

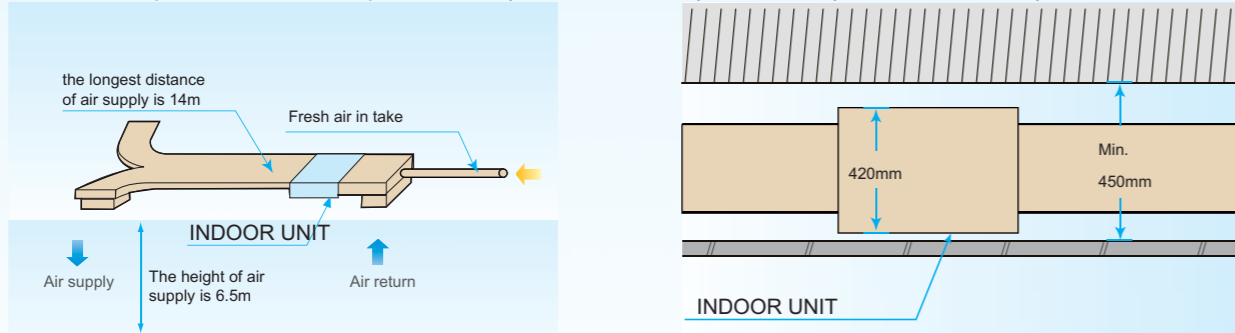
# High Static Pressure Duct



- Auto Restart
- Fresh Air
- Auto Addressing
- Cleanable Panel
- Follow Me
- Anti-Cold Air Function
- Wired Controller
- Connectable To Duct

## Flexible duct design

Four speed fan motor (medium high speed as an option only for 71~160 model)  
 External static pressure can be up to 196Pa (71~160 models) or 250Pa (400~450 models).



The max distance of air supply is about 45.9ft.(14m) while the height of air supply is about 21.3ft.(6.5m).  
 With 16-17/32in(420mm) thickness body, the minimum distance above the ceiling is 17-23/32in(450mm).

## Added flexibility with four speed fan

Just exchange the wiring connection of 'MH' and 'Me'.(for 71~160 model)

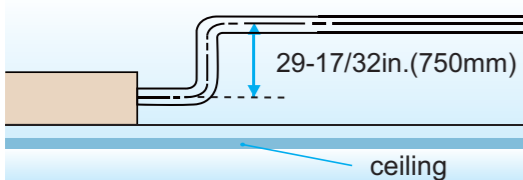
## Convenient installation

The EXV is fixed inside the indoor unit (for 71~450 model), no need extra connection.  
 Standard filter placed in an aluminum frame, which is removable downward from bottom.  
 Flange for air in/outlet duct connection is standard.

## Flexible control and convenient for maintenance

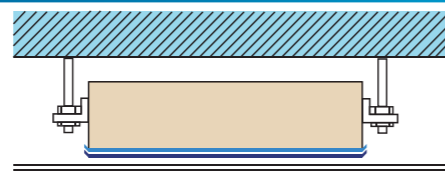
Standard Wired remote controller KJR-10B/KJR-12B, and wireless remote controller R05 is as an option.  
 The display board is connected with the E-box in factory, easier trouble-shooting by LED display.  
 Easy access filters both in rear & bottom  
 Standard functional port such as remote on/off dry contact.

### Option:



Optional drain pumps with 29-17/32in.(750mm) pumphead.

### Double-skin drainage pan



Double-skin drainage pan, double protect for your ceiling.(for 71~450 model)

