

6. Performance Data

6.1 Cooling Operation

■ Maximum Cooling Capacity

◆ ZHBW056A1 [HM051MR U44]

Outdoor Temperature [°C DB]	Water flow rate 15.81 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	5.50	5.27	5.50	5.97	5.50	6.45	5.50	6.84	5.50	7.43	5.50	7.83	5.50	8.22
20	5.50	4.48	5.50	5.05	5.50	5.44	5.50	5.76	5.50	6.24	5.50	6.56	5.50	6.88
30	5.50	3.18	5.50	3.70	5.50	4.07	5.50	4.37	5.50	4.81	5.50	5.11	5.50	5.40
35	5.50	3.30	5.50	3.67	5.50	3.92	5.50	4.13	5.50	4.70	5.50	4.65	5.50	4.86
40	5.29	2.66	5.32	3.00	5.36	3.24	5.38	3.44	5.41	3.73	5.43	3.93	5.45	4.13
45	5.09	2.01	5.15	2.34	5.21	2.56	5.25	2.75	5.31	3.02	5.36	3.21	5.40	3.39

◆ ZHBW076A1 [HM071MR U44]

Outdoor Temperature [°C DB]	Water flow rate 20.12 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	7.00	4.91	7.00	5.65	7.00	6.17	7.00	6.59	7.00	7.21	7.00	7.63	7.00	8.05
20	7.00	4.23	7.00	4.82	7.00	5.23	7.00	5.56	7.00	6.07	7.00	6.40	7.00	6.74
30	7.00	3.54	7.00	3.98	7.00	4.29	7.00	4.54	7.00	4.92	7.00	5.17	7.00	5.42
35	7.00	3.20	7.00	3.57	7.00	3.82	7.00	4.03	7.00	4.50	7.00	4.55	7.00	4.76
40	6.36	2.60	6.45	2.94	6.55	3.17	6.61	3.36	6.71	3.65	6.77	3.84	6.84	4.04
45	5.71	1.99	5.82	2.30	5.92	2.52	5.99	2.70	6.10	2.96	6.17	3.14	6.24	3.31

◆ ZHBW096A1 [HM091MR U44]

Outdoor Temperature [°C DB]	Water flow rate 25.87 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	9.00	4.55	9.00	5.34	9.00	5.89	9.00	6.33	9.00	7.00	9.00	7.44	9.00	7.89
20	9.00	3.97	9.00	4.59	9.00	5.02	9.00	5.37	9.00	5.90	9.00	6.25	9.00	6.60
30	9.00	3.39	9.00	3.84	9.00	4.16	9.00	4.41	9.00	4.79	9.00	5.05	9.00	5.31
35	9.00	3.10	9.00	3.47	9.00	3.72	9.00	3.93	9.00	4.20	9.00	4.45	9.00	4.66
40	7.66	2.54	7.66	2.87	7.65	3.10	7.65	3.29	7.65	3.57	7.65	3.76	7.65	3.95
45	6.31	1.98	6.35	2.27	6.39	2.48	6.42	2.65	6.45	2.90	6.48	3.07	6.51	3.23

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.

6. Performance Data

◆ ZHBW126A1 [HM121MR U34] / ZHBW128A1 [HM123MR U34]

Outdoor Temperature [°C DB]	Water flow rate 34.5 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	12.00	5.22	12.00	5.60	12.00	5.87	12.00	6.09	12.00	6.42	12.00	6.64	12.00	6.85
20	12.00	4.45	12.00	4.78	12.00	5.02	12.00	5.20	12.00	5.49	12.00	5.67	12.00	5.86
30	12.00	3.68	12.00	3.96	12.00	4.16	12.00	4.32	12.00	4.55	12.00	4.71	12.00	4.87
35	12.00	3.30	12.00	3.55	12.00	3.73	12.00	3.87	12.00	4.75	12.00	4.23	12.00	4.38
40	11.05	2.81	11.19	3.06	11.33	3.23	11.43	3.37	11.57	3.58	11.67	3.72	11.76	3.85
45	10.10	2.33	10.37	2.57	10.64	2.73	10.83	2.86	11.10	3.07	11.28	3.20	11.46	3.33

◆ ZHBW146A1 [HM141MR U34] / ZHBW148A1 [HM143MR U34]

