Product Features and Specifications

FA2i Infinity Series Winch - Capacity: 4,400 lbs (2000 kg)

PFS-FA2i-09072010

Rugged Compact and Versatile Design

- Meets ANSI / ASME B30.7
- \cdot 5:1 design factor at rated load
- Top layer rated line pull
- \cdot "Lift to shift" winch mounted lever throttle
- Minimum 18:1 drum diameter to wire rope diameter ratio
- Compact gearbox-in-drum design
- Standard design temperature range is 0°C through 60°C
- Group of mechanism as per FEM: 5m
- Pre-certified lifting lugs

Suitable for Hazardous Explosion Proof Environments

- Flameproof by design. Air motors (unlike electric motors) are inherently spark resistant.
- ATEX classification (as per directive EC 94/9/EEC).
 CE compliant models marked EX II 2 GD c 200°C X

Powerful Radial Piston Air Motor

- Positive starting torque
- Infinitely variable speeds with precision spotting control
- Superior reliability in harsh environments

Brake Systems

- Manual drum brake standard
- Optional auto drum brake and /or auto disc available
- Fully enclosed automatic oil bath "wet" disc brake sealed against moisture and contaminants
- Ingersoll Rand recommends the use of automatic brakes whenever a winch is used for lifting

CE compliant versions provided with:

- Drum guard
- Overload protection (preset regulator)
- Emergency stop
- Muffler
- Automatic brake
- Limit switches
- CE documentation

Options and Accessories

- DNV & ABS Type Approved models available
- Low temperature versions
- Overload and E-stop control system
- Remote controls
- Limit switches
- Tensioning manifold
- Drum guards*
- Grooved drums
- $\boldsymbol{\cdot}$ Drum divider flanges
- Drum locks
- Spooling devices
- Marine paint systems
- Air line accessories
- * Ingersoll Rand recommends using Drum Guards with all winches to prevent inadvertent contact with winch moving parts



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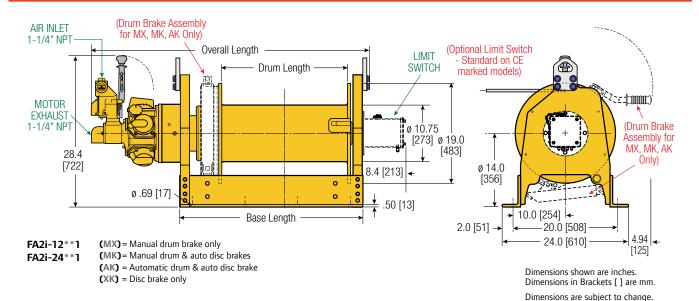


FA2i with optional Auto Disc Brake, Drum Guard and Press Roller

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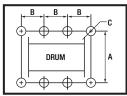


Dimensions: FA2i and Bolt Down Pattern

Drum Leng	gth 12'	″ [305	mm]		Drum Length 24" [610 mm]								
	Drum & Disc Brakes (MK & AK)		Disc Brake Only (XK)			Drum Brake Only (MX)		& Disc (MK & AK)		Brake (XK)	Drum Brake Only (MX)		Γ
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
Overall Length	40.8	1036	38.1	968	37.2	945	52.8	1341	50.1	1273	49.2	1250	
Base Length	22.8	579	20.11	511	22.8	579	34.8	884	32.11	816	34.8	884	
'A'	20.0	508	20.0	508	20.0	508	20.0	508	20.0	508	20.0	508	
'B'	9.0	229	7.5	191	9.0	229	10.0	254	9.0	229	10.0	254	
Ϋ́C΄	0.69	18	0.69	18	0.69	18	0.69	18	0.69	18	0.69	18	
Total # Holes	6		6		(6		8	1	8	8	ίC	



Contact factory for certified drawings.



