

MODEL 763 DATASMART™

TAKE FULL CONTROL OF YOUR GAS USAGE



KEY FEATURES

The HARRIS Model 763 DataSMART™ is a fully-automatic, electronically controlled gas switchover system that can provide continuous supply of gas from a variety of sources including high pressure cylinders, liquid cylinders or bulk gas containers. DataSMART™ includes a built-in WiFi-based telemetry system that allows the user to view and manage all aspects of the gas system. It is ideal for both industrial and high purity gases used in a variety of applications. The on-board software ensures optimal gas use and savings especially from liquid cylinders and can greatly reduce or eliminate venting and residual gas return.

The Model 763 DataSMART™ is ideally used for:

- » Analytical Laboratory
- » Manufacturing Facilities
- » Research Facilities
- » Pharmaceuticals
- » Welding/Metal Fabrication
- » Food Processing
- » Calibration Gases
- » Chemical Processes
- » Laser Assist Gases

Input » 120VAC 50/60Hz



KEY FEATURES CONTINUED

- » LCD Touchscreen control
- » Built-in, Wifi -based telemetry system and data acquisition via a remote server (connection to a Wifi network required)
- » Customized alerts and notifications via email and SMS
- » Check Back Feature for liquid dewars
- » Economizer for reserve side liquid dewars
- » Secure login to protect settings
- » Optional mass flow meter to measure current gas usage or usage over time
- » 500 scfh heater for CO₂ and N₂O or mixtures
- » Optional Remote A/V Alarm
- » Modular, expandable header system for multiple cylinders
- » Designed for high purity or industrial grade gases
- » Brass and SS models available

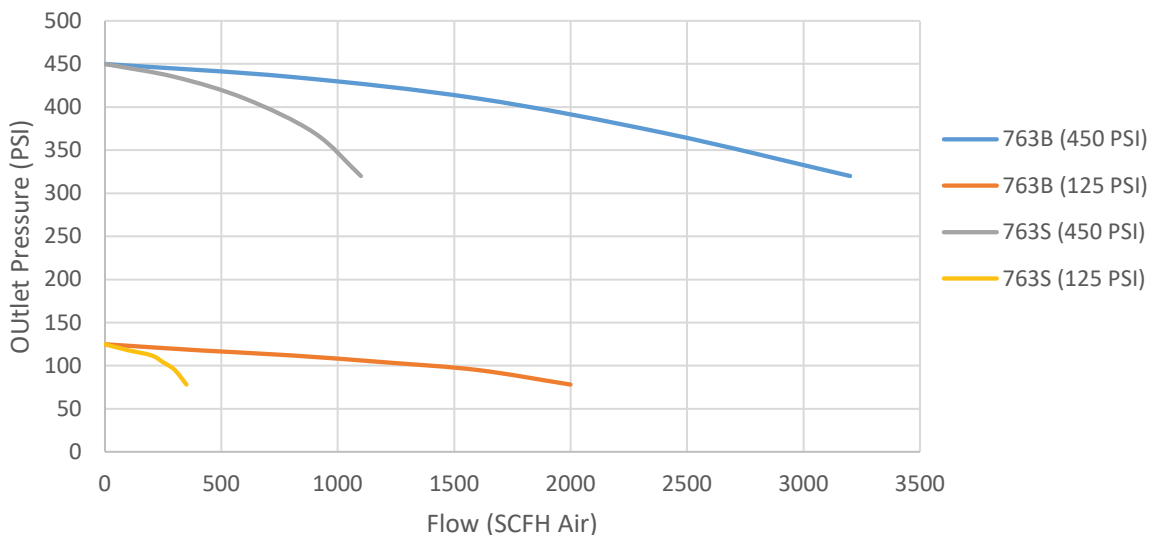
SPECIFICATIONS

- » Max inlet pressure up to 4500 psi
- » Min inlet pressure 100 psi required
- » Outlet pressures up to 450 psi
- » Output flows up to 3000 scfh (air)
- » Programmable switchover pressure for both right and left side from 70 to 1500 psig
- » Class 1, Division 2 NEMA enclosures
- » Filter - 10 Micron
- » Electrical Requirement 120VAC 50/60Hz
- » Inlet ports 1/2" NPT
- » Outlet Port 1/2" NPT
- » Temperature range 0 F to +140 F
- » Weight 68 lbs

