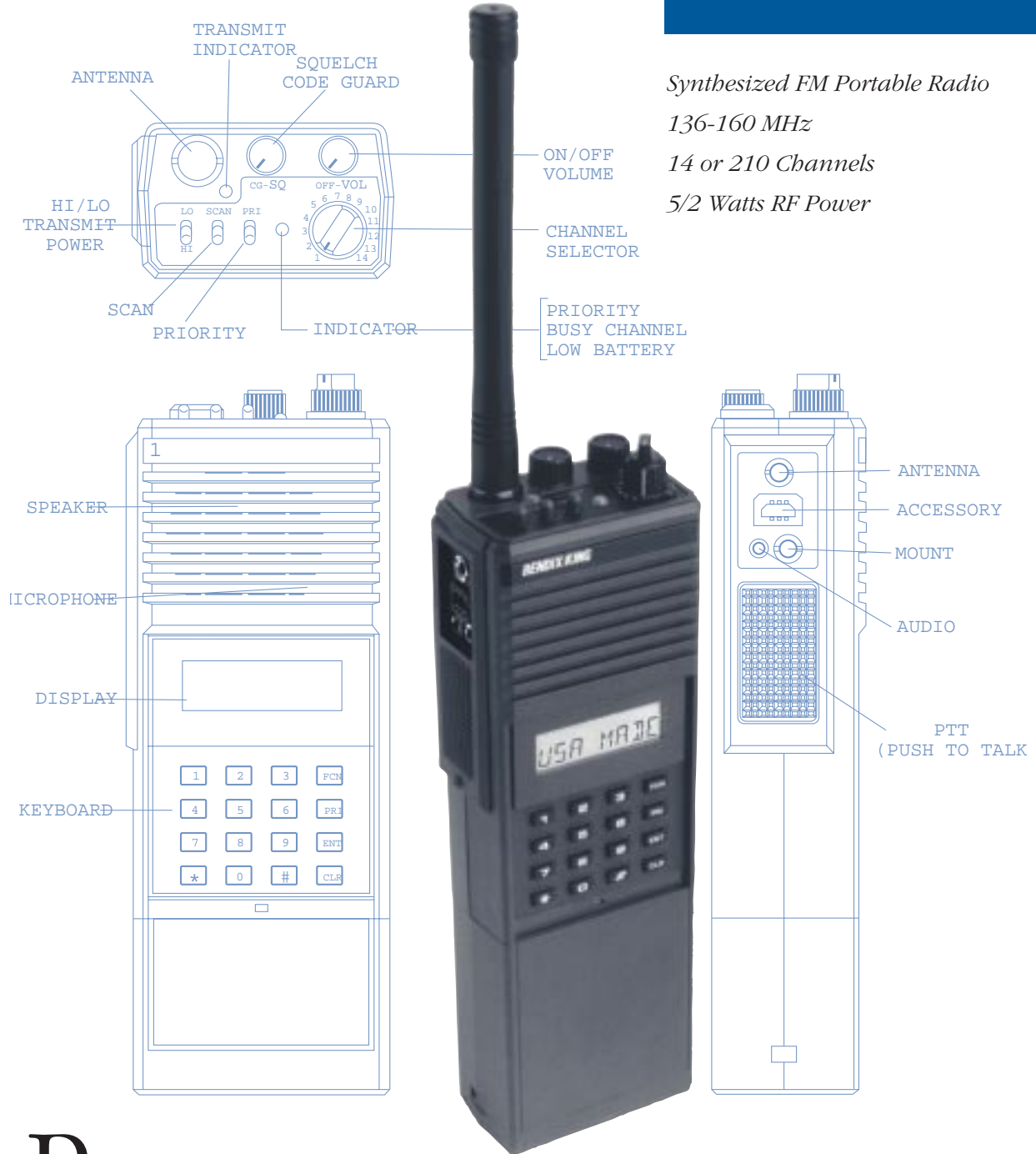


# EPI

FLEX•MODE™



*Synthesized FM Portable Radio*  
*136-160 MHz*  
*14 or 210 Channels*  
*5/2 Watts RF Power*

**P**owerful. Innovative. Rugged and reliable. The Bendix/King EPI series delivers a 24 MHz operating frequency spread, PC programmability and cloning, ultra-low battery drain and built-in CTCSS/CDCSS. Discover Bendix/King.

