



Atom Series Mini VRF

Heat Pump 50Hz

ATOM

Model	MDV-D06Q1/ N1-D(At)	MDV-D07Q1/ N1-D(At)	MDV-D09Q1/ N1-D(At)	MDV-D12Q1/ N1-D(At)	MDV-D15Q1/ N1-D(At)	MDV-D18Q1/ N1-D(At)	MDV-D24Q1/ N1-D(At)
Power supply	1 phase, 220-240V, 50Hz						
Cooling Capacity (kW/kBtu/h)	1.8/6	2.2/7	2.8/9	3.6/12	4.5/15	5.6/18	7.1/24
Heating Capacity (kW/kBtu/h)	2.2/7	2.6/9	3.2/11	4/14	5/17	6.3/22	8/28
Indoor fan motor Type	AC						
Indoor air flow (H/M/L) (m³/h)	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592
Sound pressure level (H/M/L)	37/34/30	37/34/30	39/37/34	40/38/34	41/39/35	42/40/36	44/41/37
Dimension (WxHxD) (mm)	1054x153x425					1275x189x450	
Net/Gross weight (kg)	12.5/16		13/16.5		18.5/22.8	18.8/23.1	19.5/23.8
Liquid pipe (mm)	Φ6.35			Φ9.53			
Gas pipe (mm)	Φ12.7			Φ15.9			
Drain pipe (mm)	OD Φ25						

Model	MDV- D09Q4/N1- E(At)	MDV- D12Q4/N1- E(At)	MDV- D15Q4/N1- E(At)	MDV- D18Q4/N1- E(At)	MDV- D24Q4/N1- E(At)	MDV- D28Q4/N1- E(At)	MDV- D32Q4/N1- E(At)	MDV- D36Q4/N1- E(At)	MDV- D40Q4/N1- E(At)	MDV- D48Q4/N1- E(At)
Power supply	1 phase, 220-240V, 50Hz									
Cooling Capacity (kW/kBtu/h)	2.8/9	3.6/12	4.5/15	5.6/18	7.1/24	8/28	9/32	10/36	11.2/40	14/48
Heating Capacity (kW/kBtu/h)	3.2/11	4/14	5/17	6.3/22	8/28	9/32	10/36	11.1/40	12.5/43	16/53
Indoor fan motor Type	AC					AC				
Indoor air flow (H/M/L) (m³/h)	764/638 /554	764/638 /554	905/740 /651	905/740 /651	950/767/ 663	1200/1021 /789	1332/1129 /908	1651/1304 /1127	1651/1304 /1127	1658/1335 /1130
Sound pressure level (H/M/L)	32/31/30	32/31/30	36/34/33	36/34/33	38/36/35	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39
Dimension (WxHxD) (mm)	840x230x840				840x300x840					
Net/Gross weight (kg)	21.5/26.7		23.7/28.9			28.7/34.1		30.9/36.3		
Liquid pipe (mm)	Φ6.35			Φ9.53			Φ15.9			
Gas pipe (mm)	Φ12.7			Φ15.9						
Drain pipe (mm)	ODΦ32									

Model	MDV-D05Q4/N1-A3(At)	MDV-D07Q4/N1-A3(At)	MDV-D09Q4/N1-A3(At)	MDV-D12Q4/N1-A3(At)	MDV-D15Q4/N1-A3(At)
Power supply	1 phase, 220-240V, 50Hz				
Cooling Capacity (kW/kBtu/h)	1.5/5	2.2/7	2.8/9	3.6/12	4.5/15
Heating Capacity (kW/kBtu/h)	1.7/6	2.4/9	3.2/11	4/14	5/17
Indoor fan motor Type	AC				
Indoor air flow (H/M/L) (m³/h)	400/283/208	414/313/238		414/313/238	
Sound pressure level (H/M/L)	35/33/23	36/33/23		42/36/29	
Dimension (WxHxD) (mm)	570x260x630				
Net/Gross weight (kg)	17/20			18.5/21.5	
Liquid pipe (mm)	Φ6.35			Φ9.53	
Gas pipe (mm)	Φ12.7			Φ15.9	
Drain pipe (mm)	ODΦ25				

