Infinity FA2.5i Air Winches

2,270 kg (5,000 lb)

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

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

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

Fabricated steel frame provides maximum durability

Ideal for:

Onshore

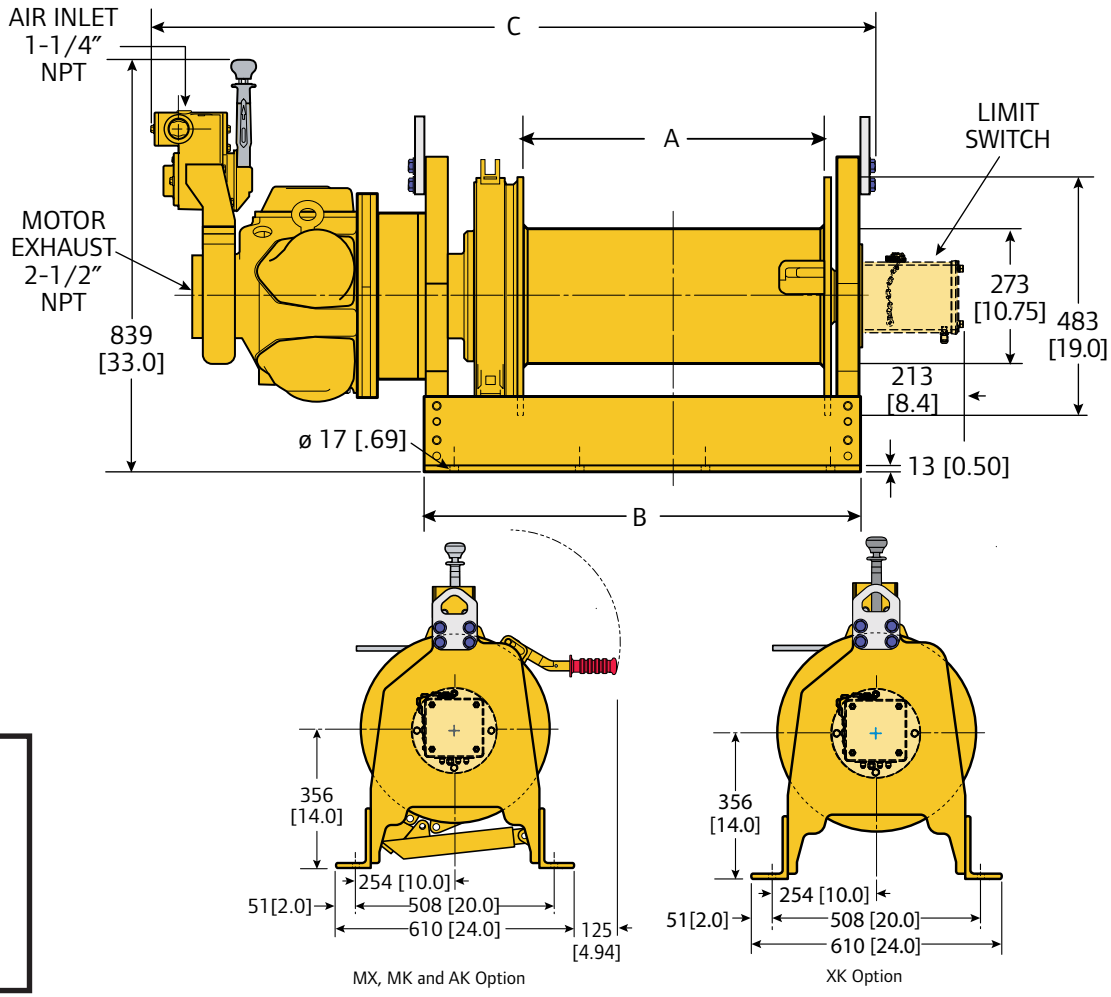
Offshore

Marine

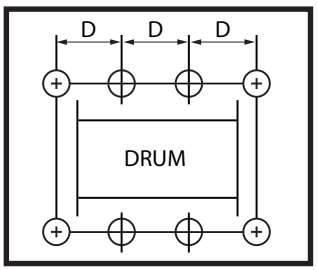
Infinity FA2.5i Air Winches

2,270 kg (5,000 lb)

Ingersoll Rand FA2.5i Infinity winches come with heavy duty radial piston motors and fabricated steel frames for durability in all conditions. They are available with multiple options to suit your needs.