Outdoor Temperature [°C DB]	Water flow rate 40.3 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	12.50	4.93	12.80	5.33	13.10	5.61	13.30	5.84	13.60	6.18	13.80	6.40	14.00	6.63
20	14.00	4.28	14.00	4.61	14.00	4.84	14.00	5.03	14.00	5.31	14.00	5.50	14.00	5.69
30	14.00	3.63	14.00	3.89	14.00	4.08	14.00	4.23	14.00	4.45	14.00	4.60	14.00	4.75
35	14.00	3.30	14.00	3.53	14.00	3.69	14.00	3.82	14.00	4.30	14.00	4.15	14.00	4.28
40	12.35	2.81	12.60	3.04	12.84	3.20	13.01	3.32	13.26	3.52	13.42	3.64	13.59	3.77
45	10.69	2.32	11.19	2.54	11.69	2.70	12.02	2.82	12.51	3.01	12.84	3.14	13.17	3.26

◆ ZHBW166A1 [HM161MR U34] / ZHBW168A1 [HM163MR U34]

Outdoor Temperature [°C DB]	Water flow rate 46.0 LPM													
	LWT 7 °C		LWT 10 °C		LWT 13 °C		LWT 15 °C		LWT 18 °C		LWT 20 °C		LWT 22 °C	
	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER	TC	EER
10	13.00	4.64	13.60	5.05	14.20	5.35	14.60	5.58	15.20	5.94	15.60	6.17	16.00	6.41
20	16.00	4.02	16.00	4.37	16.00	4.61	16.00	4.81	16.00	5.10	16.00	5.30	16.00	5.50
30	16.00	3.41	16.00	3.68	16.00	3.88	16.00	4.03	16.00	4.27	16.00	4.42	16.00	4.58
35	16.00	3.10	16.00	3.34	16.00	3.51	16.00	3.65	16.00	4.00	16.00	3.99	16.00	4.12
40	13.60	2.70	13.96	2.92	14.32	3.08	14.56	3.20	14.92	3.39	15.16	3.52	15.40	3.64
45	11.20	2.29	11.76	2.50	12.32	2.64	12.69	2.76	13.25	2.93	13.62	3.05	14.00	3.16

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.

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)
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3. Direct interpolation is permissible. Do not extrapolate.
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5. The Shaded areas are not guaranteed continuous operation.

6. Performance Data

◆ ZHBW126A1 [HM121MR U34] / ZHBW128A1 [HM123MR U34]

Outdoor Temperature [°C DB]	Water flow rate 34.5 LPM								Water flow rate 21.6 LPM				Water flow rate 17.3 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	9.50	2.13	9.50	1.97	9.50	1.81	9.50	1.65								
-20	10.75	2.68	10.75	2.47	10.75	2.27	10.75	2.07	10.21	1.87						
-15	12.00	2.90	12.00	2.55	12.00	2.52	12.00	2.49	11.50	2.24	11.50	2.00				
-7	12.00	3.69	12.00	3.40	12.00	3.28	12.00	3.16	12.00	2.85	12.00	2.53	12.00	2.24		
-4	12.00	3.98	12.00	3.73	12.00	3.57	12.00	3.41	12.00	3.07	12.00	2.74	12.00	2.40	12.00	2.06
-2	12.00	4.18	12.00	3.78	12.00	3.68	12.00	3.58	12.00	3.22	12.00	2.87	12.00	2.51	12.00	2.16
2	12.00	4.57	12.00	4.19	12.00	4.05	12.00	3.91	12.00	3.52	12.00	3.14	12.00	2.75	12.00	2.36
7	12.00	5.34	12.00	4.90	12.00	4.62	12.00	4.33	12.00	3.90	12.00	3.47	12.00	3.04	12.00	2.61
10	12.00	5.95	12.00	5.50	12.00	5.04	12.00	4.58	12.00	4.13	12.00	3.67	12.00	3.21	12.00	2.76
15	12.00	6.50	12.00	6.00	12.00	5.50	12.00	5.00	12.00	4.50	12.00	4.00	12.00	3.50	12.00	3.01
18	12.00	6.83	12.00	6.30	12.00	5.78	12.00	5.25	12.00	4.73	12.00	4.20	12.00	3.68	12.00	3.15
20	12.00	7.04	12.00	6.50	12.00	5.96	12.00	5.42	12.00	4.88	12.00	4.34	12.00	3.80	12.00	3.25
35	12.00	8.68	12.00	8.01	12.00	7.34	12.00	6.68	12.00	6.01	12.00	5.34	12.00	4.67	12.00	4.00

