

7. Capacity Tables

7.1 Heating Operation

■ Maximum Capacity (Include defrost effect)

◆ FHBW098X0 [HM093HFX UB60]

Outdoor Temp. [°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		LWT 70°C		LWT 75 °C			
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP		
-25	7.84	2.45	7.56	2.25	7.30	2.04	7.07	1.84	6.86	1.62	6.37	1.33										
-20	9.00	2.79	8.80	2.56	8.63	2.36	8.52	2.15	8.51	1.94	8.27	1.70	6.77	1.42								
-15	9.00	3.17	9.00	2.95	9.00	2.72	9.00	2.50	9.00	2.33	9.00	2.21	8.71	1.78	7.17	1.49						
-7	9.00	3.78	9.00	3.44	9.00	3.22	9.00	3.02	9.00	2.80	9.00	2.60	9.00	2.29	9.00	2.01	8.99	1.78				
-4	9.00	4.00	9.00	3.64	9.00	3.43	9.00	3.19	9.00	2.98	9.00	2.74	9.00	2.47	9.00	2.21	9.00	1.94	8.91	1.77		
-2	9.00	4.16	9.00	3.79	9.00	3.56	9.00	3.33	9.00	3.08	9.00	2.84	9.00	2.58	9.00	2.33	9.00	2.07	9.00	1.85		
2	9.00	4.82	9.00	3.88	9.00	3.94	9.00	3.67	9.00	3.40	9.00	3.09	9.00	2.72	8.08	1.68	6.84	1.44	6.36	1.34		
7	9.00	5.56	9.00	4.90	9.00	4.47	9.00	4.15	9.00	3.80	9.00	3.52	9.00	2.99	9.00	2.13	8.03	1.74	7.67	1.60		
10	9.00	6.00	9.00	5.19	9.00	4.81	9.00	4.44	9.00	4.05	9.00	3.64	9.00	3.13	9.00	2.35	9.00	2.05	8.95	1.82		
15	9.00	6.59	9.00	5.90	9.00	5.39	9.00	4.92	9.00	4.46	9.00	3.98	9.00	3.51	9.00	2.67	9.00	2.49	9.00	2.25		
18	9.00	6.94	9.00	6.28	9.00	5.73	9.00	5.22	9.00	4.71	9.00	4.15	9.00	3.74	9.00	2.90	9.00	2.66	9.00	2.37		
20	9.00	7.17	9.00	6.54	9.00	5.95	9.00	5.42	9.00	4.89	9.00	4.36	9.00	3.88	9.00	3.05	9.00	2.78	9.00	2.46		
35					9.00	7.66	9.00	6.71	9.00	6.11	9.00	5.51	9.00	4.92	9.00	4.32	9.00	3.63	9.00	3.06		

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.

7. Capacity Tables

◆ FHBW126B0 [HM121HF UB60], FHBW128B0 [HM123HF UB60]

Outdoor Temp. [°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		LWT 70 °C		LWT 75 °C			
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP		
-25	8.36	2.42	8.07	2.23	7.79	2.02	7.54	1.82	7.32	1.60	6.37	1.33										
-20	9.60	2.76	9.39	2.53	9.20	2.33	9.09	2.13	9.08	1.92	8.27	1.70	6.77	1.42								
-15	10.84	3.09	10.69	2.88	10.55	2.66	10.55	2.44	10.84	2.27	10.76	2.14	8.71	1.78	7.17	1.49						
-7	12.00	3.62	12.00	3.30	12.00	3.08	12.00	2.88	12.00	2.66	12.00	2.48	11.27	2.19	10.00	1.97	8.99	1.78				
-4	12.00	3.84	12.00	3.49	12.00	3.29	12.00	3.05	12.00	2.84	12.00	2.60	12.00	2.35	10.88	2.13	9.65	1.91	8.91	1.77		
-2	12.00	3.98	12.00	3.63	12.00	3.41	12.00	3.19	12.00	2.95	12.00	2.70	12.00	2.45	11.45	2.22	10.29	2.01	9.32	1.84		
2	12.00	4.62	12.00	3.72	12.00	3.78	12.00	3.52	12.00	3.26	12.00	2.95	12.00	2.59	8.08	1.68	6.84	1.44	6.36	1.34		
7	12.00	5.32	12.00	4.70	12.00	4.28	12.00	3.97	12.00	3.64	12.00	3.37	12.00	2.86	10.28	2.08	8.34	1.73	7.67	1.60		
10	12.00	5.74	12.00	4.97	12.00	4.61	12.00	4.25	12.00	3.88	12.00	3.48	12.00	3.00	11.20	2.28	9.90	2.02	8.95	1.82		
15	12.00	6.31	12.00	5.65	12.00	5.16	12.00	4.72	12.00	4.27	12.00	3.81	12.00	3.36	12.00	2.55	12.00	2.37	11.09	2.17		
18	12.00	6.65	12.00	6.02	12.00	5.48	12.00	5.00	12.00	4.51	12.00	3.97	12.00	3.58	12.00	2.78	12.00	2.54	11.69	2.26		
20	12.00	6.87	12.00	6.26	12.00	5.70	12.00	5.19	12.00	4.68	12.00	4.17	12.00	3.72	12.00	2.93	12.00	2.65	12.00	2.32		
35					12.00	7.33	12.00	6.42	12.00	5.85	12.00	5.28	12.00	4.71	12.00	4.14	12.00	3.46	12.00	2.90		

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.

