

# **Sullivan** **Palatek®**

*Variable Frequency Drive Rotary Screw Air Compressors*

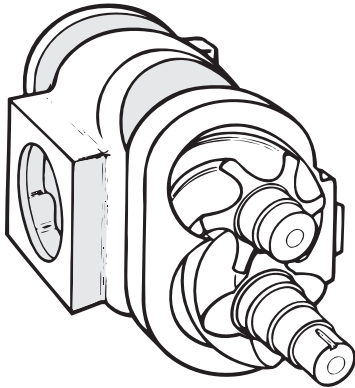
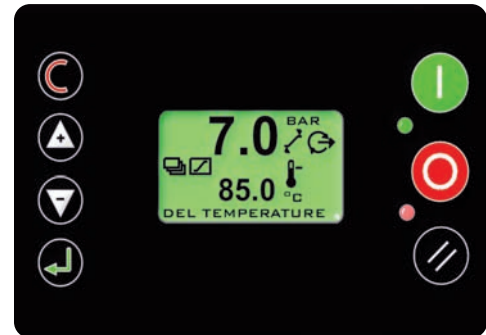


*Proven  
performance with  
exceptional  
design*

# Sullivan Palatek®

## Micro Processor

Easily read output, includes English, German and Spanish languages.



*The advantages of owning a Sullivan-Palatek Rotary Screw Air Compressor.*

## Features of the Variable Frequency Drive

*More than a frequency inverter, controls motor/drive systems.*

- *Wide power range for 200V, 230V, 460V and 575V.*
- *Pressure transducer motor speed control.*
  
- **Factory Settings:**
  - *Programmable digital outputs.*
  - *Digital inputs.*
  - *Programmable outputs: 2 relays, 4 transistors.*
  - *8 programmable parameter sets with S-curves, power off function, PID process controller, electronic motor protection, internal timer.*
- *Output frequencies up to 160 Hz with output voltage stabilization; switching frequencies up to 16 kHz; output phase monitoring.*
- *DC bus circuit connection, motor thermal sensor connection.*

## Variable Frequency Controller

Continuous capacity regulation from 20-110% quick ramp-up and down speed.



**TYPICAL DRIVE  
OPEN MACHINE**

## Electric Motor

Nema T-frame, C-face, ODP or TEFC, energy efficient inverter duty rated motor.



**Cooling System, Updraft Model**

Cooling system with Independent Variable Frequency Drive. Large side by side oil cooler and after cooler for easy cleaning.

**Note:**

15D-40D Inline Cooling,  
40UD-300UD Updraft Cooling.

