## MODEL 225B PREFERRED<sup>™</sup> SERIES 15 HEAT PUMP WITH PURON<sup>®</sup> REFRIGERANT 1-1/2 TO 5 NOMINAL TONS



## **Heating Check Chart**

	FIELD OPE RESSURE								E PORT)	REQUIRED L	IQUID	LINE	TEMF	PERA	TURE	
	INDOOR DRY BULB	@ VAPOR VALVE, SUCTION PRESSURE @ SUCTION SERVICE PORT)           OUTDOOR TEMP. °F DRY BULB/WET BULB           60/57         50/47         40/38         30/28         20/18         10/9         0/-1							Liquid (PSIG) Pressure		Required Subcooling Temperature (°F)					
	60°	HIGH SUCT	302 107	292 100	281 93	264 80	246 66	234 56	221 45	at Service Valve	6					
018	70°	HIGH SUCT	350 114	336 105	321 95	301 81	281 67	268 56	254 45	251 259	78 80	76 78	74 76	72 74	70 72	68 70
	80°	HIGH SUCT	401 118	382 107	362 95	342 82	321 68	305 57	289 45	266	82	80	78	76	74	70 72 74
024	60°	HIGH	376	346	315	286	256	240	224	274	84 86	82 84	80 82	78 80	76 78	74
	70°	SUCT HIGH	128 421	114 386	99 350	84 321	68 291	55 275	42 259	291 299	88 90	86 88	84 86	82 84	80 82	78 80
		SUCT HIGH	133 468	116 428	99 387	84 360	69 333	56 316	43 298	308	92	90	88	86	84	82
	80°	SUCT	136	118	99	85	70	58	45	317 326	94 96	92 94	90 92	88 90	86 88	84 86
030 036	60°	HIGH SUCT	288 103	278 97	268 90	251 78	234 65	222 54	210 43	335 345	98 100	96 98	94 96	92 94	90 92	88 90
	70°	HIGH SUCT	<u>329</u> 109	317 101	304 93	287 80	270 67	257 55	244 43	354 364	102 104	100 102	98 100	96 98	94 96	92 94
	80°	HIGH SUCT	376	360	344	326	308	292	276	374	106	104	102	100	98	96
	60°	HIGH	114 292	104 284	94 275	81 260	67 244	56 233	45 221	384 395	108 110	106 108	104 106	102 104	100 102	98 100
		SUCT HIGH	<u>89</u> 340	85 331	80 322	71	62 284	52 269	41 254	406 416	112 114	110 112	108 110	106 108	104 106	102 104
	70°	SUCT HIGH	97	92	87	77	66	54	42	427	116	114	112	110	108	106
	80°	SUCT	<u>393</u> 104	382 99	370 93	347 80	323 66	306 55	289 43	439 450	118 120	116 118	114 116	112 114	110 112	108 110
042	60°	HIGH SUCT	<u>338</u> 116	315 103	292 90	270 76	248 61	233 49	218 37	462	122 124	120 122	118 120	116 118	114 116	112 114
	70°	HIGH	383	357	331	306	280	266	251							
	80°	SUCT HIGH	<u>120</u> 431	106 401	92 370	77 344	62 318	50 301	38 284		PROC			JING		
048		SUCT HIGH	124 334	109 310	93 285	78 265	62 244	51 232	39 219	1. Only use sub	cooling	g char	ging i	metho	d wh	en
	60°	SUCT	114	100	85	72	59	49	38	OD ambient	is grea	ter tha	an 70'	°F an	d less	the
	70°	HIGH SUCT	381 119	353 104	325 88	303 74	281 60	267 50	252 39	100°F, indoor temp is greater than 70°F and less than 80°F, and line set is less than 80 ft.						
	80°	HIGH SUCT	424 122	394 106	364 90	343 76	321 61	305 51	288 40	2. Operate unit	a minir	num d	of 15			
060	60°	HIGH	348	322	295	272	249	235	220	before check						
		SUCT HIGH	119 385	104 359	89 333	75 310	60 287	49 270	38 252	3. Measure liquate attaching an						e
	70°	SUCT	121 431	106 400	90 369	76 348	61 326	50 308	38 290	port.	aooara	to gu	ugo it		001110	0
	80°	HIGH SUCT	124	108	92	77	62	51	40	4. Measure the						
* If PressureGuard <sup>™</sup> kit is installed, it will not allow pressures to stabilize at these conditions. To check the charge at these ambients operate in cooling									attaching an accurate thermistor type or electronic thermometer to the liquid line near							
these or lowe	conditions	s. To ch oor dry b	eck the bulb tem	charge perature	at these e.	ambien	its opera	ate in coo	bling	the outdoor coil.						
										5. Refer to unit rating plate for required subcooling temperature.						
1. Compressor damage may occur if system is over-charged.										6. Find the poir			requir	ed su	hcool	lina
<ol> <li>Carefully recover refrigerant from this unit before final disposal or when servicing.</li> </ol>									temperature intersects the measured liquid							
	/icing. er vent re	frigeran	t to atm	osphere	Use a	pproved	recover	y equipn	nent.	service valve						
			OF	PER		)N				7. To obtain the at specific lie	require	ed sul	0COOli Isure	ng te add r	mpera	ature
To chec	k system	operatior					use the a	appropriat	te table.	if liquid line t						/ and
Table in	idicates w	hether a	correct r	elationsh	ip exists	betwee	n system	operatin	g	indicated W						
	e and air t ature do n									liquid form u suction servi						
other sy	/stem abn	ormalitie	s may ex	kist. Do i	not use t	able to a	djust ref	rigerant c		temperature						
vvnen c indicate	harging is d on unit i	necessa rating pla	iry during ite. Rati	g neating ng plate	season	, weigh i s for svsl	n total ch tems with	narge as n 15 ft. of	line-	of +/- 3°F.						
set. Ad	just charg	e 0.6 oz	of refrige	erant per	foot of 3	3/8" liquic	d connec	ting tubin system	g.							
								J				and DB (d) i				

Fig. 1 – 225B 1-1/2 - 5 Tons

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