Infinity FA2i Dual-Purpose Air Winches
1,445-2,000 kg (3,180-4,400 lb)

Ideal for:
- Onshore
- Offshore
- Marine

Lifting lugs designed for lifting weight of winch plus full drum of wire rope

Minimum 18:1 drum diameter to wire rope diameter

Lift-to-Shift variable speed lever provides precise control and built-in safety

Adjustable drum guard comes standard on all dual purpose winches

Radial piston air motor provides reliable power with adjustable speed for any use

Gearbox-in-drum design reduces size and helps the winch fit in compact applications

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Ingersoll Rand Dual Purpose winches are designed to maximize the use of your equipment. They combine the time-tested, rugged durability of our standard Infinity winches with enhanced safety features for lifting personnel. In environments where dedicated Man Rider® winches are not required, Ingersoll Rand Dual Purpose winches offer you the versatility to lift people and material with one winch. Often copied, but never equaled, count on Ingersoll Rand Dual Purpose winches to get the job done.

*Bolt Patterns* 

Dimensions shown are mm. Dimensions in Brackets [ ] are inches. Dimensions are subject to change. Contact factory for certified drawings.

<table>
<thead>
<tr>
<th>Model</th>
<th>Bolt Down “A” Dimension</th>
<th>Bolt Down “B” Dimension</th>
<th>Bolt Down “C” Dimension</th>
<th># of Bolt Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i- MR8MK1G**</td>
<td>508 (20.0)</td>
<td>178 (7.0)</td>
<td>18 (0.69)</td>
<td>6</td>
</tr>
<tr>
<td>FA2i- MR12MK1G**</td>
<td>508 (20.0)</td>
<td>229 (9.0)</td>
<td>18 (0.69)</td>
<td>6</td>
</tr>
<tr>
<td>FA2i- MR16MK1G**</td>
<td>508 (20.0)</td>
<td>191 (7.5)</td>
<td>18 (0.69)</td>
<td>8</td>
</tr>
<tr>
<td>FA2i- MR20MK1G**</td>
<td>508 (20.0)</td>
<td>229 (9.0)</td>
<td>18 (0.69)</td>
<td>8</td>
</tr>
<tr>
<td>FA2i- MR24MK1G**</td>
<td>508 (20.0)</td>
<td>254 (10.0)</td>
<td>18 (0.69)</td>
<td>8</td>
</tr>
</tbody>
</table>
**General Performance (Personnel Lifting). Performance based on a 8:1 design factor**

<table>
<thead>
<tr>
<th>Model</th>
<th>First Layer kg (lb)</th>
<th>Mid Drum kg (lb)</th>
<th>Top Layer kg (lb)</th>
<th>First Layer m/min (fpm)</th>
<th>Line Speed Mid Drum m/min (fpm)</th>
<th>Top Layer m/min (fpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>2,153 (4,740)</td>
<td>1,800 (3,970)</td>
<td>1,445 (3,180)</td>
<td>21 (68)</td>
<td>22 (71)</td>
<td>23 (75)</td>
</tr>
</tbody>
</table>

**General Performance (Utility Lifting). Performance based on a 5:1 design factor**

<table>
<thead>
<tr>
<th>Model</th>
<th>First Layer kg (lb)</th>
<th>Mid Drum kg (lb)</th>
<th>Top Layer kg (lb)</th>
<th>First Layer m/min (fpm)</th>
<th>Line Speed Mid Drum m/min (fpm)</th>
<th>Top Layer m/min (fpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>2,980 (6,600)</td>
<td>2,490 (5,500)</td>
<td>2,000 (4,400)</td>
<td>17 (55)</td>
<td>16 (52)</td>
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</tr>
</tbody>
</table>

**General Characteristics (Personnel Lifting). Performance at 6.3 bar (90 psi) air inlet pressure with the motor running**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor kW (hp)</th>
<th>Lifting Speed m/min (fpm)</th>
<th>Air Consumption m³/min (ft³/min)</th>
<th>Air Volume Needed to Move Rated Load 3 m (10 ft)</th>
<th>Sound Level as per EN 14492-1 dB(A)</th>
<th>Net Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>6.7 (9)</td>
<td>23 (75)</td>
<td>8 (280)</td>
<td>1.0 (37.3)</td>
<td>87</td>
<td>420 (925)</td>
</tr>
</tbody>
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**General Characteristics (Utility Lifting). Performance at 6.3 bar (90 psi) air inlet pressure with the motor running**