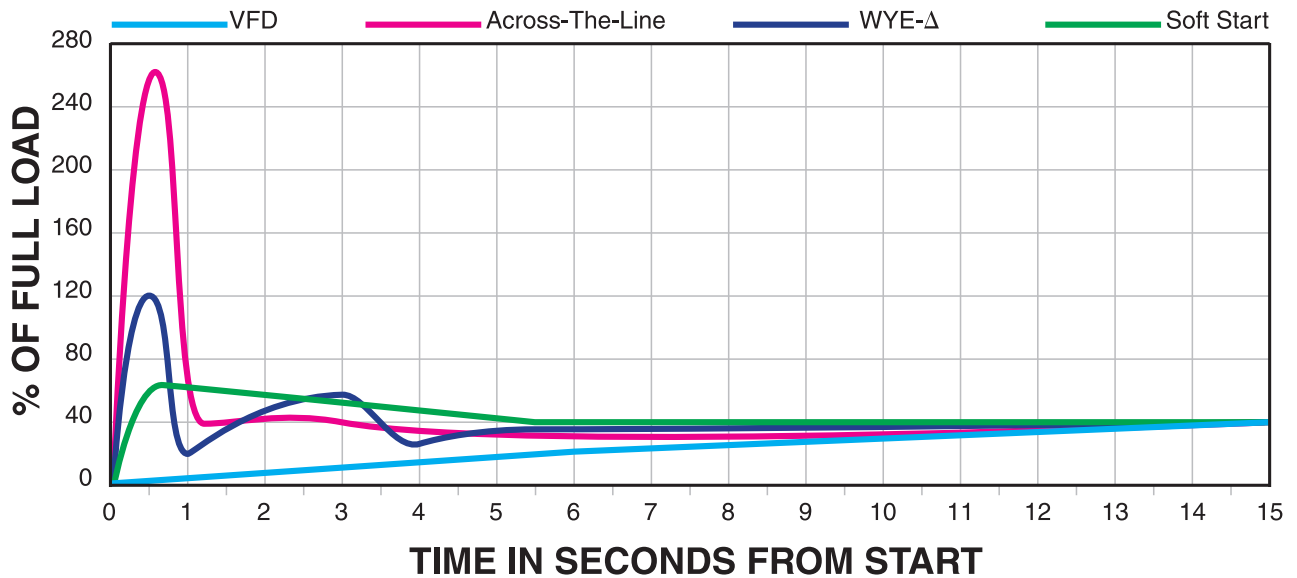
**Variable Frequency Drive**

100 H.P. Model Shown



**START UP IN-RUSH CURRENT**

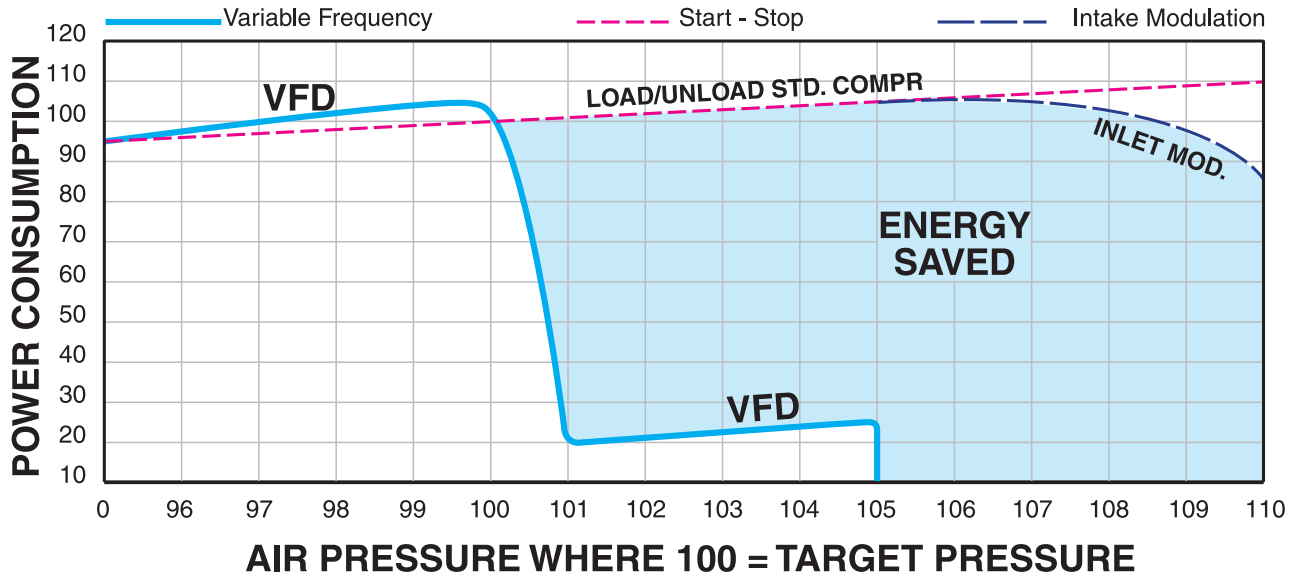
(with 15 second unloaded start timer)



# Efficiency

Modulation unloaded and power demand, savings unmatched.

