

## 6. Performance Data

### 6.2 Heating Operation

#### 6.2.1 Combination with Hydro Box type

##### ■ Maximum Heating Capacity (Include defrost effect)

##### ◆ ZHUW056A0 [HU051MR U44] + ZHNW09606A1 [HN091MR NK5]

Outdoor Temperature [°C DB]	Water flow rate 15.8 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	4.02	1.96	3.90	1.84	3.78	1.72	3.66	1.60								
-20	4.64	2.59	4.51	2.07	4.38	1.90	4.26	1.74	4.13	1.57						
-15	5.26	2.51	5.12	2.30	4.99	2.09	4.85	1.88	4.72	1.66	4.58	1.45				
-7	5.50	2.88	5.50	2.70	5.50	2.53	5.50	2.35	5.50	2.18	5.50	2.00	5.50	1.83		
-4	5.50	3.18	5.50	2.97	5.50	2.75	5.50	2.53	5.50	2.31	5.50	2.10	5.50	1.88		
-2	5.50	3.41	5.50	3.14	5.50	2.88	5.50	2.61	5.50	2.34	5.50	2.08	5.50	1.81		
2	5.50	3.79	5.50	3.50	5.50	3.21	5.50	2.93	5.50	2.64	5.50	2.36	5.50	2.07	5.50	1.79
7	5.50	5.37	5.50	4.90	5.50	4.43	5.50	3.97	5.50	3.50	5.50	3.03	5.50	2.57	5.50	2.10
10	5.50	5.84	5.50	5.34	5.50	4.83	5.50	4.32	5.50	3.81	5.50	3.30	5.50	2.79	5.50	2.29
15	5.50	6.64	5.50	6.06	5.50	5.48	5.50	4.91	5.50	4.33	5.50	3.75	5.50	3.17	5.50	2.60
18	5.50	7.11	5.50	6.50	5.50	5.88	5.50	5.26	5.50	4.64	5.50	4.02	5.50	3.40	5.50	2.78
20	5.50	7.43	5.50	6.79	5.50	6.14	5.50	5.49	5.50	4.85	5.50	4.20	5.50	3.55	5.50	2.91
35	5.50	9.81	5.50	8.96	5.50	8.11	5.50	7.25	5.50	6.40	5.50	5.55	5.50	4.69	5.50	3.84

##### ◆ ZHUW076A0 [HU071MR U44] + ZHNW09606A1 [HN091MR NK5]

Outdoor Temperature [°C DB]	Water flow rate 20.1 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	5.00	1.95	4.85	1.78	4.71	1.62	4.56	1.45								
-20	5.58	2.52	5.43	2.02	5.27	1.84	5.11	1.66	4.95	1.49						
-15	6.17	2.44	6.00	2.25	5.83	2.06	5.66	1.88	5.49	1.69	5.32	1.50				
-7	7.00	2.76	7.00	2.72	7.00	2.44	7.00	2.28	7.00	2.11	7.00	2.06	7.00	1.79		
-4	7.00	3.07	7.00	2.87	7.00	2.66	7.00	2.45	7.00	2.24	7.00	2.08	7.00	1.83		
-2	7.00	3.27	7.00	3.04	7.00	2.82	7.00	2.59	7.00	2.37	7.00	2.14	7.00	2.06		
2	7.00	3.65	7.00	3.40	7.00	3.15	7.00	2.90	7.00	2.66	7.00	2.41	7.00	2.16	7.00	1.91
7	7.00	5.35	7.00	4.90	7.00	4.45	7.00	4.00	7.00	3.55	7.00	3.10	7.00	2.65	7.00	2.20
10	7.00	5.77	7.00	5.28	7.00	4.80	7.00	4.31	7.00	3.83	7.00	3.34	7.00	2.86	7.00	2.37
15	7.00	6.46	7.00	5.92	7.00	5.37	7.00	4.83	7.00	4.29	7.00	3.74	7.00	3.20	7.00	2.66
18	7.00	6.88	7.00	6.30	7.00	5.72	7.00	5.14	7.00	4.56	7.00	3.99	7.00	3.41	7.00	2.83
20	7.00	7.16	7.00	6.55	7.00	5.95	7.00	5.35	7.00	4.75	7.00	4.15	7.00	3.54	7.00	2.94
35	7.00	9.24	7.00	8.46	7.00	7.69	7.00	6.91	7.00	6.13	7.00	5.35	7.00	4.58	7.00	3.80

##### ◆ ZHUW096A0 [HU091MR U44] + ZHNW09606A1 [HN091MR NK5]

Outdoor Temperature [°C DB]	Water flow rate 25.9 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	6.40	1.85	6.20	1.70	6.00	1.55	5.80	1.40								
-20	7.23	2.45	7.00	1.96	6.77	1.80	6.54	1.64	6.31	1.48						
-15	8.06	2.39	7.80	2.22	7.54	2.05	7.28	1.89	7.02	1.72	6.76	1.55				
-7	9.00	2.75	9.00	2.71	9.00	2.35	9.00	2.20	9.00	2.05	9.00	1.90	9.00	1.75		
-4	9.00	2.98	9.00	2.78	9.00	2.58	9.00	2.38	9.00	2.18	9.00	1.98	9.00	1.78		
-2	9.00	3.16	9.00	2.97	9.00	2.78	9.00	2.59	9.00	2.40	9.00	2.21	9.00	2.02		
2	9.00	3.57	9.00	3.35	9.00	3.13	9.00	2.91	9.00	2.69	9.00	2.47	9.00	2.25	9.00	2.04
7	9.00	5.04	9.00	4.65	9.00	4.26	9.00	3.87	9.00	3.48	9.00	3.08	9.00	2.69	9.00	2.30
10	9.00	5.39	9.00	4.97	9.00	4.55	9.00	4.13	9.00	3.71	9.00	3.30	9.00	2.88	9.00	2.46
15	9.00	5.97	9.00	5.50	9.00	5.04	9.00	4.58	9.00	4.11	9.00	3.65	9.00	3.19	9.00	2.72
18	9.00	6.32	9.00	5.83	9.00	5.33	9.00	4.84	9.00	4.35	9.00	3.86	9.00	3.37	9.00	2.88
20	9.00	6.55	9.00	6.04	9.00	5.53	9.00	5.02	9.00	4.51	9.00	4.00	9.00	3.50	9.00	2.99
35	9.00	8.29	9.00	7.64	9.00	7.00	9.00	6.35	9.00	5.71	9.00	5.07	9.00	4.42	9.00	3.78

**Note**

1. DB : Dry bulb temperature(°C), LWT : Leaving water temperature(°C), LPM : Liter per minute (ℓ/min)
2. TC : Total capacity(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.