Model	MDV- D07T2/N1- DA5(At)	MDV- D09T2/N1- DA5(At)	MDV- D12T2/N1- DA5(At)	MDV- D15T2/N1- DA5(At)	MDV- D18T2/N1- DA5(At)	MDV- D24T2/N1- DA5(At)	MDV- D28T2/N1- DA5(At)	MDV- D32T2/N1- DA5(At)	MDV- D40T2/N1- DA5(At)	MDV- D48T2/N1- DA5(At)	MDV- D56T2/N1- DA5(At)	
Power supply	1 phase, 220-240V, 50Hz											
Cooling Capacity (kW/kBtu/h)	2.2/7	2.8/9	3.6/12	4.5/15	5.6/18	7.1/24	8/28	9/32	11.2/40	14/48	16/56	
Heating Capacity (kW/kBtu/h)	2.6/9	3.2/11	4/14	5/17	6.3/22	8/28	9/32	10/36	12.5/43	15.5/53	17/62	
Indoor fan motor Type	AC											
Indoor air flow (H/M/L) (m³/h)	550/397 /309	550/397 /309	605/442 /351	800/573 /479	800/573 /479	985/738 /630	1345/1165 /1013	1345/1165 /1013	1800/1556 /1400	1905/1636 /1400	3620/3044 /2744	
External static pressure (Pa)	10(0~30)						20(10~50)		40(10~80)		50(50~196)	
Sound pressure level (H/M/L)	32/24/21	31/24/21	35/28/24	36/29/26	36/29/27	36/30/27	45/40/37	45/40/37	48/42/38	48/43/39	54/52/50	
Dimension (WxHxD) (mm)	778x210x500			997x210x500		1218x210 x500	1230x270x775			1290x300 x865	1322x423 x691	
Net/Gross weight (kg)	17.5/20		22/25		27.5/31	37.5/43		46.5/55.5		67/73		
Liquid pipe (mm)	Φ6.35			Φ9.53			Φ15.9					
Gas pipe (mm)	Φ12.7			Φ15.9								
Drain pipe (mm)	OD Φ25											

Model	MDV-D07G/N1- M(At)	MDV-D09G/N1- M(At)	MDV-D12G/N1- M(At)	MDV-D15G/N1- M(At)	MDV-D18G/N1- M(At)	MDV-D24G/N1- M(At)	MDV-D28G/N1- M(At)	MDV-D32G/N1- M(At)
Power supply	1 phase, 220-240V, 50Hz							
Cooling Capacity (kW/kBtu/h)	2.2/7	2.8/9	3.6/12	4.5/15	5.6/18	7.1/24	8/28	9/32
Heating Capacity (kW/kBtu/h)	2.4/9	3.2/11	4/14	5/17	6.3/22	8/28	9/32	10/36
Indoor fan motor Type	AC							
Indoor air flow (H/M/L) (m³/h)	446/429/424/4 09/394/382/373	457/445/433/4 21/419/410/402	447/429/399/3 69/339/333/303	648/618/582/5 63/546/505/476	798/764/723/6 91/665/627/595	1240/1171/110 7/1045/976	1248/1194 /1119/1056/993	1427/1403/1303 /1232/1186
Sound pressure level (H/M/L)	34/33/33/32/32 /31/31	33/33/32/32/31 /31/31	36/35/34/33/32 /32/32	37/36/34/34/33 /32/31	42/41/40/39/38 /37/36	48/47/45/44/42 /39/38	48/47/45/43/42 /39/38	52/51/50/49/47 /45/43
Dimension (WxHxD) (mm)	835x280x203			990x315x223		1194x343x262		
Net/Gross weight (kg)	8.5/11	8.5/11	9.7/12.2	13.8/16.4	13.8/16.4	17.4/20.8	17.6/21	17.6/21
Liquid pipe (mm)	Φ6.35			Φ9.53			Φ15.9	
Gas pipe (mm)	Φ12.7			Φ15.9				
Drain pipe (mm)	Φ16							



The Easiest VRF to Install

Perfect for commercial and residential applications:
small offices, villas, apartments, shops, etc.

