

# GC Supplies

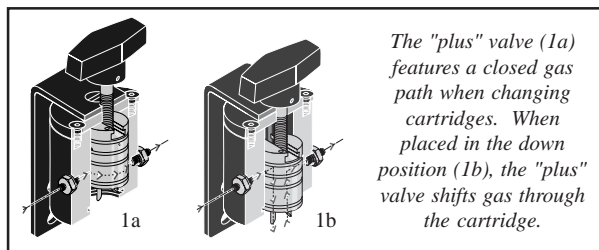
## Gas Purification Systems—QC+ Point of Operation Panel

### QC+ Point of Operation Panel

- **Quick change cartridges**
- **Replace cartridges without gas flow interruption**
- **Minimizes instrument downtime!**

Filter cartridges are of all metal or glass construction, eliminating infusion and resultant signal noise associated with filters constructed from plastics. Cartridges are quickly installed via a simple knurled retaining nut. No wrenches are needed! As many as four cartridges can be replaced in a matter of seconds, and because there is low dead volume, a minimal amount of gas system purge is required after installation.

Each QC+ filter head is equipped with an internal flow valve. This valve serves two functions. In the “down” position, gas is passed through adsorbent filter cartridges for purification (Figure 1b). In the “up” position, the gas is diverted through the filter head. With the valve up (Figure 1a), the filter cartridge can then be easily replaced with a fresh cartridge. But, because the gas continues to flow through the bypass valve, the need to shut down instruments is eliminated while the filter cartridges are removed.



### Replacement Cartridges

#### High Capacity Oxygen

The GC-1 oxygen cartridge contains a highly active metal catalyst, supported on an alumina silicate substrate.

#### High Capacity Moisture

The GC-2 moisture cartridge contains 13X molecular sieve, 16/20 mesh sphere size.

#### Indicating Moisture

The GC-2-I indicating moisture cartridge contains a combination of 5Å molecular sieve and indicating Drierite.

#### Hydrocarbon

The GC-3 hydrocarbon cartridge contains a high surface area and coconut shell-based, activated carbon medium.

#### Indicating Oxygen

The GC-4 indicating oxygen cartridge contains a manganese oxide adsorbent that experiences a dramatic and progressive color change during adsorption.

### Replacement Cartridges - Ordering Information

Cat. No.	Description	Removal Capacity	Performance (ppb)
GC-1	Oxygen	396mg	15
GC-2	Moisture	15g	9
GC-2-I	Indicating Moisture	7g	9
GC-3	Hydrocarbon	8g	30
GC-4	Indicating Oxygen	40mg	2



### GC Carrier Gas QC+ System

- **Model RBC-P**, recommended for systems that employ capillary columns
- **2 head system:** high capacity oxygen, indicating oxygen
- **Flow at pressure:** 13 LPM at 50 psi helium

### FID Detector Fuel Gas QC+ System

- **Model RBC-D-P**
- **2 head system:** high capacity moisture, hydrocarbon
- **Flow at pressure:** 14 LPM at 50 psi helium



### GC Carrier Gas QC+ System

- **Model RTC-P**, perfect for any system that employs nitrogen, helium, or argon/methane mixtures
- **3 head system:** high capacity oxygen, moisture, hydrocarbon
- **Flow at pressure:** 7 LPM at 50 psi helium

### Electron Capture and ELCD QC+ System

- **Model RTC-I-P**
- **3 head system:** high capacity oxygen, moisture, plus indicating oxygen
- **Flow at pressure:** 7 LPM at 50 psi helium



### GC/MS Carrier Gas QC+ System

- **Model RQC-P**, ultimate in gas purification
- **4 head system:** high capacity oxygen, moisture, hydrocarbon, indicating oxygen
- **Flow at pressure:** 6 LPM at 50 psi helium

### Quick Change Plus (QC+)—Point of Operation Panels

All QC+ have 1/8" fittings

Cat. No.	Description
R2D2-P	1-Head, oxygen
R2D2-I-P	1-Head, indicating oxygen
RBC-P	2-Head, oxygen, ind. oxygen
RBC-D-P	2-Head, moisture, hydrocarbon
RTC-P	3-Head, oxygen, moisture, hydrocarbon
RTC-I-P	3-Head, moisture, oxygen, ind. oxygen
RQC-P	4-Head, oxygen, ind. oxygen, hydrocarbon, and moisture