

EVVAC 5000

A simple, economical answer to the speed control needs of pump-jacking steam stimulated heavy oil with conventional pumping units.

The EVVAC (Electronic Variable Viscosity Automatic Controller) provides a unique combination of simplicity and precision speed control for beam pumping systems. Two components, the drive unit and the control package, have been specifically designed to drive a pumping unit for optimum performance under varying well conditions. Conditions encountered in pumping:

- *Heavy Oil (Rod Float)*
- *Deviated or Horizontal Wells (Rod Float / Rod Sticking)*
- *Deep Wells (Rod Stacking)*



EVVAC 5000

We understand the need to maximize oil production while keeping operating cost at a minimum.

We understand the importance of keeping on top of consistently changing well conditions.

The EVVAC 5000 gives the operator a pumper who is always on the job.

- *Reduced equipment stress*
- *Reduced peak amps*
- *Motor started under no load*
- *Sheave changing eliminated*
- *Maintains constant fluid level*

**Microtex
Electronics, Inc.**



2929 N. Central Expressway
Suite 250
Richardson, Texas 75080
Phone: 972.479.1011
Fax: 972.479.1015
E-mail: sales@microtexelectronics.com



**Microtex Electronics,
Inc.**

- *Precision control*
- *Efficient operation*
- *Wireless convenience*



*The **AUTOMATIC** answer to
Heavy Oil Production
Problems*

www.microtexelectronics.com

EVVAC 5000 ***Controller***

The patented EVVAC 5000 microprocessor based controller monitors the polished rod load and beam position to make appropriate speed adjustments within a stroke to optimize production.

The downstroke speed will be continuously adjusted to allow the polished rod to fall as fast as possible without separation between the carrier bar and polished rod clamp.

As the pumping unit starts the upstroke the drive will accelerate to maximum speed without overloading the prime mover. This cycle will repeat and the downstroke speed will be continuously adjusted to allow the polished rod to fall as fast as possible as well conditions change.

This method maximizes production and component life, and eliminates damage to equipment due to impact loading

Controller has many built-in options, like fluid level, tank pressure, reprogramming, satellite automation, wireless programming, and real-time well statistics.



EVVAC 5000 ***Variable Speed Drive***

The patented EVVAC 5000 Variable Speed Drive is comprised of three basic components. A TEFC motor, a patented brushless magnetically coupled drive, and a jack-shaft for mounting of the output pulley.

The magnetically coupled variable speed drive is comprised of two basic components:

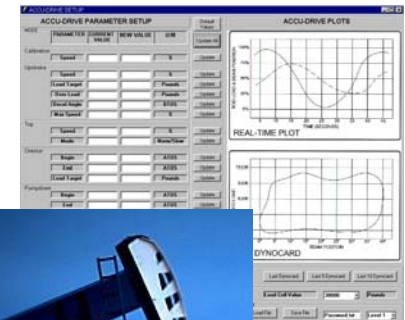
- 1. An input rotor/coil member that mounts directly onto the shaft of the motor;*
- 2. An output armature/pulley portion that is free to rotate without any mechanical connection other than the supporting bearings. A fixed air gap is maintained between the two elements.*

By varying a low-current pwm signal to the magnetically coupled drive, the strength of the magnetic field is changed, resulting in precise speed control of the driven load.

EVVAC 5000 ***Wireless Interface***

The patented EVVAC 5000 Wireless interface provides a cost effective solution for monitor and control of the system from virtually anywhere in the world—10 feet from the unit or 5,000 miles from the unit—distance from the unit is irrelevant. TRUE oilfield automation reduces labor and equipment costs. Unit pays for itself!

The Windows based setup screen allows for parameter changes on the fly with real-time feedback.



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