

6. Performance Data

6.2 Heating Operation

■ Maximum Heating Capacity (Include defrost effect)

◆ ZHBW056A1 [HM051MR U44]

Outdoor Temperature [°C DB]	Water flow rate 15.81 LPM								Water flow rate 9.9 LPM				Water flow rate 7.9 LPM			
	LWT 30 °C		LWT 35 °C		LWT 40 °C		LWT 45 °C		LWT 50 °C		LWT 55 °C		LWT 60 °C		LWT 65 °C	
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP
-25	5.50	2.02	5.50	1.88	5.50	1.74	5.50	1.60								
-20	5.50	2.57	5.50	2.38	5.50	2.19	5.50	2.00	5.23	1.82						
-15	5.50	2.80	5.50	2.50	5.50	2.45	5.50	2.41	5.23	2.17	5.23	1.93				
-7	5.50	3.59	5.50	3.20	5.50	3.13	5.50	3.05	5.50	2.74	5.50	2.23	5.50	2.11		
-4	5.50	3.88	5.50	3.60	5.50	3.45	5.50	3.29	5.50	2.95	5.50	2.61	5.50	2.27	5.50	1.93
-2	5.50	4.31	5.50	3.80	5.50	3.63	5.50	3.46	5.50	3.11	5.50	2.75	5.50	2.39	5.50	2.03
2	5.50	4.73	5.50	4.20	5.50	4.00	5.50	3.80	5.50	3.41	5.50	3.02	5.50	2.63	5.50	2.24
7	5.50	5.26	5.50	4.70	5.50	4.47	5.50	4.23	5.50	3.80	5.50	3.36	5.50	2.93	5.50	2.49
10	5.50	5.87	5.50	5.41	5.50	4.95	5.50	4.49	5.50	4.03	5.50	3.57	5.50	3.11	5.50	2.64
15	5.50	6.43	5.50	5.92	5.50	5.42	5.50	4.91	5.50	4.41	5.50	3.91	5.50	3.40	5.50	2.90
18	5.50	6.76	5.50	6.23	5.50	5.70	5.50	5.17	5.50	4.64	5.50	4.11	5.50	3.58	5.50	3.05
20	5.50	6.98	5.50	6.43	5.50	5.89	5.50	5.34	5.50	4.79	5.50	4.25	5.50	3.70	5.50	3.15
35	5.50	8.65	5.50	7.97	5.50	7.30	5.50	6.62	5.50	5.95	5.50	5.27	5.50	4.60	5.50	3.92

◆ ZHBW076A1 [HM071MR U44]

Outdoor Temperature [°C DB]	Water flow rate 20.12 LPM								Water flow rate 12.6 LPM				Water flow rate 10.0 LPM			
	LWT 30 °C		LWT 35 °C		LWT 40 °C		LWT 45 °C		LWT 50 °C		LWT 55 °C		LWT 60 °C		LWT 65 °C	
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP
-25	5.85	1.98	5.85	1.84	5.85	1.69	5.85	1.55								
-20	6.43	2.53	6.43	2.34	6.43	2.15	6.43	1.96	6.10	1.76						
-15	7.00	2.77	7.00	2.45	7.00	2.41	7.00	2.36	6.65	2.12	6.65	1.89				
-7	7.00	3.55	7.00	3.15	7.00	3.08	7.00	3.01	7.00	2.70	7.00	2.19	7.00	2.07		
-4	7.00	3.85	7.00	3.58	7.00	3.41	7.00	3.25	7.00	2.91	7.00	2.57	7.00	2.23	7.00	1.89
-2	7.00	4.27	7.00	3.78	7.00	3.60	7.00	3.42	7.00	3.07	7.00	2.71	7.00	2.35	7.00	1.99
2	7.00	4.69	7.00	4.19	7.00	3.98	7.00	3.76	7.00	3.37	7.00	2.98	7.00	2.59	7.00	2.20
7	7.00	5.22	7.00	4.70	7.00	4.45	7.00	4.19	7.00	3.76	7.00	3.32	7.00	2.89	7.00	2.45
10	7.00	5.83	7.00	5.37	7.00	4.91	7.00	4.45	7.00	3.99	7.00	3.53	7.00	3.06	7.00	2.60
15	7.00	6.38	7.00	5.88	7.00	5.38	7.00	4.87	7.00	4.37	7.00	3.87	7.00	3.36	7.00	2.86
18	7.00	6.72	7.00	6.19	7.00	5.66	7.00	5.13	7.00	4.60	7.00	4.07	7.00	3.54	7.00	3.01
20	7.00	6.94	7.00	6.39	7.00	5.85	7.00	5.30	7.00	4.75	7.00	4.21	7.00	3.66	7.00	3.11
35	7.00	8.60	7.00	7.93	7.00	7.25	7.00	6.58	7.00	5.90	7.00	5.23	7.00	4.55	7.00	3.88

