



**GLENDALE HEIGHTS**  
 500 Windy Point Drive  
 Glendale Heights, IL 60139  
 Phone: 630-534-4900  
 Fax: 630-534-4742

**CHICAGO**  
 2740 W. Grand Avenue  
 Chicago, IL 60612  
 Phone: 773-772-7400  
 Fax: 773-772-1077

**CRESTWOOD**  
 4621 W. 136st  
 Crestwood, IL 60445  
 Phone: 708-239-6200  
 Fax: 708-631-3417

www.nucomfortsupplyinc.com

**CHARGING BY SUPERHEAT (CAP TUBE/ORIFICE)  
 WHEN CHARGE NOT KNOWN**

AMBIENT CONDENSER INLET TEMPERATURE (DRY BULB)	RETURN AIR TEMPERATURE (DRY BULB)				
	65	70	75	80	85
100	5	5	5	5	5
95	5	5	5	5	5
90	5	5	7	12	18
85	5	5	10	17	20
80	5	5	12	21	26
75	5	10	17	25	29
70	5	14	20	28	32
65	13	19	26	32	35
60	17	25	30	33	37

AIR CONDITIONING SYSTEM TROUBLESHOOTING TIPS					
SYSTEM PROBLEM	INDICATORS				
	DISCHARGE PRESSURE	SUCTION PRESSURE	SUPERHEAT	SUBCOOLING	COMPRESSOR AMPS
Overcharge	High	High	Low	High	High
Undercharge	Low	Low	High	Low	Low
Liquid Restriction (Drier)	Low	Low	High	High	Low
Low Evaporator Airflow	Low	Low	Low	High	Low
Dirty Condenser	High	High	Low	Low	High
Low Outside Ambient Temperature	Low	Low	High	High	Low
Inefficient Compressor	Low	High	High	High	Low
TXV Feeler Bulb Charge Lost	Low	Low	High	High	Low
TXV Feeler Bulb Loose Mounted	High	High	Low	Low	High
Poorly Insulated Sensing Bulb	High	High	Low	Low	High