



TRANSAIR WORLDWIDE

Parker – Worldwide group

- Project
- Distribution









FILTRATION

Parker domnick hunter OIL-X - Compressed Air Filters & Water Separators



Coalescing Filters:

- From 21 to 2,219 SCFM at nominal conditions
- AO Grade: 1 um, 99.925% efficiency
- AA Grade: 0.01 um, 99.9999% efficiency
- ACS Grade: Oil vapour removal down to 0.003 mg/m³



- Water Separators:
 - From 21 to 1,695 SCFM at nominal conditions
 - >92% bulk water removal efficiency





DRYERS

Parker domnick hunter and Airtek Compressed Air Dryers

- Modular and Twin Tower Style Desiccant Dryers:
 - From 32 SCFM to 7,5000 SCFM
 - -20, -40, -70°C dewpoints
 - Heated and vacuum purge options available



Refrigerated Dryers:

- From 10 SCFM to 1,200 SCFM
- 4°C dewpoint
- Direct expansion and thermal mass available





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Parker domnick hunter Nitrogen Generators





- N2 purities up to 99.999%
- Up to 864 SCFH of N2
- 3 sizes in the product range



- PSA NITROSource Nitrogen Generators:
 - N2 purities up to 99.9995%
 - Up to 5,474 SCFH of N2
 - 9 sizes in product range

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BEST PRACTICES – PRESSURE LOSS

Major causes of pressure loss:

- Air velocity
- Bad sizing
- Internal pollution
- Corrosion
- Bad material quality
- Bad air quality
- Environmental conditions









BEST PRACTICES – PRESSURE LOSS





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Network layout





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BEST PRACTICES – SIZING

Main input data

- Working pressure
- Flow
- Length

Project Data			U	Inits
Gas		Compressed Air	•	
Pressure	?		115	psig
Flow	?		600	Scfm
Length	?		700	ft.
lax pressure drop		5.75 psig or	5	%
Network	?	Closed main ring		
Transair Range		Aluminium	+	

Main output data

- Pipe diameter
- Maximum flow
- Velocity





BEST PRACTICES – AIR LEAKS

Major causes of air leaks:

- Holes in pipe
- Faulty joint connections
- Expansion/contraction related stresses
- Corrosion
- Installation errors
- Threaded connections
- Environmental conditions



 « Leaks can be a significant source of wasted energy in an industrial compressed air system, sometimes wasting, **20-30%** of a compressor's output. »







COMPRESSED AIR & ENERGY

Energy costs:

Compressed air → accounts an **average of 10% of industrial facilities consumption** of electricity

Typical cost breakdown:

Over a ten years period, **the cost of energy consumed** by an average compressed air system **exceeds** other costs, including **the initial cost of equipment and installation**



COMPETITIVE OVERVIEW

Galvanized/Steel Pipe



Stainless Steel Pipe

Copper Pipe



Plastic Pipe



Advantages

- Low cost components
- Readily available
- Rated to high pressure
- Established technology
- Resistant to corrosion
- Lightweight

Disadvantages

- Labor intensive
- Corrosion problems
- Prone to leaks
- Costly to repair
- Not easily modified
- Safety concerns

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COMPETITIVE OVERVIEW

Aluminum Pipe System



Advantages:

- Provides clean air
- Resistant to corrosion
- Energy efficiency
- Light weight
- Low pressure loss
- Modularity
- Easy and Fast to install
- No heavy tooling
- High quality

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THE ORIGINAL ALUMINUM PIPEWORK

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APPLICATIONS

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Multifluid System:

- Compressed Air
- Vacuum

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• Inert Gases

(Dry, Wet and Lubricated)(99% / 29.6" Hg)(Nitrogen, Argon, CO2)

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Safest technology for each diameter

TECHNOLOGY

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DROPS

- Quickest installation
- No water on drops
- Low space needed
- High efficiency
- Modular

TECHNOLOGY

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6 main tools to install the complete range of TRANSAIR ALL OF THEM IN THE INSTALLATION KIT

