

1. Specifications

Sale Model			MDV-V120W/DRN1	MDV-V140W/DRN1
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz
Cooling	Capacity	kW	12.3	14.0
	Input	kW	3.25	3.95
	EER	kW/ kW	3.78	3.54
Heating	Capacity	kW	13.2	15.4
	Input	kW	3.47	4.16
	COP	kW/ kW	3.80	3.7
Max. input consumption		W	5400	6200
Max. current		A	10	11
Compressor	Model		TNB306FPNMC	TNB306FPNMC
	Type		Rotary	Rotary
	Brand		MITSUBISHI	MITSUBISHI
	Capacity	Btu/h	33720	33720
	Input	W	3010	3010
	Rated current(RLA)	A	9.3	9.3
	Crankcase	W	27	27
	Refrigerant oil	ml	FV50S 870+630ml	FV50S 870+630ml
Outdoor fan motor	Model		WZDK100-38G	WZDK100-38G
	Type		DC motor	DC motor
	Brand		Panasonic	Panasonic
	Insulation class		E	E
	Safe class		IP23	IP23
	Input	W	2 x 100	2 x 100
	Output	W	2 x 85	2 x 85
	Rated current	A	2 x 0.9	2 x 0.9
	Capacitor	uF	/	/
	Speed	r/min	800	800
Outdoor fan	Material		ASG20	ASG20
	Type		Axial fan	Axial fan
	Diameter	mm	508	508
	Height	mm	170	170
Outdoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	mm	22 x 19.05	22 x 19.05
	Fin spacing	mm	1.6	1.6
	Tube outside dia.and type	mm	Φ7.94	Φ7.94
			Inner groove tube	Inner groove tube
	Coil length x height	mm	1276 x 870	1276 x 870
Number of circuits		7	7	
Outdoor air flow		m ³ /h	6000	6000
Outdoor sound level(sound pressure level)		dB(A)	57	57
Outdoor Unit	Dimension(W x H x D)	mm	900 x 1327 x 400	900 x 1327 x 400
	Packing (W x H x D)	mm	1030 x 1456 x 435	1030 x 1456 x 435
	Net/Gross weight	kg	95/106	95/106

Refrigerant	Type		R410A	R410A
	Charged volume	g	3300	3900
Throttle type			Electronic expansion valve	
Design pressure		MPa	4.4/2.6	
Refrigerant piping	Liquid side/ Gas side	mm	φ9.53/φ15.9	φ9.53/φ15.9
	Max. refrigerant pipe length	m	100	100
	Max. difference in level	m	8	8
Connection wiring	Power wiring	mm ²	5 core x2.5	5 core x2.5
	Signal wiring	mm ²	3 core shielded wire x 0.75	3 core shielded wire x 0.75
Ambient temp		°C	(Cooling -15~43) (Heating -15~27)	(Cooling -15~43) (Heating -15~27)

Sale Model			MDV-V160W/DRN1	MDV-V180W/DRN1
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz
Cooling	Capacity	kW	15.5	17.5
	Input	kW	4.52	5.3
	EER	kW/ kW	3.43	3.3
Heating	Capacity	kW	17.0	19.0
	Input	kW	4.77	5.0
	COP	kW/ kW	3.56	3.8
Max. input consumption		W	7100	7000
Max. current		A	12	12.5
Compressor	Model		LNB42FSAMC	LNB42FSAMC
	Type		Rotary	Rotary
	Brand		MITSUBISHI	MITSUBISHI
	Capacity	Btu/h	47700	47700
	Input	W	4240	4270
	Rated current(RLA)	A	12	12
	Crankcase	W	25	25
	Refrigerant oil	ml	FV50S 1400ml	FV50S 1400ml
Outdoor fan motor	Model		WZDK100-38G	WZDK100-38G
	Type		DC motor	DC motor
	Brand		Panasonic	Panasonic
	Insulation class		E	E
	Safe class		IP23	IP23
	Input	W	2 x 100	2 x 100
	Output	W	2 x 85	2 x 85
	Rated current	A	2 x 0.9	2 x 0.9
	Capacitor	uF	/	/
	Speed	r/min	800	800
Outdoor fan	Material		ASG20	ASG20
Outdoor fan	Type		Axial fan	Axial fan
	Diameter	mm	508	508
	Height	mm	170	170
Outdoor coil	Number of rows		2	2.5
	Tube pitch(a)x	mm	25.4 x 22	22 x 19.05

	row pitch(b)			
	Fin spacing	mm	1.6	1.6
	Tube outside dia.and type	mm	Φ7.94	Φ7.94
			Inner groove tube	Inner groove tube
	Coil length x height	mm	1276 x 870	1276 x 870
	Number of circuits		7	12
Outdoor air flow		m ³ /h	6000	6800
Outdoor sound level(sound pressure level)		dB(A)	57	59
Outdoor unit	Dimension (W x H x D)	mm	900 x 1327 x 400	900 x 1327 x 400
	Packing (W x H x D)	mm	1030 x 1456 x 435	1030 x 1456 x 435
	Net/Gross weight	kg	102/113	107/118
Refrigerant	Type		R410A	R410A
	Charged volume	g	3900	4500
Throttle type			Electronic expansion valve	
Design pressure		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.53/Φ19.1	Φ9.53/Φ19.1
	Max. refrigerant pipe length	m	100	100
	Max. difference in level	m	8	8
Connection wiring	Power wiring	mm ²	5 core x2.5	5 core x2.5
	Signal wiring	mm ²	3 core shielded wire x 0.75	3 core shielded wire x 0.75
Ambient temp		℃	(Cooling -15~43) (Heating -15~27)	(Cooling -15~43) (Heating -15~27)

Notes:

1. The cooling conditions: indoor temp.: 27℃DB (80.6°F), 19℃WB (66.2°F) outdoor temp.: 35℃DB (95°F), 24℃WB (75.2°F) equivalent pipe length: 5m drop length: 0m.
2. The heating conditions: indoor temp.: 20℃DB (68°F), 15℃WB (59°F) outdoor temp.: 7℃DB (44.6°F), 6℃WB (42.8°F) equivalent pipe length: 5m drop length: 0m.
3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of *m(1.2m for 120~180 model). During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The aboved datas may be changed without notice for future improvement on quality and performance.