



# ATOM B Series Mini VRF

Heat Pump 50Hz

12/18/21kBtu/h  
NEW

12/18/21/28/36/42/48/56/60kBtu/h

**MDV-D\*\*Q1/N1-D(At)**

Model index	06	07	09	12	15	18	24
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	5.6/19	7.1/24
Heating capacity (kW/kBtu/h)	2.2/7	2.6/8	3.2/10	4/13	5/17	6.3/21	8/27
Indoor air flow (m <sup>3</sup> /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 (dB(A))	37/34/30	37/34/30	39/37/34	40/38/34	41/39/35	42/40/36	44/41/37

**MDV-D\*\*Q4/N1-E(At)**

Model index	09	12	15	18	24	28	32	36	40	48	56
Power supply	1 phase, 220-240V, 50Hz										
Cooling capacity (kW/kBtu/h)	2.8/9	3.6/12	4.5/15	5.6/19	7.1/24	8/27	9/30	10/34	11.2/38	14/47	16/54
Heating capacity (kW/kBtu/h)	3.2/10	4/13	5/17	6.3/21	8/27	9/30	10/34	11.1/37	12.5/42	16/54	18/61
Indoor air flow (m <sup>3</sup> /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	2100/1950/1800/1750/1600/1450/1350
Sound pressure level (dB(A))	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	46/44/42/41/39/38/37

**MDV-D\*\*Q4/N1-A3(At)**

Model index	05	07	09	12	15
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)	1.7/5	2.4/8	3.2/10	4/13	5/17
Indoor air flow (m <sup>3</sup> /h)	400/283/208	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level (dB(A))	35/33/23	36/33/23	36/33/23	42/36/29	42/36/29

**MDV-D\*\*T2/N1-DA5(At)**

Model index	07	09	12	15	18	24	28	32	40	48	56	
Power supply	1 phase, 220-240V, 50Hz											
Cooling capacity (kW/kBtu/h)	2.2/7	2.8/9	3.6/12	4.5/15	5.6/19	7.1/24	8/27	9/30	11.2/38	14/47	16/54	
Heating capacity (kW/kBtu/h)	2.6/8	3.2/10	4/13	5/17	6.3/21	8/27	9/30	10/34	12.5/42	15.5/52	17/58	
Indoor air flow (m <sup>3</sup> /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)		40(10-100)	
Sound pressure level (dB(A))	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	

**MDV-DV\*\*T2HN1-Arc(At)**

Model index	05	07	09	12	15	18	24
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	5.6/19	7.1/24
Heating capacity (kW/kBtu/h)	1.8/6	2.5/8	3.2/10	4/13	5/17	6.3/21	8/27
Indoor air flow (m <sup>3</sup> /h)	340/330/320/310/300/295/290	370/345/335/320/310/300/295	460/430/410/380/350/320/300	605/550/500/450/410/360/320	800/720/690/625/560/515/435	900/780/745/655/580/560/470	1145/1000/930/840/750/665/580
External static pressure (Pa)	10(10-50)						
Sound pressure level (dB(A))	27/25.5/24/23/22/21/20	28/27/26/25/24/23/22	30/29/28/27/26/25/24	30/29/28/27/26/25/24	34/33/32/30/29/28/26	36/34/33/32/31/30/28	37/35/34/32.5/31/30/29

**MDV-D\*\*T1N1(At)**

Model index	24	28	32	40	48	56
Power supply	1 phase, 220-240V, 50Hz					
Cooling capacity (kW/kBtu/h)	7.1/24	8/27	9/30	11.2/38	14/47	16/54
Heating capacity (kW/kBtu/h)	8/27	9/30	10/34	12.5/42	16/54	17/58
Indoor air flow (m <sup>3</sup> /h)	1395/1315/1248/1204	1361/1285/1217/1175	1801/1687/1643/1431	2063/1939/1716/1533	2965/2561/2207/1905	3417/2875/2587/2383
External static pressure (Pa)	25(25-196)					
Sound pressure level (dB(A))	48/46/44/43	48/46/45/43	52/49/47/45	52/49/47/46	53/50/48/46	54/52/50/48

