

## Specifications for Refrigeration

TABLE : REFRIGERATION PIPING - SINGLE PHASE				
Reverse Cycle (Outdoor / Indoor)		CRV140S / EVV140S	CRV160S / EVV160S	CRV180S / EVV180S
Max. Equivalent Pipe Length Range	metres	0 - 60	0 - 60	0 - 60
Max. Vertical Height Differential <sup>(1)</sup>	metres	20	20	20
Field Pipe Size				
Liquid Line	inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Gas Line	inch (mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Outdoor Pipe Size				
Liquid Line	inch (mm)	3/8 (9.52) swaged	3/8 (9.52) swaged	3/8 (9.52) swaged
Gas Line	inch (mm)	3/4 (19.05) swaged	3/4 (19.05) swaged	3/4 (19.05) swaged
Indoor Pipe Size				
Liquid Line	inch (mm)	3/8 (9.52) swaged	3/8 (9.52) swaged	3/8 (9.52) swaged
Gas Line	inch (mm)	3/4 (19.05) swaged	3/4 (19.05) swaged	7/8 (22.22) <sup>(2)</sup> swaged

### NOTES

<sup>(1)</sup> Included in maximum field pipe length.

<sup>(2)</sup> Cut swaged end on the unit to fit field pipe.

TABLE : REFRIGERATION PIPING - THREE PHASE					
Reverse Cycle (Outdoor / Indoor)		CRV160T / EVV160S	CRV180T / EVV180S	CRV210T / EVV210S	CRV240T / EVV240S
Max. Equivalent Pipe Length Range	metres	0 - 60	0 - 60	0 - 60	0 - 60
Max. Vertical Height Differential <sup>(1)</sup>	metres	20	20	20	20
Field Pipe Size					
Liquid Line	inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52) or 1/2 (12.7) <sup>(2) (3)</sup>	1/2 (12.7)
Gas Line	inch (mm)	3/4 (19.05)	3/4 (19.05)	7/8 (22.2) or 1 (25.4) <sup>(2) (3)</sup>	1 (25.4)
Outdoor Pipe Size					
Liquid Line	inch (mm)	3/8 (9.52) swaged	3/8 (9.52) swaged	1/2 (12.7) <sup>(2)</sup> swaged	1/2 (12.7) swaged
Gas Line	inch (mm)	3/4 (19.05) swaged	3/4 (19.05) swaged	7/8 (22.2) swaged	7/8 (22.2) swaged
Indoor Pipe Size					
Liquid Line	inch (mm)	3/8 (9.52) swaged	3/8 (9.52) swaged	1/2 (12.7) <sup>(2)</sup> swaged	1/2 (12.7) swaged
Gas Line	inch (mm)	3/4 (19.05) swaged	7/8 (22.2) <sup>(2)</sup> swaged	1 (25.4) swaged	1 (25.4) swaged

### NOTES

<sup>(1)</sup> Included in maximum field pipe length.

<sup>(2)</sup> Cut swaged end on the unit to for field pipe, if required.

<sup>(3)</sup> For pipe runs 20-60m 1/2" and 1" pipe must be used.

Refrigerant Charge Details (R-410A)									
Model		CRV140S	CRV160S	CRV180S	CRV160T	CRV180T	CRV210T		CRV240T
Refrigerant Type		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A		R-410A
Factory Charge	gms	5580	6300	7580	6200	7850	7400		9350
Pre- charged Length	m	15	15	15	15	15	15		15
Additional Refrigerant per charge	gms	50	50	50	50	50	50	100	100
Field Pipe Sizing In.(mm)	LIQ.	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52) <sup>(1)</sup>	1/2"(12.7)	1/2"(12.7)
	GAS	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	7/8" (22.22)	7/8" (22.22)	1" (25.4)	1" (25.4)

**NOTE**

<sup>(1)</sup> 50grams per meter is only applicable if 3/8" liquid field pipe is used (for field pipe length between 0-20m).