

**HUSSMANN®**

---

# Excel

## REFRIGERATION DATA GUIDE

September 2016



## Excel Medium Temperature Models

	Discharge Air Temp			Evap Temp			Low Press C/CO			Defrost			Offtime Defrost			Parallel Btu/hr/ft						Conventional Btu/hr/ft														
	DDP** Unlit*	DDP** Meat Unlit	Meat Lit	DDP Unlit	DDP Meat Unlit	Meat Lit	Temp DDP	Temp Meat	Temp C/CO	Temp DDP	Temp Meat	Temp Term	Failsafe Min	Time Min	DDP (all)	DDP 6 ft	DDP 8 ft	DDP 12 ft	Meat 6 ft	Meat 8 ft	Meat 12 ft	DDP (all)	DDP 6 ft	DDP 8 ft	DDP 12 ft	Meat (all)	Meat 6ft	Meat 8ft	Meat 12ft							
<b>BEXD</b>	31			21			30/20					70			446							476														
<b>BEXD-8A</b>	31			21			27/23					70			446							476														
<b>B1X-GE</b>	27			18			11/1				43	60			434							486														
<b>B3XC-LEP</b>	34	32		28	26		19/9						30		1188							1268														
<b>B4X-E</b>	32	30		26	24		17/7				48	40			1078							1218														
<b>C2NX-E</b>	27			21			14/4				48	30										1218														
<b>C2NX-LE</b>	27			21			14/4				48	30										1107	1104													
<b>C2NX-XLE</b>	29			21			14/4				48	30										1117	1114													
<b>C2NX-XLGE</b>	29			21			14/4				48	30										952	949													
<b>C2X-E</b>	27			21			14/4				48	30			1004							1059														
<b>C2XEC-XE</b>	29			21			17/7				48	30										1062	1059													
<b>C2X-EP</b>	33	31	30	28	26	25	19/9	16/6				30			569							594														
<b>C2X-LE</b>	27	27		21			14/4				48	30			1164							1229														
<b>C2X-LEP</b>	33	31	30	28	26	25	19/9					30			644	647						662	679													
<b>C2X-LGE</b>	27	27		21			14/4				48	30			934	937						1032	1029													
<b>C2X-LGEP</b>	33	31		28	26		19/9					30			527	524						557	554													

\*Unit and Lit refer to shelf lighting. \*\*Refers to dairy, deli or produce  
 NOTE: For red meat application, lower evaporator temperature and unit sizing 3°F, and increase Btu 5%.  
 Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.



## Excel Medium Temperature Models *continued*

	Discharge Air Temp			Evap Temp			Low Press C/CO		Defrost		Offtime Defrost		Parallel Btu/hr/ft						Conventional Btu/hr/ft																
	Deli Unit	Dairy Unit	Produce Unit	Deli Unit	Dairy Unit	Produce Unit	Temp DDP	Temp Meat	Freq. Hrs	Temp Term	Failsafe Min	Time Min	Deli	Dairy	Meat 4 ft	Meat 6 ft	Meat 8 ft	Meat 10 ft	Meat 12 ft	Prod. 4 ft	Prod. 6 ft	Prod. 8 ft	Prod. 10 ft	Deli	Dairy	Meat 4 ft	Meat 6 ft	Meat 8 ft	Meat 10 ft	Meat 12 ft	Prod. 4 ft	Prod. 6 ft	Prod. 8 ft	Prod. 10 ft	
<b>C5NX-LE</b>	29	31			21	24	17/7	14/4	6	48	35		1699	1374						1774	1509			1774	1509										
<b>C5X-E</b>		31	31	29		24	17/7	14/4	6	48	35				1699	1672	1573	1612					1738	1552	1673	1712									
<b>C5X-LE</b>		31	31	29		24	17/7	14/4	6	48	35				1669	1697	1604	1632					1774	1802	1704	1732									
<b>C6X-E</b>		31	29	29		24	17/7	14/4	4	48	30				1714								1824												
<b>C6X-E</b>		31	29	29		24	17/7	14/4	4	48	30				1714								1824												
<b>C6X-LE</b>		31	29	29		24	17/7	14/4	4	48	30																								
	Floral Unit*	Dairy Unit	Peg Unit	Meat Unit	Floral Unit	DD Unit	Peg Unit	Meat Lit	Freq. Hrs	Temp Term	Failsafe Min	Time Min	Floral Parallel Btu/hr/ft						Floral Parallel Btu/hr/ft																
<b>FL3X-LEP</b>	32				28			19/9	8			30																						994	
<b>FL4NX-EP</b>	34				27			18/8	8			20																						1223	
<b>FL5NX-LEP</b>	35				28			21/11	8			20																						1383	

NOTE: For red meat application, lower evaporator temperature and unit sizing 3°F, and increase Btu 5%. Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps. See convertible case specific product data sheets for all deli, dairy, meat and produce applications.

## Excel Medium Temperature Models *continued*

	Discharge Air Temp			Evap Temp			Low Press C/CO		Defrost		Offtime Defrost		Parallel Btu/hr/ft Unlit		Conventional Btu/hr/ft Unlit		
	DD** Unlit**	DD Peg Unlit	Meat Lit	DD Unlit	DD Lit	Peg Unlit	Meat Lit	Temp DD	Temp Meat	Freq. Hrs	Temp Term	Failsafe Min	Time Min	DD Unlit	Peg Unlit	DD Unlit	Peg Unlit
D5NX-E	32			24				17/7		6	48	35		1433		1523	
D5NX-EP	32	30		28	26			19/9		8	48	30		1308		1388	
D5NX-LE	32	32	32	24	24	24		17/7		6	48	35		1503	1538	1388	1633
D5NX-LEP	32	30		28	26			19/9		8	48	30		1363		1443	
D5X-E	32			24				17/7		6	48	35		1328	1448	1413	1533
D5X-ELE	32			24				17/7		6	48	35		10482		11182	
D5X-EE	32			24				17/7		6	48	35		9952		10612	
D5X-EP	32	30		28	26	26		19/9		8	48	30		1208	1358	1278	1438
D5X-GE	32			24				17/7		6	48	40		1178	1298	1263	1383
D5X-HE	32			24				17/7		6	48	35		1280	1400	1365	1485
D5X-HEP	32	30		28	26	26		19/9		12	48	40		1138	1288	1203	1353
D5X-LE	32			24				17/7		6	48	35		1398	1518	1488	1608
D5X-LEP	32	30	30	28	26	26		19/9		8	48	30		1263	1418	1338	1503
D5X-LRE	32			24				17/7		6	48	35		1515	1635	1615	1735
D5X-RE	32			24				17/7		6	48	35		1445	1565	1540	1660
D5X-RR1	32			21				14/4		6		50		965		1130	

