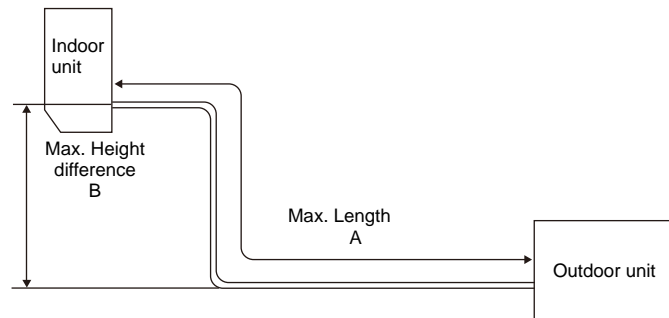


MAX. REFRIGERANT PIPING LENGTH and MAX. HEIGHT DIFFERENCE

Model	Refrigerant piping: ft.		Piping size O.D: in.	
	Max. Length A	Max. Height difference B	Gas	Liquid
MUZ-FS06NA MUZ-FS06NAH MUZ-FS09NA MUZ-FS09NAH MUZ-FS12NA MUZ-FS12NAH	65	40	3/8	1/4
MUZ-FS15NA MUZ-FS15NAH MUZ-FS18NA MUZ-FS18NAH	100	50	1/2	1/4



ADDITIONAL REFRIGERANT CHARGE (R410A: oz.)

NOTE: Refrigerant piping exceeding 25 ft. requires additional refrigerant charge according to the calculation.

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.					
		25	30	40	50	60	65
MUZ-FS06NA MUZ-FS06NAH MUZ-FS09NA MUZ-FS09NAH MUZ-FS12NA MUZ-FS12NAH	2 lb. 9 oz.	0	1.08	3.24	5.40	7.56	8.64

Calculation: X oz. = 1.08/5 oz./ft. x (Refrigerant piping length (ft.) - 25)

NOTE: Refrigerant piping exceeding 25 ft. requires additional refrigerant charge according to the calculation.

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.								
		25	30	40	50	60	70	80	90	100
MUZ-FS15NA MUZ-FS15NAH MUZ-FS18NA MUZ-FS18NAH	3 lb. 7 oz.	0	1.08	3.24	5.40	7.56	9.72	11.88	14.04	16.20

Calculation: X oz. = 1.08/5 oz./ft. x (Refrigerant piping length (ft.) - 25)