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**Drum Capacity (Personnel Lifting)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Minimum Rope Breaking Force (1) kN (lbs)</th>
<th>Recommended Rope Diameter mm (in)</th>
<th>Drum Capacity per Layer (2) m (ft)</th>
<th>Max. Rope Storage Capacity (3) m (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2i-MR24MK1G</td>
<td>113 (25,440)</td>
<td>13 (1/2)</td>
<td>Layer 1 41 (138) 86 (289) Layer 2 135 (450) 187 (624) Layer 3 242 (809) 301 (1,006) 364 (1,214) 430 (1,435) 430 (1,435) 430 (1,435)</td>
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<tr>
<td>FA2i-MR24MK1G</td>
<td>97.9 (22,000)</td>
<td>13 (1/2)</td>
<td>Layer 1 41 (138) 86 (289) Layer 2 135 (450) 187 (624) Layer 3 242 (809) 301 (1,006) 364 (1,214) 430 (1,435) 430 (1,435)</td>
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(1) Recommended minimum breaking force of wire rope based on top layer line pull rating.
(2) Drum Capacity is based on tightly wound wire rope and 1/2" freeboard from the top of the flange to the top layer. Recommended drum working capacity is 80% of values shown.
(3) Max storage capacity is tightly wound with no freeboard.
How to Order

**Series**
- **FA** Air powered
- **MR** Man Rider
- **24** M Manual drum brake
- **M** Disc brake (standard)
- **K** Disc brake (standard)
- **1** Std.
- **10GP** Remote control lever

**Capacity (lb)**
- FA: 2 3180
- MR: 1 1000
- 24: 2 3180
- M: 2 800
- K: 3 2000
- 10GP: 1 2000

**Man Rider**
- FA: Man Rider
- MR: Man Rider

**Drum Length (in)**
- FA: 8
- MR: 8
- 24: 12
- M: 16
- K: 20
- 10GP: 24

**Drum Brake**
- FA: Auto drum brake
- MR: Manual drum brake

**Disc Brake**
- M: Disc brake (standard)
- K: Disc brake (standard)

**Control**
- 1: Std.
- 2xx: Throttle lever
- 3xx: Remote pilot lever throttle
- 4xx: Remote pilot pendant throttle
- 5xx: Electric over air control

**Options**
- 10: Drum grooving (specify rope size in sixteens; e.g., 10 = 10/16" or 5/8")
- C1M3: -20°C ABS design temperature
- C2M3: -20°C DNV design temperature
- E: Construction Cage
- G: Drum Guard (standard)
- J1(2): Material Traceability per DIN 50049/EN10204 Para 2.2 “Typicals”
- M1(2): Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased
- M2(2): Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased
- N4(2): Manufactured under ABS survey
- N5: Manufactured under DNV survey
- P: Marine 812 finish paint
- P1: Marine 812-X paint system
- P2: Marine 812-X paint system - isocyanate free
- S: Rotary limit switch (upper and lower)
- U: Underwound wire rope takeoff
- V: Press Roller
- W1: ABS witness test
- W2: DNV witness test
- W3: LRS witness test
- W4: Client witness of load test
- Y: Overload protector with E-Stop provided on lever throttle

**CE** Compliance with the European Machinery Directive and EN14492-1 for power driven winches

**NOTE:**
(1) Add 1 for filter, 2 for lubricator, 3 for regulator (e.g., J12). For protection during shipment and due to the wide range of installation variables, the airline accessories are shipped loose for client installation.
(2) M1 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 2.2 on load bearing parts. This conformity document affirms (by the manufacturer) that parts are in compliance with the requirements of the order based on non-specific inspection and testing (i.e., results are typical material properties for these parts).
M2 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e., results are actual material properties for those parts).
M3 – Material traceability certificates according to EN 10204 (Ex DIN 50049) 3.1b on load bearing parts. These documents affirm (by a department independent of the manufacturing department) that the actual parts used in the product are in compliance with the order based on specific inspection and testing (i.e., results are actual material properties for those parts in a finished, as delivered condition).