

4-5. Capacity Tables

▼Outdoor unit **HWS-P804HR-E1**
 Hydro unit **HWS-P804XWH**-E1**

Rated heating capacity and power input

Rated condition LWT=35°C dT=5deg	Capacity	kW	8.0
	Power input	kW	1.68
	COP	W/W	4.76
	Rated water flow rate	ℓ/min	22.9

* Rated heating capacity and power input are the data at rated compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%
 LWT : Leaving water temperature (°C)
 dT : Delta temperature (deg)
 Leaving water temperature - return water temperature

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Heating average capacity and power input

Capacity (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	4.71	4.62	4.19	—	—	—	—
	-20	6.04	5.94	5.49	5.04	—	—	—
	-15	7.37	7.26	6.79	6.31	5.84	—	—
	-7	9.50	9.38	8.87	8.36	7.84	7.33	—
	-2	10.97	10.69	10.03	9.36	8.70	8.04	7.37
	2	12.14	11.74	10.96	10.17	9.39	8.60	7.82
	7	15.20	13.87	15.46	14.00	12.54	11.08	9.62
	10	19.69	18.21	16.60	15.00	13.39	11.79	10.18
	12	20.61	19.06	17.36	15.66	13.96	12.26	—
	15	21.99	20.35	18.50	16.66	14.81	12.97	—
20	24.29	22.49	20.41	18.32	16.24	14.15	—	

Power input (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	2.82	2.94	3.06	—	—	—	—
	-20	3.06	3.17	3.29	3.44	—	—	—
	-15	3.23	3.33	3.45	3.59	3.77	—	—
	-7	3.43	3.52	3.62	3.75	3.90	4.09	—
	-2	3.43	3.54	3.62	3.70	3.81	3.95	4.11
	2	3.43	3.56	3.61	3.68	3.75	3.85	3.96
	7	3.64	3.74	4.22	4.20	4.17	4.13	4.08
	10	4.06	4.09	4.07	4.05	4.02	3.98	3.94
	12	3.97	4.00	3.98	3.96	3.93	3.90	—
	15	3.86	3.89	3.87	3.85	3.82	3.79	—
20	3.71	3.74	3.73	3.70	3.68	3.65	—	

COP		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	1.67	1.57	1.37	—	—	—	—
	-20	1.98	1.88	1.67	1.46	—	—	—
	-15	2.28	2.18	1.97	1.76	1.55	—	—
	-7	2.77	2.67	2.45	2.23	2.01	1.79	—
	-2	3.20	3.02	2.77	2.53	2.28	2.04	1.79
	2	3.54	3.30	3.03	2.77	2.50	2.24	1.97
	7	4.18	3.70	3.66	3.33	3.01	2.68	2.36
	10	4.85	4.45	4.08	3.71	3.33	2.96	2.59
	12	5.19	4.76	4.36	3.95	3.55	3.14	—
	15	5.70	5.23	4.78	4.33	3.87	3.42	—
20	6.55	6.01	5.48	4.95	4.41	3.88	—	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Heating peak capacity and power input

Capacity (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	6.81	6.18	5.79	—	—	—	—
	-20	8.35	7.77	7.25	6.72	—	—	—
	-15	9.89	9.37	8.71	8.04	7.38	—	—
	-7	12.35	11.92	11.04	10.16	9.28	8.40	—
	-2	14.45	13.74	12.65	11.56	10.48	9.39	8.30
	2	16.14	15.19	13.94	12.69	11.43	10.18	8.93
	7	18.31	16.92	15.46	14.00	12.54	11.08	9.62
	10	19.69	18.21	16.60	15.00	13.39	11.79	10.18
	12	20.61	19.06	17.36	15.66	13.96	12.26	—
	15	21.99	20.35	18.50	16.66	14.81	12.97	—
20	24.29	22.49	20.41	18.32	16.24	14.15	—	

Power input (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	3.43	3.40	3.53	—	—	—	—
	-20	3.68	3.66	3.76	3.88	—	—	—
	-15	3.87	3.85	3.93	4.02	4.13	—	—
	-7	4.11	4.08	4.12	4.17	4.23	4.32	—
	-2	4.16	4.22	4.22	4.23	4.24	4.26	4.28
	2	4.19	4.31	4.29	4.27	4.25	4.23	4.20
	7	4.22	4.25	4.22	4.20	4.17	4.13	4.08
	10	4.06	4.09	4.07	4.05	4.02	3.98	3.94
	12	3.97	4.00	3.98	3.96	3.93	3.90	—
	15	3.86	3.89	3.87	3.85	3.82	3.79	—
20	3.71	3.74	3.73	3.70	3.68	3.65	—	

COP		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	1.98	1.82	1.64	—	—	—	—
	-20	2.27	2.13	1.93	1.73	—	—	—
	-15	2.55	2.43	2.22	2.00	1.79	—	—
	-7	3.01	2.92	2.68	2.44	2.19	1.95	—
	-2	3.48	3.26	2.99	2.73	2.47	2.21	1.94
	2	3.85	3.53	3.25	2.97	2.69	2.41	2.13
	7	4.34	3.98	3.66	3.33	3.01	2.68	2.36
	10	4.85	4.45	4.08	3.71	3.33	2.96	2.59
	12	5.19	4.76	4.36	3.95	3.55	3.14	—
	15	5.70	5.23	4.78	4.33	3.87	3.42	—
20	6.55	6.01	5.48	4.95	4.41	3.88	—	

* Heating capacity and power input are shown peak value during operation.

* Heating capacity and power input are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

▼Outdoor unit HWS-P804HR-E1
 Hydro unit HWS-P804XWS**-E1

Rated cooling capacity and power input

Rated condition LWT=7°C dT=5deg	Capacity	kW	6.0
	Power input	kW	1.64
	EER	W/W	3.66
	Rated water flow rate	ℓ/min	17.2

* Rated cooling capacity and power input are the data at rated compressor operating frequency.

* Power input does not include water pump power.

* Cooling capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C)

LWT : Leaving water temperature (°C)

dT : Delta temperature (deg)

Return water temperature - leaving water temperature

Cooling peak capacity and power input

Capacity (kW)		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	7.82	8.41	8.99	8.99	8.99
	27	7.53	8.01	8.50	8.82	9.30
	30	7.41	7.96	8.51	8.88	9.43
	35	7.20	7.91	8.62	9.03	9.65
	40	6.50	7.14	7.77	8.20	8.84
	43	6.08	6.69	7.31	7.72	8.35

Power input (kW)		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	1.30	1.30	1.29	1.29	1.29
	27	1.67	1.67	1.67	1.67	1.67
	30	1.83	1.83	1.83	1.83	1.83
	35	2.09	2.10	2.11	2.10	2.10
	40	2.31	2.33	2.35	2.36	2.37
	43	2.44	2.48	2.51	2.52	2.54

COP		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	6.00	6.49	6.97	6.97	6.97
	27	4.81	5.09	5.38	5.57	5.86
	30	4.29	4.59	4.89	5.09	5.38
	35	3.44	3.77	4.09	4.29	4.59
	40	2.84	3.10	3.35	3.52	3.78
	43	2.49	2.70	2.91	3.06	3.29

* Cooling capacity and power input are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C)

LWT : Leaving water temperature (°C)

Heating capacity and input specifications

▼Outdoor unit HWS-P1104HR-E1
 Hydro unit HWS-P1104XWH**-E1

Rated heating capacity and power input

Rated condition LWT=35°C dT=5deg	Capacity	kW	11.2
	Power input	kW	2.30
	COP	W/W	4.88
	Rated water flow rate	ℓ/min	32.1

* Rated heating capacity and power input are the data at rated compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

dT : Delta temperature (deg)

