15-300 H.P.



Variable Frequency Drive Rotary Screw Air Compressors



Proven performance with exceptional design



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.

Description, Specifications and Pictures represented in this brochure may vary from actual equipment purchased.



Variable Frequency Drive

100 H.P. Model Shown

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.





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.

^{VEARS} IN Cost Savings With Time In Use



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).



15-300 H.P. Variable Frequency Drive Packages

Inline 15-40 H.P.

Model No.	H.P.	Capacity (CFM @ 100 PSI) 100% 50% 25%	Dimensions L x W x H (in.) Enclosed (Open)	Compressed Air Outlet Connection	Weight (lbs.) (Open)
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)

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STANDARD PERFORMANCE MODELS





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