7. Capacity Tables

◆ FHBW146B0 [HM141HF UB60], FHBW148B0 [HM143HF UB60]

Outdoor Temp. [°C DB]	Water flow rate 40.3 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		LWT 70 °C		LWT 75 °C			
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP		
-25	8.88	2.40	8.57	2.20	8.28	2.00	8.01	1.80	7.78	1.59	6.37	1.33										
-20	10.20	2.73	9.97	2.50	9.78	2.31	9.66	2.11	9.48	1.91	8.27	1.70	6.77	1.42								
-15	12.06	3.03	11.99	2.82	11.79	2.60	11.59	2.40	11.29	2.25	10.76	2.14	8.71	1.78	7.17	1.49						
-7	14.00	3.51	14.00	3.19	13.82	2.99	13.63	2.80	13.45	2.60	12.58	2.45	11.27	2.19	10.00	1.97	8.99	1.78				
-4	14.00	3.72	14.00	3.39	13.90	3.20	13.83	2.96	13.83	2.76	13.23	2.55	12.06	2.34	10.88	2.13	9.65	1.91	8.91	1.77		
-2	14.00	3.86	14.00	3.52	13.96	3.31	13.95	3.10	14.00	2.85	13.71	2.62	12.59	2.42	11.45	2.22	10.29	2.01	9.32	1.84		
2	14.00	4.48	14.00	3.61	14.00	3.67	14.00	3.41	14.00	3.16	14.00	2.86	13.16	2.54	8.08	1.68	6.84	1.44	6.36	1.34		
7	14.00	5.16	14.00	4.50	14.00	4.16	14.00	3.85	14.00	3.54	14.00	3.27	14.00	2.78	10.28	2.08	8.34	1.73	7.67	1.60		
10	14.00	5.57	14.00	4.82	14.00	4.48	14.00	4.12	14.00	3.76	14.00	3.38	14.00	2.91	11.20	2.28	9.90	2.02	8.95	1.82		
15	14.00	6.12	14.00	5.48	14.00	5.01	14.00	4.58	14.00	4.14	14.00	3.70	14.00	3.26	12.72	2.53	12.02	2.37	11.09	2.17		
18	14.00	6.45	14.00	5.84	14.00	5.32	14.00	4.85	14.00	4.38	14.00	3.86	14.00	3.47	13.82	2.70	12.89	2.50	11.69	2.26		
20	14.00	6.67	14.00	6.08	14.00	5.53	14.00	5.04	14.00	4.54	14.00	4.05	14.00	3.61	14.00	2.84	13.47	2.59	12.09	2.32		
35					14.00	7.12	14.00	6.23	14.00	5.68	14.00	5.12	14.00	4.57	14.00	4.01	14.00	3.34	12.80	2.85		

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.

7. Capacity Tables

◆ FHBW166B0 [HM161HF UB60], FHBW168B0 [HM163HF UB60]

Outdoor Temp. [°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		LWT 70 °C		LWT 75 °C	
	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP	TC	COP
-25	9.41	2.37	9.08	2.18	8.76	1.98	8.48	1.78	7.81	1.59	6.37	1.33								
-20	10.80	2.70	10.56	2.48	10.35	2.28	10.23	2.09	9.48	1.91	8.27	1.70	6.77	1.42						
-15	13.36	2.96	13.28	2.75	12.74	2.56	12.15	2.38	11.29	2.25	10.76	2.14	8.71	1.78	7.17	1.49				
-7	16.00	3.39	16.00	3.09	15.17	2.92	14.35	2.77	13.52	2.59	12.58	2.45	11.27	2.19	10.00	1.97	8.99	1.78		
-4	16.00	3.61	16.00	3.28	15.43	3.12	14.85	2.91	14.29	2.74	13.23	2.55	12.06	2.34	10.88	2.13	9.65	1.91	8.91	1.77
-2	16.00	3.75	16.00	3.41	15.69	3.22	15.34	3.03	14.81	2.82	13.71	2.62	12.59	2.42	11.45	2.22	10.29	2.01	9.32	1.84
2	16.00	4.34	16.00	3.50	16.00	3.55	16.00	3.31	16.00	3.06	14.84	2.82	13.16	2.54	8.08	1.68	6.84	1.44	6.36	1.34
7	16.00	5.01	16.00	4.30	16.00	4.03	16.00	3.74	16.00	3.43	16.00	3.17	14.25	2.77	10.28	2.08	8.34	1.73	7.67	1.60
10	16.00	5.41	16.00	4.68	16.00	4.34	16.00	4.00	16.00	3.65	16.00	3.28	14.92	2.87	11.20	2.28	9.90	2.02	8.95	1.82
15	16.00	5.94	16.00	5.32	16.00	4.86	16.00	4.44	16.00	4.02	16.00	3.58	16.00	3.16	12.72	2.53	12.02	2.37	11.09	2.17
18	16.00	6.25	16.00	5.66	16.00	5.16	16.00	4.71	16.00	4.25	16.00	3.74	16.00	3.37	13.82	2.70	12.89	2.50	11.69	2.26
20	16.00	6.47	16.00	5.90	16.00	5.37	16.00	4.88	16.00	4.40	16.00	3.93	16.00	3.50	14.56	2.81	13.47	2.59	12.09	2.32
35					16.00	6.90	16.00	6.05	16.00	5.51	16.00	4.97	16.00	4.43	16.00	3.89	14.40	3.32	12.80	2.85

Note

- DB : Dry bulb temperature(°C), LWT : Leaving water temperature(°C), LPM : Liter per minute (ℓ /min)
- TC : Total capacity(kW), EER: Energy efficiency ratio(kW/kW), COP : Coefficient of performance (kW/kW)
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