## 285BNH EVOLUTION<sup>®</sup> HEAT PUMP WITH PURON<sup>®</sup> REFRIGERANT 2 TO 4 TONS



## **Heating Check Chart**

(HIGF	FIELD OF						RESTRIC		RT)	REQUIRED LIQUID LINE TEMP				
UNIT	INDOOR DRY BULB	OU				•F DRY BU		JLB/WET BU			Required Subcooling Temperature (°F)			
		HIGH	00/01	00/11	40/00	00/20	20/10	10/0	0/-1	Valve 6 8 10 12	2 14	16		
018	60°	SUCT								251 78 76 74 7	2 70	68		
	70°	HIGH SUCT								259 80 78 76 7	4 72	70		
		HIGH								266 82 80 78 7 274 84 82 80 7	5 74 3 76	74		
	80°	SUCT								283 86 84 82 8	) 78	76		
024	60°	HIGH	350	325 111	299	279	259	243 54	227 43	291 88 86 84 8 299 90 88 86 8		78		
	70°	SUCT HIGH	129 393	367	93 341	79 316	64 291	275	259	308 92 90 88 8		82		
		SUCT	131	113	95	81	66	55	44	317 94 92 90 8		84		
	80°	HIGH	434	409	384	362	339	318	297	326 96 94 92 9 335 98 96 94 9	0 88 2 90	86		
		SUCT	135	116	96	82	67	56	45	345 100 98 96 9		90		
030	60°	HIGH SUCT	312 128	294 111	276 93	261 79	246 64	231 51	215 37	354 102 100 98 9	3 94	92		
	700	HIGH	350	333	315	299	282	266	250	364 104 102 100 9		94		
	70°	SUCT	130	112	94	80	65	52	39	374 106 104 102 10 384 108 106 104 10		96 98		
	80°	HIGH	392	375	358	339	319	306	292	395 110 108 106 10	4 102	100		
		SUCT	131	113	95	80	64	54	43	406 112 110 108 10	6 104	102		
036	60°	HIGH SUCT	318 127	299 111	280 94	263 79	245 63	231 52	217 40	416 114 112 110 10 427 116 114 112 11		104 106		
		HIGH	357	338	318	300	281	266	250			-		
	70° 80°	SUCT	129	112	95	80	64	53	41	439 118 116 114 11 450 120 118 116 11		108 110		
		HIGH	402	381	359	338	317	301	285	462 122 120 118 11	6 114	112		
	00	SUCT	131	114	96	81	65	53 220	41 ·	474 124 122 120 11	8 116	114		
040	60°	HIGH	334 124	311 105	287 86	268 72	248 58	44	192 29					
		SUCT HIGH	372	349	325	306	286	270	254					
042	70°	SUCT	126	106	86	73	60	49	38	PROCEDURE		~ ~		
	80°	HIGH	418	394	370	348	326	311	295	1. Only use sub cooling charging meth	od wher	1 OL		
	00	SUCT	130	111	92	76	60	50	40	ambient is greater than 70°F and les				
048	60°	HIGH	390	358	326	300	273	258	243	indoor temp is greater than 70°F an 80°F, and line set is less than 80 ft.	liess in	lan		
	70°	SUCT HIGH	123 437	105 404	87 371	72 343	57 314	<u>50</u> 290	43 265	<ol> <li>Operate unit a minimum of 15 minutes before checking the charge.</li> <li>Measure liquid service valve pressure by</li> </ol>				
		SUCT	124	107	89	74	59	52	44					
	80°	HIGH	485	451	417	388	359	330	301					
		SUCT	126	108	90	76	61	53	45	attaching an accurate gauge to the service port.				
060	60°	HIGH								4. Measure the liquid line temperature by attaching				
		SUCT								an accurate thermistor type or electronic				
	70°	HIGH SUCT								thermometer to the liquid line near th		or co		
		HIGH								5. Refer to unit rating plate for required subcooling				
	80°	SUCT								temperature.		-		
* If Pro	ssureGuard <sup>™</sup> kit is installed, it will not allow pressures to stabilize at these ons. To check the charge at these ambients operate in cooling or lower the indoor								6. Find the point where the required su		g			
conditio	ons. To che	eck the cl	narge at t	hese am	bients ope	erate in c	ooling or I	ower the	indoor	temperature intersects the measure	biupil נ			
dry bu	b temperatu	ire.								service valve pressure.				
				CA	υτι	DN				<ol> <li>To obtain the required subcooling te specific liquid line pressure, add refu</li> </ol>				
1. Com										liquid line temperature is higher that				
1. Com 2 Care	pressor dar fu <b>ll</b> v recove	nage mager nager mager mage	/ occur if ant from t	system i his unit h	s over-cha	arged. I disposa	l or when	servicino	1	When adding refrigerant, charge in				
	er vent refrig									using a flow restricting device into s	uction s	ervir		
				DED	ATIO	N				port. Recover refrigerant if tempera	ture is	01 110		
- ·										lower. Allow a tolerance of +/- 3°F.				
	ck system op													
	es whether a ature enterin													
chart, s	ystem refrig	erant char	ge may n	ot be corr	ect or othe	r system a	abnorma <b>l</b> it	ies may e	xist. Do					
	table to adj													
15 ft of	n total charg f line-set. Ac	e as indic fiust charr	ated on u	nit rating p	nate. Rati	ng plate c	narge is to	r systems	s with					
							e system h		ug.					
					weight.					338683-101 REV. C				

## Fig. 1 – 285BNH 024-048

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