

Improved packaging, transportation and delivery of compressed air systems to reach remote drilling sites in the U.S.

Designed a small-footprint, high pressure air system using aluminum fabrication and lightweight cylinders, circumventing the need of Commercial Drivers bound by stringent regulations that caused delays and increased costs.

Challenge

To provide breathing air delivery for remote drilling sites without increasing operating costs or causing project delays.

Solution

Designed the UltraLite™, a lightweight cascade system that still provides enough air volume to protect workers onsite.

Results

Met customer needs through innovation, challenging industry standards, reducing logistical challenges and delivery cost.

Our customer, a shale operator in the Eagleford Shale Basin, was facing recurring logistical challenges in the delivery and use of compressed breathing air in its drilling and well servicing operations. The drilling sites are typically located in remote areas with very limited infrastructure. The U.S. Department of Transportation implements strict regulations for Commercial Motor Vehicles. Administrative processes and regulations have resulted in increased operating costs and project delays.



USA

KEY CUSTOMER BENEFITS

Reduced logistical challenges and delivery costs

Due to its lightweight cylinders and aluminum fabrication, the UltraLite™ can be transported in the bed of a 1/2 ton pickup truck or mounted in trailer, both weighing below the threshold for Commercial Motor Vehicles. This eliminated the requirement for a CDL driver, that often hindered the completion of jobs on schedule and increased costs. The use of the system in drill sites has reduced cost by five percent.

Equipment adapted to changing requirements

The UltraLite™ is extremely versatile. It was mounted in a pick-up box to decrease the footprint on constricted areas or to reach remote work locations when needed. When the job required large air volume, up to eight units could be stacked in a trailer for a larger air supply.

More refill capability than conventional cascades

Despite its reduced dimensions, the UltraLite produces 3000 cu ft of breathing air at 5000 psi, which substantially increases its refill capacity when compared to conventional cascades.