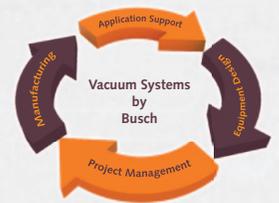
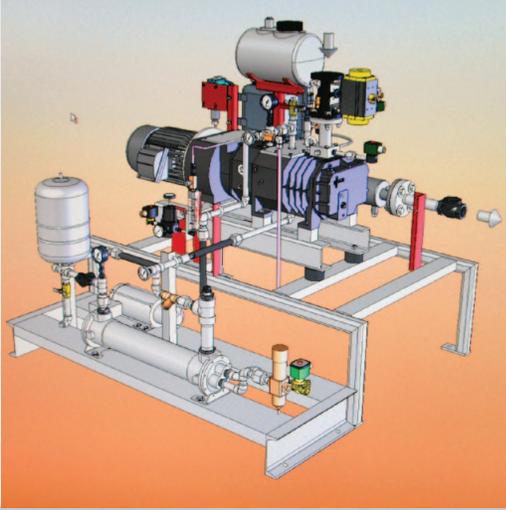


**Systems**

**Innovation**  
the act or process of innovating or something newly introduced; new

**Solutions**  
Problem-solving  
analyzing  
prediction  
potential can be

The collage features several key elements: a small inset of a group of people in a meeting; a large central image of a glowing lightbulb balanced on a person's fingertip against a green background; a magnifying glass focusing on the word 'Innovation' in a dictionary; a large graphic of blue puzzle pieces with one missing; and a bottom row of six small icons representing different types of vacuum pumps and mechanical systems.



# Innovation and expertise in vacuum systems technology

From simple point-of-use pump solutions to complex multi-pump systems, and anything in-between, the Busch team is here for you. We provide standard and custom system solutions for chemical, industrial and laboratory processes that require vacuum.

## Equipment Design

**Expect the best when you specify Busch** — Combining years of system design experience with process vacuum know-how, Busch engineers design ideal system solutions for chemical, industrial and laboratory applications.

Using modern 3D design software, each system goes through a digital design and modeling process to ensure component selection, fit and purpose. Each system is engineered using only high quality components and materials, resulting in a system that meets or exceeds the latest technical standards.

## Standard Vacuum Systems

Busch standard systems are pre-engineered, providing a cost-effective system solution for a wide range of processes and applications. Standard systems are available in multiple configurations, with options for pump technologies, controls and accessories.



Pressure transmitters on expandable systems

Single or multiple pump configurations

Vertical or horizontal receiver options

Rotary vane, rotary claw and rotary screw technology options.

UL listed standard control panels

Expandable or non-expandable configurations available

## Manufacturing

**ISO 9001 Registered and committed to quality** — Busch vacuum systems are manufactured at our U.S. headquarters in Virginia Beach, VA. Our state-of-the-art equipment and production facility is combined with qualified assembly technicians and extensive system knowledge and experience to provide you with the highest quality, most reliable system solution available today.

**CERTIFICATE**

TUV Rheinland of North America, Inc.  
12 Commerce Road, Newtown, CT 06470

Hereby certifies that

**Busch LLC**  
516 Viking Drive  
Virginia Beach, VA 23452

has established and applies a quality management system for the

**Design, Manufacture, Sales and Service of Vacuum Pump Systems.**

An audit was performed and documented in Report No. 7655. Proof has been furnished that the requirements according to

**ISO 9001:2008**

are fulfilled. Further certification regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by contacting TRNA.

Certificate Registration No.  
**74 300 7655**

<small>Original Certification Date:</small> January 20, 1998	<small>Certificate Validity Date:</small> December 15, 2009
<small>Certificate Modification Date:</small> November 2, 2009	<small>Certificate Expiration Date:</small> December 14, 2012

ANAB ACCREDITED

## Industrial Vacuum Systems

Busch industrial systems provide custom engineered solutions for industrial and laboratory processes and applications.

Our industrial-duty vacuum technologies include dry screw, rotary vane, rotary claw, liquid ring and rotary lobe designs.



## Process Vacuum Systems

For chemical, pharmaceutical and other harsh applications, Busch process systems are designed, engineered and assembled to meet your exact process requirements.

Our chemical-duty vacuum technologies include dry screw, rotary vane, liquid ring and rotary lobe designs.



## Combination Vacuum Systems

Busch combination systems are the ideal solution for backing high vacuum pumps for load lock and coating applications in the solar and semiconductor markets.

