Model 450B
High Pressure / Low Capacity
Gas Purifier

Description

The Model 450B Gas Purifier is
ideal for removing oil, water vapor
and foreign particles from many*
non-corrosive gases, and is
designed for operating at high line
working pressures where lower
capacities of contaminant removal
are required. The Model 450B is
constructed of a black anodized
aluminum housing that accepts
purifier cartridges for specific
applications. Removal of foreign
matter is accomplished through
the use of molecular sieve
materials and special filters in replaceable cartridges. Matheson
Tri-Gas Model 450B accepts any one of the four cartridges for
various applications. The inlet and outlet parts are located at the
top of the shell on the cylinder head. The purifier must be used
with replaceable cartridges 451, 452, 453 or 454. Cartridges are
shipped separately in hermetically sealed cans.

Specifications

Maximum Operating Pressure:	2000 psig
Maximum Oxygen Operating Pressure:	500 psig
Temperature Range:	-40 to 165°F (-40 to 74°C)
Pressure Drop:	0.2 psi for 1 scfm
	0.9 psi for 2 scfm
	2.4 psi for 3 scfm
Dimensions:	2" dia. x 5-3/4" L
Inlet & Outlet:	1/4" FPT
Water Removal Capacity:	451: 5.4 grams
	452: 6 grams
Dew Point Achieved:	-100°F (-73°C) (1 .5 ppm)
Shipping Weight:	2 lbs

Materials of Construction

Shell Body:	Black anodized aluminum
Cylinder Head:	Nickel plated brass
O-Ring:	Buna N (P/N RNS-0126-BU)
Cartridge:	451: 13X Molecular sieve
	452: 4A Molecular sieve
	453: Sintered bronze
	454: Activated charcoal

Ordering Information

Model No. (Housing)	Description
450B	Purifier Housing (without cartridge)

Model No. (Cartridge)	Description
451	For Removal of Oil and Water
452	For Removal of Water
453	For Removal of particles over 5 microns**
454	Activated Charcoal Purifier***

* Consult Matheson Tri-Gas for specific applications.
** Not for Acetylene use
*** For acetone control in acetylene