



**Texas
Compression
Services**



ISO CLASS : 0
PLUS SILICONE FREE
ISO 8573-1 (2010)

Introducing **Oil-Free Compressor Rental**

Industrial electric variable speed drive air compressor rentals capable of delivering 100% oil-free air at pressures up to 145psi with flow rates ranging from 365 – 820 ACFM

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Airend

- High output 2-stage airend assembly
- Coated rotors and housing
- Controlled by timing gears
- Pulsation damper/silencer

Cooling

- Two cooling radial fans
- Optimum motor cooling
- Ambient up to 113° F
- Closed cooling water circuit

Drive

- Premium efficient TEFC motors
- Superior reliability
- Direct drive positive alignment
- Two-stage moisture separator w/auto drains



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Gardner Denver		EnviroAire TVS160 - 145 psig						[Eng. Rev. 2]
		Technical Information Sheet						12/17/2014
		Variable Speed, Air Cooled, 60 Hz						Machine Version: 2
Performance Data		EnviroAire TVS160 - 145 psig						
Maximum working pressure	psig	145.0						
Minimum working pressure	psig	58.0						
Ambient temperature min / max	°F	36 / 104						
		min. speed	speed 1	speed 2	speed 3	speed 4	max. speed	
58 psig	FAD* (Male rotor speed - rpm)	cfm	383.06 (8000)	472.54 (9537)	562.02 (11079)	651.50 (12628)	740.99 (14182)	830.47 (15743)
	Total input power* (P spec. - kW 100 cfm)	kW	67.16 (17.5)	77.42 (16.4)	89.31 (15.9)	102.90 (15.8)	118.24 (16.0)	135.38 (16.3)
75 psig	FAD*	cfm	380.40 (8000)	470.03 (9537)	559.66 (11079)	649.30 (12628)	738.93 (14182)	828.56 (15743)
	Total input power*	kW	73.10 (19.2)	84.72 (18.0)	97.93 (17.5)	112.81 (17.4)	129.42 (17.5)	147.81 (17.8)
85 psig	FAD*	cfm	377.75 (8000)	467.54 (9537)	557.32 (11079)	647.10 (12628)	736.88 (14182)	826.66 (15743)
	Total input power*	kW	75.83 (20.1)	88.36 (18.9)	102.39 (18.4)	118.00 (18.2)	135.26 (18.4)	154.19 (18.7)
100 psig	FAD*	cfm	375.13 (8000)	465.06 (9537)	554.98 (11079)	644.91 (12628)	734.84 (14182)	824.76 (15743)
	Total input power*	kW	80.01 (21.3)	93.64 (20.1)	108.72 (19.6)	125.33 (19.4)	143.54 (19.5)	163.40 (19.8)
110 psig	FAD*	cfm	373.82 (8000)	463.82 (9537)	553.82 (11079)	643.82 (12628)	733.82 (14182)	823.82 (15743)
	Total input power*	kW	82.83 (22.2)	97.10 (20.9)	112.80 (20.4)	130.04 (20.2)	148.88 (20.3)	169.35 (20.6)
115psig	FAD*	cfm	372.52 (8000)	462.59 (9537)	552.66 (11079)	642.73 (12628)	732.80 (14182)	822.87 (15743)
	Total input power*	kW	84.05 (22.6)	98.67 (21.3)	114.69 (20.8)	132.21 (20.6)	151.32 (20.6)	172.04 (20.9)
125 psig	FAD*	cfm	370.79 (8000)	460.95 (9537)	551.11 (11079)	641.28 (12628)	731.44 (14182)	821.61 (15743)
	Total input power*	kW	86.85 (23.4)	102.01 (22.1)	118.54 (21.5)	136.55 (21.3)	156.11 (21.3)	177.25 (21.6)
130psig	FAD*	cfm	369.93 (8000)	460.14 (9537)	550.35 (11079)	640.56 (12628)	730.77 (14182)	820.98 (15743)
	Total input power*	kW	88.15 (23.8)	103.59 (22.5)	120.43 (21.9)	138.76 (21.7)	158.66 (21.7)	180.18 (21.9)
145 psig	FAD*	cfm	367.36 (8000)	457.71 (9537)	548.06 (11079)	638.40 (12628)	728.75 (14182)	819.10 (15743)
	Total input power*	kW	92.55 (25.2)	108.68 (23.7)	126.22 (23.0)	145.30 (22.8)	165.97 (22.8)	188.31 (23.0)
Total input power at no load, 1 fan switched off	kW	23.0						
Male rotor speed 1st stage	rpm	8000 to 15743						
Male rotor speed 2nd stage	rpm	10783 to 21219						
Approx. discharge temperature of air above ambient (at max. power)	°F	14.4						
Free field noise level ** at 70% load / at 100% load	dB(A)	77 / 79						
Electrical Data								
Nominal motor rating	hp (kW)	215 (160)						
Nominal voltage [tolerance] (Frequency)		460V [±10%]; (60Hz)						
Full load current max. at 460V	A	258						
Starting current (max. % of full load current)	%	100						
Standard drive motor detail		TEFC IP55, EISA 2007 (IE-3)						
Drive motor speed min./max.	rpm	1687 / 3320						
Fan motor rating	hp (kW)	2 x 5.3 (2 x 3.9) (IP-54)						
Oil pump motor rating	hp (kW)	0.9 (0.66) (IP-54)						
Water pump motor rating	hp (kW)	1.5 (1.1) (IP-54)						
Suggested cable size at 460V (cable type 167°F (75°C) / Copper)***		MCM 400 (Single supply)						
Suggested fuse rating @ 460V (slow-blow fuse, class J)	A	300						
Cooling Data								
Ventilating fan capacity	cfm	12325						
Heat rejected by ventilating fan (max. % of actual input power)	btum	10458						
Size of cooling air inlet aperture	in (mm)	47.6 x 38.4 (1210 x 975)						
Size of cooling air outlet aperture	in (mm)	62.1 x 54.7 (1578 x 1390)						
Approx. cooling air temperature above ambient (at max. power)	°F	52						
Max. allowable pressure drop in duct at ambient 95°F / 113°F	Pa	90 / 50						
Weights, Dimensions and Capacities Data								
Compressor water capacity (Water / Glycol mixture)	gal (l)	8 (30)						
Compressor oil capacity	gal (l)	6.4 (24)						
Compressed air delivery connection		Flange 3" ANSI B16.5						
Condensate Drains		5 x 1/2 NPT						