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 maximum
  - Others 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 viscostic 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
### Ultra Low Air Pressure Regulators and Controllers for Manufacturers of Extruded Tubing

<table>
<thead>
<tr>
<th>Model</th>
<th>Case Dimensions</th>
<th>Functionality</th>
<th>Power Inputs</th>
<th>Control Inputs</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroAir I MAI</td>
<td>12” x 10” x 6”</td>
<td>30-turn manual knob</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Dual MicroAir I DMAI</td>
<td>16” x 10” x 6”</td>
<td>*Up/Down Manual control dual speed-push buttons</td>
<td>110/220 VAC 50/60 Hz</td>
<td>3 Internal screw Terminals Up/ Down / Gnd</td>
<td>*Additional (LED) Digital pressure readout</td>
</tr>
<tr>
<td>MultiAir I 3 Channel</td>
<td>20” x 10” x 6”</td>
<td>*Motorized Up/Down remote control ready for solid state or mechanical relays</td>
<td>110/220 VAC 50/60 Hz</td>
<td>Up/Down Inputs</td>
<td>*Remote control unit</td>
</tr>
<tr>
<td>Dual MicroAir II DMAII</td>
<td>15” x 10” x 6”</td>
<td>*Hi speed motorized Up/Down remote control ready for 0-10 VDC signal.</td>
<td>110/220 VAC 50/60 Hz</td>
<td>2 Internal screw terminals +/-</td>
<td>*Additional (LED) Digital pressure readout</td>
</tr>
<tr>
<td>MultiAir III 3 Channel</td>
<td>21” x 12” x 6”</td>
<td>*10 turn Manual Control potentiometer.</td>
<td>110/220 VAC 50/60 Hz</td>
<td>Dual State Control Close to—or 0 to +1 VDC: High Open or +4 to +24 VDC: Low</td>
<td>*Voltage pressure output—0-10 VDC * Current pressure output—4-20 ma</td>
</tr>
<tr>
<td>Dual MicroAir IV DMAIV</td>
<td>15” x 10” x 6”</td>
<td>*Hi speed motorized dual pressure remote switching.</td>
<td>110/220 VAC 50/60 Hz</td>
<td></td>
<td>*Current pressure output—4-20 ma</td>
</tr>
<tr>
<td>MultiAir IV 4 Channel</td>
<td>28” x 10” x 6”</td>
<td>*Hi speed motorized dual pressure remote switching.</td>
<td>110/220 VAC 50/60 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RANGES for Air Output**

<table>
<thead>
<tr>
<th>Inch wc = inch of water column</th>
<th>Max Output SCFH</th>
<th>Flow Rate SCFH = Standard Cubic Feet per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 inch wc</td>
<td>5 SCFH</td>
<td></td>
</tr>
<tr>
<td>5 inch wc</td>
<td>11 SCFH</td>
<td></td>
</tr>
<tr>
<td>15 inch wc</td>
<td>25 SCFH</td>
<td></td>
</tr>
<tr>
<td>30 inch wc</td>
<td>40 SCFH</td>
<td></td>
</tr>
<tr>
<td>3 psi</td>
<td>70 SCFH</td>
<td></td>
</tr>
<tr>
<td>5 psi</td>
<td>90 SCFH</td>
<td></td>
</tr>
<tr>
<td>Other pressure readouts/ranges available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All MicroAir units:**
- Have a 4 1/2” maneghelic 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.**