals in carbon-silicon carbide
- 1400 rpm models available upon request
- Inverter control models available



Cold Water Booster Sets



- Complete range of booster sets
- Flow rates up to 60 l/s
- Heads up to 15 bar
- Single, twin and multiple pump sets
- Built in dry run protection available
- Anti surge protection available
- On or Off variable speed control
- Flexible pipe connectors available
- Anti vibration mounts available



Break Tank Cold Water Booster Sets



- Fully packaged sets
- Side by side or tank over pump models
- Single or multiple pump sets available
- On/off or variable speed control
- Low water protection as standard
- Standard range with breaktank up to 1000 litres
- Can be customised to specific replacement
- Insulated storage tanks for potable use
- Water supply regulation - Category 5 Compliant



Pressurisation Sets



- Open or cabinet housed sets
- Wall and floor mounted sets available
- Single and twin pump model
- Electronic control with digital display
- BMS connectivity standard
- Single or twin outlet
- Expansion vessels 5 - 3000 litres
- Compressor/pump controlled sets for larger installations
- Whisper quiet sets available
- BMS multiple volt free contacts option



Runaround Sets for AC Systems



- Combined pressurisation and circulating pump set
- Single or twin pump options
- High/low pressure switches available
- Common base plate for ease of installation
- Auto safefill package available
- Fixed speed pumps packages
- Variable speed pump packages



Shuntmaster™



- Prefabricated mixing shunt unit for heating or cooling
- Energy and money saving
- Multiple mounting options
- Built in pump and regulator
- Four temperature and pressure points to control function
- Accurate control with digital temperature display
- Regulator for 3 or 2 way operation
- Kvs - valves from 0.2 - 80.0
- Compact, flexible, professional and cost saving
- Option of external pump and built in regulator





Training department



The topics covered are:

- Pumps: types used in building services and their construction, pump selection, installation, servicing and fault finding
- Pressurisation Units: types of units, expansion vessel sizing, installation, commissioning and servicing
- Booster Sets: D.O.L. verses inverter drive types and benefits, efficiency, sizing, installation, commissioning and servicing

Smedegaard attaches considerable value to training, both for customers and staff alike. Investing in training can and does achieve attainable and tangible results. As shown by numerous surveys, companies who invest in training are those in the forefront of achievement.

With this in mind, Smedegaard have invested in extensive training facilities in Copenhagen Denmark, Beinwill am See Switzerland, Bridgwater, United Kingdom and Gothenburg, Sweden to create informative and interesting environments. These training areas include many working models of the products manufactured in Denmark, Switzerland and the United Kingdom. This allows hands on experience, proving to be most beneficial to the many visitors who attend. At least once a month, technical seminars are conducted at the factory or at the premises of customers.

The courses are attended by consultants, county council engineers, contractors, service engineers and students. In the United Kingdom the training is recognised by The Chartered Institute of Building Services Engineers (C.I.B.S.E.) as counting towards Continuous Professional Development (C.P.D) and certificates are issued accordingly.

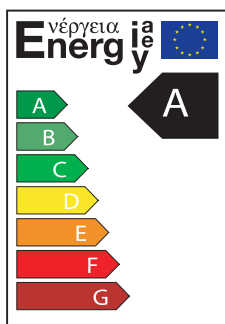
Our website provides customers and users of Smedegaard products with an up to date and reliable source of information that is informative and easy to use.

Within the Smedegaard website there is an online pump selection program that can be found in 13 different languages. The selection program allows the user to select pumps based on capacity, model name and replacement product. The program is easy to use and allows the user the get the pump they need. Additionally Smedegaard's website is a good resource for obtaining CAD drawings, PDF brochures and manuals.

Smedegaard are continually developing their products and services to improve users experience, in the near future we will release selection programs for both booster sets and pressurisation equipment.

www.smedegaard.com





- A-circulators have at least 60% energy saving compared with a average standard circulator.
- B-circulators have between 40 and 60% energy saving.
- C-circulators have between 20 and 40% energy saving.

You can depend on Smedegaard to meet the highest standards of design, manufacture and service. Our products are individually tested, thereby ensuring stringent quality control.

Smedegaard is focused on the needs of the HVAC industry and our staff can offer advice, technical support, commissioning and training services.



Smedegaard Denmark



Smedegaard Switzerland

As a member and with agreement of the Europump Manufacturers Association each Smedegaard circulator is energy labelled. The labelling is very similar to existing arrangement used for refrigerators and other appliances. The classification of the circulators is from A to G, where A is the most and G the least energy effective circulator.

Circulator pumps are responsible for up to 15% of the electricity consumption of an average European household. When offering your customer a circulator labelled A, B or C, both you and your customer knows the circulator selected is more energy efficient than a standard circulator –for the benefit of the environment and your money.

- More than 2 million Smedegaard pumps installed
- More than 70 years on the market
- A flexible partner



Smedegaard United Kingdom



VM Pumpar AB Sweden



Copenhagen Bispebjerg Hospital



Cardiff St. David's Hotel & Spa



Paris Grand Louvre



Moscow Vorobyovy Gory



Stockholm Waterfront



Bilbao Airport

There are millions of Smedegaard pumps in operation all over the world.

A few examples of our installations are:

- National Bank, Copenhagen
- Glostrup Hospital, Denmark
- KPMG Canary Wharf, London
- Attunda Courthouse, Sweden
- Saughhall Primary School, Cheshire
- The King's Palace, Morocco
- Tesco Stores (Throughout UK)
- Bilbao Airport, Spain
- Bokenäs Resort & Conference Centre, Sweden
- Honda UK HQ, Slough
- MFH Quartiersüberbauung Gland, Switzerland
- Chelsea FC Training Ground, London
- Te Papa Museum, New Zealand
- Stockholm Waterfront, Sweden
- Arsenal Emirates Stadium, London
- Donstroi Buildings, Moscow
- St. Davids Hotel & Spa, Cardiff
- Poole Hospital, England
- Gamla Ullevi Stadium, Göteborg
- The Grand Louvre, Paris
- University of Exeter, England
- Palacio de la Zarzuela, Madrid
- Halmstad Arena, Sweden
- Highfield Primary School
- Whole Foods, Kensington
- Carlsberg Breweries, Copenhagen
- The Globe Theatre, London
- World Culture museum Gothenburg, Sweden
- Turnberry Hotel, Troon (2009 Open Golf Venue)
- Red Cross Building, Oslo
- H M Prison Morton Lane, England
- Roskilde Hospital, Denmark
- Ringhals Power Plant, Sweden
- Birmingham Retirement Village, England
- Waitrose, UK (John Lewis partnership)
- Bispebjerg Hospital, Copenhagen
- Akzo Nobel, Sweden
- UWE University, Bristol
- Cadbury's Berkley Square, London
- Wyke Regis Junior School, Dorset

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Pumping Technology

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