



Efficiency for today
and tomorrow

Claw Medical Vacuum





Medical gas management

Take control of your medical gas management with the next generation of TotalAlert 360 touchscreen controls. An enhanced design, additional monitoring and trending, and connectivity with MyMedGas make these state-of-the-art controls your key to taking control of your medical vacuum system.





Touchscreen functionality

The high-resolution 10" touchscreen is simple and intuitive, featuring screens with easy-to-read color graphics and icons displaying the system's vital information. With a glance, quickly understand the system operation and identify any alarms or warnings.

Finding information is simple and intuitive. Easily navigate between screens for in-depth information on system performance, maintenance, and history, enabling you to fully understand and ensure proper operation of your equipment.

Some of the information you can easily find and evaluate:

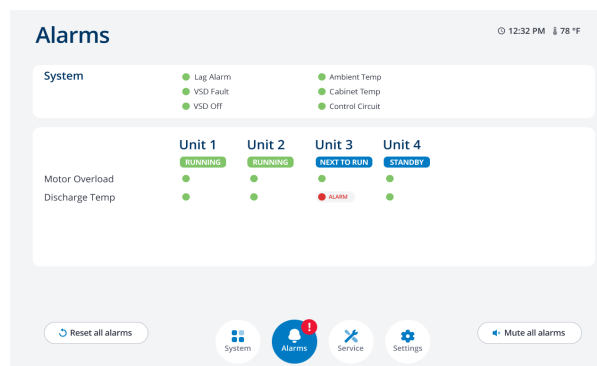
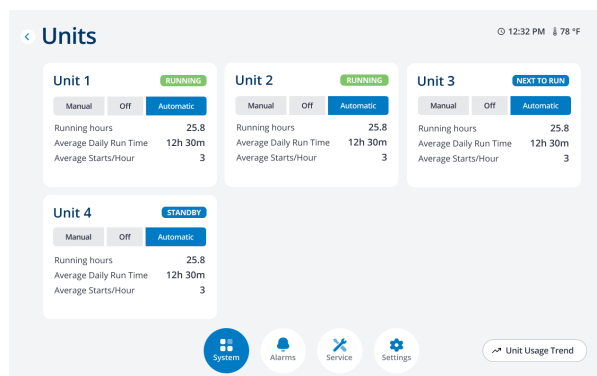
The main screen with vacuum level and VSD motor speed, with graphical images to quickly identify normal operation or cause for concern. Includes operating status of each unit, color coded to identify units in use, run order and availability.

Daily rounds (patent pending)

Standardize medical gas equipment daily inspections with a touch of a button on the main display screen. The controller uploads a digital snapshot of the system operating conditions to MyMedGas, where digital monthly reports are generated and stored.

Units screen with pertinent information for each vacuum pump, showing run status, run hours, average daily run time, and average starts per hour.

The alarms screen lists all alarms and shutdowns for each unit, providing current operating and alarm status individually, to quickly identify and evaluate what is occurring within the system. Create custom instructions for each event to ensure accurate and timely responses to all situations.





Proactive systems management

With the wealth of information available through the new TotalAlert 360 controls, you can more effectively manage your medical vacuum system. Access trend graphs, history event logs, and maintenance schedules with a touch of the screen, to better assess the operation of the equipment and proactively plan to maintain it.

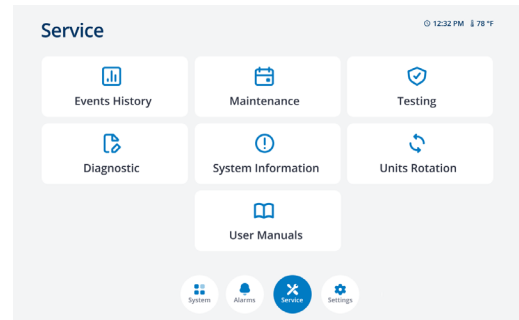
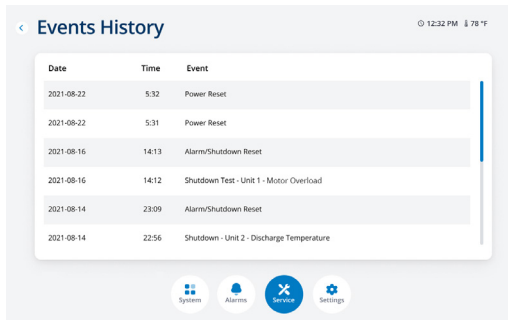
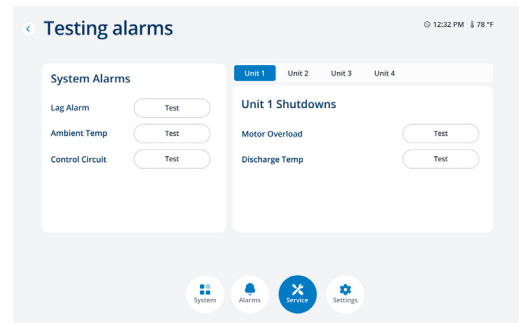
Use the Units Usage and Trend screens to evaluate the performance of the system, providing you with intelligence on how the system is responding to the medical vacuum demands of the facility. With trend graphs from sixty minutes to six days, clearly understand exactly how often and for how long each unit is running to respond to demand and use the information to evaluate the capacity of the system for the future.





