

Zedi SilverJack Versus the Conventional Pumpjack, A Comparison Sheet

Description	Zedi SilverJack 8000	Zedi SilverJack 6000	Conventional 320 Pumpjack
Installation			
Site preparation	Yes	Minimal	Yes
Cement pad required	Approx. \$4200-\$5,500 for concrete pad models only	None	Approx. \$1,500-\$8,000
Gravel base and cribbing	Approx. \$2,000	None	Approx. \$2,000
Piling required	Approx. \$8,000-\$10,000 for pile models only	None	Approx. \$8,000-\$10,000
Onsite personnel	Zedi technicians	Zedi technicians	Onsite contractors
Complete installation time	6 to 10 hours	2 to 4 hours	12 hours to 2 days
Lifting equipment required	50-ton picker/crane for concrete pad model if using concrete pad not formed on site. 20 ton crane for pile model.	2-ton picker	50-ton picker/crane
Trailers needed	One 48-foot flat deck	One 35-foot goose neck	One 48-foot flat decks
Footprint	10' x 17' for Lift System with Concrete Pad or 13'2" x 9'3" for Lift System with Piles; 7'4" x 4'10-1/4" for Powerpack; 4'3" x 3' for N2 Storage	7'4" x 4'10-1/4"	38'6" x 8'
Weight	Approx. 13,500 lbs.	Approx. 5,400 lbs.	Approx. 45,000 lbs. (not including counter weights)
External moving hazards	Minimal	Minimal	Yes
Rod rotation	External	Integral and external options	External
Counter balance	N2 Gas Storage System	None	Counter Weights
Total site preparation and installation cost	Approx. \$10,000 to \$15,000	Approx. \$700 to \$1,500	Approx. \$20,000
Operation			
Rod string weight capacity	Up to 45,000 lbs.	Up to 27,000 lbs.	Up to 30,500 lbs.
Stroke rate range	0 to 7 SPM	0 to 8 SPM	4 to 12 SPM
Stroke length	Up to 200" or 240" depending on model	Up to 80" or 120" depending on model	Up to 74", 86", 100", 120", or 144" depending on model
Stuffing box	External	Internal and external options	External
Polished rod	External	Internal and external options	External
Operating and troubleshooting instructions	Manuals on site, manuals on onsite display, 24-hour phone support, 24-hour on call service	Manuals on site, manuals on onsite display, 24-hour phone support, 24-hour on call service	Manuals on site, business hours support and service

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Operational Downtime			
Downtime to change stroke length	0 minutes	0 minutes	120-240 minutes
Downtime to change stroke speed	0 minutes	0 minutes	120-240 minutes
Downtime to adjust counter weights	0 minutes	Not required	120-240 minutes
Downtime to tap well to get rid of gas lock	0 minutes	0 minutes	30-40 minutes
Control and Optimization			
Push-button stroke speed adjustments	Yes	Yes	Yes if AC prime mover with VFD package and automation controller for approx. \$8000 excluding load cell. No if gas prime mover.
Push-button stroke length adjustments	Yes	Yes	Downtime required for manual adjustments.
Push-button adjustable stroke ratio (upstroke time to downstroke time ratio)	Yes	Yes	Yes if AC prime mover with VFD package and automation controller for approx. \$8000 excluding load cell. No if gas prime mover.
On/off pump off control	Yes, including full stroke control, automation, alarms, surface card, production estimates, etc.	Yes, including full stroke control, automation, alarms, surface card, production estimates, etc.	Approx. \$3500 for an "on/off" pump off controller
Remote control	Yes, available on iPad, Apple or Android device, and computer	Yes, available on iPad, Apple or Android device, and computer	Requires automation, communication and load cell for approx. \$16,000 and supporting infrastructure (HMI, host, polling engine, etc.)
Real-time surface and downhole card generation	Onsite (1 hour via delay remote access)	Onsite (1 hour via delay remote access)	
Downtime alarms	Text, email, and hosted control center	Text, email, and hosted control center	
Daily production updates	Y day estimates	Y day estimates	
24 hour monitoring	Yes	Yes	Requires automation with communications network and contract with third party to provide the service
Manual or automatic restart by Control Center	Yes	Yes	Requires automation with communications network and contract with third party to provide the service
Options			
Stroke more than one well with one motor	No	Yes, Tandem and Quad skid options	No
Rental option	Yes	Yes	Yes
Buy out option	Yes	Yes	Yes
Monthly scheduled maintenance service option	Yes	Yes	Yes