



CHALLENGER'S ENVIRONMENTAL SUSTAINABILITY



ENVIRONMENTAL SUSTAINABILITY

Challenger is Unwavering in its Commitment to be an environmentally friendly company

Challenger works closely with the truck manufacturers and our safety department, and we specify our equipment to be as light and aerodynamic as possible.

IDLING EMISSIONS POLICY

Challenger has established targets for idle reduction with all our drivers.

More than 80% of our highway fleet is equipped with technologies such as cabin heaters or cabin climate control (both heating and cooling).

For units not equipped with Anti-Idling technologies:

SINGLE DRIVER THRESHOLD: <30% (total trip time)

TEAM DRIVER THRESHOLD: <10% (total trip time)



A photograph of the Challenge Headquarters building, a modern glass-fronted structure. The word "CHALLENGER" is visible on the upper part of the building. Below it, "FIRST CLASS" is written. Further down, there are banners that read "PAY · SAFETY · SUPPORT · EQUIPMENT" and "LIFESTYLE · LEARNING · THE COMPANY".

CHALLENGER'S HEADQUARTERS

Challenger's concern for the environment was an important factor in designing and constructing our high-performance headquarters.

We received **LEED® certification** to ensure we effectively used the land and minimize the environmental impact of construction and daily operations.

KEY FEATURES INCLUDE:

- ✓ Energy efficiency, heat recovery and ground source pumps for heating and cooling
- ✓ Preference given to products with zero/low VOCs (volatile organic compounds)
- ✓ Low flow fixtures, reducing water consumption by 34%
- ✓ 90% of the interior spaces have natural light
- ✓ Preference given to local and recycled materials



Challenger is presently purchasing technologies and developing additional technologies which will utilize electricity (batteries) to provide the heating and cooling for the truck cabins limiting idle time.

There is no fossil fuel required to produce heating or cooling while the truck is stationary.

All units equipped with anti-idle technologies have targets set below 5% of total trip time.

Challenger units are satellite-equipped and engine data related to idle is downloaded weekly. All drivers exceeding thresholds are then scheduled for interviews and training as required.