◆ ZHBW096A1 [HM091MR U44]

Outdoor Temperature [°C DB]	Water flow rate 25.87. LPM								Water flow rate 16.2 LPM				Water flow rate 12.9 LPM			
	LWT 30 °C		LWT 35 °C		LWT 40 °C		LWT 45 °C		LWT 50 °C		LWT 55 °C		LWT 60 °C		LWT 65 °C	
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP
-25	6.20	1.97	6.20	1.82	6.20	1.68	6.20	1.53								
-20	7.60	2.50	7.60	2.31	7.60	2.12	7.60	1.93	7.22	1.74						
-15	9.00	2.73	9.00	2.40	9.00	2.36	9.00	2.32	8.55	2.09	8.55	1.85				
-7	9.00	3.50	9.00	3.10	9.00	3.03	9.00	2.96	9.00	2.65	9.00	2.17	9.00	2.03		
-4	9.00	3.79	9.00	3.50	9.00	3.35	9.00	3.20	9.00	2.86	9.00	2.52	9.00	2.19	9.00	1.85
-2	9.00	4.20	9.00	3.70	9.00	3.53	9.00	3.36	9.00	3.01	9.00	2.66	9.00	2.30	9.00	1.95
2	9.00	4.61	9.00	4.10	9.00	3.90	9.00	3.70	9.00	3.31	9.00	2.92	9.00	2.54	9.00	2.15
7	9.00	5.13	9.00	4.60	9.00	4.36	9.00	4.11	9.00	3.68	9.00	3.26	9.00	2.83	9.00	2.40
10	9.00	5.72	9.00	5.27	9.00	4.82	9.00	4.36	9.00	3.91	9.00	3.46	9.00	3.00	9.00	2.55
15	9.00	6.26	9.00	5.77	9.00	5.27	9.00	4.78	9.00	4.28	9.00	3.79	9.00	3.29	9.00	2.80
18	9.00	6.59	9.00	6.07	9.00	5.55	9.00	5.03	9.00	4.51	9.00	3.99	9.00	3.47	9.00	2.95
20	9.00	6.80	9.00	6.27	9.00	5.73	9.00	5.20	9.00	4.66	9.00	4.12	9.00	3.59	9.00	3.05
35	9.00	8.43	9.00	7.77	9.00	7.11	9.00	6.44	9.00	5.78	9.00	5.12	9.00	4.46	9.00	3.80

Note

1. DB : Dry bulb temperature(°C), LWT : Leaving water temperature(°C), LPM : Liter per minute (ℓ/min)
2. TC : Total capacity(kW), EER: Energy efficiency ratio(kW/kW), COP : Coefficient of performance (kW/kW)
3. Direct interpolation is permissible. Do not extrapolate.
4. Measuring procedure follows EN14511.
 - Rated values are based on standard conditions, and it can be found on specifications.
 - Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 - In accordance with the test standard(or nations), the results may vary.
5. The Shaded areas are not guaranteed continuous operation.