◆ ZHBW146A1 [HM141MR U34] / ZHBW148A1 [HM143MR U34]

Outdoor Temperature [°C DB]	Water flow rate 40.25 LPM								Water flow rate 25.2 LPM				Water flow rate 20.1 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	10.00	2.09	10.00	1.93	10.00	1.78	10.00	1.62								
-20	12.00	2.62	12.00	2.42	12.00	2.23	12.00	2.03	11.40	1.83						
-15	14.00	2.84	14.00	2.50	14.00	2.47	14.00	2.44	13.30	2.19	13.30	1.95				
-7	14.00	3.61	14.00	3.34	14.00	3.21	14.00	3.09	14.00	2.78	14.00	2.47	14.00	2.16		
-4	14.00	3.90	14.00	3.65	14.00	3.49	14.00	3.33	14.00	3.00	14.00	2.67	14.00	2.33	14.00	2.00
-2	14.00	4.09	14.00	3.86	14.00	3.68	14.00	3.50	14.00	3.15	14.00	2.80	14.00	2.45	14.00	2.10
2	14.00	4.73	14.00	4.28	14.00	4.05	14.00	3.83	14.00	3.45	14.00	3.06	14.00	2.68	14.00	2.30
7	14.00	5.24	14.00	4.80	14.00	4.52	14.00	4.24	14.00	3.82	14.00	3.40	14.00	2.97	14.00	2.55
10	14.00	5.83	14.00	5.39	14.00	4.94	14.00	4.49	14.00	4.04	14.00	3.60	14.00	3.15	14.00	2.70
15	14.00	6.37	14.00	5.88	14.00	5.39	14.00	4.90	14.00	4.42	14.00	3.93	14.00	3.44	14.00	2.95
18	14.00	6.69	14.00	6.18	14.00	5.67	14.00	5.15	14.00	4.64	14.00	4.13	14.00	3.61	14.00	3.10
20	14.00	6.91	14.00	6.38	14.00	5.85	14.00	5.32	14.00	4.79	14.00	4.26	14.00	3.73	14.00	3.20
35	14.00	8.52	14.00	7.86	14.00	7.21	14.00	6.56	14.00	5.91	14.00	5.25	14.00	4.60	14.00	3.95

◆ ZHBW166A1 [HM161MR U34] / ZHBW168A1 [HM163MR U34]

Outdoor Temperature [°C DB]	Water flow rate 46.0 LPM								Water flow rate 28.8 LPM				Water flow rate 23.0 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	10.50	1.96	10.50	1.84	10.50	1.72	10.50	1.60								
-20	13.25	2.48	13.25	2.32	13.25	2.15	13.25	1.98	12.59	1.82						
-15	16.00	2.71	14.40	2.45	14.40	2.41	14.40	2.37	13.68	2.16	13.68	1.94				
-7	16.00	3.46	16.00	3.27	16.00	3.13	16.00	2.98	16.00	2.70	16.00	2.41	16.00	2.12		
-4	16.00	3.75	16.00	3.58	16.00	3.40	16.00	3.22	16.00	2.90	16.00	2.58	16.00	2.27	16.00	1.95
-2	16.00	4.16	16.00	3.78	16.00	3.58	16.00	3.38	16.00	3.05	16.00	2.72	16.00	2.38	16.00	2.05
2	16.00	4.57	16.00	4.19	16.00	3.95	16.00	3.71	16.00	3.35	16.00	2.98	16.00	2.62	16.00	2.25
7	16.00	5.08	16.00	4.70	16.00	4.41	16.00	4.13	16.00	3.72	16.00	3.31	16.00	2.91	16.00	2.50
10	16.00	5.67	16.00	5.24	16.00	4.80	16.00	4.37	16.00	3.94	16.00	3.51	16.00	3.08	16.00	2.65
15	16.00	6.20	16.00	5.73	16.00	5.26	16.00	4.79	16.00	4.32	16.00	3.84	16.00	3.37	16.00	2.90
18	16.00	6.52	16.00	6.03	16.00	5.53	16.00	5.04	16.00	4.54	16.00	4.04	16.00	3.55	16.00	3.05
20	16.00	6.74	16.00	6.23	16.00	5.71	16.00	5.20	16.00	4.69	16.00	4.18	16.00	3.66	16.00	3.15
35	16.00	8.35	16.00	7.71	16.00	7.08	16.00	6.44	16.00	5.81	16.00	5.17	16.00	4.54	16.00	3.90

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.