**MDV-D\*\*G/N1-M(At)**

Model index	07	09	12	15	18	24	28	32
Power supply	1 phase, 220-240V, 50Hz							
Cooling capacity (kW/kBtu/h)	2.2/7	2.8/9	3.6/12	4.5/15	5.6/19	7.1/24	8/27	9/30
Heating capacity (kW/kBtu/h)	2.4/8	3.2/10	4/13	5/17	6.3/21	8/27	9/30	10/34
Indoor air flow (m <sup>3</sup> /h)	446/429/424/409/394/382/373	457/445/433/421/419/410/402	447/429/399/369/339/333/303	648/618/582/563/546/505/476	798/764/723/691/665/627/595	1240/1171/1107/1045/976/914/869	1248/1194/1119/1056/993/914/863	1427/1403/1303/1232/1186/1096/1043
Sound pressure level (dB(A))	34/33/33/32/31/31	33/33/32/32/31/31/31	36/35/34/33/33/32/32	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

**MDV-D\*\*DL/N1-C(At)**

Model index	12	15	18	24	28	32	40	48
Power supply	1 phase, 220-240V, 50Hz							
Cooling capacity (kW/kBtu/h)	3.6/12	4.5/15	5.6/19	7.1/24	8/27	9/30	11.2/38	14/47
Heating capacity (kW/kBtu/h)	4/13	5/17	6.3/21	8/27	9/30	10/34	12.5/42	15/51
Indoor air flow (m <sup>3</sup> /h)	650/570/500		800/600/500		1200/900/700		1980/1860/1730	
Sound pressure level (dB(A))	40/38/36		43/41/38		45/43/40		47/45/42	

Notes:  
1. The full model name can be obtained by substituting the asterisk in the model name format given above the table with the model index given in the table.



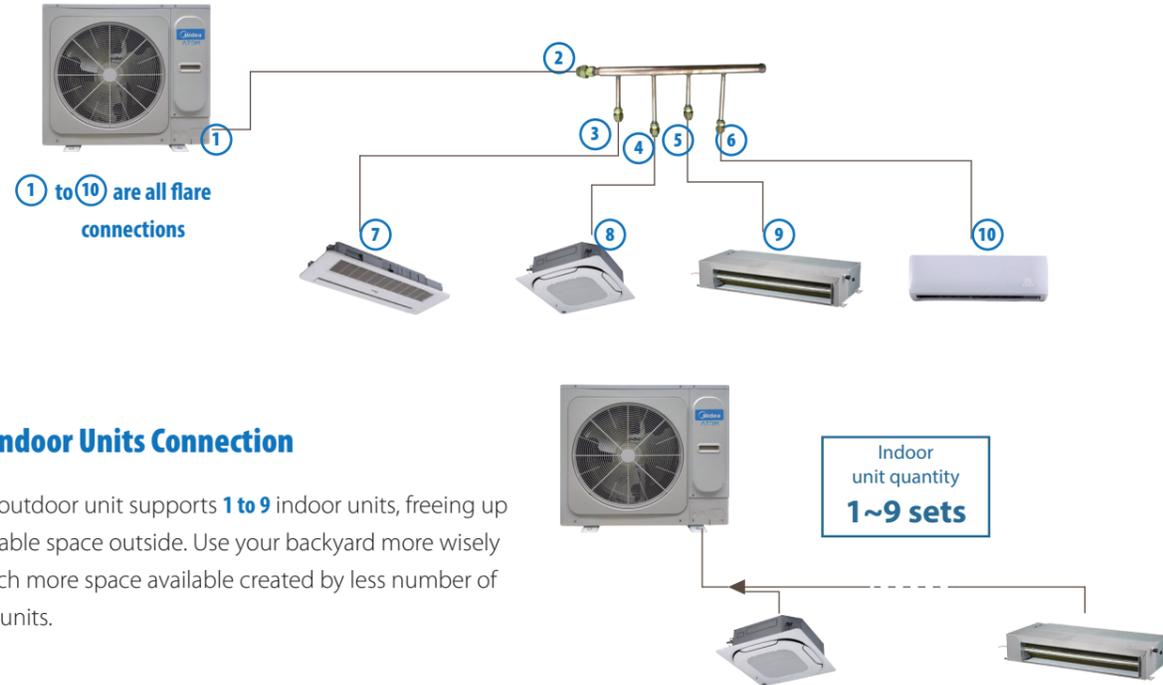
## Install in a Flash

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

# ATOM B SERIES VRF

## All Flare Connections, The Easiest VRF to Install

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

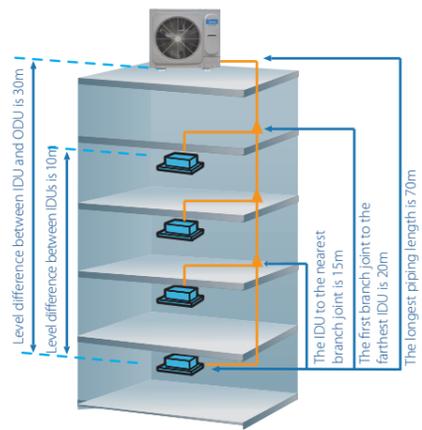


## 1 to 9 Indoor Units Connection

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.