\*Unlit and Lit refer to shelf lighting. \*\*Refers to dairy or deli.  
Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

## Excel Medium Temperature Models *continued*

	Discharge Air Temp			Evap Temp			Low Press C/CO		Defrost		Offtime Defrost		Parallel Btu/hr/ft Unlit			Conventional Btu/hr/ft Unlit				
	DD** Unlit*	DD Lit*	Peg Unlit	Meat Lit	DD Unlit	Peg Unlit	Meat Lit	DD Unlit	Temp Meat	Freq. Hrs	Temp Term	Failsafe Min	Time Min	DD Unlit	Peg Unlit	DD Unlit	Peg Unlit	DD Unlit	Peg Unlit	
D5X-RRIS	32				21			14/4		6		50		965		1130				
D5X-UJEP	32	30			28	26		19/9		6		20		1455		1535				
D5X-URLE	27				21			14/4		6		45		1130		1305				
D6NX-LE	34	32			26	24	24	17/7		6	48	35		1435	1630	1540	1730			
D6NX-LEP	33	31	31		28	26	26	19/9		12	48	30		1490	1635	1555	1710			
D6X-UJEP	32	30			28	26		19/9		6	48	25		1613		1763				
D6X-URLE	27				21			14/4		6		45		1130		1305				
DD5X-LRE	39	37			34	32	32	25/15		24		25		383	413	393	423			
DD6X-URE	36				34			25/15		24		45		450		520				
	DD Unlit	DD Lit	Peg Unlit	Meat Lit	DD Unlit	Peg Unlit	Meat Lit	DD Unlit	Temp Meat	Freq. Hrs	Temp Term	Failsafe Min	Time Min	DD Unlit	Peg Unlit	DD Unlit	Peg Unlit	DD Unlit	Peg Unlit	
DD5X-1P	39	39	39		34	32	32	25/15		24		25	268	267	303	302	273	272	309	308
DD5X-UJLP	39	39			34	32		25/15		24		25	252	259		264				
DD6X-UJLP	36	38			34	32		25/15		24		25	417	424	427	434				

\*Unlit and Lit refer to shelf lighting. \*\*Refers to dairy or deli Add 10 Btu/hr/ft. per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

## Excel Medium Temperature Models *continued*

	Discharge Air Temp		Evap Temp		Low Press		Defrost		Offtime		Parallel Btu/hr/ft		Conventional Btu/hr/ft		
	Meat, Deli Packaged Produce Unitit*	Lit*	Meat, Deli Packaged Produce Unitit	Lit	CI/CO	MDP**	Meat	Freq. Hrs	Temp Term	Defrost Time Min	Fail-safe Time Min	Unitit	Lit	Unitit	Lit
<b>M1XD-E</b>	27		18		11/1			6	43	35		481		516	
<b>M1XD-GEP</b>	30		26		14/8			12		40		291		306	
<b>M1X-E</b>	30		26		14/8			12		40		291		306	
<b>M1X-EP</b>	28		24		17/7			12	48	40		441		466	
<b>M1X-GE</b>	26		18		11/1			6	43	35		401		426	
<b>M1X-GEP</b>	30		26		14/8			12		40		335		336	
<b>M1XLD-GE</b>	-10		-20		-27/-37			8	48	40		380		390	
<b>M1X-LGE</b>	-8		-20		-27/-37			8	48	40		460		475	
<b>M1X-XGE</b>	26		18		11/1			6	43	35		486		516	
<b>M1X-XGEC</b>	26		18		11/1			6	43	35		486		516	
<b>M3X-E</b>	28		21		14/4			6	48	35		1028		1128	
<b>M3X-EP</b>	31	29	28	26	19/9			6	48		30	903		983	
<b>M3X-GE</b>	28		21		14/4			8	48	35		908		993	
<b>M3X-GEP</b>	31	29	28	26	19/9			6	48		35	783		858	
<b>M4NX-E</b>	29		21		14/4			6	48	30		1498		1603	

\*Unitit and Lit refer to shelf lighting. \*\*Refers to meat, deli, packaged produce  
Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

## Excel Medium Temperature Models *continued*

	Discharge Air Temp Meat, Deli Packaged Produce		Evap Temp Meat, Deli Packaged Produce		Low Press Cl/CO		Defrost		Offtime		Parallel Btu/hr/ft		Conventional Btu/hr/ft	
	Unit*	Lit*	Unit	Lit	MDP**	Meat	Freq. Hrs	Temp Term	Defrost Time	Min	Unit	Lit	Unit	Lit
<b>M4X-E</b>	29		21		14/4		6	48	30		1224		1304	
<b>M4X-EP</b>	31	29	28	26	19/9		6	48	30		1052		1147	
<b>M4X-GE</b>	29		21		14/4		6	48	35		1114		1204	
<b>M4X-GEP</b>	31	29	28	26	19/9		6	48	35		957		1047	
<b>M5NX-E</b>	28		21		14/4		6	48	30		1603		1718	
<b>M5NX-EP</b>	32	30	28	26	19/9		6	48	30		1493		1633	
<b>M5NX-GEP</b>	32	30	28	26	19/9		6	48	35		1233		1373	
<b>M5X-E</b>	29		21		14/4		6	48	30		1419		1529	
<b>M5X-EP</b>	32	30	28	26	19/9		6	48	30		1324		1444	
<b>M5X-GE</b>	28		21		14/4		6	48	35		1274		1394	
<b>M5X-GEP</b>	32	30	28	26	19/9		6	48	35		1164		1274	
<b>ME5X-GP</b>	29	27	24	22	15/5		6	48	25		1150		1285	

\*Unit and Lit refer to shelf lighting. \*\*Refers to meat, deli, packaged produce  
Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.



