



BeaconMedæS Australia

Capability statement





Life is in the details

For over 70 years, BeaconMedæx is delivering medical gas solutions that **play a vital role in hospitals around the globe in sustaining patients** when they are at their most vulnerable. The BeaconMedæx range exists of **medical air, vacuum and oxygen systems, manifolds, monitoring equipment and pipeline components**.

A leader in technology

BeaconMedæx has a long history of first introductions of important technologies. As recent examples, BeaconMedæx pioneered oil free claw pumps with Variable Speed for vacuum application, Ethernet networking for alarms, and HMI touchscreen interfaces for source equipment.

For the future, BeaconMedæx has under development impressive technical advances which aim to improve system reliability, economy and to contribute to our client's ability to provide superior patient care.

In 2006 BeaconMedæx became the global competence center for medical solutions within Atlas Copco. This acquisition brings additional product development expertise, powerful global brand recognition, and the extensive international sales and service distribution network of Atlas Copco, further fueling the global growth of BeaconMedæx.

Plantroom environment

BeaconMedæ's is the global leader in medical gas source of supply and pipeline equipment. With innovative products for every application, we are the one stop shop for all medical gas equipment.

Medical and CSSD Air Compressors

Complete range of oil-free medical and CSSD air, and oil-injected surgical tool air compressors in different capacities, pressure ranges and technologies. Regardless of required flowrate or outlet pressure, we have a compressor that will suit the application, and will provide industry leading air quality, efficiency, and reliability.

LFxD MED Piston Compressor from 0.5 kW to 1.5 kW

- *convenient and cost effective* - perfect compressor for micro medical and dental applications
- available as full-feature machine with integrated dryer, or as pack machine without integrated dryer, and either tank or floor mounted
- suitable for duty flowrates up to 3 l/s



SF MED Mono Scroll Compressor from 1.5 kW to 5.5 kW

- *quiet and compact* - ideal for smaller medical air and CSSD applications
- available as full-feature machine with integrated dryer, or as pack machine without integrated dryer, and either tank or floor mounted
- suitable for duty flowrates between 3 l/s to 10 l/s



SF MED Multi Scroll Compressor from 8 kW to 22 kW

- *reliable and scalable* - designed with medium size medical and CSSD applications in mind
- available as full-feature machine with integrated dryer, or as pack machine without integrated dryer
- suitable for duty flowrates between 13 l/s to 41 l/s



ZT MED Tooth Compressor

- *robust, efficient, ultimate* - the right choice for medium sized hospitals, all the way up to the very largest healthcare facilities and campuses
- available as fixed speed as standard, or VSD for massive energy savings
- suitable for duty flowrates between 30 l/s and above



AQ MED VSD Screw Compressor from 15 kW to 55 kW

- *specialised high pressure* - serves medical grade breathing air up to 13 bar pressure
- VSD as standard for massive energy savings
- suitable for duty flowrates between 20 l/s and above



GAVSD+ MED Oil-Injected Surgical Tool Air Compressors

- *reliable surgical tool air* - provides surgical tool grade air up to 13 bar pressure
- VSD as standard for massive energy savings
- suitable for duty flowrates between 20 l/s and above



Medical Air and Surgical Tool Air Purification Systems

We are at the forefront of medical and surgical tool air purification technology development. With a complete range of purpose designed and fully integrated air purification systems that include drying, filtration, control and monitoring, we can ensure the quality and purity of your medical and surgical air, thus ensuring the wellbeing of your patients.

MED+ Simplex Air Purifiers

- *compact and versatile* - fully integrated simplex solutions for medical and surgical air purity applications
- purge control, O₂/CO/CO₂ sensors, PDP sensor all available as options
- available in nominal flowrates of 12 l/s up to 142 l/s at 7 bar (duty only)



PMA Air Duplex Purification Centre

- *robust and complete* - fully integrated, duplexed solution for medical and surgical air purity applications
- includes a lead/lag controller for running hour equalisation of air compressors
- purge control and PDP sensor included as standard. Optional O₂/CO/CO₂ sensors
- available in nominal outlet flowrates of 6 l/s up to 155 l/s at 10 bar (duty/standby)



Single-Point Connection Medical Air Systems

A range of fully integrated medical breathing air systems that include all components required to generate AS2896-2021 compliant medical breathing air, all in one unit. The Scroll Air System comes in a full range of capacities, and simply needs to be located, powered up, connected into the medical breathing air reticulation, and can be turned on and commissioned, for the simplest, most cost effective, and safest, medical breathing air installation possible.

