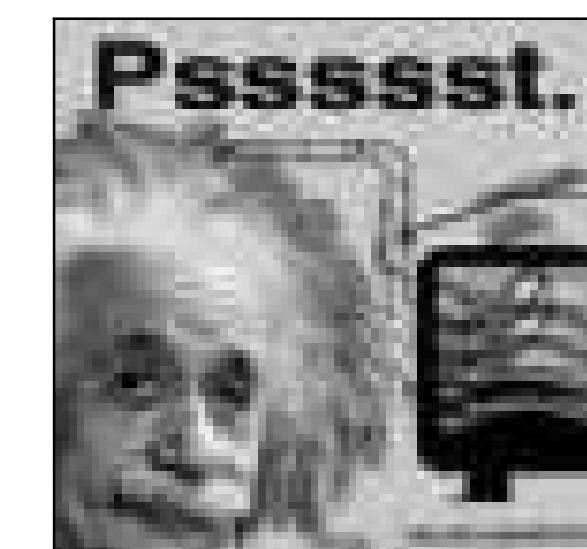
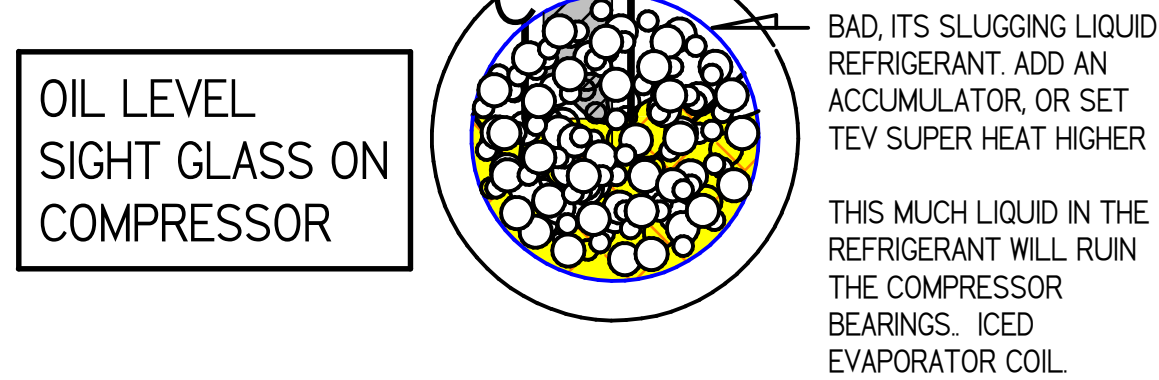