## Excel Medium Temperature Models *continued*

	Discharge Air Temp Produce		Evap Temp Produce		Low Press Cl/CO		Defrost		Offtime Defrost		Parallel Btu/hr/ft		Conventional Btu/hr/ft	
	Unlit*	Lit*	Unlit	Lit	Produce	Meat	Freq. Hrs	Temp Term	Defrost Time	Fail-safe Time	Unlit	Lit	Unlit	Lit
<b>P1NX-E</b>	31		24		17/7		8	43	35		575		610	
<b>P1X50-EP</b>	31		28		21/11		8	48	35		545		580	
<b>P1X-E</b>	31		24		17/7		8	43	35		506		541	
<b>P1X-XE</b>	31		24		17/7		8	43	35		611		651	
<b>P2NX-E</b>	33		24		17/7		8	48	30		1049		1134	
<b>P2NX-EP</b>	39	39	34	34	27/17			48			979		979	
<b>P2X-E</b>	33		24		17/7		8	48	30		949		1029	
<b>P2X-EP</b>	39	39	34	34	27/17			48			889		889	
<b>P2XRO-E</b>	33		24		17/7		8	48	30		949		1029	
<b>P4XNX-E</b>	31		24		17/7		6	48	30	30	1603		1718	
<b>P4XNX-EP</b>	33	31	30	28	21/11		6	48	30	30	1353		1478	
<b>P4X-E</b>	31		24		17/7		6	48	30	30	1409		1539	
<b>P4X-EP</b>	33	31	30	28	21/11		6	48	30	30	1229		1344	
<b>P4XRO-E</b>	31		24		17/7		6	48	30		1400		1530	
<b>PW-E</b>	34		24		17/7		6		45		1090		1205	

\*Unlit and Lit refer to shelf lighting.  
Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

## Excel Medium Temperature Models *continued*

	Discharge Air Temp Produce or Meat Seafood and Deli		Evap Temp Produce or Meat and Deli		Low Press C/CO		Defrost		Offtime		Parallel Btu/hr/ft		Conventional Btu/hr/ft	
	Unit*	Lit*	Unit	Lit	Pro- duce	MSD**	Freq. Hrs	Temp Term	Defrost Time	Unit	Lit	Unit	Lit	Unit
PWEE	32		24		17/7		6		45		2475		2730	
PWR-E	34		24		17/7		6		45		1255		1385	
PWREE	32		24		17/7		6		45		2845		3140	
PWW-E	34		24		17/7		6		45		1200		1325	
PWWEE	32		24		17/7		6		45		2725		3005	
SMB	24		18			11/1	12	43	90		420		450	
SMBT	24		18			11/1	12	43	90		420		450	
SMG	24		18			11/1	24		90	70	420		450	
SMG	24		18			11/1	24		90	70	420		450	
SMGV	25		20			13/3	24		90	70	210		220	
SMGVE	24		22			15/5	24		90	70	170		180	

\*Unit and Lit refer to shelf lighting. \*\*Meat, Seafood, Delicatessen  
Add 10 Btu/hr/ft per shelf row for LED fixtures. Add 20 Btu/hr/ft per shelf row for fluorescent lamps.

## Excel Low Temperature Models

	Discharge Air Temp			Evaporator Temp			Low Press Cl/CO			Gas Duration Min			Parallel Btu/hr/ft			Conventional Btu/hr/ft		
	Med	FF	IC	Med	FF	IC	Med	FF	IC	Med	FF	IC	Med	FF	IC	Med	FF	IC
<b>F</b>	24	-12	-22	19	-20	-30	12°/2°	-17°/-29°	-27°/-39°	NA	15	18	261	366	376	271	381	39
<b>FG</b>	24	-12	-22	19	-20	-30	12°/2°	-17°/-29°	-27°/-39°	NA	15	18	291	411	421	306	431	441
<b>FI</b>	24	-12		19	-20		22°/10°	-17°/-29°		NA	15		325	480		340	500	
<b>FIG</b>	24	-12		19	-20		22°/10°	-17°/-29°		NA	15		345	535		360	560	
<b>FN</b>	24	-12	-22	19	-20	-30	12°/2°	-17°/-29°	-27°/-39°	NA	15	18	271	381	391	281	396	406
<b>FNG</b>	24	-12	-22	19	-20	-30	12°/2°	-17°/-29°	-27°/-39°	NA	15	18	295	460	470	305	480	490
<b>FW</b>	24	-12	-22	19	-20	-30	22°/10°	-17°/-29°	-27°/-39°	NA	15	18	403	523	573	412	532	582
<b>FWE</b>	24	-12	-22	19	-20	-30	22°/10°	-17°/-29°	-27°/-39°	NA	15	18	1315	2120	2270	1375	2215	2370
<b>FWG</b>	24	-12	-22	19	-20	-30	22°/10°	-17°/-29°	-27°/-39°	NA	15	18	422	607	652	442	632	682
<b>FWEG</b>	24	-12	-22	19	-20	-30	22°/10°	-17°/-29°	-27°/-39°	NA	15	18	1555	2505	2675	1625	2615	2795

Defrost Frequency is 24 hours for all models listed above, all applications

Electric Defrost Temperature Termination is 48°F for all models listed above, all applications

Electric Defrost Fallsafe is 60 minutes for all models listed above, all applications

Standard Defrost Thermostat - Close On Rise: close 48°F, open 33°F for all models listed above, all applications

