

## PHYSICAL DATA

COMPRESSOR MODEL		P43	P44	P63	P64	P83	P84
No. of Cylinders		4		6		8	
Nom. Displacement CFM (l/s)	60 Hz	143 (67.5)	170 (80.2)	201 (94.9)	242 (114.2)	278 (131.2)	331 (156.2)
	50 Hz	119 (56.2)	140 (66.1)	168 (79.3)	199 (93.9)	232 (109.5)	273 (128.9)
Bore (Inches) (mm)		3-3/4 (95.3)		3-3/4 (95.3)		3-3/4 (95.3)	
Stroke (Inches) (mm)		3.2 (81.3)	3.8 (96.5)	3.0 (76.2)	3.6 (91.4)	3.1 (78.7)	3.7 (94.0)
Suction Conn. (ODF)		3-1/8		3-1/8		3-5/8	
Discharge Conn. (ODF)		2-5/8		2-5/8		3-1/8	
Oil* Charge (Gals.) (liters)		2.0 (7.6)		2.0 (7.6)		2.0 (7.6)	
Weight (Lbs.) (kg.)		1500 (680)	1560 (708)	1820 (826)	1860 (844)	2040 (926)	2140 (971)

- \* YORK C for R-22 Air Conditioning Applications. 5 gallon can 011-00312-000 (Mineral)
- \* YORK H for R-134a and R-407C Air Conditioning Applications. 5 gallon can 011-00549-000 (POE)
- \* YORK E for R-22 in high ambient environment (115°F and above). 5 gallon can 011-00582-000 (Mineral)

## LIMITATIONS

### VOLTAGE LIMITATIONS

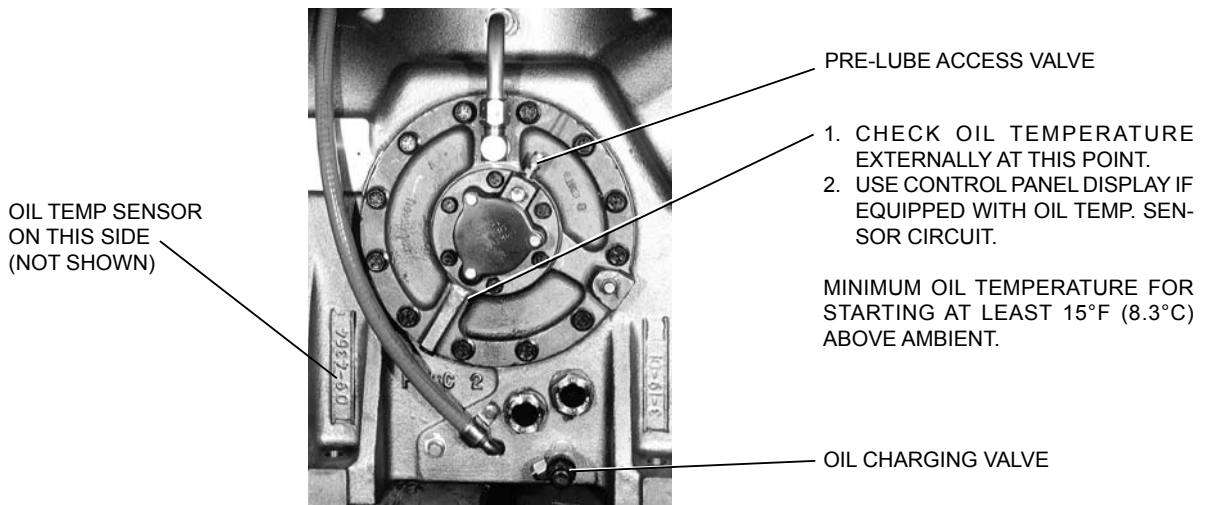
The following voltage limitations are absolute and operation beyond these limits may cause serious damage to the compressor or motor.

NAMEPLATE VOLTAGE	MINIMUM VOLTAGE	MAXIMUM VOLTAGE
200-3-60	180	220
230-3-60	207	253
380-3-60	355	415
460-3-60	414	506
575-3-60	517	633
190-3-50	171	208
220-3-50	198	242
346-3-50	311	381
380/415-3-50	342	440
440-3-50	396	484
500-3-50	450	550

### COMPRESSOR OPERATING LIMITATIONS

Maximum Compression Ratio	9.5:1	
Maximum Operating Differential (PSI) (Bar)	325	(22.8)
Maximum Discharge Temp. (°F) (°C)	275	(135)
Superheat (Nominal) (At Compressor) (°F) (°C)	12 - 18	(6.7 - 10)
Min. Oil Pressure (Above Suction Pressure) (PSIG) (Bar)	25	(1.7)
Maximum Oil Temperature <sup>1</sup> (°F) (°C)	160	(71.1)
Min. Oil Temp (At Start Up) (°F) (°C) (Above Ambient)	15	(8.3)
Maximum Sat. Discharge Temp. <sup>2</sup> (°F) (°C)	155	(68.3)
Maximum Sat. Suction Temp. <sup>2</sup> (°F) (°C)	70	(21.1)
Maximum Ambient (°F) (°C)	130	(54.5)
Minimum Ambient (°F) (°C)	0	(-17.8)

- <sup>1</sup> Measured externally on pump suction boss as shown in Fig. 11 or may be a control panel feature on newer units.
- <sup>2</sup> Motor selection and operating conditions may limit maximum saturated discharge temperature to lower levels and saturated suction temperature to higher levels.



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FIG. 11 – CHECKING OIL TEMPERATURE