INDUSTRIAL SECTORS

Aerospace

- Automotive
- Construction materials
- Educational
- Electronics
- Energy
- Food & Beverage
- Laboratory / Pharmaceutical
- Metal working
- Mining
- Plastic industry
- Railway / Transportation
- Textile industry
- Tobacco

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TRANSAIR SOLUTION

What TRANSAIR offers to the users:

• A **complete range** from the outside of the compressor to using point: **dimeters from [1/2"] to [6"]**

A adapted to all sectors system : Aerospace, food industries, automotive, pharmaceutical, laboratories and workshops

• A more efficient (high flow rate) and lighter technical system than traditional systems: Transair is 6 time lighter and faster to install than plastic, steel, stainless steel or copper pipes

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CERTIFICATIONS

ISO 9001
Quality Management
System

TÜV Safety and Quality

ASME B31.1/B31.3 Requirement for piping systems for industrial plants

CRN Registered under CRN

Qualicoat
Quality of the lacquer

ISO 8573 1-1-1
Standard of quality

10 Years guaranteeFree of defects

CERTIFICATIONS

Product testing Tested and controlled at every stages (pressure and leaks)

• Neutral gas & purity Nitrogen purity certificate and compatibility with Argon, CO2 and mix

Safety Euroclasses EN 13501-1 and UL 94HB equivalent to Ulc S102-10

Product tracability
 Long term declaration,
 certificate of origin and
 material certificate (pipe)

Labs free Meet clean room and paint application

Silicone free
Premium air purity, no need of complementary filters

Gluten free
Certified no gluten

• Oil free Will not contaminate the fluid with oil or grease particules

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TRANSAIR SOLUTION

What TRANSAIR offers to the users:

• A **resistant to corrosion** network which gives energy efficiency thanks to pressure loss reduction by the time

• A **removable and reusable** system thanks to unique connection technologies. The Transair system can be modified with quick and easy extensions

• A high standard certifications & Constant Air Quality (ISO 8573-1 class 1-1-1) system, from production center to point of use: reduction of maintenance cost

COST COMPARISON

	Transair	Steel Welded	Steel Roll Grooved
Material	\$ 31,723.90	\$ 13,513.14	\$ 16,907.30
Lift Rental	\$ 644.00	\$ 2,127.50	\$ 1,772.92
Lull Rental	\$ -	\$ 1,782.50	\$ 1,485.42
Labor	\$ 5,347.50	\$ 29,250.00	\$ 24,277.50
Drops	\$ 5,299.90	\$ 8,832.00	\$ 11,063.00
Total	\$ 43,015.30	\$ 55,505.14	\$ 55,506.14

Mechanical Contractors Association Mechanical Contractors Association of America

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TRANSAIR SOLUTION

What TRANSAIR offers to the users:

■ The first Aluminium piping system for compressed air with **20 years of experience** on the market

10 Years guarantee: increasing efficiency and reducing pressure drops thanks to pre tested products

 Already paint with special UV resistant lacquer coating certified Qualicoat (Blue, Green or Grey)

SERVICES

Engineering stage

- Technical report and recommendations
- Sizing calculations and layout
- Bill of material and cost analysis
- Estimation of installation time

Installation stage

- Coordination with contractors
- On-site training before installation
- Local inventory (Parker and Distributor)
- Delivery on-site

No charge software and technical tools

- Energy saving tool (Transair Energy)
- Sizing tool (Transair Flow Calculator)
- Drawing tool (CAD / BIM)

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PRODUCT DESIGN AND SUPPORT

Made in France

- Head Office in Rennes
- Production in Muzillac and Malestroit
- Packaging in Baillé

Service in Canada

- Marketing and sales support
- Inventory and local distribution

REFERENCES

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Amazon facility in Brampton, Ontario

Transair & Queen Elisabeth II

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Transair & Ex Burlgarian President: Rossen Plevneliev

Transair & Mexican President: Enrique Peña Nieto

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Canada Post in Winnipeg, Manitoba

Salt mine in Romania

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Thanks for your attention!

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