# Temperature Pressure Charts



Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
-50	6.1	0.2	0.9	18.6	103.4
-45	2.7	2.3	3.1	16.7	116.6
-40	0.6	4.6	5.5	14.7	131.0
-38	1.4	5.6	6.5	13.8	137.0
-36	2.2	6.6	7.6	12.8	143.3
-34	3.1	7.7	8.7	11.8	149.7
-32	4.0	8.8	9.9	10.8	156.3
-30	4.9	9.9	11.1	9.7	163.1
-28	5.9	11.1	12.4	8.6	170.1
-26	6.9	12.4	13.7	7.4	177.3
-24	8.0	13.6	15.0	6.2	184.8
-22	9.1	15.0	16.4	4.9	192.4
-20	10.2	16.3	17.8	3.6	200.2
-18	11.4	17.8	19.3	2.2	208.3
-16	12.6	19.2	20.9	0.7	216.5
-14	13.9	20.8	22.5	0.4	225.0
-12	15.2	22.3	24.1	1.2	233.8
-10	16.5	24.0	25.8	2.0	242.7
-8	17.9	25.7	27.6	2.8	251.9
-6	19.4	27.4	29.4	3.7	261.3
-4	20.9	29.2	31.3	4.6	271.0
-2	22.4	31.1	33.2	5.5	280.9

Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
0	24.0	33.0	35.2	6.5	291.0
1	24.8	34.0	36.2	7.0	296.2
2	25.7	34.9	37.3	7.5	301.5
3	26.5	36.0	38.3	8.0	306.8
4	27.4	37.0	39.4	8.6	312.1
5	28.3	38.0	40.5	9.1	317.6
6	29.1	39.1	41.6	9.7	323.1
7	30.0	40.2	42.7	10.2	328.6
8	31.0	41.3	43.8	10.8	334.2
9	31.9	42.4	45.0	11.4	339.9
10	32.8	43.5	46.2	12.0	345.7
11	33.8	44.6	47.3	12.6	351.5
12	34.8	45.8	48.5	13.2	357.4
13	35.8	47.0	49.8	13.8	363.4
14	36.8	48.1	51.0	14.4	369.5
15	37.8	49.4	52.2	15.1	375.6
16	38.8	50.6	53.5	15.7	381.8
17	39.9	51.8	54.8	16.4	388.0
18	40.9	53.1	56.1	17.1	394.3
19	42.0	54.4	57.4	17.7	400.7
20	43.1	55.7	58.8	18.4	407.2
21	44.2	57.0	60.1	19.2	413.8

## Temperature Pressure Charts *continued*

Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
22	<b>45.3</b>	<b>58.3</b>	<b>61.5</b>	<b>19.9</b>	<b>420.4</b>
23	<b>46.5</b>	<b>59.7</b>	<b>62.9</b>	<b>20.6</b>	<b>427.1</b>
24	<b>47.6</b>	<b>61.1</b>	<b>64.3</b>	<b>21.4</b>	<b>433.8</b>
25	<b>48.8</b>	<b>62.4</b>	<b>65.8</b>	<b>22.1</b>	<b>440.7</b>
26	<b>50.0</b>	<b>63.9</b>	<b>67.2</b>	<b>22.9</b>	<b>447.6</b>
27	<b>51.2</b>	<b>65.3</b>	<b>68.7</b>	<b>23.7</b>	<b>454.6</b>
28	<b>52.4</b>	<b>66.7</b>	<b>70.2</b>	<b>24.5</b>	<b>461.7</b>
29	<b>53.7</b>	<b>68.2</b>	<b>71.7</b>	<b>25.3</b>	<b>468.8</b>
30	<b>54.9</b>	<b>69.7</b>	<b>73.3</b>	<b>26.1</b>	<b>476.1</b>
31	<b>56.2</b>	<b>71.2</b>	<b>74.8</b>	<b>26.9</b>	<b>483.4</b>
32	<b>57.5</b>	<b>72.7</b>	<b>76.4</b>	<b>27.8</b>	<b>490.8</b>
33	<b>58.8</b>	<b>74.3</b>	<b>78.0</b>	<b>28.6</b>	<b>498.3</b>
34	<b>60.2</b>	<b>75.6</b>	<b>79.6</b>	<b>29.5</b>	<b>505.8</b>
35	<b>61.5</b>	<b>77.4</b>	<b>81.3</b>	<b>30.4</b>	<b>513.4</b>
36	<b>62.9</b>	<b>79.1</b>	<b>82.9</b>	<b>31.3</b>	<b>521.2</b>
37	<b>64.3</b>	<b>80.7</b>	<b>84.6</b>	<b>32.2</b>	<b>529.0</b>
38	<b>65.7</b>	<b>82.4</b>	<b>86.3</b>	<b>33.1</b>	<b>536.9</b>
39	<b>67.1</b>	<b>84.0</b>	<b>88.1</b>	<b>34.1</b>	<b>544.8</b>
40	<b>68.6</b>	<b>85.7</b>	<b>89.8</b>	<b>35.0</b>	<b>552.9</b>
42	<b>71.5</b>	<b>89.2</b>	<b>93.4</b>	<b>37.0</b>	<b>569.3</b>
44	<b>74.5</b>	<b>92.7</b>	<b>97.0</b>	<b>39.0</b>	<b>586.0</b>
46	<b>77.6</b>	<b>96.4</b>	<b>100.8</b>	<b>41.1</b>	<b>603.1</b>

Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
48	<b>80.8</b>	<b>100.1</b>	<b>104.6</b>	<b>43.2</b>	<b>620.5</b>
50	<b>84.1</b>	<b>104.0</b>	<b>108.6</b>	<b>45.4</b>	<b>638.3</b>
52	<b>87.4</b>	<b>109.5</b>	<b>112.6</b>	<b>47.7</b>	<b>656.5</b>
54	<b>90.8</b>	<b>113.5</b>	<b>116.7</b>	<b>50.0</b>	<b>675.0</b>
56	<b>94.4</b>	<b>117.7</b>	<b>121.0</b>	<b>52.4</b>	<b>694.0</b>
58	<b>98.0</b>	<b>121.9</b>	<b>125.3</b>	<b>54.9</b>	<b>713.3</b>
60	<b>101.6</b>	<b>126.3</b>	<b>129.8</b>	<b>57.4</b>	<b>733.1</b>
62	<b>105.4</b>	<b>130.7</b>	<b>134.3</b>	<b>60.0</b>	<b>753.2</b>
64	<b>109.3</b>	<b>135.3</b>	<b>139.0</b>	<b>62.7</b>	<b>773.8</b>
66	<b>113.3</b>	<b>139.9</b>	<b>143.7</b>	<b>65.4</b>	<b>794.8</b>
68	<b>117.3</b>	<b>144.7</b>	<b>148.6</b>	<b>68.2</b>	<b>816.2</b>
70	<b>121.5</b>	<b>149.6</b>	<b>153.6</b>	<b>71.1</b>	<b>838.1</b>
72	<b>125.7</b>	<b>154.5</b>	<b>158.7</b>	<b>74.1</b>	<b>860.5</b>
74	<b>130.0</b>	<b>159.6</b>	<b>163.9</b>	<b>77.1</b>	<b>883.3</b>
76	<b>134.5</b>	<b>164.9</b>	<b>169.3</b>	<b>80.2</b>	<b>906.7</b>
78	<b>139.0</b>	<b>170.2</b>	<b>174.7</b>	<b>83.4</b>	<b>930.5</b>
80	<b>143.7</b>	<b>175.6</b>	<b>180.3</b>	<b>86.7</b>	<b>954.9</b>
82	<b>148.4</b>	<b>181.2</b>	<b>186.0</b>	<b>90.0</b>	<b>979.8</b>
84	<b>153.3</b>	<b>186.9</b>	<b>191.9</b>	<b>93.5</b>	<b>1005.4</b>
86	<b>158.2</b>	<b>192.7</b>	<b>197.8</b>	<b>97.0</b>	<b>1031.6</b>
88	<b>163.3</b>	<b>198.6</b>	<b>203.9</b>	<b>100.6</b>	<b>NA</b>
90	<b>168.4</b>	<b>204.7</b>	<b>210.2</b>	<b>104.3</b>	<b>NA</b>

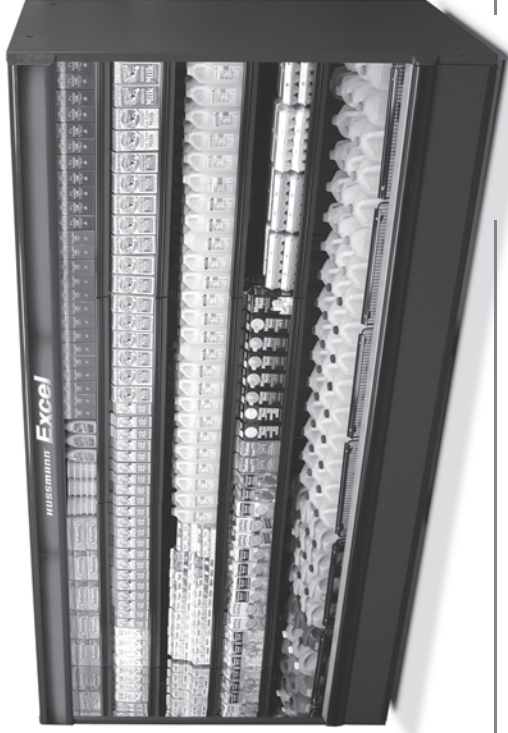
## Temperature Pressure Charts *continued*

Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
92	<b>173.7</b>	<b>210.8</b>	<b>216.6</b>	<b>108.1</b>	NA
94	<b>179.1</b>	<b>217.2</b>	<b>223.1</b>	<b>112.0</b>	NA
96	<b>184.6</b>	<b>223.6</b>	<b>229.8</b>	<b>115.9</b>	NA
98	<b>190.2</b>	<b>230.2</b>	<b>236.6</b>	<b>120.0</b>	NA
100	<b>196.0</b>	<b>236.9</b>	<b>243.5</b>	<b>124.1</b>	NA
102	<b>201.8</b>	<b>243.8</b>	<b>250.6</b>	<b>128.4</b>	NA
104	<b>207.8</b>	<b>250.7</b>	<b>257.9</b>	<b>132.7</b>	NA
106	<b>213.9</b>	<b>257.9</b>	<b>265.3</b>	<b>137.2</b>	NA
108	<b>220.1</b>	<b>265.1</b>	<b>272.9</b>	<b>141.7</b>	NA
110	<b>226.4</b>	<b>272.6</b>	<b>280.7</b>	<b>146.4</b>	NA

Temp °F	Refrigerant				
	R-22	R-404A	R-507	R-134A	R-744
112	<b>232.9</b>	<b>280.1</b>	<b>288.6</b>	<b>151.1</b>	NA
114	<b>239.5</b>	<b>287.8</b>	<b>296.6</b>	<b>155.9</b>	NA
116	<b>246.2</b>	<b>295.7</b>	<b>304.9</b>	<b>160.9</b>	NA
118	<b>253.1</b>	<b>303.7</b>	<b>313.3</b>	<b>166.0</b>	NA
120	<b>260.0</b>	<b>311.9</b>	<b>321.9</b>	<b>171.1</b>	NA
125	<b>278.1</b>	<b>333.0</b>	<b>344.3</b>	<b>184.5</b>	NA
130	<b>297.0</b>	<b>355.2</b>	<b>367.8</b>	<b>198.7</b>	NA
135	<b>316.8</b>	<b>399.6</b>	<b>392.6</b>	<b>213.5</b>	NA
140	<b>337.5</b>	<b>402.6</b>	<b>418.7</b>	<b>229.2</b>	NA

