



# KD-2150 Kombi-Drive

## Sensorless Closed-Loop Vector VFD



Indoor Unit



Outdoor Unit

The GrenCo Kombi-Drive is a variable frequency drive for controlling the motor on electrical wellhead drives. Designed specifically for PCP artificial lift applications, the Kombi-Drive combines high-level functionality and accuracy with ease-of-use for superior field performance.

In-house developed software makes Kombi-Drive convenient to navigate, program and operate. Advanced ASCL technology provides motor control rivaling that of a closed-loop system without the cost or hassle of external sensors. Standard features include an exterior GFI protected receptacle, shutdown bypass and vibrant color display, where users can program the unit or view an interactive graphical history of rod speed, torque and motor current.

### Advantages

- Vibrant user-friendly touch screen display for easy programming
- All information displayed in easy to understand terms; no formulas or calculations required
- Password protection for security of parameters
- Exclusive braking software to reduce downtime caused by backspin

## Features

- Interactive graphical display and downloadable data logging
  - » Time and date
  - » Rod speed and torque
  - » Ambient temperature
  - » VFD Heatsink temperature
  - » Motor current
  - » Parameter changes
- Dual-stage torque protection: operating and hard limits
- Modbus RTU ready via RS 485 or Ethernet for SCADA integration
- Built in web server for remote monitoring, control, and history download (additional hardware required)
- Programmable analog and relay outputs
- Automatic or manual error reset with adjustable restart delay
- Pressure shutdown bypass allows safety checks to be done without shutting down the system
- Input for pressure monitoring along with high and low pressure shutdown (optional)
- Top-mounted multicolor status light
- GFI protected outlet with programmable control for heat trace, pumps, etc
- MCC models also available for compact and basic installation (NEMA 1)

## Specifications

Power rating	40HP	50HP	60HP	75HP	100HP	
<b>Input Power</b>	<b>Voltage</b> 305- 500VAC $\pm$ 0% (460V Nominal voltage)					
	<b>Rated current</b>	67A	72A	85A	105A	137A
	<b>Frequency</b>	50/60 Hz $\pm$ 2% (60Hz Nominal frequency)				
	<b>Phase</b>	3 Phase or single phase (Derated 50%)				
<b>Output Power</b>	<b>Voltage</b> 0- Max input voltage					
	<b>Frequency</b> 0-400 Hz					
	<b>Rated current</b>	52A	65A	77A	96A	124A
<b>Overload current rating</b>	170% of rated current for 30 seconds					
<b>Protection</b>	Fused disconnect and surge arrestor					
<b>Motor control</b>	Sensorless closed- loop or V/Hz					
<b>Line reactor</b>	3% Impedence					
<b>Cooling method</b>	Forced air					
<b>Enclosure</b>	NEMA 3R Power-coated enclosure					
<b>Approvals</b>	CSA					

\*Please consult your GrenCo representative before exceeding published values.

## Support

Our experts can assist with all of your operating and maintenance requirements. Visit [www.geoilandgas.com/lufkin](http://www.geoilandgas.com/lufkin) to locate a service technician near you.



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