

MODEL 226A
PREFERRED™ SERIES 2-STAGE HEAT PUMP
WITH PURON® REFRIGERANT
2 TO 5 NOMINAL TONS



Heating Check Chart

HEAT PUMP CHARGING INSTRUCTIONS																																																			
For use with units using R-410A refrigerant																																																			
FIELD OPERATING PRESSURE CHARGING TABLE FIXED RESTRICTOR (HIGH PRESSURE @ VAPOR VALVE, SUCTION PRESSURE @ SUCTION SERVICE PORT)										REQUIRED LIQUID LINE TEMPERATURE																																									
UNIT	INDOOR DRY BULB	OUTDOOR TEMP. °F DRY BULB/WET BULB								Liquid (PSIG) Pressure at Service Valve	Required Subcooling Temperature (°F)																																								
			60/56	50/47	40/38	30/28	20/18	10/9	0/-1		6	8	10	12	14	16																																			
024	60°	HIGH	408	363	319	292	265	247	229	251	78	76	74	72	70	68																																			
											259	80	78	76	74	72	70																																		
		SUCT	139	120	101	86	70	57	44	266	82	80	78	76	74	72	74																																		
	70°	HIGH	447	400	353	326	300	281	261	283	84	82	80	78	76	74																																			
											291	86	84	82	80	78	76																																		
		SUCT	141	121	101	86	71	58	46	299	88	86	84	82	80	78	74																																		
80°	HIGH	485	437	389	363	337	317	297	308	90	88	86	84	82	80	76																																			
										317	92	90	88	86	84	82																																			
	SUCT	142	122	102	87	71	59	46	326	94	92	90	88	86	84	86																																			
036	60°	HIGH	352	331	310	286	262	246	230	335	96	94	92	90	88	86																																			
											345	98	96	94	92	90	88																																		
		SUCT	113	102	91	78	66	55	43	354	100	98	96	94	92	90	88																																		
	70°	HIGH	400	377	354	325	296	280	264	364	102	100	98	96	94	92																																			
											374	104	102	100	98	96	94																																		
		SUCT	118	107	95	81	67	56	45	384	106	104	102	100	98	96	96																																		
80°	HIGH	454	424	395	365	335	318	301	406	108	106	104	102	100	98	96																																			
										416	110	108	106	104	102	100																																			
	SUCT	124	110	97	83	68	57	46	427	112	110	108	106	104	102	100																																			
048	60°	HIGH	397	363	330	299	268	252	237	439	118	116	114	112	110	108																																			
											450	120	118	116	114	112	110																																		
		SUCT	121	106	91	77	63	52	42	462	122	120	118	116	114	112	110																																		
	70°	HIGH	445	403	361	333	305	288	271	474	124	122	120	118	116	114	112																																		
		SUCT	124	107	90	77	65	54	43																																										
80°	HIGH	488	443	397	370	343	324	306																																											
	SUCT	128	108	89	77	65	54	43																																											
060	60°	HIGH	368	343	318	289	259	247	234																																										
		SUCT	114	102	91	75	58	48	37																																										
	70°	HIGH	412	386	359	330	301	284	268																																										
		SUCT	118	106	94	78	62	50	38																																										
80°	HIGH	463	431	399	368	337	321	306																																											
	SUCT	123	109	95	78	61	50	39																																											
<div><div><div>⚠</div><div>CAUTION</div></div><div><div>1. Compressor damage may occur if system is over-charged.</div><div>2. Carefully recover refrigerant from this unit before final disposal or when servicing.</div><div>3. Never vent refrigerant to atmosphere. Use approved recovery equipment.</div><div>4. Wear safety glasses and gloves when handling refrigerant.</div></div></div> <tr><td colspan="13"><div><div><div>OPERATION</div></div><div><div>To check system operation during Heating or Cooling cycle use the appropriate table. Table indicates whether a correct relationship exists between system operating pressure and air temperature entering indoor and outdoor units. If pressure and temperature do not match on chart, system refrigerant charge may not be correct or other system abnormalities may exist. Do not use table to adjust refrigerant charge. When charging is necessary during heating season, weigh in total charge as indicated on unit rating plate. Rating plate charge is for systems with 15 ft. of line-set. Adjust charge 0.6 oz of refrigerant per foot of 3/8" liquid connecting tubing. Remove any refrigerant remaining in system before recharging if the system has lost complete charge, evacuate and recharge by weight.</div></div></div></td></tr> <tr><td colspan="13"><div><div><div>COOLING ONLY CHARGING PROCEDURE</div></div><div><div><div>1. Only use subcooling charging method when OD ambient is greater than 70°F and less than 100°F, indoor temp is greater than 70°F and less than 80°F, and line set is less than 80 ft.</div><div>2. Operate unit a minimum of 15 minutes before checking the charge.</div><div>3. Measure liquid service valve pressure by attaching an accurate gauge to the service port.</div><div>4. Measure the liquid line temperature by attaching an accurate thermistor type or electronic thermometer to the liquid line near the outdoor coil.</div><div>5. Refer to unit rating plate for required subcooling temperature.</div><div>6. Find the point where the required subcooling temperature intersects the measured liquid service valve pressure.</div><div>7. To obtain the required subcooling temperature at specific liquid line pressure, add refrigerant if liquid line temperature is higher than indicated. When adding refrigerant, charge in liquid form using a flow restricting device into suction service port. Recover refrigerant if temperature is lower. Allow a tolerance of +/- 3°F.</div></div></div></div></td></tr> <tr><td colspan="13"><div><div><div>QR CODE</div></div><div><div>338942-101 REV. A</div></div></div></td></tr>													<div><div><div>OPERATION</div></div><div><div>To check system operation during Heating or Cooling cycle use the appropriate table. Table indicates whether a correct relationship exists between system operating pressure and air temperature entering indoor and outdoor units. If pressure and temperature do not match on chart, system refrigerant charge may not be correct or other system abnormalities may exist. Do not use table to adjust refrigerant charge. When charging is necessary during heating season, weigh in total charge as indicated on unit rating plate. Rating plate charge is for systems with 15 ft. of line-set. Adjust charge 0.6 oz of refrigerant per foot of 3/8" liquid connecting tubing. Remove any refrigerant remaining in system before recharging if the system has lost complete charge, evacuate and recharge by weight.</div></div></div>													<div><div><div>COOLING ONLY CHARGING PROCEDURE</div></div><div><div><div>1. Only use subcooling charging method when OD ambient is greater than 70°F and less than 100°F, indoor temp is greater than 70°F and less than 80°F, and line set is less than 80 ft.</div><div>2. Operate unit a minimum of 15 minutes before checking the charge.</div><div>3. Measure liquid service valve pressure by attaching an accurate gauge to the service port.</div><div>4. Measure the liquid line temperature by attaching an accurate thermistor type or electronic thermometer to the liquid line near the outdoor coil.</div><div>5. Refer to unit rating plate for required subcooling temperature.</div><div>6. Find the point where the required subcooling temperature intersects the measured liquid service valve pressure.</div><div>7. To obtain the required subcooling temperature at specific liquid line pressure, add refrigerant if liquid line temperature is higher than indicated. When adding refrigerant, charge in liquid form using a flow restricting device into suction service port. Recover refrigerant if temperature is lower. Allow a tolerance of +/- 3°F.</div></div></div></div>													<div><div><div>QR CODE</div></div><div><div>338942-101 REV. A</div></div></div>												
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Fig. 1 – 226ANA024-060

