

# **Gardner Denver**

**HIGH PRESSURE SOLUTIONS**

## Defence Solutions

Smarter Compressor Technology





## Gardner Denver - High Pressure Compressors

With the Gardner Denver Compressors brands, we have grown into one of the world's most respected organisations within high compression technology.

We build our future with total respect for our unique heritage and by demonstrating our passion for our global brands through technology leadership.

Our team is professional, customer focused and leaders in their field ensuring you are equipped with exactly the right high pressure solution.



## Reavell

### Global Defence

Gardner Denver High Pressure compressors have been the compressor of choice for many Ministry of Defence organisations globally for many years. Servicing the needs of many armed forces on land, sea and air through a wide range of varied applications.

Our advanced range of reciprocating compressors can be counted upon in the harshest of environments, delivering high pressure air at point of use when its needed most.

Where ever you need high pressure air or gas, Gardner Denver compressors will support you either through our standard range of compressors or by delivering a custom engineered solution to meet your exacting standards.

### Key benefits

- Operate in harsh environments
- Fresh or sea water cooling options
- Small compressor foot print
- Rugged & durable construction
- Proven reliable operation
- Easy servicing schedules
- Optimum machine availability
- Extended service intervals



## Unrivalled Application Know-how

### Performance. Reliability. Durability

Here at Gardner Denver, we have the ability to understand our customer's specific requirements and are committed to ensuring we provide intelligent solutions that meet your ultimate needs for high pressure applications.

With the direct drive high efficiency motors or with belt driven arrangement and the latest extended life materials technology, the Gardner Denver High pressure compressor range offers unrivalled high performance.

Our compressors are suitable for a wide range of defence applications. Rely on our expertise to select the right compressor for your needs. Below is an example of what Gardner Denver can offer to meet your requirements.

- Air guns - 5417N
- Ballast and stabilisation tanks - 5417N – 5437N
- Breathing air - HAB10, HAB15, HAB20, HAB40, HAB50 & HQI30
- Centralised air systems - 5417N – 5437N
- Engine starting air - 5417N
- Nitrogen - Military aircraft fuel systems to reduce fire hazard - 5437N2
- Propeller masking - 5417N
- Radar cooling - 5417N
- Thermal imaging - Cryogenic Cooling Systems - 5417N
- Torpedo charging - 5417N
- Weapon & Missile guidance systems - 5417N – 5437N
- Engine start - 5437N
- Non magnetic signature for minesweepers - 5307/5407 & R25H-AL-N



# Range & Performance Capability

## Reavell 5417N

The H 5417 is a 4 stage, water cooled, lubricated compressor offering reduced wear, excellent reliability, longer life, simple maintenance and extended service intervals. This Compressor is quick to install and simple to configure to your site and user requirements. This compressor type can manage a wide variety of gases, depending on the application. Typical gases include industrial air, breathing air, nitrogen, heliox, natural gas, helium. Other gases available. Limitations apply and subject to selection.



### Performance statistics:

140 to 350 barg (2031 to 5076 psig)  
25 to 68 m<sup>3</sup>/hr (15 to 40 cfm)

## Reavell 5437N

The H 5437 is a heavy duty 4 stage, water cooled, lubricated compressor set designed to operate in the harshest of environments but easy to maintain. This compressor type can manage a wide variety of gases, depending on the application. Typical gases include industrial air, breathing air, nitrogen, heliox, natural gas, helium. Other gases available. Limitations apply and subject to selection



### Performance statistics:

160 to 414 barg (2321 to 6005 psig)  
62 to 159 m<sup>3</sup>/hr (37 to 93 cfm)

## Reavell HAB10

The HAB10 is a 3 stage, air cooled, lubricated compressor offering reduced wear, excellent reliability, longer life, simple maintenance and extended service intervals. This compressor is quick to install and simple to configure to your site and user requirements. This compressor can manage a range of gases, depending on the application. Typical gases are industrial air, breathing air and nitrogen.



### Performance statistics:

85 to 350 barg (1233 to 5076 psig)  
6 to 8 m<sup>3</sup>/hr (4 to 5 cfm)

## Reavell R25H-AL-N

The R25H-AL-N is a radial 4 cylinder, 4 stage, air cooled, non magnetic compressor. Designed for continuous operation. Belt Drive or Direct Drive Options available.