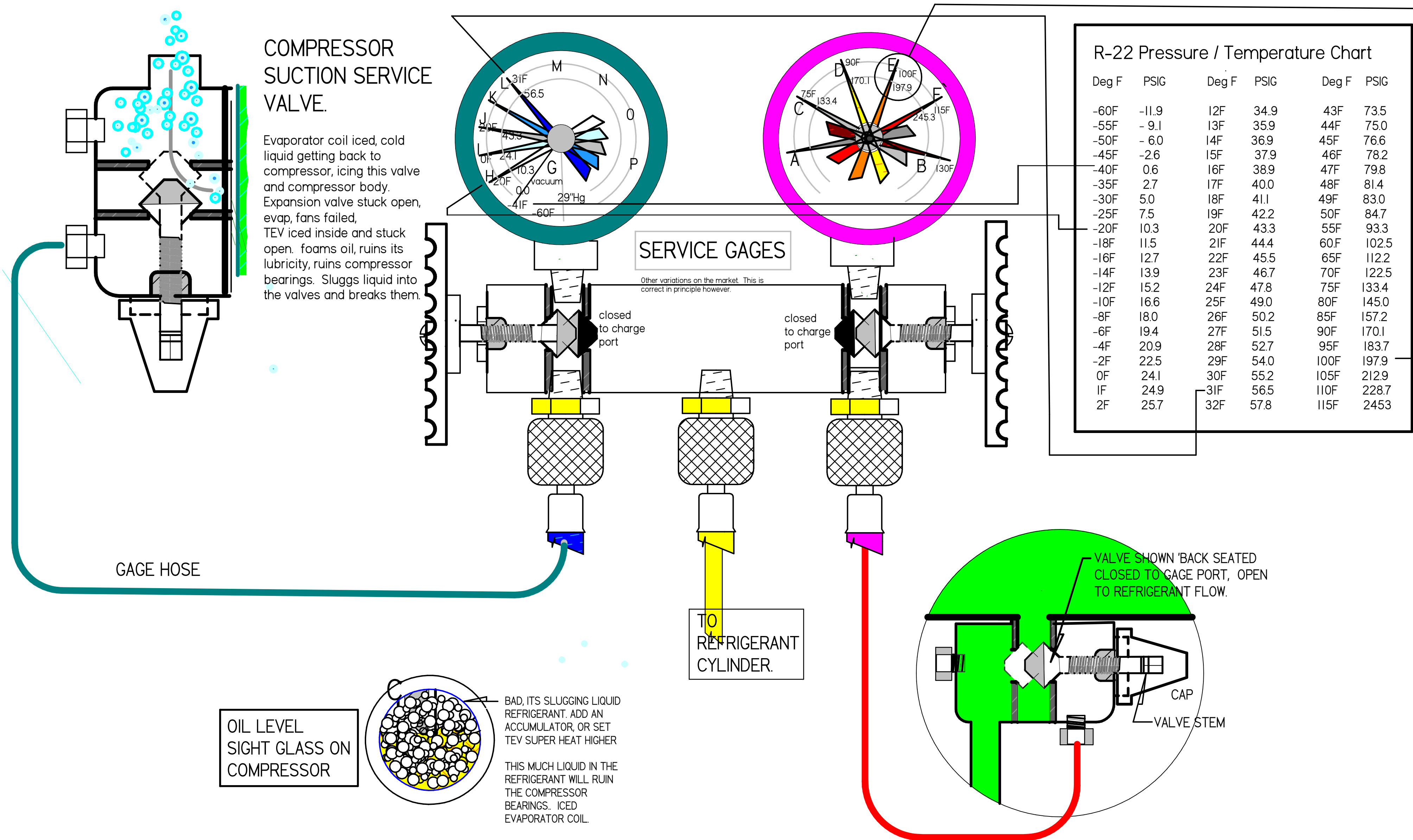


REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



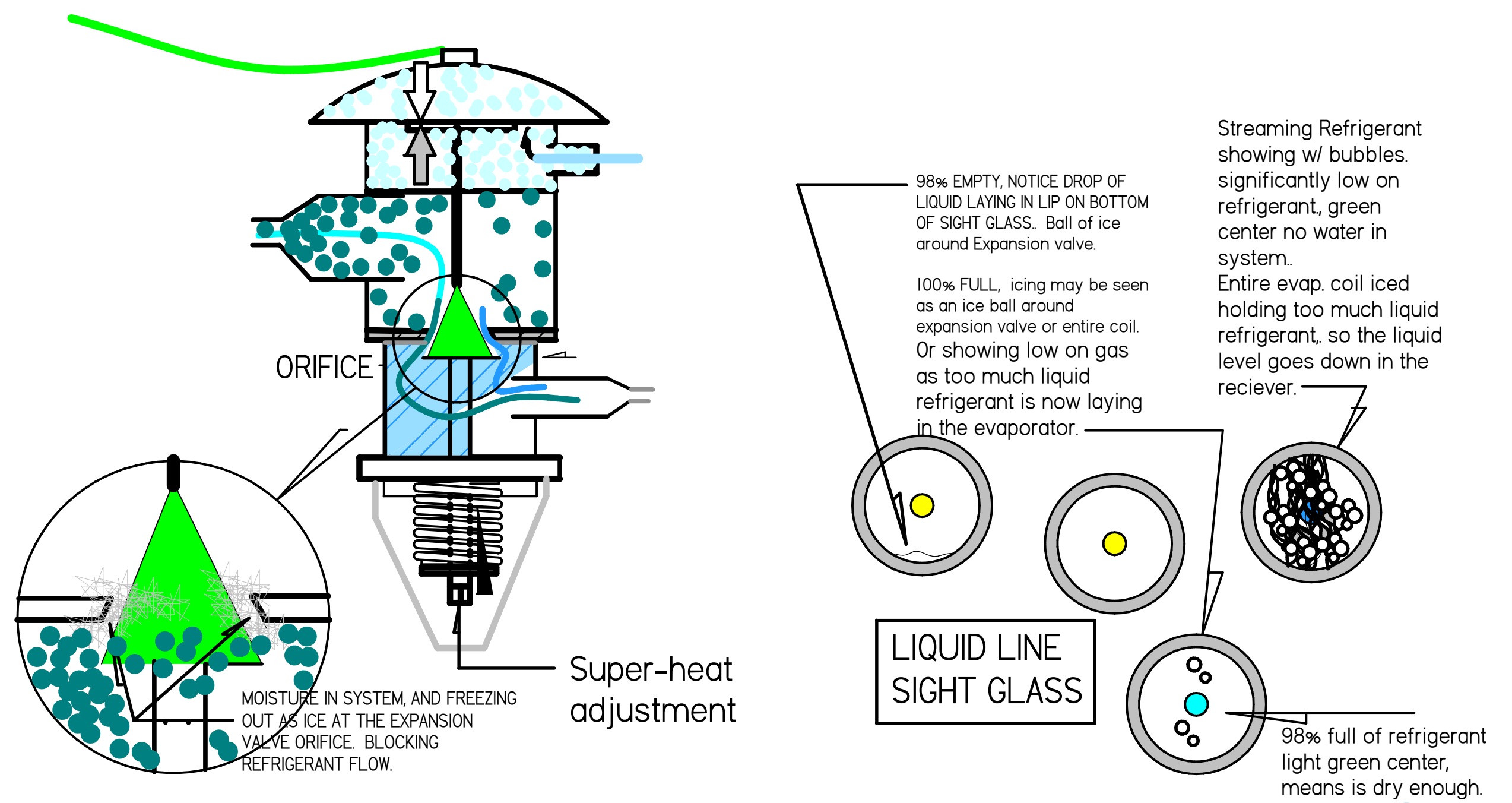
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- GAGE READING LEGEND, VARIOUS SYSTEM CONDITIONS, TYPICAL ONLY.**
- A. With compressor OFF, system is almost out of refrigerant.
 - B. With compressor ON, its 110+F outside or condenser is dirty. etc.
 - C. System out of gas, or restricted refr. flow, or below 50F outside
 - D. Normal for outside temps in the 80F range.
 - E. Normal for 85-90F day.
 - F. Normal for a hot day 100-105F.
 - G. Vacuum range, don't run a system below 0 psig.
 - H. Typical frozen storage range if system is working OK.
 - I. - J. Ice machine range, 35F box with coil undersized.
 - K. AC range if its low on gas or filter is dirty, high for a 35F box.
 - L. Air conditioning range if its working right.
 - M, N, O. P. High suction pressure, very warm air over evap coils or bad valves in the compressor, typically.



"Piston to head" clearance is the key factor in compressor efficiency. regardless type of compressor, screw, roller, or any positive displacement machine. it becomes more critical as compression ratio increases with low suction pressure applications.

DISCLAIMER: Refrigerant pressures and temperatures vary system to system, and hour by hour, depending on inside and outside temperature and humidity conditions, system design, super heating and sub cooling issues. Temperatures shown are to provide a general idea only. See other tutorials, and published temperature and pressure charts for the refrigerant you are using. and engineering tables for pressure drops, etc.

	NAME	DATE	Solid Edge
DRAWN	phil scott	11/17/10	
CHECKED			
ENG APPR			
MGR APPR			TITLE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			SIZE DWG NO
			REV
			FILE NAME: PSN NOV Refrig Basic Sheet 4 TROUBLE SHOOT.dft
SCALE:			WEIGHT: SHEET 1 OF 1