Leaving water temperature - return water temperature

Heating average capacity and power input

Capacity (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	6.23	5.95	5.11	—	—	—	—
	-20	7.21	7.00	6.24	5.47	—	—	—
	-15	8.20	8.06	7.36	6.67	5.98	—	—
	-7	9.77	9.74	9.16	8.59	8.01	7.44	—
	-2	11.13	10.97	10.34	9.71	9.08	8.45	7.82
	2	12.22	11.96	11.28	10.61	9.93	9.26	7.79
	7	14.87	14.32	16.39	14.74	13.08	11.43	9.77
	10	20.38	18.94	17.22	15.50	13.78	12.06	10.34
	12	21.21	19.54	17.78	16.01	14.25	12.49	—
	15	22.44	20.43	18.61	16.78	14.95	13.12	—
20	24.50	21.92	19.99	18.05	16.12	14.18	—	

Power input (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	3.61	3.68	3.62	—	—	—	—
	-20	3.63	3.69	3.68	3.67	—	—	—
	-15	3.64	3.69	3.72	3.75	3.80	—	—
	-7	3.66	3.69	3.76	3.84	3.94	4.06	—
	-2	3.62	3.65	3.72	3.80	3.89	4.01	4.15
	2	3.59	3.62	3.69	3.76	3.86	3.97	3.94
	7	3.50	3.72	4.26	4.23	4.18	4.12	4.05
	10	4.18	4.12	4.09	4.06	4.02	3.98	3.92
	12	4.07	4.01	3.99	3.97	3.94	3.90	—
	15	3.93	3.88	3.86	3.84	3.82	3.79	—
20	3.74	3.70	3.69	3.67	3.66	3.64	—	

COP		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	1.72	1.62	1.41	—	—	—	—
	-20	1.99	1.90	1.70	1.49	—	—	—
	-15	2.25	2.18	1.98	1.78	1.57	—	—
	-7	2.67	2.64	2.44	2.23	2.03	1.83	—
	-2	3.08	3.01	2.78	2.56	2.33	2.11	1.88
	2	3.40	3.30	3.06	2.82	2.57	2.33	1.98
	7	4.25	3.85	3.85	3.49	3.13	2.77	2.42
	10	4.88	4.60	4.21	3.82	3.42	3.03	2.64
	12	5.21	4.87	4.45	4.04	3.62	3.21	—
	15	5.71	5.27	4.82	4.37	3.92	3.47	—
20	6.55	5.93	5.42	4.91	4.41	3.90	—	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Heating peak capacity and power input

Capacity (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	8.36	7.81	7.15	—	—	—	—
	-20	9.82	9.19	8.42	7.64	—	—	—
	-15	12.78	11.23	9.68	8.13	6.58	—	—
	-7	13.62	12.79	11.70	10.61	9.51	8.42	—
	-2	15.41	14.39	13.17	11.95	10.73	9.51	8.29
	2	16.85	15.67	14.35	13.03	11.70	10.38	9.25
	7	19.15	18.05	16.39	14.74	13.08	11.43	9.77
	10	20.38	18.94	17.22	15.50	13.78	12.06	10.34
	12	21.21	19.54	17.78	16.01	14.25	12.49	—
	15	22.44	20.43	18.61	16.78	14.95	13.12	—
20	24.50	21.92	19.99	18.05	16.12	14.18	—	

Power input (kW)		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	4.30	4.32	4.31	—	—	—	—
	-20	4.34	4.33	4.32	4.31	—	—	—
	-15	4.34	4.34	4.33	4.32	4.31	—	—
	-7	4.40	4.35	4.34	4.33	4.31	4.30	—
	-2	4.37	4.35	4.33	4.31	4.29	4.26	4.23
	2	4.35	4.35	4.33	4.30	4.28	4.25	4.19
	7	4.37	4.29	4.26	4.23	4.18	4.12	4.05
	10	4.18	4.12	4.09	4.06	4.02	3.98	3.92
	12	4.07	4.01	3.99	3.97	3.94	3.90	—
	15	3.93	3.88	3.86	3.84	3.82	3.79	—
20	3.74	3.70	3.69	3.67	3.66	3.64	—	

COP		LWT (°C)						
		30	35	40	45	50	55	60
TO (°C)	-25	1.94	1.81	1.66	—	—	—	—
	-20	2.26	2.12	1.95	1.77	—	—	—
	-15	2.94	2.59	2.24	1.88	1.53	—	—
	-7	3.10	2.94	2.70	2.45	2.21	1.96	—
	-2	3.53	3.31	3.04	2.77	2.50	2.23	1.96
	2	3.87	3.61	3.32	3.03	2.74	2.45	2.21
	7	4.38	4.20	3.85	3.49	3.13	2.77	2.42
	10	4.88	4.60	4.21	3.82	3.42	3.03	2.64
	12	5.21	4.87	4.45	4.04	3.62	3.21	—
	15	5.71	5.27	4.82	4.37	3.92	3.47	—
20	6.55	5.93	5.42	4.91	4.41	3.90	—	

* Heating capacity and power input are shown peak value during operation.