WSAS Scroll Air System

- *compact, robust, all-in-one* - fully integrated, multiplexed solution for medical breathing air generation, purification, and control
- includes a lead/lag controller for running hour equalization of air compressors
- single-point connection for power, air outlet, alarms, and auto-drains, allowing for the simplest installation possible
- available in nominal flowrates of 10 l/s up to 101 l/s at 8 bar



Medical Suction and Anaesthetic Gas Scavenging Systems

A range of fully integrated, AS2896-2021 compliant fixed speed medical suction pump systems to suit any clinical application. Available with integrated suction receiver, bacterial filters, and control and distribution board, our fixed speed suction systems offer a simple and cost-effective solution for any medical suction application.

mVAC Rotary Vane Tank-Mounted Suction System

- *reliable and convenient* - fully duplexed and integrated for small to medium size medical applications
- includes a lead/lag controller for running hour equalisation of all vacuum pumps and low level alarms
- includes integrated horizontal suction receiver and bacterial filters.
- available in nominal flowrates of 100 l/min up to 3,500 l/min (FAD, N+1)



mVAC Rotary Vane Frame-Mounted Suction System

- *robust and capable* - ideal for medium size medical applications • includes a lead/lag controller for running hour equalisation of all vacuum pumps
- vertical receiver and bacterial filters sold separately
- available in nominal flowrates of 2,250 l/min up to 8,750 l/min (FAD, N+1)



AGSS Side-Channel Blower Anaesthetic Gas Scavenging System

- *compact and versatile* - ideal for all anaesthetic gas scavenging purposes
- includes a separate control panel for remote activation of system at the point of use
- available in simplex or duplex configurations
- available in nominal flowrates of 260 l/min up to 2,600 l/min (FAD)



Premium Efficiency VSD Medical Suction

A range of AS2896-2021 compliant variable speed drive rotary screw medical suction pumps. With best-in-class energy efficiency, oil-retention and service intervals, our range of VSD medical suction pumps are the most robust and efficient solution for larger medical suction applications.

MSVVSD+ Rotary Screw Vacuum Pumps

- *efficient, versatile, ultimate* - the right choice for medium sized hospitals, all the way up to the very largest healthcare facilities and campuses
- includes VSD as standard for massive energy savings
- central controller, vertical receiver and bacterial filters sold separately
- available in nominal flowrates of 350 m³/hr up to 1,900 m³/hr (rarefied -60kPA per pump)



Patient environment



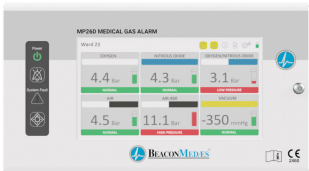
Medical Gas Cylinder Manifolds

The most robust and reliable fully-automatic medical gas cylinder manifold available. The BeaconMedæS MAT-S AS2896-2021 manifold includes a PLC, full-colour touchscreen, and pressure transducers to provide real-time information on cylinder contents, gas consumption, and time to cylinder change. With fully duplexed components throughout, it provides complete redundancy to ensure no disruptions, so the patient is always supplied with medical gas.



Medical Gas Alarm Panels *

The most innovative, HTM compliant medical gas alarm panel available. With full colour touchscreen and up to 40 inputs able to be monitored by each panel, the medical gas alarm panels ensure timely warning and alarm notifications to clinical and engineering staff when required.



Medical Gas Valve Boxes *

A full range NFPA compliant medical gas valve boxes from 1 to 6 valves total, and from ½” up to 2” valve sizes, for all medical gases. The BeaconMedæS medical gas valve box includes oxygen-cleaned isolation valves, auxiliary gas inlets, three-way valves and pressure switches for medical gas alarms, and threaded ports for testing and brazing purposes. The BeaconMedæS valve box is aesthetically pleasing, robust, and easy to install and maintain, ensuring the reliability of your medical gas supply and guaranteeing patient safety.



Medical Gas Outlets

A full range of AS2896-2021 and AS2902 compliant medical gas outlets for all medical gases. The BeaconMedæS medical gas outlets are compatible with all medical service panel designs, while being aesthetically pleasing and easy to use and maintain. The BeaconMedæS medical gas outlet includes a swivel head design to ensure ease of installation and fit-off, minimizing installation time and guaranteeing performance.



