

# DVS DEVAIR VARIABLE SPEED

## SAVING ENERGY REDUCING OPERATING COSTS

### AIR COMPRESSORS WITH VARIABLE SPEED DRIVE

FOR APPLICATIONS REQUIRING MORE EFFICIENT OPERATION TO SAVE ENERGY DEVAIR OFFERS FULL LINE OF VARIABLE SPEED DRIVE SCREW COMPRESSORS FROM 20 TO 50 HP.

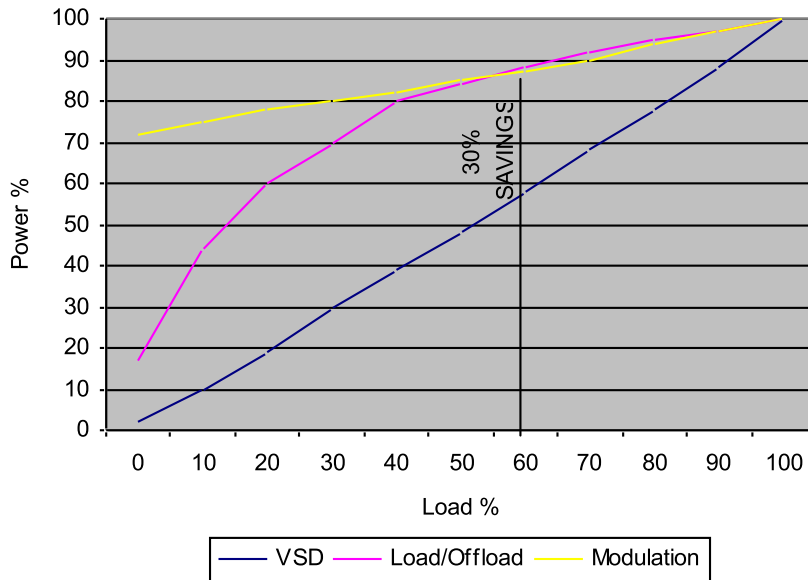
#### FEATURES AND BENEFITS OF VARIABLE SPEED DRIVES:

- The inverter on variable speed drive is capable of adjusting the compressor speed to correspond with the air requirements at a given time.
- Variable speed drive system is more effective when air demand is fluctuating significantly, and when compressor operates at less than 70% of full capacity. DVS will result in energy savings and extend compressor life.
- During the startup motor will run at its lowest ramp up time in order to eliminate any current draw spikes.
- Devair variable speed drive compressors are capable of running at full capacity to match the high demand time also slow down to lowest capacity depending on the application, sizing and air receiver volume.
- Intergrated inverters on Devair units are equipped with load reactors on 460 volt and load/line reactors on 575 volt systems. This prevents the drive from noisiness tripping due to the unbalanced power supply.
- With Devair variable speed drive system compressor will maintain optimum pressure within one PSI and this allows setting the operating pressure 20% lower compared to load/off load systems. Reduction in operating pressure results in significant energy saving.
- Devair variable speed drive unit is equipped with CSC200 control which has a capability of communicating with two other compressors with similar controller by adding the optional program.
- SC200 control used on variable speed drive units also has remote start/stop, fault signals and power failure restart capabilities.



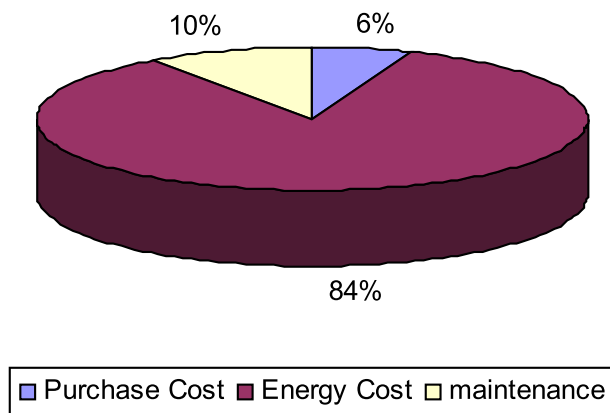
**AIR COMPRESSORS YOU KNOW YOU CAN TRUST**

### POWER VS. LOAD RATIO



- The above chart clearly demonstrates the performance comparison between VSD, Load/Offload and Modulation system at various power ratios. In the middle range the VSD compressor had significant energy saving (30%) compare to other systems under specific applications.

### COST OF COMPRESSED AIR OVER 5 YEARS



- Because of energy savings derived from the use of variable speed drive compressors Federal and Provincial governments offer various energy rebate programs, these rebates can be utilized to offset the cost of VSD units. Depending on the size of the compressor and application the payback period on VFD system could be very short.

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