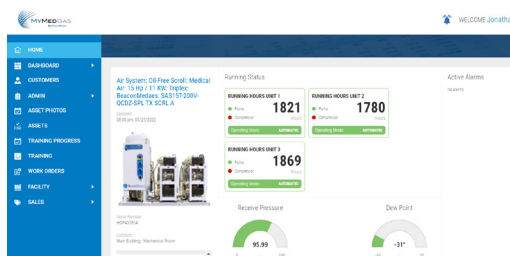
Testing and verification

Verification and annual testing are made with ease using the Testing alarms screen, allowing the inspector to actively set off each alarm circuit with a push of a button. Testing is then recorded in the event log which can easily be downloaded in MyMedGas for record keeping.



Connectivity

Connectivity for total remote management is so easy.

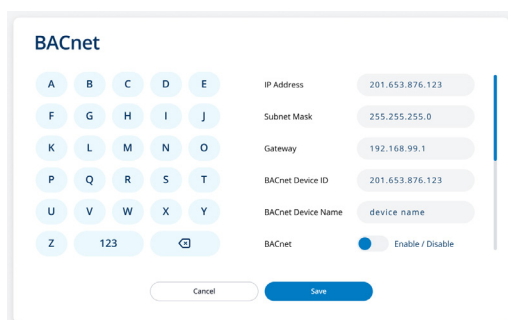


MyMedGas

Simply log into MyMedGas and monitor all your source equipment. No cables to run and operate on the facility's network, connectivity is cloud-based with data transmitting directly to your MyMedGas dashboard. Monitor your equipment from your desktop effortlessly, with loads of information from each piece of equipment clearly displayed on your device. Quickly download event and maintenance logs for record keeping in MyMedGas, so you have full control of your equipment.

BACnet

Another means of connecting the new TotalAlert 360 Controls is through BACnet/IP. With an Ethernet connection point at the top of the panel, connecting to the facility's network is a snap. With the BACnet activation included with the system, you can simply bring all data points and alarm points over to the Building Management System, the main hub for facility management.

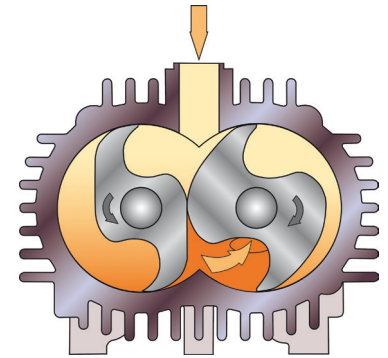


Most efficient vacuum technology available

Utilizing a dry, frictionless, multi-claw technology, the BeaconMedæ's Claw Vacuum System can provide significant savings in energy costs. The rotors (claws) spin in opposite directions, synchronized via precision gears. Although the pump design holds very tight clearances, the rotors never contact the housing or each other. This removes the need for any lubricant or seal fluid inside the pumping chamber and provides a highly efficient operation. High efficiency equals less horsepower and therefore less power cost over the life of the system. Uniquely, the variable speed drive option enhances power saving and machine life.

Low operating costs

The Claw is the least expensive technology over a five-year cost of ownership when compared with any other medical vacuum technology. Due to the superb efficiency of the Claw, which creates higher SCFM per HP, other technologies require more horsepower to achieve equivalent flows to the Claw. When you combine the high efficiency of the Claw with the low maintenance requirement, you will find it has superior operating costs over the life of the system.



