

Parker BAS HL Tested & Verified

Parker BAS HL has been tested in accordance with the following international standards relating to compressed air purity.

Parker BAS Treatment Stage	Parker Treatment Technology	Contaminant	Performance	Tested in Accordance with
Optional	Parker OIL-X Grade WS Liquid Separator	Liquid Water	>92% Liquid Removal	ISO 12500-4 ISO 8573-9
Optional		Liquid Oil		
Stage 1	Parker OIL-X Grade AO Coalescing Filter	Atmospheric Particles	Down to 1 micron @ 99.925% Efficiency	ISO 8573-4
		Rust		
		Pipescale		
		Water Aerosols	< 0.5mg/m ³ @ 99.925% Efficiency	ISO 12500-1 ISO 8573-2
		Oil Aerosols		
Stage 2	Parker OIL-X Grade AA Coalescing Filter	Atmospheric Particles	Down to 0.01 micron @ 99.9999% Efficiency	ISO 8573-4
		Rust		
		Pipescale		
		Micro-organisms		
		Water Aerosols	< 0.01mg/m ³ @ 99.9999% Efficiency	ISO 12500-1 ISO 8573-2
Oil Aerosols				
Stage 3	Parker BAS Dryer	Water Vapour	≤ -40°C PDP	ISO 7183 ISO 8573-3
		Carbon Dioxide (CO ₂)	≤ 500 ppm	ISO 8573-6 European Pharmacopoeia
Stage 4	Parker OVR	Oil Vapour	≤ 0.003 mg/m ³	ISO 8573-5
		Nitrogen Oxides (NO / NO ₂)	≤ 2 ppm v/v	ISO 8573-6 European Pharmacopoeia
		Sulphur Dioxide (SO ₂)	≤ 1 ppm v/v	ISO 8573-6 European Pharmacopoeia
Stage 5	Parker Catalyst	Carbon Monoxide (CO)	≤ 5 ppm	ISO 8573-6 European Pharmacopoeia
Stage 6	Parker OIL-X Grade AO Dry Particulate Filter	Dry Particulate	Down to 1 micron @ 99.925% Efficiency	ISO 8573-4
Stage 7	Parker OIL-X Grade AA Dry Particulate Filter	Dry Particulate	< 0.01mg/m ³ @ 99.9999% Efficiency	ISO 8573-4
		Micro-organisms		

BAS HL performance is independently verified by Lloyds Register



Parker BAS HL Delivered Air Quality

Parker BAS HL Breathing Air System has been designed to provide breathable quality compressed air that meets or exceeds the levels shown in the following global breathing air standards.

Contaminant Oxygen % Odours	EN12021:2014	European Pharmacopoeia	Osha Grade D	CSA Z180.1	Parker BAS	Parker BAS Treatment Stage
Atmospheric Particles	Not Specified	Not Specified	Not Specified	Not Specified	Particle & Micro-organism reduction down to 0.01 micron @ 99.9999% efficiency	Stage 1 & 2
Rust	Not Specified	Not Specified	Not Specified	Not Specified		
Pipescale	Not Specified	Not Specified	Not Specified	Not Specified		
Micro-organisms	Not Specified	Not Specified	Not Specified	Not Specified		Stage 6 & 7
Liquid Water	No Free Water	Not Specified	Not Specified	Not Specified	No Free Water	Optional WS
Water Aerosols			Not Specified	Not Specified	$\leq 0.01 \text{ mg/m}^3$	Stage 1 & 2
Water Vapour	$\leq -11^\circ\text{C PDP}$	$\leq 67\text{ppm}$ ($\leq -45^\circ\text{C ADP}$)	Not Specified	$< -53^\circ\text{C ADP}$	$\leq -40^\circ\text{C PDP}$ ($\leq -57^\circ\text{C ADP}$)	Stage 3
Liquid Oil	Total Oil $\leq 0.5 \text{ mg/m}^3$	Total Oil $\leq 0.1 \text{ mg/m}^3$	$< 5 \text{ mg/m}^3$	$< 1 \text{ mg/m}^3$	Total Oil $\leq 0.003 \text{ mg/m}^3$	Optional WS
Oil Aerosols						Stage 1 & 2
Oil Vapour						Stage 4
Carbon Monoxide (CO)	$\leq 5 \text{ ppm}$	$\leq 5 \text{ ppm v/v}$	$< 10 \text{ ppm}$	$< 5 \text{ ppm}$	$\leq 5 \text{ ppm}$	Stage 5
Carbon Dioxide (CO₂)	$\leq 500 \text{ ppm}$	$\leq 500 \text{ ppm v/v}$	$< 1000 \text{ ppm}$	$< 500 \text{ ppm}$	$\leq 500 \text{ ppm}$	Stage 3
Nitrogen Oxides (NO / NO₂)	Not Specified	$\leq 2 \text{ ppm v/v}$	Not Specified	Not Specified	$\leq 2 \text{ ppm}$	Stage 4
Sulphur Dioxide (SO₂)	Not Specified	$\leq 1 \text{ ppm v/v}$	Not Specified	Not Specified	$\leq 1 \text{ ppm}$	Stage 4
Oxygen	(21 ± 1) %	20.4% ~ 21.4% v/v	19.5% - 23.5%	20% – 22%	As Inlet Concentration	As Inlet Concentration
Odours	The gas shall be free from unsatisfactory odour or taste	Not Specified	Lack of noticeable odour	No pronounced odour	No Odours	Stages 3 & 4

BAS HL Keeping Users Safe

Treating known hazardous compressed air contaminants not even recognised in international breathing air standards

