

Arctic Series Mono



Outdoor unit model MDVC-			V4W D2ER8-A	V6W D2ER8-A	V8W D2ER8-A	V10W D2ER8-A	V12W D2ER8-A	V14W D2ER8-A	V16W D2ER8-A	V12W D2BR8-A	V14W D2BR8-A	V16W D2BR8-A	
Power supply		V/Ph/Hz	220-240/1/50							380-415/3/50			
Heating ¹	Capacity	kW	4.20	6.35	8.40	10.0	12.1	14.5	15.9	12.1	14.5	15.9	
	Rated input	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53	
	COP			5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
Heating ²	Capacity	kW	4.30	6.30	8.10	10.0	12.3	14.1	16.0	12.3	14.1	16.0	
	Rated input	kW	1.13	1.70	2.10	2.67	3.32	3.92	4.57	3.32	3.92	4.57	
	COP			3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
Heating ³	Capacity	kW	4.40	6.00	7.50	9.50	11.9	13.8	16.0	11.9	13.8	16.0	
	Rated input	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61	3.90	4.68	5.61	
	COP			2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85
Cooling ⁴	Capacity	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90	12.00	13.50	14.90	
	Rated input	kW	0.82	1.35	1.64	2.18	3.04	3.75	4.38	3.04	3.75	4.38	
	EER			5.50	4.80	5.05	4.55	3.95	3.60	3.40	3.95	3.60	3.40
Cooling ⁵	Capacity	kW	4.70	7.00	7.45	8.20	11.5	12.4	14.0	11.5	12.4	14.0	
	Rated input	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60	4.18	4.96	5.60	
	EER			3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50
Seasonal space heating energy efficiency class ⁶	Water outlet at 35°C	class	A+++										
	Water outlet at 55°C	class	A++										
Refrigerant	Type(GWP)		R32(675)										
	Charged volume	kg	1.40			1.40			1.75				
Sound power Level ⁷	dB		55	58	59	60	65	65	68	65	65	68	
Net dimension (WxHxD)	mm		1295x792x429				1385x945x526						
Packing dimension (WxHxD)	mm		1375x965x475				1465x1120x560						
Net/Gross weight	kg		98/121		121/148			144/170			160/188		
Water pump	Max. pump head	m	9										
Water piping connection	mm		R1"				R5/4"						
Ambient temperature range	Cooling	°C	-5~43										
	Heating	°C	-25~35										
	DHW	°C	-25~43										
LWT setting range	Cooling	°C	5~25										
	Heating	°C	25~65										
	DHW	°C	30~60										
Backup E-heater ⁸	Standard mounted	kW	/										
	Optional	kW	3	3	3/9	3/9	3/9	3/9	3/9	3/9	3/9	3/9	
	Capacity steps		1	1	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	
	Power supply	3kW	V/Ph/Hz	220-240/1/50									
9kW		380-415/3/50											

Notes:

1. Evaporator air in 7°C, 85% R.H., Condenser water in/out 30/35°C

2. Evaporator air in 7°C, 85% R.H., Condenser water in/out 40/45°C

3. Evaporator air in 7°C, 85% R.H., Condenser water in/out 47/55°C

4. Condenser air in 35°C. Evaporator water in/out 23/18°C

5. Condenser air in 35°C. Evaporator water in/out 12/7°C

6. Seasonal space heating energy efficiency class testes in average climate general conditions.

7. Testing standard: EN12102-1.

8. Backup electric heater is built into all models.

For three phase type backup electric heater, 3/6kW can be achieved by changing DIP switch when heat pump is equipped with 9kW. In this case, three phase power supply is needed.

9. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.