* Heating capacity and power input are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Cooling capacity and input specifications

▼Outdoor unit HWS-P1104HR-E1
 Hydro unit HWS-P1104XWH**-E1

Rated cooling capacity and power input

Rated condition 1 LWT=7°C dT=5deg	Capacity	kW	10.0
	Power input	kW	3.33
	EER	W/W	3.00
	Rated water flow rate	ℓ/min	28.9

* Rated cooling capacity and power input are the data at rated compressor operating frequency.

* Power input does not include water pump power.

* Cooling capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C)

LWT : Leaving water temperature (°C)

dT : Delta temperature (deg)

Return water temperature - leaving water temperature

Cooling peak capacity and power input

Capacity (kW)		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	11.21	12.05	12.89	13.38	14.12
	27	10.67	11.45	12.22	12.74	13.51
	30	10.44	11.21	11.97	12.48	13.25
	35	10.06	10.86	11.66	12.12	12.81
	40	8.75	9.23	9.70	10.01	10.49
	43	7.97	8.57	9.16	9.14	9.09

Power input (kW)		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	2.07	2.07	2.08	2.07	2.07
	27	2.63	2.65	2.67	2.68	2.70
	30	2.87	2.89	2.92	2.94	2.97
	35	3.27	3.31	3.36	3.38	3.42
	40	3.49	3.40	3.31	3.25	3.16
	43	3.62	3.60	3.58	3.35	3.01

COP		LWT (°C)				
		7	10	13	15	18
TO (°C)	20	5.42	5.81	6.20	6.45	6.83
	27	4.33	4.62	4.91	5.10	5.40
	30	3.86	4.11	4.36	4.53	4.78
	35	3.08	3.27	3.47	3.58	3.75
	40	2.53	2.74	2.95	3.09	3.30
	43	2.20	2.38	2.56	2.75	3.02

* Cooling capacity and power input are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C)

LWT : Leaving water temperature (°C)

