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TOPP TRYKLUFT A/S

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Pure air . Pure gas

Gas filtration for laser cutting

PPNG LX

Contamination of your assist gas can damage your laser system, degrade cutting quality, and bring production to a halt. The Pneumatech PPNG LX filtration panel prevents those risks from happening. Built specifically for high-pressure laser cutting, it removes harmful particles, oil aerosols, and vapors from nitrogen, oxygen, air, or mixed gases to ensure only reliable, clean gas reaches your laser set-up.

Features and benefits

- Ensures top gas quality
- Protects laser optics, nozzle and cutting head from contamination
- Reduces unplanned downtime and costly repairs
- Maintains consistent cutting quality over time
- Compact, pre-assembled filtration panel
- Suitable for nitrogen, oxygen, air, and mixed gases
- Standard nitrogen and oxygen filtration; optional additional configuration for air and mixed gas filtration
- Based on Pneumatech's proven filter technology

General specifications

- Operating pressures: 50 barg/725 psig
- Operating temperature range:
  - » 0-120°C/32-248°F (for grades G, C and D)
  - » 0-35°C/32-95°F (for grade V)
- Available grades:
  - » G: general oil coalescing filtration (max. oil carry-over: 0.08 mg/m^3)
  - » C: fine oil coalescing filtration (max. oil carry-over: 0.007 mg/m^3)
  - » D: fine dust filtration (99.98% at MPPS)
  - » V: oil vapor filtration (max. oil carry-over: 0.003 mg/m^3)
- Inlet and outlet connections: threaded
- Housing material: Aluminum

Protect your operation

The laser head is one of the most valuable and most sensitive components in your laser cutting system. Even trace levels of oil, water vapor, or dust in your assist gas can lead to expensive damage or inconsistent performance.
Using advanced multi-stage filtration, the PPNG LX removes oil aerosols, vapors, and particulates before they can reach your laser. It's pre-configured for nitrogen and oxygen, with an optional filter line for air or mixed gas.

What's inside?

- O_2: High-efficiency dust filtration
- N_2 and (optional) air or mixed gases: High-efficiency coalescing filtration of aerosols, dust and oil vapors

5 reasons why the PPNG LX is essential

1. Meet the highest gas quality standards.
2. Minimize the risk of laser head damage.
3. Extend the life of your laser nozzle and optics.
4. Protect your operation against unplanned downtime and production loss.
5. Ensure peak cutting performance.

Performance specifications for PPNG LX

	O_2 filtration	N_2 filtration / Mixed gas filtration		
	HP PF D	HP PF G	HP PF C	HP PF V
Contaminant	Dry dust	Oil aerosol/wet dust		Oil vapor
Test method	ISO 8573-4:2019 ISO 12500-3:2009	ISO 8573-2:2018 ISO 12500-1:2007		ISO 8573-5:2001
Maximum oil carry-over (mg/m³)	-	0.3	0.01	0.003
Particle removal micron	0.01	N/A	N/A	N/A
ISO class 8573-1	1:-:-	2:-:3	1:-:2	3:-:1
Dry pressure drop (mbar)	85	85	100	140
Wet pressure drop (mbar)	N/A	180	215	N/A
Element service	After 8,000 operating hours or 1 year or 350 mBar pressure drop	After 4,000 operating hours or 1 year		After 1,000 operating hours or 1 year

Technical specifications for PPNG LX

Measurement	N_2 filtration capacity (@ 30 barg)	O_2 filtration capacity (@30 barg)	Air/Mixed gas (option) capacity	Max pressure	Inlet/outlet connections	Dimensions (L x W x H)*	Mass**
Metric	315 Nm³/h	112 Nm³/h	315 Nm³/h	50 Barg	1/2" BSPP female	0.6x0.6x1.035m	51 kg
Imperial	185 Scfm	66 Scfm	185 Scfm	725 psig	1/2" BSPP female	23.6x23.6x40.7"	112 lbs

*Incl option: 1525mm height
**Incl option: 79kg

Reference conditions: 20°C/68°F and 30 Barg

Options

- Air or mixed gas filter panel

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