'= Bolt Hole Inside Diameter

Lift Ratings at 5:1 Design Factor (Performance at 6.3 Bar - 90 PSI at air inlet when winch is operating)															
		Layer		First L	ayer										
Rated				Speed at				Average Air		Sound	Inlet	Exhaust	Net		
	Capacity		Speed		Rated Capacity		Stall Pull		Consumption (1)		Level ⁽²⁾	Size	Size	Wei	ght
hp	lbs	kg	ft/min	m/min	ft/min	m/min	lbs	kg	f³/min	m³/min	db(A)	NPT	NPT	lbs	kg
8	4,400	2000	51	16	55	17	9,139	4154	280	8	87	1-1/4″	1-1/4″	850	386
		Ra Capa hp Ibs	Top Rated Capacity hp Ibs kg	<u>Top Layer</u> Rated Capacity Sp hp Ibs kg ft/min	<u>Top Layer</u> Rated Capacity Speed hp Ibs kg ft/min m/min	Top Layer Rated Spee Capacity Speed Rated C hp lbs kg ft/min m/min ft/min	<u>Top Layer</u> First L Rated Speed at Capacity Speed Rated Capacity hp lbs kg ft/min m/min ft/min m/min	Top Layer First Layer Rated Speed at Capacity Speed Rated Capacity Stall hp lbs kg ft/min m/min ft/min m/min lbs	Top Layer First Layer Rated Speed at Capacity Speed Rated Capacity Stall Pull hp lbs kg ft/min m/min ft/min m/min lbs kg	Top Layer First Layer Rated Speed at Avera Capacity Speed Rated Capacity Stall Pull Consur hp lbs kg ft/min m/min ft/min m/min lbs kg f³/min	Top Layer First Layer Rated Speed at Average Air Capacity Speed Rated Capacity Stall Pull Consumption ⁽¹⁾ hp lbs kg ft/min m/min ft/min m/min	Top Layer First Layer Rated Speed at Average Air Sound Capacity Speed Rated Capacity Stall Pull Consumption ⁽¹⁾ Level ⁽²⁾ hp lbs kg ft/min m/min ft/min m/s/min db(A)	Top Layer First Layer Rated Speed at Average Air Sound Inlet Capacity Speed Rated Capacity Stall Pull Consumption ⁽¹⁾ Level ⁽²⁾ Size hp lbs kg ft/min m/min ht/min bs kg f³/min db(A) NPT	Top Layer First Layer Rated Speed at Average Air Sound Inlet Exhaust Capacity Speed Rated Capacity Stall Pull Consumption ⁽¹⁾ Level ⁽²⁾ Size Size hp lbs kg ft/min m/min lbs kg f³/min db(A) NPT NPT	Top Layer First Layer Rated Speed at Average Air Sound Inlet Exhaust Ne Capacity Speed Rated Capacity Stall Pull Consumption ⁽¹⁾ Level ⁽²⁾ Size Size Wei hp lbs kg ft/min m/min ft/min m/min lbs kg f³/min m³/min db(A) NPT NPT lbs

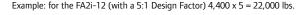
(1) Average Air Consumption is at rated load and speed at top layer (2) With optional muffler

Drum Wire Rope Storage Capacity - <u>Imperial</u> - Utility																	
	Rated capacity	Rope Diameter	Min Req Break Strength*														
Series	lbs	in	lbs	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FA2i-12	4,400	1/2	22,000	66	141	220	305	396	492	594	702						
		5/8	22,000	54	114	180	251	328	410								
FA2i-24	4,400	1/2	22,000	138	289	450	624	809	1,006	1,214	1,435						
		5/8	22,000	111	234	369	515	673	843								

Drum Wire Rope Storage Capacity - <u>Metric</u> - Utility

	Rated capacity	Rope Diameter	Min Req Break Strength*		Accumulated rope capacity in meters / number of layers												
Series	kg	mm	kg	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FA2i-12	2000	13	9979	20	42	66	91	119	147	178	210						
	2000	16	9979	16	34	54	76	99	124								
FA2i-24	2000	13	9979	41	86	135	187	242	301	364	430						
	2000	16	9979	34	71	112	156	204	255								

* Note: The Minimum Required Breaking Strength for the wire rope needs to be the Rated Capacity multiplied by the Design Factor.



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