Haldex offers proprietary vehicle technology solutions to the global vehicle industry within specific niches. We focus on products to improve safety, the environment and vehicle dynamics.

We are enhancing our competitive capabilities and building long-term customer relationships through high performance, low total costs to the customer through the product’s service life, ethical business practices and commitment to long-term partnerships. Haldex operations are divided into four business areas: Commercial Vehicle Systems, Hydraulic Systems, Garphyttan Wire and Traction Systems.

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A Combination of Products Results in Superior Air Treatment

While every Haldex air treatment product can be used individually, using a combination of products results in superior air treatment for maximum efficiency. Using the Consep™ before either the PURest® or DRYest® air dryers significantly increases the desiccant cartridge life for reduced maintenance and downtime costs. By aggressively removing contaminants from the air system, premature wear, corrosion and freeze-up is minimized. The end result is enhanced efficiency and longer service of the entire air system for cost efficient operation over the life of the vehicle. The slide-on-off Multi-Treatment Cartridge of the PURest® and DRYest® simplifies maintenance. The Consep™ uses a simple, filterless design to separate and remove contaminants efficiently with minimal maintenance. The Automatic Drain Valve (ADV) automatically releases moisture from the tanks each time the brakes are applied.

Four Reliable Products

The Haldex air treatment family consists of four reliable products – the PURest® and DRYest® air dryers with Multi-Treatment Cartridge (MTC), the Consep™ Condenser/Separator, and the Automatic Drain Valve (ADV). Each Haldex air treatment product is designed for easy installation, reliability, and long service life. They are perfect examples of how Haldex is applying “innovative vehicle technology” to every aspect of the braking system.

Clean Air Ensures System Efficiency And Reliability – And Reduces Overall Costs

Haldex air treatment products work individually or in combination to minimize the build-up of water, oil, and other contaminants while simultaneously minimizing maintenance. Contaminants in the system clog valves, deteriorate rubber parts, and wash away necessary system lubricants. This leads to corrosion, premature wear and freeze-up, which compromises system efficiency and can cause costly system failure and unnecessary downtime.

The Consep™ (Condenser/Separator) uses a simple, filterless design to separate and remove contaminants efficiently with minimal maintenance. The Automatic Drain Valve (ADV) automatically releases moisture from the tanks each time the brakes are applied as a first line of defense. The large volume desiccant cartridges of the DRYest® and PURest® simplify maintenance.
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Multi-Treatment Cartridge: For Clean Dry Air

Representing the new generation of desiccant cartridge air treatment systems, the patented technology of the Haldex MTC is an extremely efficient drying system, removing up to 99% of contaminants in the compressed air system while treating up to 30 CFM. That performance makes it ideal for systems with high air consumption.

The MTC provides exceptional airflow while minimizing the risk of getting water or contaminants into the brake system. This in turn reduces opportunities for corrosion and freezing problems, as well as protecting the rubber and plastic components from aggressive, destructive hydrocarbons in the air brake system.

The efficiency, reliability and ease of installation are unmatched by any competitor. The heart of the unique functionality of Haldex air dryers is our new interchangeable, high performance MTC, which is now utilized on all Haldex Cartridge Type Air Dryers.

1. Drops and solid particles are eliminated by the first filter of fine meshed corrosion- and chemical-resistant aluminum.

2. Large molecules (e.g., hydrocarbons from petroleum residues) are eliminated in the first desiccant bed.

3. A second desiccant bed removes additional water vapor and the majority of other dangerous contaminants.

4. Continuing through the main desiccant bed, the remaining contaminants and virtually all of the water molecules are captured. A resulting dew point of –30ºF is common.

5. As a final precaution, the air flows through a dust filter before entering the system.

Quick Change: The cartridge can be removed by lifting it a mere 10mm off of the base plate. This slide-in-out design allows for quick installation and quick replacement—while saving space.

Regeneration: With every compressor cycle, the dryer back flushes a volume of air through the MTC for cleaning of the filters.

Safety: Because you don’t have to replace the entire unit—just the cartridge—the canister can be built to last, and with great safety.

The one supplied by Haldex is designed to last the lifetime of the dryer due to low mechanical stresses and great heat and chemical resistance.

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The Haldex DRYest® is designed to provide clean system air with the lowest initial system and lifetime costs. This is accomplished by being the most integrated Air Dryer available. DRYest® comes with integrated: turbo protection valve, governor, regeneration valve, muffler, and heater. DRYest® adapts to fit YOUR application.

For Your SYSTEM PURGE Applications...

For Severe Applications, use Consep™ as a pre-treatment device to ensure the highest quality air possible and to extend desiccant life.

For Your INTEGRATED PURGE Applications...

The Haldex PURest® is designed to provide clean system air with minimal initial and lifetime cost. The key is the successful combination of the highly efficient Multi-Treatment Cartridge and a large purge volume. The large integrated purge volume eliminates the need for a separate purge tank. The PURest® also features a unique mounting bracket that eases retro-fit installation regardless of what air dryer is currently used in the system.
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The Haldex Consep™ efficiently accomplishes three critical functions for air system performance: condensing, separating, and expelling 90% of contaminants. It is ideal for less demanding systems or for high air use vehicles as a pre-treatment before the air dryer where it typically doubles the life of the dryer’s desiccant cartridge. The Consep™ requires very minimal maintenance over its long service life. It employs a circular air path where the air is cooled, causing the contaminants to fall out. The condensate then runs down to the bottom of the unit where liquids are expelled through the integrated drain valve at the next brake application. Easy installation and reliable operation make the Consep™ an ideal solution to ensure air system performance and longevity with minimal costs.

**Consep™ Operation**

The circular air path of the Consep™ and external cooling fins cause liquid and oils to condense and separate from the air before continuing on through the system.

**Consep™: Low-Maintenance Condenser/Separator**

The circular air path of the Consep™ and external cooling fins cause liquid and oils to condense and separate from the air before continuing on through the system.

**Automatic Drain Valve: Trouble-free Liquid Removal**

The Haldex Automatic Drain Valve (ADV) uses a unique design to remove liquids from the compressed air tank. Each time the brake is applied, any accumulated moisture is expelled. Eliminating manual drain valves saves operators time while ensuring that the liquid is removed regularly for optimum system performance. And like all Haldex air treatment products, the ADV is simple to install or retrofit to existing air reservoirs.

**ModulAir™: The Future Of Air Treatment**

The future of air treatment, a Modular Air Treatment Unit (ModulAir™), combines the functions of the air dryer, governor, and pneumatic valves into one unit, which is capable of interaction with the engine management system and other vehicle systems. The ModulAir™ system eliminates the need for multiple valves and provides a dramatic improvement in air system performance.

Haldex is a world leader in air treatment technology and braking technology in general. One of the reasons for our success is a willingness to work with customers to design an air treatment system specifically for their vehicles. Our customers will play a critical role as we develop and refine advanced electronic air treatment technology.
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Consep™ Operation

The circular air path of the Consep™ and external cooling fins cause liquid and oils to condense and separate from the air before continuing on through the system.

Air enters the circular air path of the Consep™

Large external cooling fins cause liquid and oil to condense and separate from the air

Clean air continues on to the remaining components of the air system

Contaminants are held in the bottom, while clean treated air continues on into the system

Contaminants run to the bottom of the system

Water and oil are expelled from the system at the next brake application

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Automatic Drain Valve: Trouble-free Liquid Removal

INTEGRATED Filter prevents large debris from damaging the valve

Sealed electrical connection prevents corrosion

Built-in heater prevents freeze-up

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The ModulAir™ will minimize air components on heavy vehicles of the future.

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