



# Infinity 2.5i Dual Purpose Air Winches

1,445-2,273 kg (3,180-5,000 lb)

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

**Adjustable drum guard** comes standard on all dual purpose winches

**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



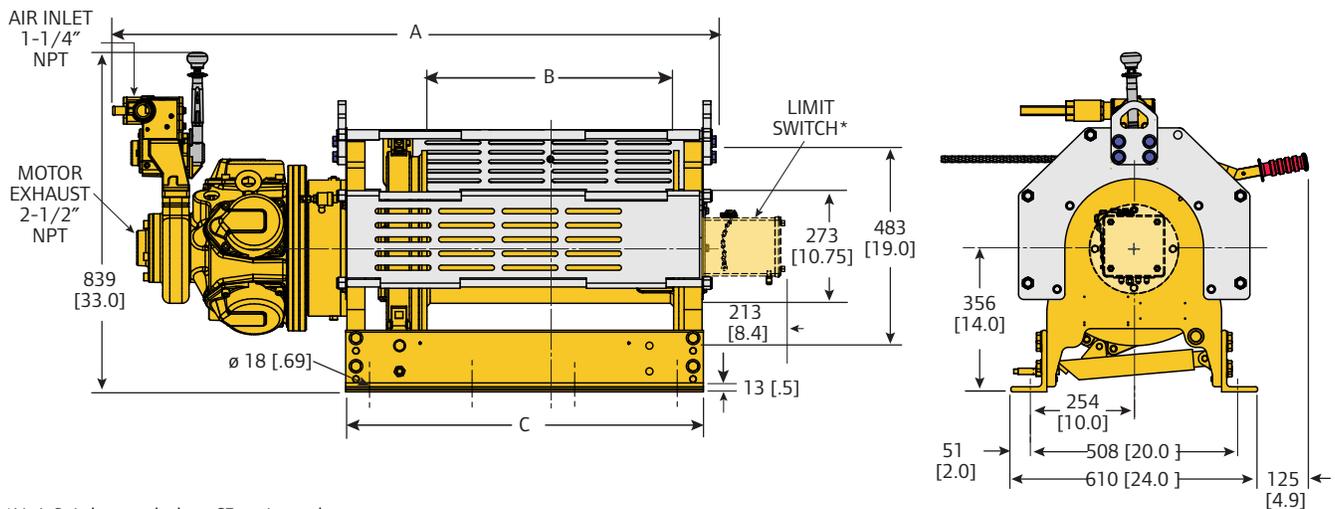
Marine



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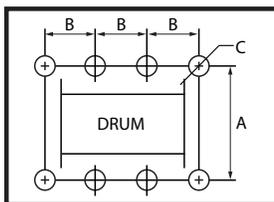
Ingersoll Rand Dual Purpose winches are designed to maximize the use of your equipment. They combine the time-tested, rugged durability of our standard Infinity winches with enhanced safety features for lifting personnel. In environments where dedicated Man Rider® winches are not required, Ingersoll 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.



\*Limit Switches standard on -CE versions only.  
 Dimensions shown are mm. Dimensions in Brackets [ ] are inches. Dimensions are subject to change. Contact factory for certified drawings.

Model	A mm (in)	B mm (in)	C mm (in)
FA2.5i-MR8MK1G	914 (36)	203 (8)	478 (18.8)
FA2.5i-MR12MK1G	1,168 (46)	305 (12)	579 (22.8)
FA2.5i-MR16MK1G	1,270 (60)	406 (16)	681 (26.8)
FA2.5i-MR20MK1G	1,372 (54)	508 (20)	782 (30.8)
FA2.5i-MR24MK1G	1,473 (58)	610 (24)	884 (34.8)

### Bolt Pattern



Model	Bolt Down "A" Dimension	Bolt Down "B" Dimension	Bolt Down "C" Dimension	# of Bolt Holes
FA2.5i-MR8MK1G	508 (20.0)	178 (7.0)	18 (0.69)	6
FA2.5i-MR12MK1G	508 (20.0)	229 (9.0)	18 (0.69)	6
FA2.5i-MR16MK1G	508 (20.0)	191 (7.5)	18 (0.69)	8
FA2.5i-MR20MK1G	508 (20.0)	229 (9.0)	18 (0.69)	8
FA2.5i-MR24MK1G	508 (20.0)	254 (10.0)	18 (0.69)	8



Grooved Drum



Press Roller



Optional overload with E-stop - standard on -CE units

**General Performance (Personnel Lifting). Performance based on a 8:1 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)
FA2.5i-MR24MK1G	2,185 (4,820)	1,815 (4,000)	1,445 (3,180)	44 (145)	49 (159)	53 (173)

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

FA2.5i-MR24MK1G	3,440 (7,600)	2,856 (6,300)	2,273 (5,000)	39 (128)	39 (130)	40 (132)
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**General Characteristics (Personnel Lifting). 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	Sound Level as per EN 14492-1	Net Weight
	kW (hp)	m/min (fpm)	m <sup>3</sup> /min (ft <sup>3</sup> /min)	3 m (10 ft)	dB(A)	kg (lb)
FA2.5i-MR24MK1G	18.7 (25)	53 (173)	20 (700)	1.1 (40.5)	97	574 (1,265)

