

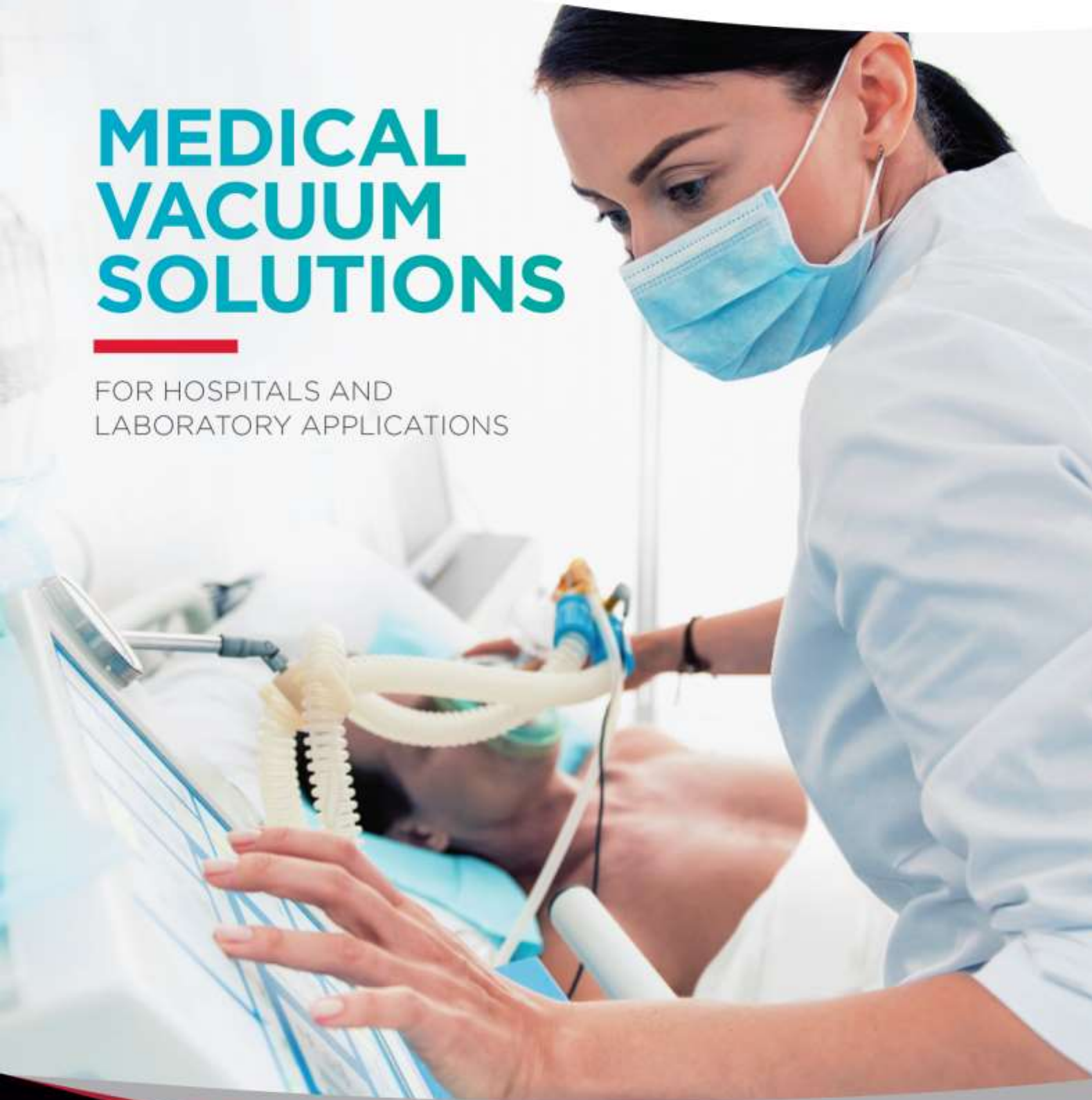


**Elmo  
Rietschle**

# MEDICAL VACUUM SOLUTIONS

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FOR HOSPITALS AND  
LABORATORY APPLICATIONS





# THE PERFECT PRESCRIPTION FOR YOUR **MEDICAL PACKAGE**

## WORKING WITH OUR **OEM** PARTNERS

We pride ourselves on working in partnership with our OEM partners to design, develop and deliver the optimum package for their solution. We can offer:



**STANDARD & BESPOKE**  
medical package solutions available.



**FULL COMPLIANCE**  
with ISO and Medical CE standards  
(HTM coming soon).



**ENGINEERING EXPERTISE**  
and support throughout the  
development process.



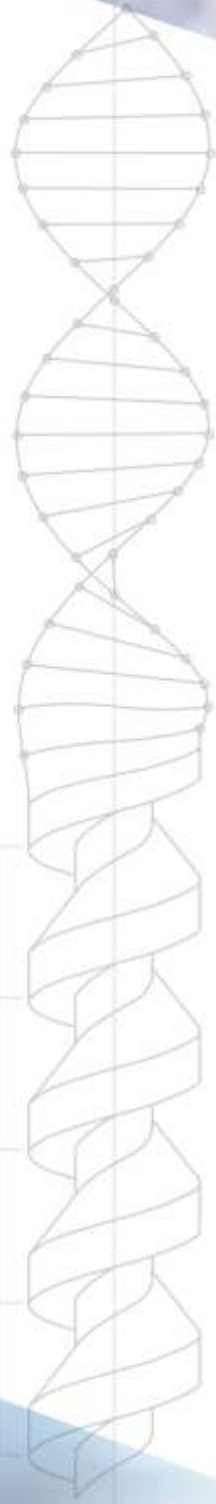
**OUTSTANDING**  
delivery performance.



**WORLDWIDE**  
after sales care and  
technical support.

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VACUUM IS  
IN **OUR DNA!**







## EXPERTS IN **VACUUM**

When looking for solutions to support your vacuum and pressure applications you need expert partners you can trust to provide you with the benefit of their experience and knowledge.



**OVER 70 YEARS**  
of product and application know-how.



**PRECISE KNOWLEDGE**  
of vacuum processes.



**HIGH QUALITY PRODUCTS**  
renowned for reliability, performance and  
low cost of ownership.



**A GLOBAL SERVICE NETWORK**  
with on-site support.



**KNOWLEDGEABLE**  
personal consultation from our engineers.



**UNMATCHED RANGE**  
of vacuum technologies available.

**LARGE RANGE OF** OIL LUBRICATED  
ROTARY VANE VACUUM PUMPS



**LARGE RANGE OF** DRY RUNNING  
CLAW VACUUM PUMPS



**LARGE RANGE OF** DRY RUNNING  
SCREW VACUUM PUMPS



**MEDICAL VACUUM  
SOLUTIONS**



# CENTRAL VACUUM SYSTEMS

Elmo Rietschle vacuum systems are used to supply vacuum in hospitals from a central location. They are manufactured to ISO Standard 7396-1: 2016, ISO9001:2015, DIR:93/42/CEE and comply to Medical CE Standards. We are able to produce different combination or customised systems for medical applications.

## MULTI-PUMP SYSTEMS DESIGNED TO SUIT YOUR EXACT NEEDS

Simplex, Duplex and Triplex Central Vacuum Systems offer highly efficient and reliable packages for vacuum supply.

- Simplex CVS X-VPK 1 series
- Duplex CVS X-VPK 2 series
- Triplex CVS X-VPK 3 series
- Multi-pump CVS X-VPK 4 series



## CENTRAL VACUUM SYSTEMS KEY FEATURES & BENEFITS

Our vacuum equipment is designed to deliver reliability, low cost of ownership and full reassurance. This guarantees maximum operational life with minimum maintenance and all our medical vacuum products carry the EC Declaration of Conformity CE Mark giving you total peace of mind. All our vacuum equipment is built to the highest standards and come with the following features:

-  **ANTI-VIBRATION MOUNTS**  
to minimise noise, wear and vibration transmittal.
-  **BUILT IN REDUNDANCY**  
for guaranteed supply of vacuum.
-  **INTERCONNECTING PIPEWORK**  
and wiring included with each system.
-  **STAINLESS STEEL FLEXIBLE CONNECTIONS**  
for all pump pipework.
-  **'FAIL SAFE' CONTROL SYSTEM**  
in event of power loss.
-  **ELECTRIC ISOLATOR**
-  **USER FRIENDLY CONTROL PANEL**  
with high visibility indicators and gauges.
-  **ALARM AND BMS OUTPUTS**  
for remote status indication.
-  **PRE-DELIVERY TESTING**  
and medical certification for every pump and system.
-  **FACTORY-SET**  
pressure switches and sensors for ease of installation and commissioning.
-  **PEACE OF MIND WITH OUR COMPREHENSIVE WARRANTY**  
12 months standard system warranty and up to six years extended warranty on vacuum pumps.





# PERFORMANCE WHEN THEY **NEED IT MOST**

## **OIL LUBRICATED** ROTARY VANE VACUUM PUMPS

Our medical Central Vacuum Systems use the Elmo Rietschle V-VC Single stage air cooled oil lubricated rotary vane vacuum pumps because of its high volumetric efficiency, low power consumption and outstanding reliability.