Vacuum - *Italic Figures* Gauge Pressure - **Bold Figures**

# High Glide Temperature Pressure Charts





Temp °F	R-407A	
	Dew	Bubble
-40	<b>3.9</b>	<b>1</b>
-35	<b>6.4</b>	<b>1</b>
-30	<b>9.2</b>	<b>3.3</b>
-25	<b>12.2</b>	<b>5.8</b>
-20	<b>15.6</b>	<b>8.5</b>
-15	<b>19.2</b>	<b>11.5</b>
-10	<b>23.2</b>	<b>14.9</b>
-5	<b>27.5</b>	<b>18.5</b>
0	<b>32.2</b>	<b>22.5</b>
5	<b>37.3</b>	<b>26.9</b>
10	<b>42.8</b>	<b>31.6</b>
15	<b>48.7</b>	<b>36.7</b>
20	<b>55.1</b>	<b>42.3</b>
25	<b>62</b>	<b>48.3</b>
30	<b>69.3</b>	<b>54.8</b>
35	<b>77.2</b>	<b>61.8</b>
40	<b>85.6</b>	<b>69.4</b>
45	<b>94.6</b>	<b>77.4</b>
50	<b>104</b>	<b>86.1</b>
55	<b>114</b>	<b>95.3</b>
60	<b>125</b>	<b>105</b>
65	<b>137</b>	<b>116</b>

Temp °F	R-407A	
	Dew	Bubble
70	<b>149</b>	<b>127</b>
75	<b>162</b>	<b>139</b>
80	<b>175</b>	<b>152</b>
85	<b>190</b>	<b>165</b>
90	<b>205</b>	<b>179</b>
95	<b>221</b>	<b>194</b>
100	<b>238</b>	<b>210</b>
105	<b>255</b>	<b>227</b>
110	<b>274</b>	<b>245</b>
115	<b>293</b>	<b>264</b>
120	<b>314</b>	<b>284</b>
125	<b>335</b>	<b>305</b>
130	<b>358</b>	<b>327</b>
135	<b>382</b>	<b>350</b>
140	<b>406</b>	<b>375</b>
145	<b>432</b>	<b>401</b>
150	<b>459</b>	<b>428</b>

Temp °F	R-427A	
	Dew	Bubble
-40	<b>2.2</b>	<b>5.1</b>
-35	<b>4.5</b>	<b>7.5</b>
-30	<b>7.0</b>	<b>1.3</b>
-25	<b>9.7</b>	<b>3.5</b>
-20	<b>12.8</b>	<b>6.0</b>
-15	<b>16.1</b>	<b>8.7</b>
-10	<b>19.7</b>	<b>11.7</b>
-5	<b>23.6</b>	<b>15</b>
0	<b>27.9</b>	<b>18.7</b>
5	<b>32.6</b>	<b>22.6</b>
10	<b>37.6</b>	<b>26.9</b>
15	<b>43</b>	<b>31.5</b>
20	<b>48.8</b>	<b>36.6</b>
25	<b>55</b>	<b>42.1</b>
30	<b>61.7</b>	<b>48</b>
35	<b>68.9</b>	<b>54.3</b>
40	<b>76.6</b>	<b>61.2</b>
45	<b>84.8</b>	<b>68.5</b>
50	<b>93.6</b>	<b>76.4</b>
55	<b>102.9</b>	<b>84.8</b>
60	<b>112.8</b>	<b>93.8</b>
65	<b>123.3</b>	<b>103.4</b>

Temp °F	R-427A	
	Dew	Bubble
70	<b>134.4</b>	<b>113.7</b>
75	<b>158.6</b>	<b>136.1</b>
80	<b>158.6</b>	<b>136.1</b>
85	<b>171.8</b>	<b>148.4</b>
90	<b>185.7</b>	<b>161.5</b>
95	<b>200.3</b>	<b>175.3</b>
100	<b>215.8</b>	<b>189.9</b>
105	<b>232</b>	<b>205</b>
110	<b>249.1</b>	<b>221.7</b>
115	<b>276</b>	<b>238.9</b>
120	<b>285.8</b>	<b>257.1</b>
125	<b>305.5</b>	<b>276.3</b>
130	<b>326.2</b>	<b>296.5</b>
135	<b>347.8</b>	<b>317.8</b>
140	<b>170.5</b>	<b>346.3</b>
145	<b>394.1</b>	<b>363.9</b>
150	<b>418.9</b>	<b>388.8</b>

## High Glide Temperature Pressure Charts *continued*

Temp	R-448A	
	Dew	Bubble
-50	<b>0.27</b>	<i>7.58</i>
-48	<b>1.09</b>	<i>6.26</i>
-46	<b>1.94</b>	<i>4.89</i>
-44	<b>2.83</b>	<i>3.44</i>
-42	<b>3.76</b>	<i>1.94</i>
-40	<b>4.72</b>	<i>0.36</i>
-38	<b>5.72</b>	<b>0.63</b>
-36	<b>6.77</b>	<b>1.47</b>
-34	<b>7.85</b>	<b>2.35</b>
-32	<b>8.98</b>	<b>3.27</b>
-30	<b>10.15</b>	<b>4.22</b>
-28	<b>11.37</b>	<b>5.21</b>
-26	<b>12.63</b>	<b>6.25</b>
-24	<b>13.93</b>	<b>7.32</b>
-22	<b>15.29</b>	<b>8.44</b>
-20	<b>16.70</b>	<b>9.60</b>
-18	<b>18.15</b>	<b>10.81</b>
-16	<b>19.66</b>	<b>12.06</b>
-14	<b>21.22</b>	<b>13.36</b>
-12	<b>22.83</b>	<b>14.71</b>
-10	<b>24.50</b>	<b>16.11</b>
-8	<b>26.23</b>	<b>17.57</b>

