HRG1418S1P – HRG1460S1P

HFC-410A CHARGING INFORMATION – FOR COMPLETE CHARGING DETAILS, REFER TO THE OUTDOOR UNIT INSTALLATION INSTRUCTIONS

Maintenance checks using the Normal Operating Pressures table

Table 1 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 (TXV Systems)

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 2 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. Target subcooling values in table 2 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 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 15ft. (4.6m) line sets; on line sets with 3/8in. (9.5mm) liquid line, add 0.6oz additional refrigerant for every 1ft. (0.3m). longer than 15ft. If line length is less than 15ft., subtract this amount (see Installation Instructions for more details)***.

Charge Using the Weigh-in Method

If the system is void of refrigerant, locate and repair any leaks, evacuate system, 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 Mode					Cooling Mode					
ºF*	**20**	**30**	**40**	**50**	**60**	**65**	**75**	**85**	**95**	**105**	**115**
SIZE	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**	**VAP/LIQ**
-018	277/69	292/84	309/101	324/119	341/139	226/145	262/147	303/150	348/152	400/154	455/157
-024	281/65	294/80	308/95	319/113	335/130	234/142	271/145	315/146	362/149	415/151	473/152
-030	276/53	287/76	301/92	315/108	329/126	238/140	273/143	319/145	369/147	419/150	475/151
-036	279/61	292/71	307/85	328/109	344/128	228/139	265/141	307/144	353/147	404/150	461/151
-042	320/65	342/78	354/95	376/110	402/127	227/134	261/137	305/140	352/142	403/145	462/147
-048	322/63	340/75	349/85	357/96	400/124	230/129	267/132	310/136	356/139	409/142	466/144
-060	311/62	324/68	339/82	371/105	391/122	231/126	262/131	308/135	354/138	404/140	461/143

*Temperature of air entering the outdoor coil.

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.

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

Indoor Matchup	Subcooling Heat (+/- 5°F)	Subcooling Cool (+/- 1°F)	Additional Charge lbs / oz
HRG1418S1P			
HMG24F1P HMG24X1P HCG24V1P	9	9	10 oz
(C,M)CG1824P(A,B,C)1P	14	5	9.5oz
(C,M)CG18P(A,B,C)3P	14	7	1lb 4oz
(C,M)CG24P(A,B,C)4P	20	8	14.5oz
(C,M)CG24P(A,B,C)4P	30	6	1lb 1oz
(C,M)CG3036P(A,B,C)4P	13	4	6.5oz
HRG1424S1P			
HMG24F1P HMG24X1P HCG24V1P	11	9	1lb
HMG30F1P HMG30X1P HCG30V1P	11	6	9oz
(C,M)CG2430P(A,B,C)3P	16	8	7.5oz
(C,M)CG24P(A,B,C)4P	15	9	14oz
(C,M)CG3036P(A,B,C)4P	21	8	13oz
(C,M)CG30T(A,B,C)5P	29	5	5lb 2oz
(C,M)CG36T(A,B,C)7P	11	6	8oz
HRG1430S1P			
HMG30F1P HMG30X1P HCG30V1P	7	6	10oz
HMG36F1P HMG36X1P HCG36V1P	5	8	15oz
(C,M)CG2430P(A,B,C)3P	10	8	14oz
(C,M)CG3036P(A,B,C)4P	16	4	3.3oz
(C,M)CG3036T(A,B,C)4P	27	6	1lb 2oz
(C,M)CG30P(A,B,C)5P	7	4	9.6oz
(C,M)CG36T(A,B,C)7P	5	2	0oz
HRG1436S1P			
HMG36F1P HMG36X1P HCG36V1P	7	6	2oz
HMG42F1P HMG42X1P HCG42V1P	4	6	1lb 7oz
HRG1436S1P			
(C,M)CG36P(A,B,C)7P	9	6	0oz
(C,M)CG36T(A,B,C)7P	9	6	0oz
HRG1442S1P			
HMG42F1P HMG42X1P HCG42V1P	17	6	1lb 8oz
HMG48F1P HMG48X1P HCG48V1P	12	6	1lb 11oz
(C,M)CG42P(B,C,D)6P	12	4	0oz
(C,M)CG4248P(B,C,D)8P	38	8	12oz
(C,M)CG4248T(B,C,D)8P	12	6	16oz
(C,M)CG48P(B,C,D)9P	8	9	1lb 10oz
(C,M)CG4248P(C,D)BP	5	8	1lb 8oz
(C,M)CG60T(C,D)AP	11	6	1lb 13oz
(C,M)CG60T(C,D)BP	9	7	1lb 10oz
HRG1448S1P			
HMG48F1P HMG48X1P HCG48V1P	13	7	12oz
HMG60F1P HMG60X1P HCG60V1P	9	6	15oz
(C,M)CG4248P(C,D)BP	9	7	13oz
(C,M)CG48P(B,C,D)9P	9	7	10oz
(C,M)CG48P(C,D)CP	16	6	2lb 4oz
(C,M)CG60P(C,D)AP	8	6	9oz
(C,M)CG60T(C,D)AP	9	7	10oz
(C,M)CG60T(C,D)BP	8	6	9oz
HRG1460S1P			
HMG48F1P HMG48X1P HCG48V1P	13	6	1lb
HMG60F1P HMG60X1P HCG60V1P	13	6	1lb 1oz
(C,M)CG4248P(C,D)BP	8	6	1lb 8oz
(C,M)CG60P(C,D)AP	13	5	1lb
(C,M)CG60T(C,D)BP	8	6	1lb 8oz
(C,M)CG60P(C,D)BP	8	6	1lb 8oz
(C,M)CG60T(C,D)BP	8	6	1lb 8oz