These compact systems are available with a choice of a dry screw or wet vane backing pump, and either a bypass or non-bypass vacuum booster.



## Liquid Ring Vacuum Systems

Water- or solvent-sealed Busch liquid ring vacuum systems are available in a wide range of configurations, materials of construction and with optional seal and bearing arrangements.

Our pumps meet API and HEI standards, manufactured from certified raw materials that ensure superior metallurgy and a long service life.



## Application Support

**We make it our business to know yours** — Busch engineers combine technical expertise with in-depth product knowledge to deliver unmatched application support for chemical, industrial and laboratory processes that use vacuum.

Our application support includes:

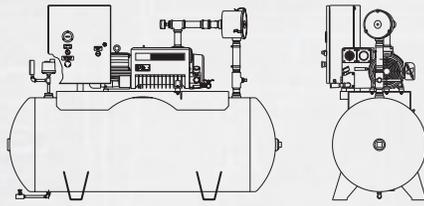
- Vacuum pump and system sizing
- Equipment and pump technology selection
- Vacuum accessories and pump lubricants
- Vacuum pipe sizing and materials selection
- Electronic controls, devices and programming
- Energy-saving options including variable speed controls
- Start-up and on-site assistance

## Project Management

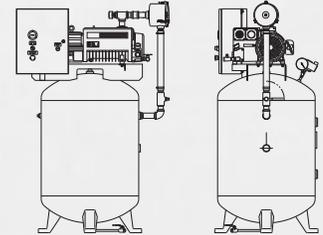
**From concept to completion** — Busch project management is a key part of our systems capability in planning, coordinating and controlling the diverse activities of our engineering, materials and manufacturing processes. Every vacuum system we make has a dedicated project manager who works to ensure that the system concept, design and performance fit the purpose.



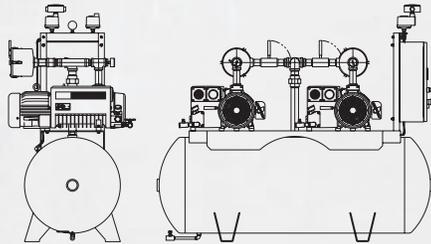
## Standard System Configurations



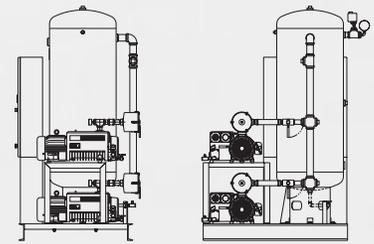
Horizontal tank-mounted simplex



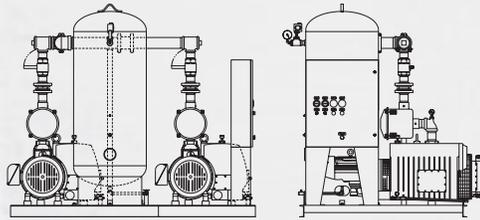
Vertical tank-mounted simplex



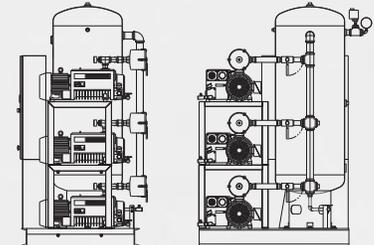
Tank-mounted duplex



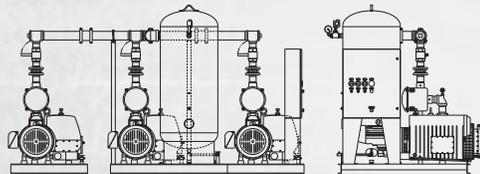
Vertically expandable duplex



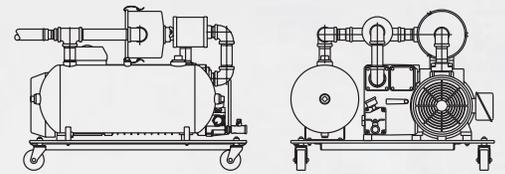
Horizontally expandable duplex



Vertically expandable triplex



Horizontally expandable triplex



Mobile simplex

### Quadraplex systems

All expandable systems can be expanded up to a quadraplex by adding mechanical and electrical expansion modules. Systems with more than four pumps are available by special request.

### Manual start simplex systems

Manual-start simplex systems are available. Contact your Busch representative for details and models.



[www.buschusa.com](http://www.buschusa.com)

Toll-free:  
**1-800-USA-PUMP**

Email:  
[systems1@buschusa.com](mailto:systems1@buschusa.com)