Temp	R-448A		
	°F	Dew	Bubble
-6	<b>-6</b>	<b>28.01</b>	<b>19.07</b>
-4	<b>-4</b>	<b>29.86</b>	<b>20.63</b>
-2	<b>-2</b>	<b>31.76</b>	<b>22.24</b>
0	<b>0</b>	<b>33.72</b>	<b>23.91</b>
2	<b>2</b>	<b>35.75</b>	<b>25.63</b>
4	<b>4</b>	<b>37.84</b>	<b>27.42</b>
6	<b>6</b>	<b>40.00</b>	<b>29.26</b>
8	<b>8</b>	<b>42.23</b>	<b>31.17</b>
10	<b>10</b>	<b>44.52</b>	<b>33.14</b>
12	<b>12</b>	<b>46.88</b>	<b>35.17</b>
14	<b>14</b>	<b>49.31</b>	<b>37.28</b>
16	<b>16</b>	<b>51.82</b>	<b>39.44</b>
18	<b>18</b>	<b>54.40</b>	<b>41.68</b>
20	<b>20</b>	<b>57.05</b>	<b>43.99</b>
22	<b>22</b>	<b>59.78</b>	<b>46.36</b>
24	<b>24</b>	<b>62.59</b>	<b>48.82</b>
26	<b>26</b>	<b>65.47</b>	<b>51.34</b>
28	<b>28</b>	<b>68.44</b>	<b>53.94</b>
30	<b>30</b>	<b>71.49</b>	<b>56.62</b>
32	<b>32</b>	<b>74.62</b>	<b>59.38</b>
34	<b>34</b>	<b>77.84</b>	<b>62.22</b>
36	<b>36</b>	<b>81.14</b>	<b>65.14</b>

Temp	R-448A		
	°F	Dew	Bubble
38	<b>38</b>	<b>84.53</b>	<b>68.14</b>
40	<b>40</b>	<b>88.01</b>	<b>71.24</b>
42	<b>42</b>	<b>91.58</b>	<b>74.41</b>
44	<b>44</b>	<b>95.24</b>	<b>77.68</b>
46	<b>46</b>	<b>99.00</b>	<b>81.03</b>
48	<b>48</b>	<b>102.85</b>	<b>84.48</b>
50	<b>50</b>	<b>106.79</b>	<b>88.02</b>
52	<b>52</b>	<b>110.84</b>	<b>91.66</b>
54	<b>54</b>	<b>114.98</b>	<b>95.39</b>
56	<b>56</b>	<b>119.23</b>	<b>99.22</b>
58	<b>58</b>	<b>123.58</b>	<b>103.16</b>
60	<b>60</b>	<b>128.03</b>	<b>107.19</b>
62	<b>62</b>	<b>132.59</b>	<b>111.33</b>
64	<b>64</b>	<b>137.25</b>	<b>115.57</b>
66	<b>66</b>	<b>142.02</b>	<b>119.93</b>
68	<b>68</b>	<b>146.91</b>	<b>124.39</b>
70	<b>70</b>	<b>151.90</b>	<b>128.96</b>
72	<b>72</b>	<b>157.01</b>	<b>133.65</b>
74	<b>74</b>	<b>162.23</b>	<b>138.45</b>
76	<b>76</b>	<b>167.57</b>	<b>143.37</b>
78	<b>78</b>	<b>173.03</b>	<b>148.40</b>
80	<b>80</b>	<b>178.61</b>	<b>153.56</b>

Temp	R-448A		
	°F	Dew	Bubble
82	<b>82</b>	<b>184.31</b>	<b>158.84</b>
84	<b>84</b>	<b>190.13</b>	<b>164.25</b>
86	<b>86</b>	<b>196.08</b>	<b>169.78</b>
88	<b>88</b>	<b>202.15</b>	<b>175.45</b>
90	<b>90</b>	<b>208.36</b>	<b>181.24</b>
92	<b>92</b>	<b>214.69</b>	<b>187.17</b>
94	<b>94</b>	<b>221.15</b>	<b>193.23</b>
96	<b>96</b>	<b>227.75</b>	<b>199.44</b>
98	<b>98</b>	<b>234.48</b>	<b>205.78</b>
100	<b>100</b>	<b>241.34</b>	<b>212.27</b>
102	<b>102</b>	<b>248.35</b>	<b>218.90</b>
104	<b>104</b>	<b>255.50</b>	<b>225.68</b>
106	<b>106</b>	<b>262.78</b>	<b>232.61</b>
108	<b>108</b>	<b>270.22</b>	<b>239.69</b>
110	<b>110</b>	<b>277.79</b>	<b>246.93</b>
112	<b>112</b>	<b>285.52</b>	<b>254.33</b>
114	<b>114</b>	<b>293.39</b>	<b>261.88</b>
116	<b>116</b>	<b>301.41</b>	<b>269.61</b>
118	<b>118</b>	<b>309.59</b>	<b>277.50</b>
120	<b>120</b>	<b>317.92</b>	<b>285.56</b>
122	<b>122</b>	<b>326.41</b>	<b>293.79</b>
124	<b>124</b>	<b>335.06</b>	<b>302.20</b>

## High Glide Temperature Pressure Charts *continued*

Temp °F	R-448A	
	Dew	Bubble
126	<b>343.86</b>	<b>310.79</b>
128	<b>352.83</b>	<b>319.56</b>
130	<b>361.96</b>	<b>328.52</b>
132	<b>371.26</b>	<b>337.67</b>
134	<b>380.73</b>	<b>347.02</b>
136	<b>390.37</b>	<b>356.57</b>
138	<b>400.18</b>	<b>366.32</b>
140	<b>410.16</b>	<b>376.28</b>
142	<b>420.32</b>	<b>386.45</b>
144	<b>430.66</b>	<b>396.84</b>
146	<b>441.17</b>	<b>407.46</b>
148	<b>451.87</b>	<b>418.31</b>
150	<b>462.75</b>	<b>429.40</b>

Vacuum - *Italic Figures* Gauge Pressure - **Bold Figures**

Notes:

---



---



---



---



---



---



---

## High Glide Temperature Pressure Charts *continued*

Temp °F	R-449A	
	Dew	Bubble
-50	<b>0.31</b>	<i>7.39</i>
-48	<b>1.12</b>	<i>6.06</i>
-46	<b>1.98</b>	<i>4.67</i>
-44	<b>2.87</b>	<i>3.22</i>
-42	<b>3.80</b>	<i>1.70</i>
-40	<b>4.76</b>	<i>0.12</i>
-38	<b>5.76</b>	<b>0.75</b>
-36	<b>6.81</b>	<b>1.60</b>
-34	<b>7.89</b>	<b>2.48</b>
-32	<b>9.02</b>	<b>3.40</b>
-30	<b>10.19</b>	<b>4.36</b>
-28	<b>11.41</b>	<b>5.36</b>
-26	<b>12.67</b>	<b>6.40</b>
-24	<b>13.98</b>	<b>7.48</b>
-22	<b>15.33</b>	<b>8.61</b>
-20	<b>16.74</b>	<b>9.77</b>
-18	<b>18.20</b>	<b>10.99</b>
-16	<b>19.70</b>	<b>12.25</b>
-14	<b>21.26</b>	<b>13.55</b>
-12	<b>22.88</b>	<b>14.91</b>
-10	<b>24.55</b>	<b>16.31</b>
-8	<b>26.27</b>	<b>17.77</b>