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

FA2.5i-MR24MK1G	18.7 (25)	40 (132)	20 (700)	1.5 (53.0)	97	574 (1,265)
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**Drum Capacity (Personnel Lifting)**

Model	Minimum Rope Breaking Force <sup>(1)</sup> kN (lbs)	Recom- mended Rope Diameter 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	
FA2.5i-MR24MK1G	113 (25,440)	13(1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)

**Drum Capacity (Utility Lifting)**

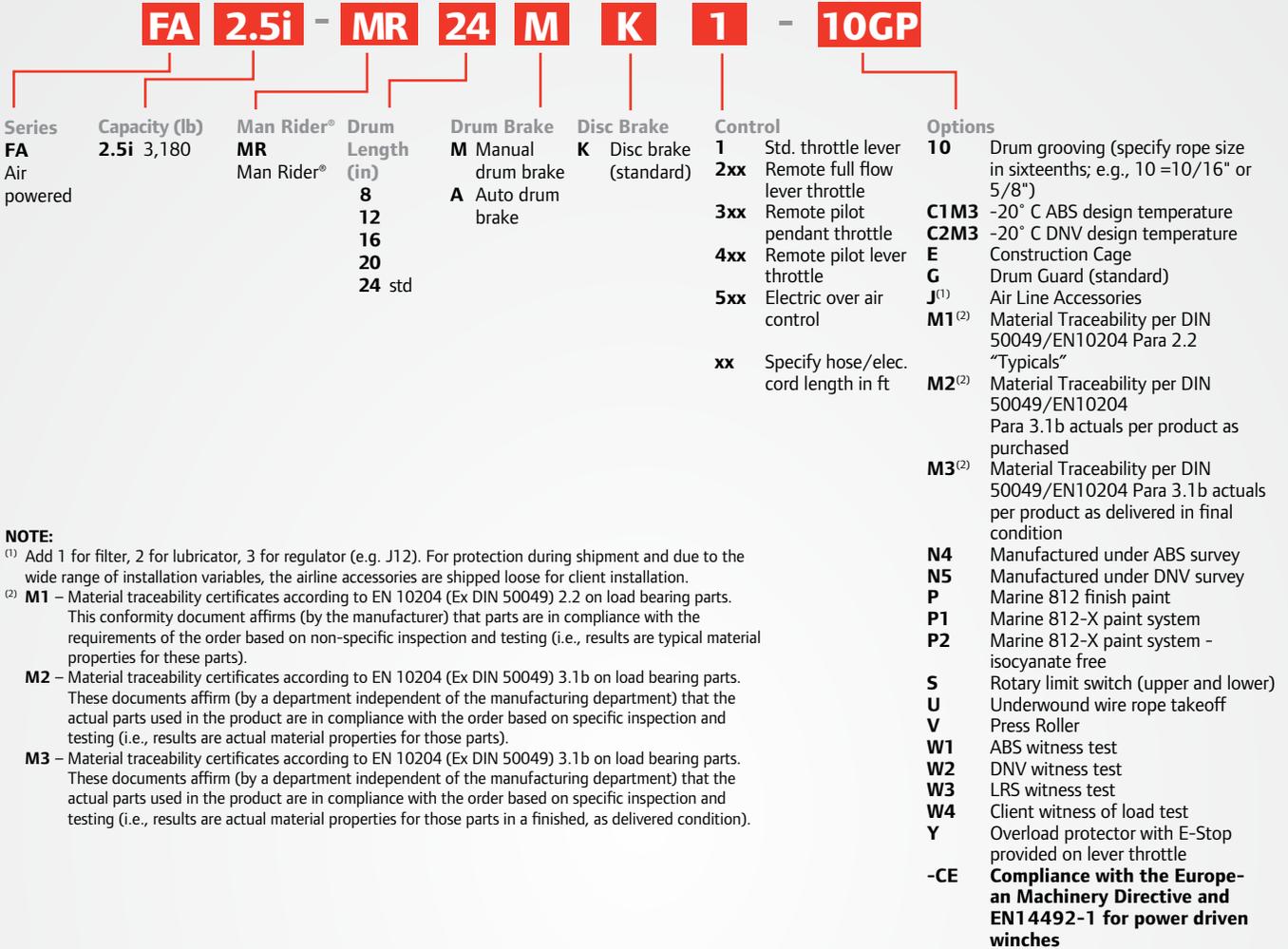
FA2.5i-MR24MK1G	111 (25,000)	13(1/2)	41 (138)	86 (289)	135 (450)	187 (624)	242 (809)	301 (1,006)	364 (1,214)	430 (1,435)	430 (1,435)
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<sup>(1)</sup> Recommended minimum breaking force of wire rope based on top layer line pull rating.

<sup>(2)</sup> Drum Capacity is based on tightly wound wire rope and 1/2" freeboard from the top of the flange to the top layer. Recommended drum working capacity is 80% of values shown.

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

# How to Order



**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).



For More Information [www.ingersollrandproducts.com/lifting](http://www.ingersollrandproducts.com/lifting) [lifting@irco.com](mailto:lifting@irco.com)

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