Claw principle

Ease of installation

Discharge manifold: The discharge manifold has a true single point connection to the exhaust piping and features a factory installed drip leg with ball valve and stainless steel braided flex hoses.

Disassembly of system: The larger Claw systems can quickly be disassembled for transport through standard-sized doorways for installation. Reassembly requires few steps with mistake-free reconnections ensuring your system is wired exactly as it was intended.

Reliability

Vacuum filtration per NFPA 99: Factory installed HEPA inlet air filters are mounted before each vacuum pump, ensuring compliance with the latest NFPA 99 code requirements for vacuum filtration to achieve 0.3 micron 99.97% efficiency. A clear, glass collection canister is mounted below each inlet filter, with a quarter turn valve to isolate the canister from the filter during service. Included in the filter housing is a bleed valve to relieve vacuum before servicing.

Fittings and connections: Flanged fittings are utilized throughout the vacuum stream design. Non-threaded connections make servicing the system a snap and reduce the potential for costly leaks in the vacuum stream.

Redundancy: Nothing is more important from your vacuum system than non-interrupted vacuum service. BeaconMedæ's ensures there will not be service interruptions even in extreme circumstances with features such as a backup vacuum switch. In the case that the vacuum transducer should fail, the vacuum switch will ensure the pumps continue to provide vacuum service.



Variable speed drive

In medical facilities, the vacuum system must react to continuous demand fluctuations. Variable Speed Drive technology matches motor speed to vacuum demand, resulting in maximum efficiency of the vacuum system. The VSD provides the right amount of vacuum at all times: no more, no less.



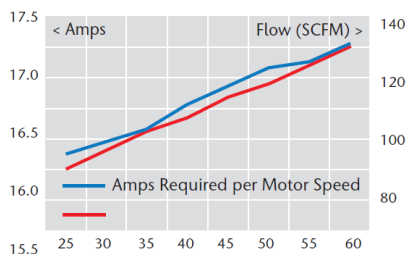
Energy efficiency

Conventional vacuum pumps run at full capacity to fill even the slightest demand, often running at partial loads but consuming power at full capacity. The VSD minimizes energy consumption and significantly reduces your energy expenses by matching the motor speed to the changing vacuum demand.

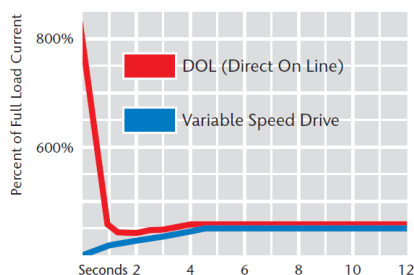


Longer machine life

Operating with low starting currents and slower pump speeds decreases machine and component wear. This results not only in lower maintenance costs, but lengthens the vacuum system life.



Energy savings



No current peaks



Consistent vacuum level



Reduced noise and heat

The Variable Speed Drive runs the vacuum at lower revolutions per minute than conventional systems. At lower operating speeds, the vacuum pumps emit less noise and heat into the equipment room, creating a better working environment.



Vacuum consistency

Functioning with a single vacuum level set point and adjusting motor speed in reaction to demand changes, the VSD maintains vacuum level consistency. This consistency improves the overall efficiency and quality of all vacuum end processes.

Multiple configurations

BeaconMedaes offers the Claw in a variety of formats in an effort to match your specific requirements.

- Space saving vertical package for smaller horsepower, with VSD available on 5.4 HP
- Single Point Connection base mount systems in all sizes 5.4 HP and larger, with the VSD option available
- Modular base mount systems to accommodate unique space requirements in all sizes 5.4 Hp and larger, with the VSD option available

System start up

Your BeaconMedaes Claw Vacuum plant includes the official start up by a BeaconMedaes service technician. With critical functions relying on your medical vacuum system, it's essential to have proper installation and functionality from start up.

- Proper system operation is assured
- Time and money savings if problems occur at start
- Elimination of potential warranty issues in the future

Preventive maintenance

The efficient operation and service friendly design of the Claw Medical Vacuum Systems keep maintenance interventions to a minimum. Effective service access combined with extended service intervals reduces maintenance downtime and increases vacuum availability.

- Low level of consumable parts
- Direct access to all service points
- Service warning function available via the TotalAlert 360 controller
- BeaconMedaes planned maintenance program available