### **WHY THE V-VC IS THE PERFECT FIT FOR YOU...**

-  **COMPACT DESIGN**  
smallest pump available on the market.
-  **EFFICIENT PUMPING**  
and low ultimate vacuum level 0.1 mbar(a)

### **CENTRAL VACUUM SYSTEMS TECHNICAL INFORMATION**

This table shows a sample of popular CVS model package sizes. Medical specification vacuum vessels also available.

MODEL	PUMPS	LT/MIN	M <sup>3</sup> /HR
X-VPK 15-3	3 PUMPS	250	15
X-VPK 150-2	2 PUMPS	2500	150
X-VPK 303-3	3 PUMPS	5000	300
X-VPK 500-2	2 PUMPS	8300	500

\*Note: Additional packages available.



-  **O-RING SEALED COMPRESSION CHAMBER**  
for complete sealing.
-  **INLET MESH FILTER**  
and return valve integrated in suction side.
-  **EASY SINGLE SIDE ACCESS**  
to all serviceable parts via innovative patented side hatch design.
-  **LONG LIFE VANES**  
Proven in industry over thousands of applications and operating hours.



## ANAESTHETIC GAS **SCAVENGING SYSTEM**

The AGSS is an efficient and highly reliable gas removal vacuum package suited for breathing and ventilation medical systems.



### **DUPLEX PUMP SYSTEM** KEY FEATURES & BENEFITS

The Duplex offers a highly efficient and reliable package for vacuum supply. Available in two pressure options, the GSE is for normal duties whilst the GSH offers higher differential pressure for distant installations.

-  **FULLY COMPLIANT**  
to ISO 7396-2:2016, HTM 0202 and Medical CE Standards.
-  **INLET AND EXHAUST**  
supplied with check valves and copper pipe line connections.
-  **PRE-SET VACUUM**  
and pressure balance valve.
-  **SPACE SAVING DESIGN**  
with minimal footprint required.
-  **ALARM AND B.M.S OUTPUT**  
connections on all duplex models for remote monitoring and management.
-  **DRIVE OPTIONS AVAILABLE**  
50 and 60Hz motors plus the option to use variable speed drive (VSD).
-  **FULLY TESTED**  
and certified prior to dispatch.
-  **REMOTE CONTROL PANEL**  
up to 15 panels available.
-  **PEACE OF MIND WITH OUR COMPREHENSIVE WARRANTY**  
12 months standard system warranty and up to six years extended warranty on vacuum pumps.





# FLAWLESS RELIABILITY

## MODELS: G-2BH1 AND G-2BH7

At the heart of our is the Elmo Rietschle Side Channel Blowers. With its proven reliability in service over many decades, performing flawlessly day in and day out with virtually no down time it's the perfect choice for critical medical applications.

## WHY YOU SHOULD TRUST THE G SERIES SIDE CHANNEL BLOWERS



**RELIABLE & BUILT-TO-LAST**  
virtually maintenance free.



**UP TO 40,000 OPERATING HOURS**  
without maintenance down time.



**USE WORLDWIDE**  
UL/CSA/IEC/EN approval.



**EFFICIENT PUMPING**  
performance with pump options  
delivering up to 1600m<sup>3</sup>/hr



**EXTREMELY LOW COST OF OWNERSHIP**  
and energy consumption.



**SMOOTH RUNNING**  
due to contactless technology.



**LOW NOISE**  
level as a result of acoustic engineering.



**PULSATION FREE**  
for constant and stable vacuum supply.

**GSE WITH 2BH1** FOR SHORT PIPING AND LOW PRESSURE DROP

**GSH WITH 2BH7** WITH HIGH PERFORMANCE FOR LONG PIPING FOR HIGH PRESSURE DROP

## ANAESTHETIC GAS SCAVENGING SYSTEM TECHNICAL INFORMATION

Variable speed drive options available on request.

MODEL	PUMPS	NM <sup>3</sup> /HR
GSE 50	2 PUMPS	50
GSE 140	2 PUMPS	143
GSE 300	2 PUMPS	315
GHS 45	2 PUMPS	50
GHS 95	2 PUMPS	90

\*Note: Additional packages available.



**Elmo  
Rietschle**

We have locations throughout the world to better supply and support you. Our expert local service personal speak your language.

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- CORPORATE HEADQUARTERS
- SALES/SERVICE LOCATIONS
- MANUFACTURING LOCATIONS

ELMO RIETSCHLE  
**LOW PRESSURE & VACUUM SYSTEMS**

[www.gardnerdenver.com/vacuumsystems](http://www.gardnerdenver.com/vacuumsystems)

[vpotech-systems@gardnerdenver.com](mailto:vpotech-systems@gardnerdenver.com)



**MISSION CRITICAL  
INDUSTRIAL  
AIR SOLUTIONS**