

Brainerd Compressor Start Up Sheet

Date	of	Start	U	n
Date	UI.	Juan		μ

Contractor / Dealer Company Name and Address:

Owner / Customer Name and Address:

Recommended method of taking superheat: Strap a good electronic temperature probe to a clean suction line within twelve inches of the suction service valve. Replace the Armaflex and add two layers of one-inch fiberglass insulation (or equivalent) over the Armaflex, extending six inches in both directions from the temperature probe. Take suction pressure line temperature, and ambient temperature.

Ambient Temperature



Figure 1

Pre-Start Check

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ankcase Heater(s) Operating?
w Dryers/Filters Installed?
isture Indicator Dry?
oansion Valve Bulbs Tight?
aporator Coil Clean?
ntactor Replaced?
t Fuse Size:

Sub-Cooling Calculations



	New Model #:	
Address:	New Serial #:	
	Old Model #:	
	Old Serial #:	
<u> </u>	Acid Test Done? Yes No	
	Populto	
	Results	
	\frown	
	Qil Level (Not Operating)	
iperheat: Strap a good		
lean suction line within		
nch fiberglass insulation		
ending six inches in both	Oil Level After Operating Fully	
. Take suction pressure,	Loaded for 20 Min.	
nt temperature.		
rature		
85 90 95 100 105	Start-Up Temperatures	
	Ambient Outdoor Temperature	
	Evaporator Return Air/Water Temperature	
	Conditioned Air Temperature	
	Suction Line Temperature @ Compressor	
	Discharge Gas Temperature: (6" from Service Valve)	
	Crankcase Temperature (Below Oil Level)	
neck	Start-Up Pressures	
	Suction Pressure @ Compressor	
	Discharge Pressure	
	Net Oil Pressure (Suction Pressure - Oil Pump Pressure)	,
	Capacity Control Set Point	
	Capacity Control Differential	
laulationa	Superhast Calculations	
to Tomporature (SCT)	Superneat Calculations	
to remperature (SCT)	Suction Line Temperature @ Compressor	``
	Minus Expected Error: (See Figure 1)	,
	= System Superheat	
Calculate % of Voltage and	Current Imbalance	
	Example	
	Sum of Voltage Readings $(222 + 227 + 215) = 660$	34 24
	Average Voltage (664 \div 3) = 22	21

Maximum allowable Voltage Imbalance is 2% Maximum allowable Current Imbalance is 10%

Amps	Volts	
		Line 1
		Line 2
		Line 3

Sum of Volts $(L1 + L2 + L3) =$
Average Voltage (Sum ÷ 3) =
Voltage Difference (Average - Worst leg) =
% Imbalance (Difference ÷ Average x 100) =

% Imbalance (6 ÷ 221 x 100) =	2.71	
Calculate Current Imbalance in the same	e way as	
Voltage Imbalance.		

Average Voltage (664 ÷ 3) =

6

Voltage Difference (227 - 221) =

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