Temp °F	R-449A	
	Dew	Bubble
-6	<b>28.06</b>	<b>19.28</b>
-4	<b>29.90</b>	<b>20.84</b>
-2	<b>31.80</b>	<b>22.46</b>
0	<b>33.77</b>	<b>24.14</b>
2	<b>35.79</b>	<b>25.87</b>
4	<b>37.88</b>	<b>27.66</b>
6	<b>40.04</b>	<b>29.51</b>
8	<b>42.26</b>	<b>31.42</b>
10	<b>44.55</b>	<b>33.40</b>
12	<b>46.91</b>	<b>35.44</b>
14	<b>49.35</b>	<b>37.55</b>
16	<b>51.85</b>	<b>39.72</b>
18	<b>54.43</b>	<b>41.96</b>
20	<b>57.08</b>	<b>44.28</b>
22	<b>59.81</b>	<b>46.66</b>
24	<b>62.61</b>	<b>49.12</b>
26	<b>65.49</b>	<b>51.65</b>
28	<b>68.46</b>	<b>54.25</b>
30	<b>71.51</b>	<b>56.94</b>
32	<b>74.63</b>	<b>59.70</b>
34	<b>77.85</b>	<b>62.55</b>
36	<b>81.15</b>	<b>65.47</b>

Temp °F	R-449A	
	Dew	Bubble
38	<b>84.54</b>	<b>68.48</b>
40	<b>88.01</b>	<b>71.58</b>
42	<b>91.58</b>	<b>74.76</b>
44	<b>95.24</b>	<b>78.03</b>
46	<b>98.99</b>	<b>81.39</b>
48	<b>102.83</b>	<b>84.84</b>
50	<b>106.78</b>	<b>88.38</b>
52	<b>110.82</b>	<b>92.02</b>
54	<b>114.96</b>	<b>95.76</b>
56	<b>119.20</b>	<b>99.59</b>
58	<b>123.54</b>	<b>103.52</b>
60	<b>127.99</b>	<b>107.56</b>
62	<b>132.54</b>	<b>111.70</b>
64	<b>137.20</b>	<b>115.95</b>
66	<b>141.96</b>	<b>120.30</b>
68	<b>146.84</b>	<b>124.76</b>
70	<b>151.83</b>	<b>129.33</b>
72	<b>156.93</b>	<b>134.02</b>
74	<b>162.15</b>	<b>138.82</b>
76	<b>167.48</b>	<b>143.73</b>
78	<b>172.93</b>	<b>148.77</b>
80	<b>178.50</b>	<b>153.92</b>

Temp °F	R-449A	
	Dew	Bubble
82	<b>184.19</b>	<b>159.20</b>
84	<b>190.00</b>	<b>164.60</b>
86	<b>195.94</b>	<b>170.13</b>
88	<b>202.01</b>	<b>175.79</b>
90	<b>208.20</b>	<b>181.58</b>
92	<b>214.52</b>	<b>187.50</b>
94	<b>220.97</b>	<b>193.56</b>
96	<b>227.56</b>	<b>199.76</b>
98	<b>234.28</b>	<b>206.09</b>
100	<b>241.13</b>	<b>212.57</b>
102	<b>248.13</b>	<b>219.19</b>
104	<b>255.26</b>	<b>225.96</b>
106	<b>262.53</b>	<b>232.88</b>
108	<b>269.95</b>	<b>239.95</b>
110	<b>277.51</b>	<b>247.18</b>
112	<b>285.22</b>	<b>254.57</b>
114	<b>293.08</b>	<b>262.11</b>
116	<b>301.09</b>	<b>269.82</b>
118	<b>309.25</b>	<b>277.69</b>
120	<b>317.57</b>	<b>285.74</b>
122	<b>326.04</b>	<b>293.96</b>
124	<b>334.67</b>	<b>302.35</b>

## High Glide Temperature Pressure Charts *continued*

Temp °F	R-449A	
	Dew	Bubble
126	<b>343.45</b>	<b>310.92</b>
128	<b>352.40</b>	<b>319.68</b>
130	<b>361.52</b>	<b>328.62</b>
132	<b>370.80</b>	<b>337.75</b>
134	<b>380.24</b>	<b>347.08</b>
136	<b>389.86</b>	<b>356.61</b>
138	<b>399.65</b>	<b>366.33</b>
140	<b>409.61</b>	<b>376.27</b>
142	<b>419.74</b>	<b>386.42</b>
144	<b>430.06</b>	<b>396.79</b>
146	<b>440.55</b>	<b>407.39</b>
148	<b>451.22</b>	<b>418.22</b>
150	<b>462.08</b>	<b>429.28</b>

Vacuum - *Italic Figures* Gauge Pressure - **Bold Figures**

Notes:

---



---



---



---



---



---

*The High Glide Data Charts have been reprinted with the permission of Emerson Climate Technologies, Inc. The information therein is based on technical data and tests, which is intended for use by persons having technical skill at their own discretion and risk. Since conditions of use are beyond the control of Emerson Climate Technologies, Inc. and Hussmann Corporation, we can assume no liability for results obtained or damages incurred through the application of the data presented.*

**HUSSMANN®**

**Notes:**

---

---

---

---

---

---

---

---

**HUSSMANN®**

**Hussmann Corporation**  
12900 St. Charles Rock Rd.  
Bridgeton, MO 63044-2483  
Ph: 314.291.2000

[www.hussmann.com](http://www.hussmann.com)