## POWER CONSUMPTION



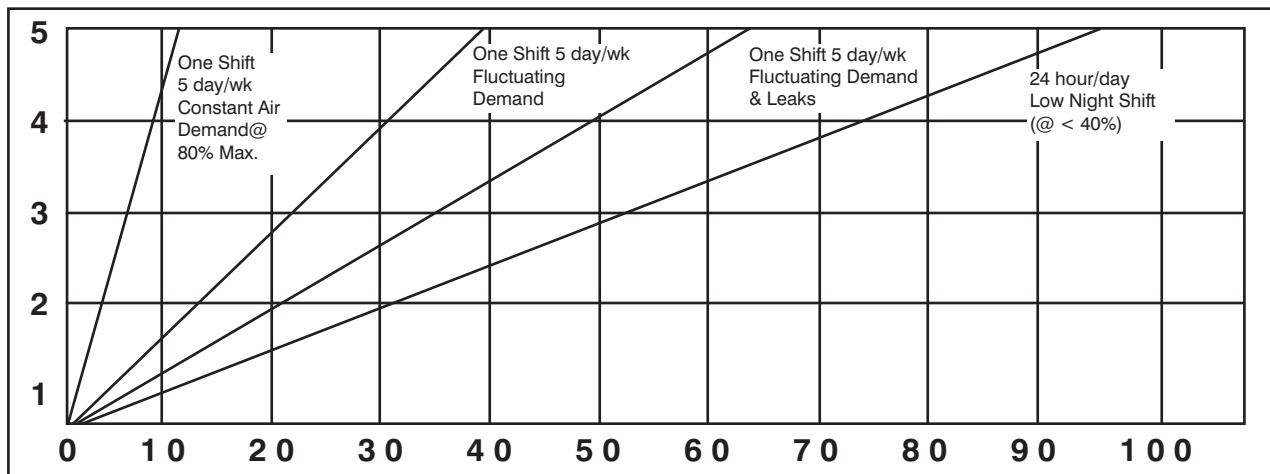
## Efficiency vs Delivered Air

This Efficiency Curve Chart shows how the **Variable Frequency Drive** operates more efficiently than other controls in providing air delivery. The VFD helps reduce energy bills. Operating at 70% capacity, the VFD consumes 25% less power than a standard compressor operating with on-off control and 20% less than a compressor with modulating control.

The Variable Frequency Drive has a soft start feature that maintains a low starting current. This reduces stress on the site power supply and also reduces motor wear. The VFD system complies with the Electro-Magnetic Compatibility standard and is UL/CUL listed. The VFD system is not limited to a fixed number of starts per hour.

YEARS  
IN  
SERVICE

## Cost Savings With Time In Use



PERCENT RELATIVE COST SAVINGS

Chart shows 24-hour operation with low night shift and high day shift consumption. Steady weekend consumption with leaks (64% of installations). Five day/week operation, erratic demand fluctuations (28% of installations).

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# 15-300 H.P. Variable Frequency Drive Packages

## Inline 15-40 H.P.

Model No.	H.P.	Capacity (CFM @ 100 PSI)			Dimensions L x W x H (in.) Enclosed (Open)	Compressed Air Outlet Connection	Weight (lbs.) (Open)
		100%	50%	25%			
15 VFD	15	63	31.5	15.7	78 X 41 X 43 (56 X 38 X 37)	NPT 1"	1400 (1100)
20 VFD	20	95.5	47.75	23.88	78 X 41 X 43 (56 X 38 X 37)	NPT 1"	1500 (1200)
25 VFD	25	120	60	30	78 X 41 X 43 (59 X 38 X 37)	NPT 1"	1600 (1300)
30 VFD	30	150	75	37.5	78 X 41 X 43 (59 X 38 X 37)	NPT 1"	1650 (1350)
40 VFD	40	177	88.5	44.25	78 X 41 X 43 (60 X 38 X 37)	NPT 1-1/4"	1700 (1400)

## Updraft 50-300 H.P.

50 VFD	50	247	123.5	61.75	79 X 34 X 49 (66 X 34 X 47)	NPT 1-1/4"	2000 (1700)	
60 VFD	60	305	152.5	76.25	79 X 34 X 49 (66 X 34 X 47)	NPT 1-1/4"	2100 (1800)	
75 VFD	75	365	182.5	91.25	80 X 45 X 65 (80 X 45 X 57)	NPT 1-1/2"	3200 (2900)	
100 VFD	100	E.25 E.75	445	222.5	111.25 (528 X 264 X 132)	80 X 45 X 65 (80 X 45 X 57)	NPT 2"	3550 (3175)
125 VFD	125	600	300	150	96 X 58 X 67 (96 X 58 X 66)	NPT 2"	5000 (4500)	
150 VFD	150	730	365	182.5	120 X 58 X 67 (120 X 58 X 66)	NPT 2"	5100 (5100)	
200 VFD	200	960	480	240	120 X 58 X 67 (120 X 58 X 66)	NPT 2"	5200 (4700)	
250 VFD	250	1130	565	282.5	120 X 58 X 67 (120 X 58 X 66)	NPT 2"	5350 (4850)	
300 VFD	300	1525	762.5	381	144 X 66 X 79 (144 X 66 X 78)	NPT 3"	7950 (7450)	

COMPLETE LINE OF COMPRESSED  
AIR DRYERS / FILTERS



30 H.P. With Tank



30 H.P. VFD

■ Refrigeration Dryers

- Cycling
- Non-cycling
- High-temperature

■ Regenerative Dryers

- Heatless
- Externally Heated
- Internally Heated
- Blower Purge

■ Deliquescent Dryers

- Single Tower

■ Filters

- Particulate
- Coalescer
- Activated Carbon
- Mist Eliminator



60 H.P.



50-100 H.P.



125 to 350 H.P.

Sold and Serviced By:

