

**ADJUSTABLE DRUM GUARD**—optional but recommended for all applications (standard with -CE option)

**MINIMUM 18:1**  
drum diameter to  
wire rope diameter

**LIFTING LUGS** designed  
for lifting weight of winch  
plus full drum of wire rope

**LIFT-TO-SHIFT  
VARIABLE SPEED  
LEVER** provides  
precise control and  
built-in safety

**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

**IDEAL FOR:**



Onshore



Offshore



Marine

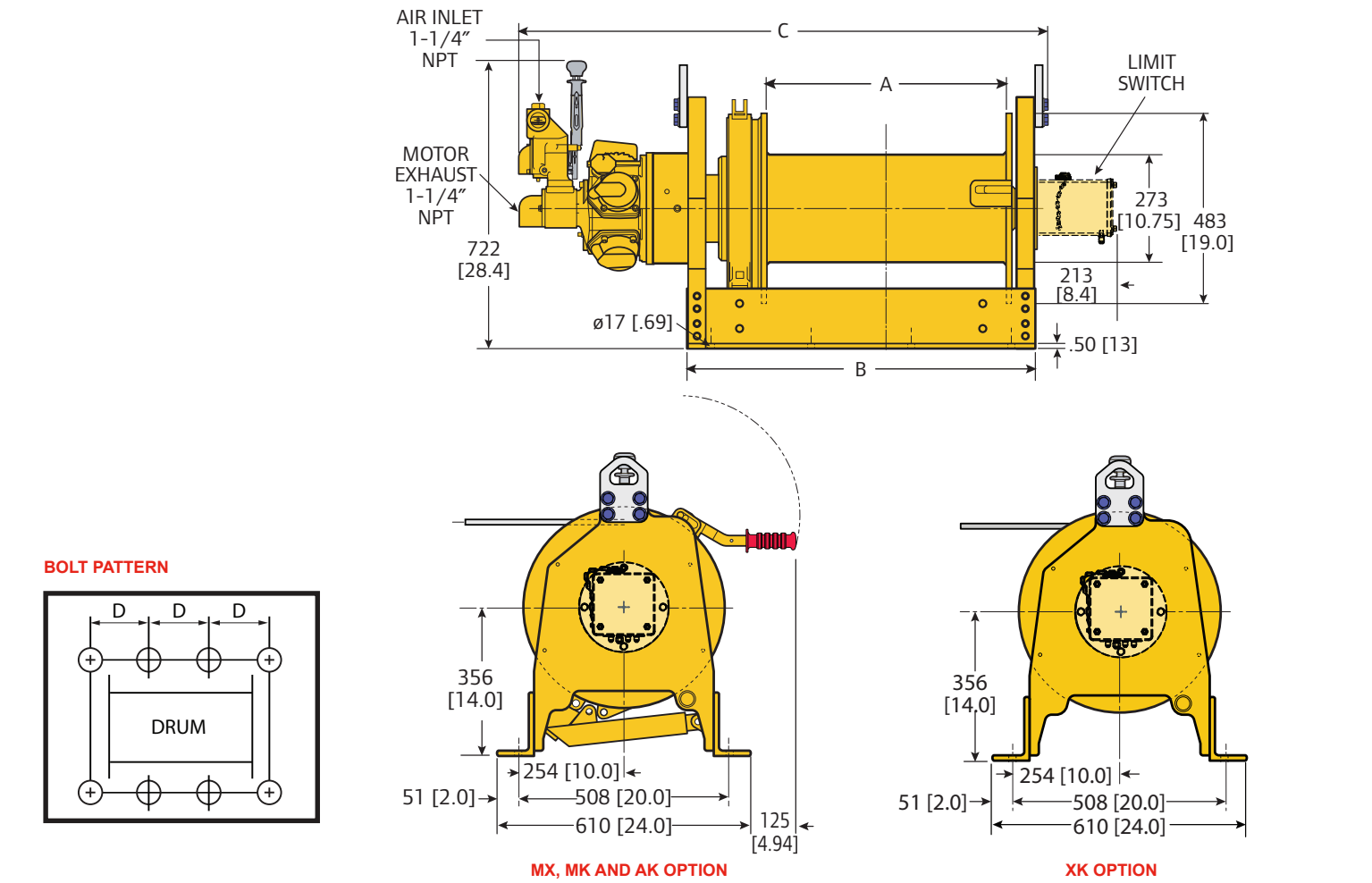
# INFINITY FA2I AIR WINCHES

2,000 kg (4,400 lb)

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Ingersoll Rand® Infinity FA2i air winches set the standard in winch technology with premium features and options. Designed to handle 2 tons or less the FA2i winch packs a powerful radial piston air motor into a compact size. Count on the Infinity FA2i winch when you need reliable power in a space saving design.



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

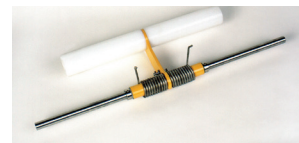
Model	A		B		C		# of Bolt Holes	Bolt Pattern D	
	MX, MK, XK, AK mm (in)	MX, MK, AK mm (in)	XK mm (in)	MX mm (in)	XK mm (in)	MK, AK mm (in)		MX, MK, AK mm (in)	XK mm (in)
FA2i-12**1	305 (12.0)	579 (22.8)	511 (20.11)	968 (38.1)	945 (37.2)	1,036 (40.8)	6	229 (9.0)	191 (7.5)
FA2i-16**1	406 (16.0)	681 (26.8)	612 (24.11)	1,069 (42.1)	1,046 (41.2)	1,138 (44.8)	8	191 (7.5)	159 (6.3)
FA2i-20**1	508 (20.0)	782 (30.8)	714 (28.11)	1,171 (46.1)	1,148 (45.2)	1,240 (48.8)	8	229 (9.0)	197 (7.8)
FA2i-24**1	610 (24.0)	884 (34.8)	816 (32.11)	1,273 (50.1)	1,250 (49.2)	1,341 (52.8)	8	254 (10.0)	229 (9.0)

\*\* Indicated brake configuration. **MX:** Manual drum, no auto disc; **XK:** No manual drum, auto disc; **MK:** Manual drum, auto disc; **AK:** Auto drum, auto disc. Dimensions subject to change. Contact factory for certified prints. **NOTE:** Limit switches standard on -CE versions only.





Grooved Drum



Press Roller



Optional drum guards

#### General Performance. Performance based on a 5:1 design factor

Model	Line Pull Capacity			Line Speed		
	First Layer kg (lb)	Mid Drum kg (lb)	Top Layer kg (lb)	First Layer m/min (fpm)	Mid Drum m/min (fpm)	Top Layer m/min (fpm)
FA2i-12**1	2,980 (6,600)	2,490 (5,500)	2,000 (4,400)	10 (34)	13 (42)	16 (51)
FA2i-16**1	2,980 (6,600)	2,490 (5,500)	2,000 (4,400)	10 (34)	13 (42)	16 (51)
FA2i-20**1	2,980 (6,600)	2,490 (5,500)	2,000 (4,400)	10 (34)	13 (42)	16 (51)
FA2i-24**1	2,980 (6,600)	2,490 (5,500)	2,000 (4,400)	10 (34)	13 (42)	16 (51)

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

Model	Motor	Lifting Speed at Top Layer	Air Consumption with Rated Load	Air Volume Needed to Move Rated Load at Top Layer	Stall	Sound Level as per EN 14492-1	Net Weight
	kW (hp)	m/min (fpm)	m³/min (ft³/min)	3 m (10 ft)	kg (lb)	dB(A)	kg (lb)
FA2i-12**1	7 (9)	16 (51)	8 (280)	1.5 (54.9)	4,154 (9,139)	87	386 (850)
FA2i-16**1	7 (9)	16 (51)	8 (280)	1.5 (54.9)	4,154 (9,139)	87	386 (850)
FA2i-20**1	7 (9)	16 (51)	8 (280)	1.5 (54.9)	4,154 (9,139)	87	386 (850)
FA2i-24**1	7 (9)	16 (51)	8 (280)	1.5 (54.9)	4,154 (9,139)	87	386 (850)