Bolt Pattern



Model	B	B		C			Bolt Pattern D		
	MX, MK, AK, XK mm (in)	MX, MK, AK mm (in)	XK mm (in)	MX mm (in)	XK mm (in)	MK, AK mm (in)	# of Bolt Holes	MX, MK, AK mm (in)	XK mm (in)
FA2.5i-8**1	203 (8.0)	478 (18.8)	409 (16.1)	996 (39.2)	986 (38.8)	1,062 (41.8)	6	178 (7.0)	152 (6.0)
FA2.5i-12**1	305 (12.0)	579 (22.8)	511 (20.1)	1,097 (43.2)	1,087 (42.8)	1,163 (45.8)	6	229 (9.0)	203 (8.0)
FA2.5i-16**1	406 (16.0)	681 (26.8)	612 (24.1)	1,199 (47.2)	1,189 (46.8)	1,265 (49.8)	8	191 (7.5)	178 (7.0)
FA2.5i-20**1	508 (20.0)	782 (30.8)	714 (28.1)	1,300 (51.2)	1,290 (50.8)	1,367 (53.8)	8	229 (9.0)	203 (8.0)
FA2.5i-24**1	610 (24.0)	884 (34.8)	816 (32.1)	1,402 (55.2)	1,392 (54.8)	1,468 (57.8)	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.

Press Roller

Lubricator, Regulator, Filter

Optional limit switch - standard on -CE units

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

	Line Pull Capacity			Line Speed		
Model	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)
FA2.5i-8**1	3,440 (7,600)	2,855 (6,300)	2,270 (5,000)	39 (128)	39 (130)	40 (132)
FA2.5i-12**1	3,440 (7,600)	2,855 (6,300)	2,270 (5,000)	39 (128)	39 (130)	40 (132)
FA2.5i-16**1	3,440 (7,600)	2,855 (6,300)	2,270 (5,000)	39 (128)	39 (130)	40 (132)
FA2.5i-20**1	3,440 (7,600)	2,855 (6,300)	2,270 (5,000)	39 (128)	39 (130)	40 (132)
FA2.5i-24**1	3,440 (7,600)	2,855 (6,300)	2,270 (5,000)	39 (128)	39 (130)	40 (132)

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

	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
Model	kW (hp)	m/min (fpm)	m^3/min (ft^3/min)	3 m (10 ft)	kg (lb)	dB(A)	kg (lb)
FA2.5i-8**1	18.8 (25.2)	40 (132)	20 (700)	1.5 (53)	4,671 (10,277)	97	481 (1,061)
FA2.5i-12**1	18.8 (25.2)	40 (132)	20 (700)	1.5 (53)	4,671 (10,277)	97	481 (1,061)
FA2.5i-16**1	18.8 (25.2)	40 (132)	20 (700)	1.5 (53)	4,671 (10,277)	97	481 (1,061)
FA2.5i-20**1	18.8 (25.2)	40 (132)	20 (700)	1.5 (53)	4,671 (10,277)	97	481 (1,061)
FA2.5i-24**1	18.8 (25.2)	40 (132)	20 (700)	1.5 (53)	4,671 (10,277)	97	481 (1,061)

Drum capacity

	Minimum Rope Breaking Force[1]	Recommended Rope Diameter	Drum Capacity per Layer[2] m (ft)						Max. Rope Storage Capacity[3]
Model	kN (lbs)	mm (in)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	m (ft)
FA2.5i-8**1	111 (25,000)	16 (5/8)	10 (35)	22 (73)	35 (116)	49 (162)	64 (212)	80 (265)	80 (265)
FA2.5i-12**1	111 (25,000)	16 (5/8)	16 (54)	34 (114)	54 (179)	75 (250)	99 (327)	124 (410)	124 (410)
FA2.5i-16**1	111 (25,000)	16 (5/8)	22 (73)	46 (154)	73 (242)	102 (338)	134 (442)	167 (554)	167 (554)
FA2.5i-20**1	111 (25,000)	16 (5/8)	27 (92)	58 (194)	92 (305)	129 (427)	168 (557)	211 (698)	211 (698)
FA2.5i-24**1	111 (25,000)	16 (5/8)	33 (111)	70 (234)	111 (368)	156 (515)	203 (673)	255 (842)	255 (842)

(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. Recommended drum working capacity is 80% of values shown.
(3) Max storage capacity is tightly wound with no freeboard.

How to Order

FA 2.5i - 24 M K 220 - 14GP1

Series	Capacity	Drum Length (inches)	Drum Brake	Disc Brake	Control	Options
FA Air powered	**2.5i** 5,000 lb	**8** **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**[1] Air Line Accessories **L** Drum Locking Pin **M1**[2] Material Traceability per DIN 50049/EN10204 Para 2.2 "Typicals" **M2**[2] Material Traceability per DIN 50049/EN10204 Para 3.1b actuals per product as purchased **M3**[2] 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:

[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).

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

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 IRITS-0615-063