HFC-410A CHARGING INFORMATION — FOR COMPLETE CHARGING DETAILS, REFER TO THE OUTDOOR UNIT INSTALLATION INSTRUCTION.

Maintenance checks using the Normal Operating Pressures table

Table 2 may be used to help perform maintenance checks. This table is not a procedure for charging the system and any minor variations in the pressures may be expected due to differences in installations. However, significant deviations could mean that the system is not properly charged or that a problem exists with some component in the system.

Charge Using the Subcooling Method

Cooling Mode—When the outdoor ambient temperature is 60°F (15°C) and above, use the cooling mode to adjust the charge using the subcooling method. Target subcooling values in table 1 are based on 70 to 80°F (21-27°C) indoor return air temperature.

Heating Mode—When the outdoor ambient temperature is below 60°F (15°C), use the heating mode to adjust the charge using the subcooling charge levels (table). Target subcooling values in table 1 are based on 65-75°F (18-24°C) indoor return air temperature.

Matchups/Charge Levels and Line Set Lengths

Table 2 lists all the Lennox recommended indoor unit matchups along with the charge levels for the various sizes of outdoor units. ***Charge levels on the unit nameplate are based on installations with 15' (4.6m) line sets; be sure to consider any difference in line set length (see Installation Instructions for more details).***

Charge Using the Weigh-in Method

If the system is void of refrigerant, locate and repair any leaks and then weigh in the refrigerant charge into the unit. For charge adjustments, be sure to consider line set length differences and, referring to table 1, adjust for the matchup difference.

1 - Recover the refrigerant from the unit.
2 - Conduct leak check; evacuate as previously outlined.
3 - Weigh in the unit nameplate charge, adjusting for matchup and line set length differences. If weighing facilities are not available use the Subcooling method.

Table 1 - Normal Operating Pressures (Liquid ±10 and Suction ±5 psig)

	HEATING					COOLING										
°F (°C)*	20	30	40	50	60	65	70	75	80	85	90	95	100	105	110	115
SIZE	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ	VAP/LIQ
-018	67/ 272	83/ 287	100/305	118/321	137/339	145/242	145/259	146/279	147/302	148/326	149/351	151/376	151/406	153/433	154/462	155/498
-024	58/ 281	72/ 295	88/ 309	105/324	123/340	139/243	140/262	142/281	143/302	144/325	145/348	145/373	146/399	147/426	147/454	148/483
-030	55/ 274	69/ 286	84/ 299	102/313	122/327	135/250	136/268	138/288	140/308	141/330	143/352	144/376	145/400	147/426	148/452	149/480
-036	62/ 287	76/ 304	91/ 322	106/342	124/365	135/230	137/248	139/268	141/288	143/311	145/334	146/359	148/385	150/412	151/441	153/471
-042	58/ 293	73/ 335	89/ 368	108/394	130/411	127/215	129/234	131/254	132/275	134/298	136/321	137/346	139/371	140/398	141/426	142/455
-048	60/ 282	75/ 299	90/ 316	105/334	121/353	136/219	137/237	138/256	139/277	140/298	141/321	142/344	143/369	144/395	146/422	147/450
-060	56/ 266	70/ 285	84/ 309	99/ 337	114/369	132/222	133/241	134/262	135/283	137/306	138/330	139/354	141/380	142/406	143/434	144/463

