### Impatiens F1 Balance™ - Impatiens walleriana

<table>
<thead>
<tr>
<th>Life cycle</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family/origin</td>
<td>Balsaminaceae /Africa</td>
</tr>
<tr>
<td>Popular uses</td>
<td>Outdoor containers, suitable for borders and beds</td>
</tr>
<tr>
<td>Mature plant height</td>
<td>15-20 cm (5-8&quot;)</td>
</tr>
<tr>
<td>Mature plant width</td>
<td>20-25 cm (8-10&quot;)</td>
</tr>
<tr>
<td>Pot size</td>
<td>Packs, 8-10 cm (3-4&quot;) pots</td>
</tr>
<tr>
<td>Plants per pot</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 to 5 plants for baskets and large pots</td>
</tr>
<tr>
<td>Sun exposure</td>
<td>Partial shade-shade</td>
</tr>
<tr>
<td>Water requirements</td>
<td>Reduced, avoid wet conditions</td>
</tr>
<tr>
<td>Flowering time</td>
<td>Entire growing season</td>
</tr>
<tr>
<td>Media</td>
<td>A well-drained, porous media is best to prevent over watering pH 5.5-6.2</td>
</tr>
<tr>
<td></td>
<td>EC 1.4-1.8 (100-150 ppm)</td>
</tr>
<tr>
<td>Growing temperature</td>
<td>Start at 18-20ºC (64-68ºF)</td>
</tr>
<tr>
<td></td>
<td>Lower the temperature after root at 15-18ºC (59-64ºF)</td>
</tr>
<tr>
<td></td>
<td>Avoid wet conditions at night</td>
</tr>
<tr>
<td>Light</td>
<td>Impatiens are shade plants and should not be exposed to excessive amounts of sun. If properly hardened, impatiens can handle up to 4 hours of morning sun</td>
</tr>
<tr>
<td>Fertilizer needs</td>
<td>Balanced N:P:K fertiliser as needed recommended, use calcium based fertilizers EC 1.8-2.2 (50-200 ppm)</td>
</tr>
<tr>
<td>Crop time</td>
<td>10-12 weeks</td>
</tr>
<tr>
<td>Hardiness zone</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Growth regulators**
Impatiens responds to: Daminozide (Dazide or B-nine), Paclobutrazol (Bonzi) however careful monitoring of water, light and fertilizer applications can keep growth in check

**Common Diseases**
Alternaria leaf spot, Fusarium, Phytophthora, Downy mildew

**Common Pests**
Thrips, Leafminer, Aphids and Whitefly

**Pinching**
No need
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## Plug Production

<table>
<thead>
<tr>
<th>Seed forms</th>
<th>Raw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed count</td>
<td>1,400-2,000 sds/gr (39,800-56,900 sds/oz)</td>
</tr>
<tr>
<td>Seeds cell</td>
<td>1</td>
</tr>
<tr>
<td>Vermiculite cover</td>
<td>Light</td>
</tr>
</tbody>
</table>

### Stage 1

#### Germination
- Media EC: <0.75
- Media pH: 6.2-6.5; low pH (<5.5) may promote shoot tip abortion and allow sodium to become toxic
- Temperature: 21-24°C (71-76°F) growing medium temperature
- Maintain high moisture levels and keep a relative humidity of 95-100%
- Temperature above the recommended levels may induce thermal dormancy which inhibits the germination. Temperature below the recommended levels will decrease the speed and uniformity of germination. Temperature below 18°C (65°F) may cause tip abortion and leaf malformation
- Light is necessary for the germination process
- Provide 10-100 lux (1-10 fc) in the chamber

### Stage 2

#### Stem and cotyledon
- Reduce moisture levels to obtain optimum root penetration and to prevent fungal diseases
- Prevent wet foliage after nightfall
- Temperature: 20-22°C (68-72°F)
- Fertilization: EC 0.7-1.2 (100-175 ppm)
- Supplemental light at 3,500-4,500 lux (350-450 fc) for 14 days will help to produce more vigorous and strong seedlings

### Stage 3

#### Growth and development
- Gradually lower temperatures to 20-22°C (68-72°F)
- Increase fertilization levels up to EC 0.7-1.2 (100-175 ppm) with every second or third watering
- A minimal use of fertilizer will keep the seedlings compact and stimulate flowering
- Start to decrease the moisture levels to avoid stretching of the seedlings

### Stage 4

#### Ready for transplanting
- The plugs can be finished at 20-22°C (68-72°F) throughout the whole plug stage
- PH levels need to be maintained at 6.0-6.5

### Plug crop time
- 4-5 weeks

### Approximate finish time
- 5-6 weeks

### Special tips
- Plants require good light but shade lightly on very bright days to keep flowers above the foliage and prevent leaf burn. Space plants well to avoid stretching