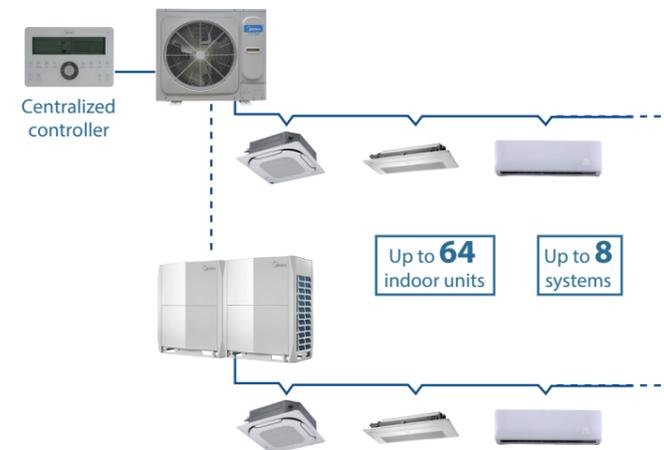
## Long Piping Length

The ATOM B series Mini VRF provides a total piping length possibility of **130m**, 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 B series 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.



## Flexible 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 B Series Lineup

### ATOM Outdoor Unit

Capacity range: 12/18/21/28/36/42/48/56/60kBTu/h (9 models) 12/18/21kBTu/h 28/36kBTu/h 42/48/56kBTu/h 60kBTu/h

### One-way Cassette

Capacity range: 06/07/09/12/15/18/24kBTu/h (7 models)

### Four-way Cassette

Capacity range: 09/12/15/18/24/28/32/36/40/48/56kBTu/h (11 models)

### Compact Four-way Cassette

Capacity range: 05/07/09/12/15kBTu/h (5 models)

### Medium Static Pressure Duct

Capacity range: 07/09/12/15/18/24/28/32/40/48/56kBTu/h (11 models)

### Medium Static Pressure Duct (Arc Series)

Capacity range: 05/07/09/12/15/18/24kBTu/h (7 models)

### High Static Pressure Duct

Capacity range: 24/28/32/40/48/56kBTu/h (6 models)

### Wall Mounted

Capacity range: 07/09/12/15/18/24/28/32kBTu/h (8 models)

### Ceiling / Floor

Capacity range: 12/15/18/24/28/32/40/48kBTu/h (8 models)

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

## Outdoor Unit Specifications

Model	MDV-V12WDHN1(ArB)	MDV-V18WDHN1(ArB)	MDV-V21WDHN1(ArB)	MDV-V28WDHN1(ArB)	MDV-V36WDHN1(ArB)	MDV-V42WDHN1(ArB)	MDV-V48WDHN1(ArB)	MDV-V56WDHN1(ArB)	MDV-V60WDHN1(ArB)	
Power supply	1 phase, 220-240V, 50/60Hz									
Cooling capacity	kW/kBTu/h	3.5/12	5.3/18	6.2/21	8/27	10/34	12.3/42	14/47	15.5/52	17.5/59
Heating capacity	kW/kBTu/h	3.8/13	5.8/20	6/20.5	9/30	12/41	14/47	16/54	18/61	19.5/66
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity								
	Quantity	Minimum	1	1	1	1	1	1	1	1
Compressor	Quantity	3	3	3	4	6	7	8	9	9
	Type	DC inverter								
Fan motor	Quantity	1								
	Type	DC								
Refrigerant type	Quantity	1								
	Type	R410A								
Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.53/Φ19.1	Φ9.53/Φ19.1
Net dimension (WxHxD)	mm	795 x 555 x 365	795 x 555 x 365	795 x 555 x 365	910 x 712 x 426	910 x 712 x 426	950 x 840 x 440	950 x 840 x 440	950 x 840 x 440	1040 x 865 x 523
Packing size (WxHxD)	mm	915 x 610 x 420	915 x 610 x 420	915 x 610 x 420	1045 x 810 x 485	1045 x 810 x 485	1025 x 950 x 510	1025 x 950 x 510	1025 x 950 x 510	1120 x 980 x 560
Operating temperature range	°C	Cooling: -15~55, Heating: -15~27								