Synthesized FM Portable Radio  
 136-160 MHz  
 14 or 210 Channels  
 5/2 Watts RF Power  
 Channel Spacing 25/30 kHz, 12.5/15 kHz  
 Programmable by channel



| MODEL NUMBER   | Lexan<br>Metal     | EPI 510 1A<br>EPI 510 1M | EPI 510 2S<br>EPI 510 2X   |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|--|--------------------|--------------------------|--|-------|--------------|----------------|-------------------------------|--------|--------|----------------------------|---------|---------|------------------|---------|---------|-------------------------------|---------|---------|-----------------------------|----|----|------------------------------|-----|-----|-------------------------------|-------|-------|-------------------------------|-------|-------|
| Frequency -MHz   |                    | 136-160                  | 136-160  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Channels   |                    | 14                       | 210  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| RF Output - Watts  |                    | 5/2                      | 5/2  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Priority Scan  |                    | INCL.                    | INCL.  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Keyboard   |                    | INCL.                    | INCL.  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Alphanumeric LCD   |                    | --                       | INCL.  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| DTMF Encode  |                    | INCL.                    | INCL.  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| DTMF ANI   |                    | INCL.                    | INCL.  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Signalling Options   |                    | --                       | --   |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Battery Life (5 - 5 - 90%)   |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Std. NiCd (LAA 0121) - hrs.  |                    | 5                        | 5  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Lrg. NiCd (LAA 0125) - hrs.  |                    | 12                       | 12   |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Lrg. NiCd (LAA 0105) - hrs.  |                    | 8                        | 8  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Channels Increments - kHz  |                    | 5 or 12.5                | 5 or 12.5  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| <b>GENERAL</b>   | <b>ALL MODELS</b>  |                          | * Signalling Options: 2-TONE DECODE, 5-TONE DECODE, SCRAMBLING<br>* Standby Current Drain with Options - mA: 25  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Operating Voltage  | 10 V. NOM.         |                          | <b>TRANSMITTER</b><br><br><table border="1"> <thead> <tr> <th></th> <th><b>25/30</b></th> <th><b>12.5/15</b></th> </tr> </thead> <tbody> <tr> <td>Operating Frequency Spread</td> <td>24 MHz</td> <td>24 MHz</td> </tr> <tr> <td>Modulation</td> <td>15K0F2D</td> <td>15K0F2D</td> </tr> <tr> <td></td> <td>16K0F3E</td> <td>16K0F3E</td> </tr> <tr> <td></td> <td>16K0FXE</td> <td>16K0FXE</td> </tr> <tr> <td>Spurious and Harmonics - dB</td> <td>60</td> <td>60</td> </tr> <tr> <td>Hum and Noise - dB (per EIA)</td> <td>43</td> <td>37</td> </tr> <tr> <td>Audio Distortion - %</td> <td>3</td> <td>3</td> </tr> <tr> <td>Audio Response (per EIA) - dB</td> <td>+1/-3</td> <td>+1/-3</td> </tr> </tbody> </table> |       | <b>25/30</b> | <b>12.5/15</b> | Operating Frequency Spread    | 24 MHz | 24 MHz | Modulation                 | 15K0F2D | 15K0F2D |                  | 16K0F3E | 16K0F3E |                               | 16K0FXE | 16K0FXE | Spurious and Harmonics - dB | 60 | 60 | Hum and Noise - dB (per EIA) | 43  | 37  | Audio Distortion - %          | 3     | 3     | Audio Response (per EIA) - dB | +1/-3 | +1/-3 |
|  | <b>25/30</b>       | <b>12.5/15</b>           |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Operating Frequency Spread   | 24 MHz             | 24 MHz                   |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Modulation   | 15K0F2D            | 15K0F2D                  |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | 16K0F3E            | 16K0F3E                  |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | 16K0FXE            | 16K0FXE                  |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Spurious and Harmonics - dB  | 60                 | 60                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Hum and Noise - dB (per EIA)   | 43                 | 37                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Audio Distortion - %   | 3                  | 3                        |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Audio Response (per EIA) - dB  | +1/-3              | +1/-3                    |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Tone Code Guard (CTCSS)  | INCLUDED           |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Digital Code Guard (CDCSS)   | INCLUDED           |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Time Out Timer   | INCLUDED           |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Operating Temperature - C°   | -30 TO +60         |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Size- W x D x H (in.)  | Std. Battery       | 2.55 x 15. x 6.6         |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | Lrg. Battery       | 2.55 x 1.5 x 7.8         |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Weight (oz.)   | Std. Battery       | 20                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | Lrg. Battery       | 24                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Standby Current Drain - mA   | 15*                |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Antenna  | HELICAL WOUND      |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Stability - PPM  | MOLDED RUBBER FLEX |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Channel Spacing - kHz  | ±5                 |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | 25/30 or 12.5/15   |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| <b>STANDARDS</b>   | <b>MIL-STD 810</b> |                          | <b>RECEIVER</b><br><br><table border="1"> <thead> <tr> <th></th> <th><b>25/30</b></th> <th><b>12.5/15</b></th> </tr> </thead> <tbody> <tr> <td>Sensitivity: 12 dB Sinad - uV</td> <td>.25</td> <td>.25</td> </tr> <tr> <td>Operating Frequency Spread</td> <td>24 MHz</td> <td>24 MHz</td> </tr> <tr> <td>Selectivity - dB</td> <td>72</td> <td>60</td> </tr> <tr> <td>Spurious including Image - dB</td> <td>75</td> <td>75</td> </tr> <tr> <td>Intermodulation - dB</td> <td>70</td> <td>60</td> </tr> <tr> <td>Audio Output - mW @ 5% dist.</td> <td>500</td> <td>500</td> </tr> <tr> <td>Audio Response (per EIA) - dB</td> <td>+1/-3</td> <td>+1/-3</td> </tr> </tbody> </table>                                    |       | <b>25/30</b> | <b>12.5/15</b> | Sensitivity: 12 dB Sinad - uV | .25    | .25    | Operating Frequency Spread | 24 MHz  | 24 MHz  | Selectivity - dB | 72      | 60      | Spurious including Image - dB | 75      | 75      | Intermodulation - dB        | 70 | 60 | Audio Output - mW @ 5% dist. | 500 | 500 | Audio Response (per EIA) - dB | +1/-3 | +1/-3 |                               |       |       |
|  | <b>25/30</b>       | <b>12.5/15</b>           |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Sensitivity: 12 dB Sinad - uV  | .25                | .25                      |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Operating Frequency Spread   | 24 MHz             | 24 MHz                   |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Selectivity - dB   | 72                 | 60                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Spurious including Image - dB  | 75                 | 75                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Intermodulation - dB   | 70                 | 60                       |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Audio Output - mW @ 5% dist.   | 500                | 500                      |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Audio Response (per EIA) - dB  | +1/-3              | +1/-3                    |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | C                  | D                        |  | E     |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
|  | Mthd.              | Proc.                    | Mthd.  | Proc. | Mthd.        | Proc.          |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Low Pressure   | 500.1              | 1                        | 500.2  | 1     | 500.3        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| High Temp.   | 501.1              | 1 & 2                    | 501.2  | 1 & 2 | 501.3        | 1 & 2          |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Low Temp.  | 502.1              | 1                        | 502.2  | 1 & 2 | 502.3        | 1 & 2          |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Temp. Shock  | 503.1              | 1                        | 503.2  | 1     | 503.3        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Solar Radiation  | 505.1              | 1                        | 505.2  | 1     | 505.3        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Humidity   | 507.1              | 2                        | 507.2  | 2     | 507.3        | 2              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Dust   | 510.1              | 1                        | 510.2  | 1     | 510.3        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Vibration  | 514.2              | 8 & 10                   | 514.3  | 1     | 514.4        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Shock  | 516.2              | 1, 2 & 5                 | 516.3  | 1 & 4 | 516.4        | 1 & 4          |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Metal Case models only:  |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Rain   | 506.1              | 1&2                      | 506.2  | 1&2   | 506.3        | 1&2            |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Salt Fog   | 509.1              | 1                        | 509.2  | 1     | 509.3        | 1              |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Unit meets U.S. Forest Service vibration and EIA RS-316B vibration and shock specifications.   |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| FCC Type Acceptance  |                    |                          | ASY 90Q LT 20001 Parts: 22, 74, 80, 90   |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Specifications subject to change without notice.   |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| Measurements made in accordance with applicable EIA standards.   |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
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|  |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| <b>BK RADIO, INC.</b>  |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| 7505 TECHNOLOGY DRIVE, WEST MELBOURNE, FL 32904  |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| 800-648-0947   |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
| (407) 984-1414 • Fax (407) 984-0434  |                    |                          |  |       |              |                |                               |        |        |                            |         |         |                  |         |         |                               |         |         |                             |    |    |                              |     |     |                               |       |       |                               |       |       |
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