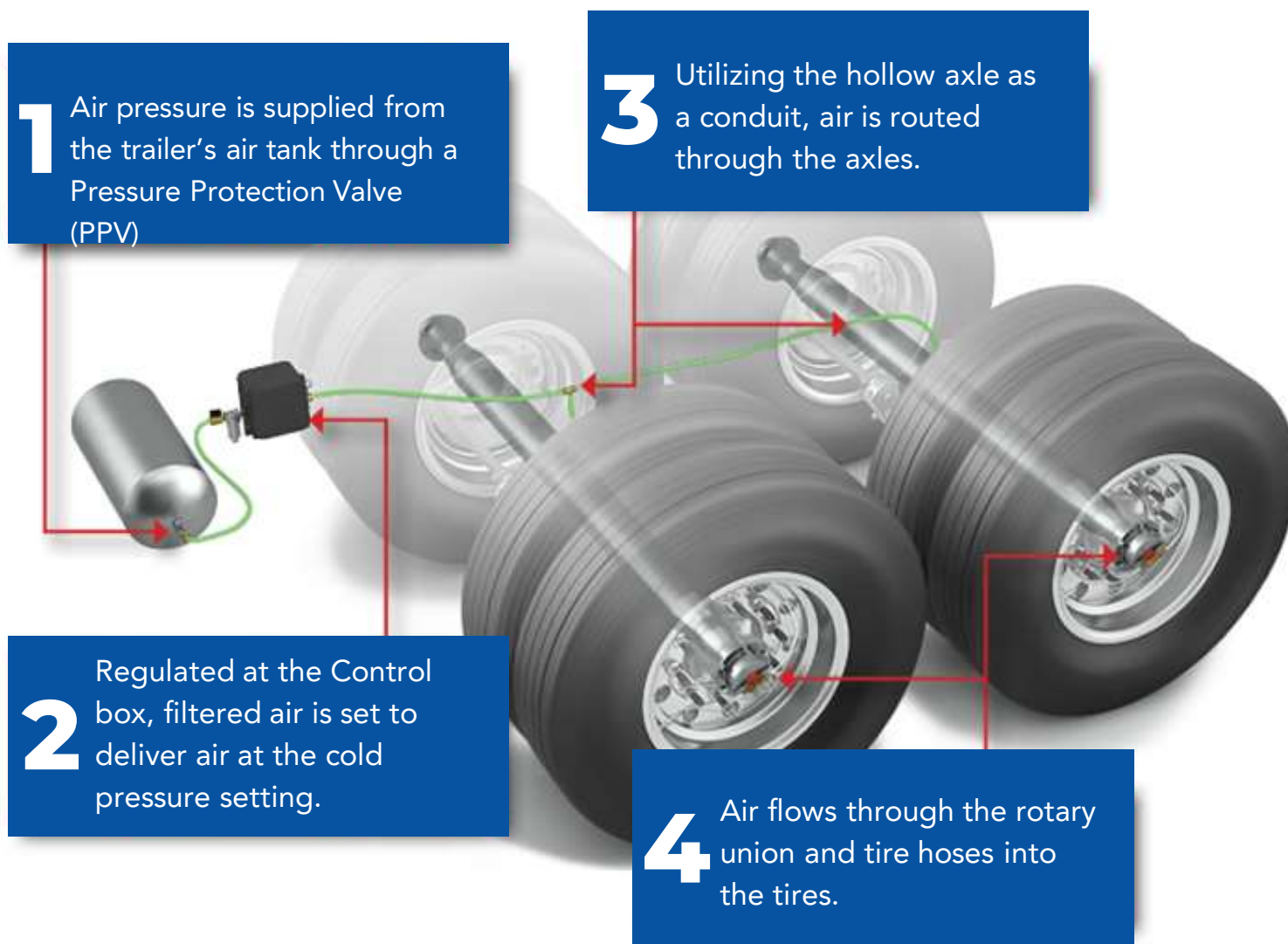


SUPER SINGLE TIRES

One wide-based tire which replaces the traditional dual tire configuration with which we are familiar today. They provide the benefit of weight reduction, reduced rolling resistance and improved lateral stability.

LOW RESISTANCE TIRES

These are improved radial tires which have been engineered to reduce rolling resistance and therefore improve fuel economy. They provide increased carrying capacity benefit when operating in jurisdictions which don't give the full weight benefit afforded to the super single tires.



AUTOMATIC TIRE INFLATION

This technology recognizes low tire pressure and automatically inflates the tire to the predetermined pressure.

AUTOMATIC TIRE PRESSURE MONITORING

RF tags monitor tire pressure and send a message to the cab of the tractor advising the driver of the problem tire. This system checks both over and under inflation.

A properly inflated tire can improve fuel consumption by over 10%.



ENGINE IDLE REDUCTION APU'S; ALTERNATIVE POWER UNITS

Small, internal combustion engines which provide heating, cooling and electrical power to the unit without running the truck's large engine. The small engine burns approximately one quarter of the fuel the large engine would for these purposes.

BUNK HEATERS

Small, internal combustion engines which provide heating, cooling and electrical power to the unit without running the truck's large engine. The small engine burns approximately one quarter of the fuel the large engine would for these purposes.

CABIN CLIMATE CONTROL - NEW GENERATION OF PRODUCTS

This technology utilizes stored energy to cool the truck cabin and the bunk heaters to provide warmth.



SUPER SINGLE TIRES

One wide-based tire which replaces the traditional dual tire. They provide the benefit improve fuel efficiency, reduce overall vehicle weight, and minimize raw material usage

FUEL TANK SKIRT

Fairings cover the fuel tanks and improve the aerodynamics of the tractor from the area behind the steering tires to the front drive tires.

CAB EXTENDERS

These fairings reduce the air space between the tractor and trailer thereby reducing the turbulence which builds up in front of the trailer resulting in improved fuel efficiency.

TRAILER SKIRTS

These fill the void underneath the trailer and reduce the air turbulence. They have been shown to improve fuel economy by up to 10%.



THE SMART WAY PROGRAM:

Challenger partners with over 500 shippers, carriers, and logistics firms in North America as a SmartWay Transport Partner, actively reducing fuel consumption, greenhouse gases and other air emissions.

- ▶ Offers a renowned system for tracking, documenting, and sharing fuel usage and freight emissions data throughout supply chains.
- ▶ Cuts freight emissions by promoting the adoption of advanced fuel-saving technologies.
- ▶ Helps companies in choosing efficient freight carriers, transport modes, equipment, and operational strategies to enhance supply chain sustainability and reduce transportation costs.
- ▶ Supports global energy security and offsets environmental risk for companies and countries
- ▶ Is supported by major transportation industry associations, environmental groups, governments at various levels, international agencies, and corporations.





Rail is not only more economical;
it adds capacity independent of
long-haul driver resources.

As an added environmental bonus,
intermodal shipments move at a
75% LOWER EMISSION RATE
than traditional over the road transport.

CHALLENGER

We go the Distance

