

MicroAir

Ultra Low Air Pressure Regulator and Controllers for Plastic Tubing Extrusion



Precise stable air pressure is a critical component in the extrusion of small plastic tubes. A precision internal air adjustment is needed for sizing and structure in the free extrusion of tubing. The outside diameter can be maintained for a wide range of varying flow rates such as when a cut is made or the tubing coiled. MicroAirs provide air support through the pin inside the die to maintain the tubing's shape and prevent a collapse during the extrusion process. Used to make single-lumen, multi-lumen, balloon, taper, catheters, automotive and medical tubing.

IMPROVEMENTS have recently been made for even more precision and accuracy in the internal components of each model.

Features:

- Regulates air pressure to a set point
- Controls outside diameter
- Precision output pressure display
- Ultra Low ranges:
 - 0 - 3" of water
 - 0 - 5" of water
 - 0 - 15" of water
 - 0 - 30" of water
 - 0 - 50" of water
 - 0 - 3 psi
 - 0 - 5 psi maximumOthers available upon request.
Also in mbar, kpa
- Stainless steel enclosure
- Hysteresis free regulating action
- Manual control and auto control models
- High speed model that accepts a 0-10 volt input for control
- Multiple channels for multi-lumen tubing.
- STAND now available



Models Available:

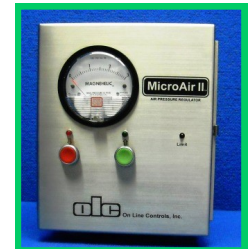
MicroAir I

Manual model controlled by a single knob
(30 turn adjustment)
Single, Dual and 3-channel units



MicroAir II

Accepts contact closure inputs. Up/Down manual control dual speed push buttons on the front or motorized Up/Down remote control ready for solid state or mechanical relays by internal screw terminals.
Dual selectable voltage input 110 or 220 volt.
Zero to Full Scale in approximately 2 minutes.
Options: Digital display, output, and remote
Single, Dual and 3-channel units



MicroAir IV

Dual-state using a logic signal or linear mode using a 0-10 volt input to control pressure by extrusion line equipment.
Instantaneous switching between pressures for use in manufacturing bump and tapered tubing. A precision voice-coil linear motor with viscous damping ensures optimum speed and stability. Control knobs for Hi and Low set points. Responds to a step of 50% of full scale in less than 0.1 second.
Options: Digital display and outputs.
Single, Dual, 3-channel and 4-channel





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"Supplying over 35 years of quality and reliability to the extrusion industry"

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Ultra Low Air Pressure Regulators and Controllers for Manufacturers of Extruded Tubing

Model	Case Dimensions	Functionality	Power Inputs	Control Inputs	Options
MicroAir I MAI	12" x 10" x 6"	30-turn manual knob	N/A	N/A	•Stand
Dual MicroAir I DMAI	16" x 10" x 6"				
3-Channel MicroAir I MU3MAI	20" x 10" x 6"				
MicroAir II MAII	12" x 10" x 6"	*Up/Down Manual control dual speed-push buttons * Motorized Up/Down remote control ready for solid state or mechanical relays	110/220 VAC 50/60 Hz Selectable 3 conductor grounded IDC power cord (supplied)	 3 Internal screw Terminals Up/ Down / Gnd Up/Down Inputs Open: Inactive Close to Gnd: Active	•Additional (LED) Digital pressure readout Voltage pressure output — 0-10 VDC •Current pressure output— 4-20 ma •Stand • * Remote control unit 
Dual MicroAir II DMAII	15" x 10" x 6"				
MultiAir 3-channel MicroAir II MU3MAII	21" x 12" x 6"				
MicroAir IV MAIV	12" x 10" x 6"	*High speed motorized Up/Down remote control ready for 0-10 VDC signal.	110/220 VAC 50/60 Hz	2 Internal screw terminals +/- +Input Analog control 0-10 VDC	•Additional (LED) Digital pressure readout. •Voltage pressure output— 0-10 VDC
Dual MicroAir IV DMAIV	15" x 10" x 6"				
MultiAir 3-channel MicroAir IV MU3MAIV	22" x 10" x 6"	*10 turn Manual Control potentiometer.	Selectable 3 conductor grounded IDC power cord (supplied)	Dual State Control Close to—or 0 to +1 VDC: High Open or +4 to +24 VDC: Low	•Current pressure output— 4-20 ma •Stand
MultiAir 4-channel MicroAir IV MU4MAIV	28" x 10" x 6"	* Hi speed motorized dual pressure remote switching.			

RANGES for Air Output (Inch wc = inch of water column)	Max Output Flow Rate SCFH = Standard Cubic Feet per hour
2 inch wc	5 SCFH
5 inch wc	11 SCFH
15 inch wc	25 SCFH
30 inch wc	40 SCFH
3 psi	70 SCFH
5 psi	90 SCFH
Other pressure readouts/ranges available	

All MicroAir units:

- Have a 4 1/2" magnehelic meter for pressure readout.
- Need to be located close to the Die with 1/4" NPT male fittings.
- Connect Leftside in / Rightside out on single units or bottom connections on Dual and MultiAirs.
- Use four 5/16" diameter holes for essential vertical mounting.
- Air connections—plant air regulated down to 50 psi for single units and 55 psi for MultiAirs.
- WARRANTY: 3 years
- **MADE IN The U.S.A.**



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