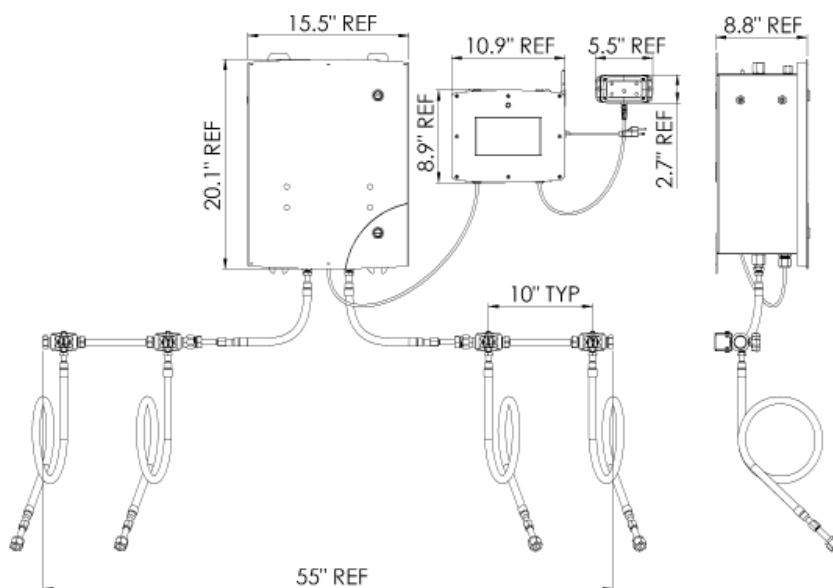
MATERIALS

- » Regulator body brass or 316L SS
- » Diaphragms 300 series SS
- » Regulator Seats - PCTFE
- » Seals - PTFE
- » Valve seat - PTFE
- » Valve stem - SS
- » Enclosures NEMA 4x powder coated steel

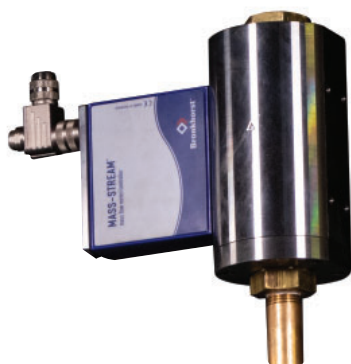
GAS FLOW CURVES



MODEL 763 MOUNTING DIMENSIONS



RECOMMENDED ACCESSORIES



Mass Flow Meter

The Model 763 DataSMART™ can be configured to include a Mass Flow Meter that captures gas usage data which can be accessed via the integrated telemetry system..



Alarm Box

The DataSMART™ system can be configured to include a remote alarm that provides both visual and audible indication of an alarm condition. It comes with a choice of cable length (10', 50', 100') and the 70dB alarm is audible up to 200' away.

Telemetry Subscription Service (Annual)

Harris offers a subscription service, DataSMART™ Production Analytics, that provides access to operational data and analytics as well as providing text and email alerts to improve process reliability and efficiency (requires Wifi network access).

Order 9504630

PRODUCT INFORMATION

Example:

763B D 3R 48 1L 72 580 DF 1

(Brass DataSMART™, 125 psi outlet, 3 right side cylinders w/48" pigtails, 1 left side cylinder with 72" pigtail, CGA 580, with inlet isolation valves and standard outlet fitting, Remote alarm w/10' cable

| Series | Cylinder Spacing | Pigtail Type | Right # of Cylinders | Right Pigtail Length | Left # of Cylinders | Left Pigtail Length | Gas Service (CGA Connection) | Accessories | Options | Crossover Header |
|--------------------------------|---|--------------------------------------|----------------------|----------------------|---------------------|---------------------|------------------------------|--|----------------------------|-------------------------|
| 763B (Brass, 125 psi outlet) | Leave blank for STD (10") Add "S" for opt 5" spacing | D - PTFE Lined Double Braid SS | up to 25 | 24" | up to 25 | 24" | 000 (No CGA) | A - 1/8" Inlet Compression Fitting | 1 - A/V Alarm w/10' Cable | Y Leave blank for No |
| 763BEX (Brass, 500 psi outlet) | | | | 36" | | 36" | 240 (SS Only) | B - 1/4" Inlet Compression Fitting | | |
| 763S (SS, 125 psi outlet) | | A - SS Armor Cased | | 48" | | 48" | 280 | C - 3/8" Inlet Compression Fitting | 4 - A/V Alarm w/100' Cable | |
| 763SEX (SS, 500 psi outlet) | | | | 72" | | 72" | 296 | D - Inlet Isolation Valve | | |
| 763BHL (Brass, heated) | | | | 120" | | 120" | 320 | E - Inlet Purge Valves | | |
| 763SHL (SS, heated) | | | | | | | 320HT (Hand Tight) | F - Std Outlet Fitting (CGA 1340/1350) | | |
| | | | | | | | 326 | G - 1/8" Outlet Compression Fitting | | |
| | | | | | | | 330 (SS only) | H - 1/4" Outlet Compression Fitting | | |
| | | | | | | | 346 | J - 3/8" Outlet Compression Fitting | | |
| | | | | | | | 346HT (Hand Tight) | K - Outlet Isolation Valve | | |
| | | | | | | | 350 | M - Outlet Purge Valve | | |
| | | | | | | | 500 | N - Mass Flowmeter | | |
| | | | | | | | 510P | P - Ethernet Router | | |
| | | | | | | | 540 | | | |
| | | | | | | | 540HT (Hand Tight) | | | |
| | | | | | | | 555 | | | |
| | | | | | | | 580 | | | |
| | | | | | | | 580HT (Hand Tight) | | | |
| | | | | | | | 590 | | | |
| | | | | | | | 347 | | | |
| | | | | | | | 660 (SS Only) | | | |
| | | | | | | | 680 | | | |
| | | | | | | | 705 (SS Only) | | | |

Contact Harris Specialty Gas for pricing and custom configurations 1.800.733.4043 Option 2

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.



A LINCOLN ELECTRIC COMPANY