Model		MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B	MDV-D112T1/VN1-B	
Power Supply		208~230V-1Ph-60Hz				
Capacity	Cooling	kW	7.1	8	9	11.2
		kcal/h	6,105	6,879	7,739	9,630
		Btu/h	24,200	27,300	30,700	38,200
	Heating	kW	8	9	10	12.5
		kcal/h	6,879	7,739	8,598	10,748
		Btu/h	27,300	30,700	34,100	42,600
Power input	Cooling	W	263	263	423	524
Heating	W	263	263	423	524	
Rated current	Cooling	A	1.1	1.1	1.8	2.3
	Heating	A	1.1	1.1	1.8	2.3
Indoor air flow (H/M/L)	m³/h	1,758/1,568/1,342	1,602/1,494/1,302	2,250/2,020/1,595	2,250/2,020/1,595	
	CFM	1,034/923/790	943/879/766	1,324/1,189/939	1,324/1,189/939	
EXP (external static pressure)	Pa	40(30~196)	40(30~196)	40(30~196)	50(30~196)	
Sound Pressure (Hi/Mid/Lo)	dB(A)	48/46/44	48/46/44.5	52/49/47	52/49/47	
Refrigerant	Type	R410A				
	Control Method	EXV				
Net dimension	W×H×D	in.(mm) 37-31/64×16-17/32×27-11/64(952×420×690)				
Packing dimension	W×H×D	in.(mm) 43-25/64×17-32×27-11/64(1,102×450×768)				
Net/Gross Weight	lbs.(kg)	46.5/52	46.5/52	50/56.5	50/56.5	
Piping Connections	Liquid (Flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)
	Gas (Flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)
	Drain piping	in.(mm)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)
Standard Controller	-	Wired controller KJR-10B/DP(T)-E (6m wire is standard)				

Model		MDV-D140T1/VN1-B	MDV-D160T1/VN1-B	MDV-D400T1/N1	MDV-D450T1/N1	
Power Supply		208~230V-1Ph-60Hz				
Capacity	Cooling	kW	14	16	40	45
		kcal/h	12,037	13,757	23,595	26,545
		Btu/h	47,800	54,600	136,520	153,580
	Heating	kW	16	18	45	50
		kcal/h	13,757	15,477	26,545	29,494
		Btu/h	54,600	61,400	153,580	170,650
Power input	Cooling	W	627	832	1,600	1,600
Heating	W	627	832	1,600	1,600	
Rated current	Cooling	A	2.7	3.6	7.5	7.5
	Heating	A	2.7	3.6	7.5	7.5
Indoor air flow (H/M/L)	m³/h	3,030/2,711/2,490	3,030/2,711/2,490	7,050/6,252/4,569	7,050/6,252/4,569	
	CFM	1,783/1,595/1,465	1,783/1,595/1,465	4,147/3,678/2,688	4,147/3,678/2,688	
EXP (external static pressure)	Pa	50(30~196)	50(30~196)	196(50~250)	196(50~250)	
Sound Pressure (Hi/Mid/Lo)	dB(A)	53/50/48	54/52/50	61/59/56	61/59/56	
Refrigerant	Type	R410A				
	Control Method	EXV				
Net dimension	W×H×D	in.(mm) 47-1/4×15-3/4×23-5/8 (1,200×400×600)		77-9/16×26-19/64×33-51/64(1,970×668×858.5)		
Packing dimension	W×H×D	in.(mm) 56-19/64×17-32×27-11/64(1,430×450×768)		82-31/64×31-1/2×37-61/64(2,095×800×964)		
Net/Gross Weight	lbs.(kg)	69.5/76	69.5/76	511/540(232/245)	511/540(232/245)	
Piping Connections	Liquid (Flare)	in.(mm)	Φ3/8(Φ9.53)	Φ3/8(Φ9.53)	Φ1/2(Φ12.7)	Φ1/2(Φ12.7)
	Gas (Flare)	in.(mm)	Φ5/8(Φ15.9)	Φ5/8(Φ15.9)	Φ7/8(Φ22.2)	Φ7/8(Φ22.2)
	Drain piping	in.(mm)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)	OD 1-9/32(Φ32) ID 1(Φ25)
Standard Controller	-	Wired controller KJR-10B/DP(T)-E (6m wire is standard)				

Notes:  
 1. Nominal cooling capacities are based on the following conditions: return air temp.: 80.6°F(27°C)DB,66.2°F(19°C)WB,and outdoor temp.: 95°F(35°C)DB,equivalent ref. Piping:26.25ft(8m)(horizontal)  
 2. Nominal heating capacities are based on the following conditions: return air temp.: 68°F(20°C)DB, outdoor temp.: 44.6°F(7°C)DB,42.8°F(6°C)WB, and equivalent ref. Piping: 26.25ft(8m)(horizontal)  
 3. Sound Level is measured 4.59ft. (1.4m) below the unit.  
 \* Specifications are subject to change without prior notice for product improvement.

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