* Please check the availability with our Experts

Sustainable Healthcare



Cleaner, Safer Healthcare with Nitrous Oxide Solutions

BeaconMedaes Australia, in partnership with Swedish innovator Medclair, now offers advanced nitrous oxide solutions designed for Australian healthcare. These cutting-edge systems capture and neutralize N₂O emissions, improving safety, reducing environmental impact, and supporting healthcare facilities with real-time monitoring and energy-efficient performance.

Challenges

N₂O is an essential part of modern healthcare, but its properties are harmful for the climate and the work environment.

Solutions

Our systems handle the challenges with N₂O by decomposing the gas into Nitrogen and Oxygen.

Results

Implementing our systems enables safe and sustainable use of N₂O – protecting both people and the planet.

Central Destruction Unit (CDU)

The Central Destruction Unit is an ideal solution for situations where Nitrous Oxide (N₂O) is used simultaneously in multiple treatment rooms. The Central Destruction Unit safely decomposes the N₂O through a catalytic process which turns the gas into harmless Nitrogen and Oxygen.



Mobile Destruction Unit (MDU)

The Mobile Destruction Unit efficiently manages exhaled Nitrous Oxide (N₂O), and ensures a safer environment for healthcare professionals while significantly reducing environmental impact.



Nitrous Oxide Detector (NOD)

The Nitrous Oxide Detector provides users with indications of their exposure levels and the user can easily access data logs for evaluation. This unit is an essential tool for maintaining a safe and sustainable work environment during Nitrous Oxide (N₂O) usage.



MedGasScan

The MedGasScan tool utilizes advanced acoustic imaging to detect and quantify medical gas leaks in hard-to-access areas of your pipeline system.



Customer Care & Service

Atlas Copco and BeaconMedæes have a full complement of suitably licensed and extensively experienced service technicians within Australia, with 24 hour support available. Our service technicians are licensed by the relevant state body to carry out works on medical gas pipeline services, and understand the importance of maintaining supply of medical gases to the patient. As such, you can rely on the best possible quality of work and duty of care when your medical gas pipeline systems are being serviced and maintained by an Atlas Copco BeaconMedæes service technician.

Fixed Price Service

One time service intervention with predefined scope and costs bundled into a simple service package for your convenience. As all our services, also this one time service intervention is performed by our qualified and well trained service technicians with years of knowledge of compressed air equipment and applications.

Preventive Maintenance Service Plan

Tailor-made service agreement with full preventive service scope including all required original spare parts and lubricants together with related labour and travel costs, with fixed annual fee for your easy budgeting and administration. Service interventions are predefined according to annual equipment utilisation and service intervals are reviewed annually to ensure correct servicing of your equipment at all times. With a Service Plan in place the whole service delivery is with us, enabling hassle free operations, piece-of-mind and focus in your core business for you.

Extended Warranty+ Service Plan

Extended warranty service agreement for new equipment including Preventive Maintenance Service Plan scope together with a full five (5) year warranty for the equipment. Guaranteed performance for your new equipment maximising uptime and your piece-of-mind.

Total Responsibility Service Plan

Ultimate service solution to guarantee equipment uptime and availability at all times; including preventive maintenance, possible breakdowns and equipment overhauls as defined by condition based monitoring along the equipment lifetime. No surprises and no discussions as Total Responsibility Service Plan comes with predefined annual fee and clear scope for us to deliver and cover all related service, repair and overhaul activities and costs during the agreement period.



Visit www.atlascopco.com/en-au/compressors/service to enquire about medical gas pipeline systems servicing today.

BeaconMedæes Australia

BeaconMedæes in Australia specialises in medical gas source and pipeline systems. We assist our customers with exceptional technical support and customer service to maintain our name as one of the world's largest medical gas service providers. All products available from BeaconMedæes Australia have been purpose designed and built in compliance with AS2896-2021 for Medical gas systems - Installation and testing of non-flammable medical gas pipeline systems. This Standard sets out requirements for the safety aspects, construction, testing and certification, operation and maintenance of non-flammable medical gas pipeline systems used for patient care, therapeutic, diagnostic and for operating surgical tools.



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