ATOM VRF

All Screw Connections, The Easiest VRF to Install

The Atom VRF system uses all screw connection which can greatly simplify installation. The multiple branch header with **1 to 2, 3, 4, 5 or 6 options** further simplify installation.

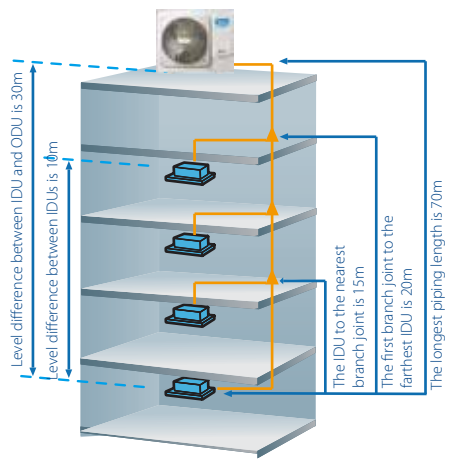


1 to 9 Indoor Units Connection

A single outdoor unit supports **1 to 9** indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units.

Long Piping Length

The Atom Mini VRF provides a total piping length possibility of **100m**, a maximum height difference between outdoor and indoor units of **30m**. The height difference between indoor units can be up to **10m**. These generous allowances facilitate an extensive array of system designs.



Centralized Control with Other VRF System, Convenient for Unified Management

The Atom system and **other VRF system** with up to **64** indoor units and **8** systems can be controlled in one centralized control system, it is very convenient for administrators to manage equipment uniformly.



Screw Connection Branch Header Lineup

Model	1 to 2 branch header DXFQT2-02	1 to 3 branch header DXFQT3-02	1 to 4 branch header DXFQT4-02	1 to 5 branch header DXFQT5-02	1 to 6 branch header DXFQT6-02
Appearance					

VRF Atom Series Lineup

		kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	12	14	16
		kBtu/h	5	6	7	9	12	15	18	24	28	32	36	40	42	48	56
Outdoor Unit											●						
													●		●		
																●	●
Indoor Unit	One-way Cassette			●	●	●	●	●	●	●							
	Four-way Cassette					●	●	●	●	●	●	●	●	●		●	
	Compact Four-way Cassette		●		●	●	●	●									
	Medium Static Pressure Duct				●	●	●	●	●	●	●	●	●		●	●	●
	Wall Mounted				●	●	●	●	●	●	●	●					

Note: Atom indoor units can connect to Atom outdoor units only.

Model		MDV-V28W/DHN1 (At)	MDV-V36W/DHN1 (At)	MDV-V42W/DHN1 (At)	MDV-V48W/DHN1 (At)	MDV-V56W/DHN1 (At)
Power supply	V/N/Hz			220-240/1/50(60)		
Cooling ¹	Capacity kW/kBtu/h	8/28	10/36	12/42	14/48	15.5/56
	Power input kW	2.1	2.66	3.31	3.97	4.87
	EER kW/kW	3.81	3.76	3.63	3.53	3.18
Heating ²	Capacity kW/kBtu/h	9/32	12/42	14/48	16/56	18/63
	Power input kW	2.04	3.15	3.64	3.98	4.82
	COP kW/kW	4.41	3.81	3.85	4.02	3.73
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity				
	Quantity	Minimum	1	1	1	1
Compressor	Type	DC inverter				
	Quantity	1				
Fan motor	Type	DC				
	Quantity	1				
Refrigerant	Type	R410A				
	Factory charging kg	2.2	2.35	3	3.4	3.8
	Pipe connections ³	Liquid pipe mm	Φ9.53		Φ9.53	Φ9.53
Air flow rate	m ³ /h	3700	5200	5000	5400	5200
	Sound pressure level dB(A)	54	54	56	56	56
Net dimension (WxHxD)	mm	910 x 712 x 345	950 x 840 x 360		1040 x 865 x 410	1120 x 980 x 560
	Packing size (WxHxD)	mm	1045 x 810 x 485	1025 x 950 x 510		
Net weight	kg	53	71.5	83	90.4	90.4
	Gross weight kg	57.5	81	92	100.4	104.4
Operating temperature range	°C	Cooling: -5~55, Heating: -15~27				