**Temperature of the air entering the outside coil.*

Table 2 - Indoor Unit Matches and Subcooling Charge Levels and Additional Charge

OD Size	Indoor Model #	Subcool		Additional Charge		OD Size	Indoor Model #	Subcool		Additional Charge		OD Size	Indoor Model #	Subcool		Additional Charge	
		Heat	Cool					Heat	Cool					Heat	Cool		
-018	CBX27UH-018	13	14	1	9	-030	CH33-43C	4	9	1	12	-042	CH33-60D	12	8	0	9
	CBX27UH-024	13	14	1	9		CR33-30, -36	22	5	1	0		CH33-62D	19	7	1	7
	CBX32MV-018/024	12	14	0	0		CX34-31	17	15	2	10		CR33-50, -60	29	5	0	4
	CH33-25A	14	14	0	7		CX34-36	25	6	0	10		CR33-60D	29	5	0	4
	CH33-25B	14	13	0	5		CX34-38	10	19	2	14		CX34-49	11	6	1	4
	CR33-30/36	12	5	0	7		CX34-42	25	6	0	10		CX34-50, -60	25	8	1	15
	CX34-25	15	15	1	1		CX34-43	13	17	2	14		CX34-60	8	8	1	4
	CX34-31	14	24	1	12		CX34-44, -48	9	21	2	12		CX34-62C	8	11	3	10
-024	CBX26UH-024	17	3	0	15	-036	CBX26UH-036	31	3	0	4		CX34-62D	11	7	1	15
	CBX27UH-024	12	12	1	2		CBX27UH-036	18	3	0	5	-048	CBX26UH-048	20	10	3	11
	CBX32M-018, -024	14	11	0	4		CBX27UH-042	11	4	0	1		CBX27UH-048	16	6	0	0
	CBX32M-030	12	12	1	2		CBX27UH-048	11	4	0	1		CBX27UH-060	12	6	1	4
	CBX32MV-018/024	14	11	0	4		CBX32M-036	18	3	0	5		CBX32M-048	16	6	0	0
	CBX32MV-024/030	12	12	1	2		CBX32M-042	18	3	0	5		CBX32M-060	20	8	1	0
	CBX32MV-036	11	11	2	1		CBX32MV-036	18	3	0	5		CBX32MV-048	16	6	0	0
	CBX40UHV-024	11	11	2	1		CBX32MV-048	11	4	0	1		CBX32MV-060	20	8	1	0
	CBX40UHV-030	11	11	2	1		CBX40UHV-042	11	4	0	1		CBX32MV-068	10	8	4	5
	CH23-41	10	3	0	0		CBX40UHV-048	11	4	0	1		CBX40UHV-048	16	6	0	0
	CH33-25A	20	10	1	1		CBX40UHV-036	18	3	0	5		CBX40UHV-060	20	8	1	0
	CH33-25B	19	8	1	2		CH33-43B	14	8	2	1		CH23-68	24	6	2	8
	CH33-31A	15	11	1	15		CH33-43C	26	9	2	10		CH33-50, -60C	17	6	1	5
	CH33-36C	10	12	0	0		CH33-44/48B	24	8	2	3		CH33-60D	18	6	0	13
	CH33-36A	20	10	1	1		CH33-48C	26	9	2	10		CH33-62D	13	7	3	6
	CR33-30, -036	17	4	0	14		CH33-49C	15	8	2	12		CR33-50/60	19	6	1	1
	CX34-25	15	9	0	15		CH33-50/60C	15	8	2	12		CR33-60	19	6	1	1
	CX34-31	15	16	0	9		CR33-48	38	5	0	0		CX34-49C	10	6	1	9
	CX34-36	26	6	0	9		CR33-50, -60	15	5	1	4		CX34-60	28	7	3	14
	CX34-38	10	18	1	14		CX34-38	15	4	0	9		CX34-62C	10	6	3	12
-030	CBX26UH-030	19	11	1	5		CX34-43	23	8	2	8		CX34-62D	14	7	3	12
	CBX27UH-030	10	16	1	14		CX34-44/48	40	4	0	15	-060	CBX26UH-060	31	6	3	0
	CBX27UH-036	10	16	1	14		CX34-49	11	7	3	9		CBX27UH-060	13	7	0	8
	CBX32M-030	15	4	2	7		CX34-50/60	23	8	2	8		CBX32M-060	17	5	1	4
	CBX32M-036	10	16	1	14	-042	CBX26UH-042	42	5	0	8		CBX32MV-048	20	6	0	0
	CBX32MV-024, -030	15	4	2	7		CBX27UH-042	13	5	2	2		CBX32MV-060	17	5	1	4
	CBX32MV-036	10	16	1	14		CBX32M-048	13	5	2	2		CBX32MV-068	11	8	2	12
	CBX40UHV-030	10	16	1	14		CBX32MV-048	13	5	2	2		CBX40UHV-048	20	6	0	0
	CBX40UHV-036	10	16	1	14		CBX40UHV-042	13	5	2	2		CBX40UHV-060	17	5	1	4
	CH23-41	11	4	0	8		CBX40UHV-048	13	5	2	2		CH23-68	27	7	0	13
	CH23-51	11	6	0	14		CH23-68	20	9	1	5		CH33-50, -60C	11	4	0	0
	CH33-31A	16	18	2	8		CH33-43B	7	9	3	2		CH33-62D	19	6	2	4
	CH33-31B	16	18	2	6		CH33-43C	22	5	1	0		CR33-50/60	19	6	2	4
	CH33-36A	10	6	0	6		CH33-44/48B	18	4	0	0		CR33-60	23	6	1	3
	CH33-36B	6	3	0	0		CH33-48C	22	5	1	0		CX34-62C	10	7	2	14
	CH33-36C	10	11	1	5		CH33-49C	16	6	1	6		CX34-62D	19	7	3	2
	CH33-42B	16	18	2	6		CH33-50, -60C	10	9	3	4						

The values in this table are "most-popular-match-up" pressures; indoor match up, indoor air quantity, and indoor load will cause the pressures to vary.
**Amount of charge required in additional to charge shown on unit nameplate.*