### Performance statistics:

138 to 276 barg (2000 to 4000 psig)  
10 to 25 m<sup>3</sup>/hr (6 to 15 cfm)





## Unrivalled Application Know-how

The Gardner Denver ranges also available as complete packages that include all essential ancillary items such as starter control panels with PLC logic systems, energy efficient motors, air dryers, air receivers, filters and optional cooling systems to suit all site conditions and application requirements.



## Gardner Denver Full Turnkey Installation, Commissioning & Training

Correct installation is essential in providing long-term compressor reliability. Gardner Denver provide full turnkey solutions from initial site surveys through to design, installation and final commissioning.

Our fully qualified engineers assess all critical factors such as location, radiated heat, noise and air inlet conditions to ensure the complete compressor installation functions reliably whatever the environment.



Gardner Denver work closely with over 42 defence organisations worldwide. Gardner Denver offer total solution packages which incorporate High Pressure, Low Pressure & Vacuum Pumps for today's modern defence air systems for all armed forces divisions.



## What Makes Gardner Denver High Pressure Compressors **Unique?**

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| Unrivalled Durability         | Ability to work in the most onerous environments                      |
| Low Power Consumption         | Use of energy efficient equipment ensuring lower operating costs      |
| Small Compact Footprint       | Reduction in space requirements leads to cost savings for floor space |
| Simple Installation           | Compact skid packages thus reducing installation costs                |
| Balanced Operation            | Dynamically balanced removing the need for any special foundations    |
| Low Maintenance               | Use of latest material technology reduces service costs               |
| Robust Construction           | Ensures continuous 24/7 operation maintaining production output       |
| High Operating Efficiency     | Results in maximum compressor and plant performance                   |
| Single Turnkey Partners       | A single source for all air and gas requirements                      |
| Global Supply & Local Support | Dedicated sales and service centres protect your investments          |
| Expert Selection Ability      | Ability to select for all applications and environments               |

### **Specialist Defence Knowledge and Experience**

As early as 1905 Reavell was involved in the design and manufacture of 'High Pressure' compressors, suitable for a working pressure of 3600 psig.

The intended application for these high pressure compressors was torpedo charging on naval vessels.

On ships the torpedoes are generally launched from a triple-barreled launcher by compressed air. These may be mounted on deck or below. On submarines, torpedoes have been carried externally as well as internally. The latter have been launched in the past by stern tubes as well as by the more normal forward ones.

# Unrivalled Application Know-how

Gardner Denver understands the challenges facing our global client base in today's changing environment and takes pride in offering an exemplary global aftermarket programme covering spare parts, service and support. Our global teams fulfil all service requirements throughout the life cycle of your equipment. Effective maintenance of your high compression systems not only ensures uninterrupted process stability, but offers the additional security of scheduled maintenance programmes.

Choosing our aftermarket professionals offers you a comprehensive service support package that can continue far beyond the initial installation phase.

As part of our life cycle commitment, Gardner Denver can additionally offer you a total solution approach, providing a variety of extended warranty programmes within a service contract framework.

## Refurbish and Recycle

When your high pressure compressor reaches the end of its service life, it does not mean you need to replace it.

Even the best engineered high pressure compressed air equipment has a limited life expectancy and after many years of faultless service can become inefficient - costing you valuable time and money.

Gardner Denver offers advanced research and development facilities, a dedicated and experienced team, a class leading manufacturing centre and an undivided attention to high quality engineering excellence.

With one of the industry's most experienced refurbishment teams based in Redditch (UK), Gardner Denver can offer your business a full diagnostic evaluation and recommend a programme of refurbishment which will bring your existing high pressure system back to optimum operating specification.



A world map with a light gray background and white country borders. Red dots are placed on the map to indicate locations. In North America, there are four dots: two in the United States (one in the Northeast, one in the Southeast) and two in Mexico. In South America, there is one dot in Brazil. In Europe, there are five dots: one in the British Isles, one in France, one in Germany, one in Poland, and one in Sweden. In Africa, there is one dot in South Africa. In Asia, there are four dots: one in the Middle East (Oman/UAE region), one in India, one in China (East), and one in Japan. In Southeast Asia, there are two dots in Indonesia. In Oceania, there is one dot in Australia. A red banner in the top right corner contains the text "HIGH PRESSURE SOLUTIONS" in white capital letters.



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