#### Drum capacity

Model	Minimum Rope Breaking Force <sup>(1)</sup> kN (lbs)	Recom- mended Rope Diam- eter mm (in)	Drum Capacity per Layer <sup>(2)</sup> m (ft)								Max. Rope Storage Capacity <sup>(3)</sup> m (ft)
			Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	
FA2i-12**1	98 (22,000)	13 (1/2)	20 (67)	42 (141)	65 (220)	91 (305)	118 (395)	147 (492)	177 (594)	210 (702)	210 (702)
FA2i-16**1	98 (22,000)	13 (1/2)	27 (91)	56 (190)	88 (297)	122 (411)	159 (533)	198 (663)	239 (800)	283 (946)	283 (946)
FA2i-20**1	98 (22,000)	13 (1/2)	34 (114)	71 (239)	111 (373)	154 (517)	200 (671)	249 (834)	301 (1,007)	356 (1,190)	356 (1,190)
FA2i-24**1	98 (22,000)	13 (1/2)	41 (138)	86 (288)	134 (450)	186 (623)	241 (808)	300 (1,005)	363 (1,214)	429 (1,434)	429 (1,434)

<sup>(1)</sup> Recommended minimum breaking force of wire rope based on top layer line pull rating.

<sup>(2)</sup> Drum Capacity is based on tightly wound wire rope. Recommended drum working capacity is 80% of values shown.

<sup>(3)</sup> Max storage capacity is tightly wound with no freeboard.

# How to Order

FA 2i - 24 X K 220 - 14GP1						
Series	Capacity	Drum Length (inches)	Drum Brake	Disc Brake	Control	Options
FA Air powered	2i 4,400 lb	12 16 20 24 std	X No drum brake M Manual drum brake A Auto drum brake	X No auto disc brake K Disc brake	1 Std. throttle lever 2xx Remote full flow lever throttle 3xx Remote pilot pendant throttle 4xx Remote pilot lever throttle 5xx Electric over air control  xx Specify hose/elec. cord length in ft	14 Drum grooving (specify rope size in sixteenths; e.g., 14 = 14/16" or 7/8") B Extended warranty C1M3 -20° C ABS design temperature C2M3 -20° C DNV design temperature D Drum divider flange & additional cable anchor E Construction cage G Drum guard J <sup>(1)</sup> Air Line Accessories L Drum Locking Pin M1 <sup>(2)</sup> Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals" M2 <sup>(2)</sup> Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased M3 <sup>(2)</sup> Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as delivered in final condition N4 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 Q Adjustable Accu-Spool™ 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:

<sup>(1)</sup> 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.

<sup>(2)</sup> **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).

Ingersoll Rand strongly recommends using Drum Guards with all winches to prevent inadvertent contact with winch moving parts.

## Special Orders



Ingersoll Rand can provide customized solutions for your application. Whether you need to move specialized or high capacity loads or have custom control requirements, we can build the right solution for you. Ingersoll Rand's global account management team, dedicated project managers and engineering teams are focused exclusively on high capacity hoists and winches. From evaluation to installation and beyond, contact us to build your custom solution today.

- Design for custom capacities
- Custom control systems
- Custom product modifications
- Witness testing and complete certification to most global standards
- Full engineering capabilities including data packages and CAD drawings
- Global Account Management and dedicated project management teams
- Onsite services available including presale evaluation, installation and maintenance



Ingersoll Rand (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency.



Learn more at [www.ingersollrand.com](http://www.ingersollrand.com)