4-6. Part Load Tables

Specifications part load heating capacity and input (peak) LWT(°C) =35°C

▼Outdoor unit **HWS-P804HR-E1**
Hydro unit **HWS-P804XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	6.18	5.56	4.94	4.33	3.71	3.09	2.15	2.15	2.15	2.24
	-20	7.77	7.00	6.22	5.44	4.66	3.89	2.70	2.70	2.70	2.82
	-15	9.37	8.43	7.50	6.56	5.62	4.68	3.25	3.25	3.25	3.40
	-7	11.92	10.73	9.54	8.34	7.15	5.96	4.14	4.14	4.14	4.32
	-2	13.74	12.36	10.99	9.62	8.24	6.87	4.77	4.77	4.77	4.98
	2	15.19	13.67	12.15	10.63	9.11	7.60	5.27	5.27	5.27	5.50
	7	16.92	15.23	13.54	11.84	10.15	8.46	6.77	5.08	3.38	2.07
	10	18.21	16.38	14.56	12.74	10.92	9.10	7.28	5.46	3.64	2.34
	12	19.06	17.16	15.25	13.34	11.44	9.53	7.62	5.72	3.81	2.52
	15	20.35	18.31	16.28	14.24	12.21	10.17	8.14	6.10	4.07	2.79
20	22.49	20.24	17.99	15.74	13.49	11.25	9.00	6.75	4.50	3.24	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	3.40	2.99	2.58	2.17	1.76	1.49	0.99	0.99	0.99	1.11
	-20	3.66	3.22	2.78	2.33	1.89	1.60	1.07	1.07	1.07	1.20
	-15	3.85	3.39	2.92	2.46	2.00	1.69	1.13	1.13	1.13	1.26
	-7	4.08	3.59	3.10	2.60	2.11	1.78	1.19	1.19	1.19	1.33
	-2	4.22	3.71	3.20	2.69	2.18	1.84	1.23	1.23	1.23	1.38
	2	4.31	3.79	3.27	2.75	2.23	1.88	1.26	1.26	1.26	1.41
	7	4.25	3.68	3.11	2.54	2.19	1.85	1.50	1.15	0.80	0.53
	10	4.09	3.60	3.10	2.61	2.11	1.77	1.43	1.09	0.75	0.51
	12	4.00	3.52	3.04	2.56	2.08	1.74	1.40	1.06	0.73	0.50
	15	3.89	3.43	2.96	2.50	2.03	1.70	1.36	1.03	0.69	0.48
20	3.74	3.30	2.86	2.42	1.98	1.65	1.31	0.97	0.64	0.45	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	1.82	1.86	1.92	1.99	2.11	2.08	2.16	2.16	2.16	2.02
	-20	2.13	2.18	2.24	2.33	2.46	2.43	2.52	2.52	2.52	2.36
	-15	2.43	2.49	2.56	2.67	2.82	2.78	2.88	2.88	2.88	2.70
	-7	2.92	2.99	3.08	3.20	3.39	3.34	3.47	3.47	3.47	3.24
	-2	3.26	3.33	3.43	3.57	3.78	3.72	3.87	3.87	3.87	3.61
	2	3.53	3.61	3.72	3.87	4.09	4.03	4.19	4.19	4.19	3.91
	7	3.98	4.14	4.35	4.66	4.63	4.58	4.52	4.42	4.24	3.92
	10	4.45	4.56	4.70	4.89	5.17	5.14	5.08	5.00	4.84	4.59
	12	4.76	4.87	5.02	5.22	5.51	5.48	5.44	5.37	5.25	5.07
	15	5.23	5.35	5.50	5.70	6.00	5.99	5.98	5.95	5.89	5.82
20	6.01	6.13	6.29	6.50	6.81	6.83	6.87	6.93	7.06	7.21	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load heating capacity and input (peak) LWT(°C) =45°C

▼Outdoor unit **HWS-P804HR-E1**
 Hydro unit **HWS-P804XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	6.72	6.05	5.38	4.71	4.03	2.73	2.73	2.73	2.73	2.96
	-15	8.04	7.24	6.44	5.63	4.83	3.42	3.42	3.42	3.42	3.54
	-7	10.16	9.14	8.13	7.11	6.10	4.52	4.52	4.52	4.52	4.48
	-2	11.56	10.41	9.25	8.09	6.94	5.07	5.07	5.07	5.07	5.10
	2	12.69	11.42	10.15	8.88	7.61	5.50	5.50	5.50	5.50	5.59
	7	14.00	12.60	11.20	9.80	8.40	7.00	5.67	5.67	5.67	5.67
	10	15.00	13.50	12.00	10.50	9.00	7.50	6.28	6.28	6.28	6.28
	12	15.66	14.10	12.53	10.96	9.40	7.83	6.69	6.69	6.69	6.69
	15	16.66	14.99	13.33	11.66	10.00	8.33	7.30	7.30	7.30	7.30
20	18.32	16.49	14.66	12.82	10.99	9.16	8.31	8.31	8.31	8.31	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	3.88	3.47	3.06	2.65	2.24	1.65	1.65	1.65	1.65	1.62
	-15	4.02	3.59	3.17	2.75	2.32	1.72	1.72	1.72	1.72	1.68
	-7	4.17	3.73	3.29	2.85	2.41	1.79	1.79	1.79	1.79	1.75
	-2	4.23	3.79	3.34	2.89	2.45	1.77	1.77	1.77	1.77	1.77
	2	4.27	3.82	3.37	2.92	2.47	1.76	1.76	1.76	1.76	1.79
	7	4.20	3.75	3.30	2.85	2.39	1.98	1.59	1.59	1.59	1.59
	10	4.05	3.61	3.17	2.73	2.29	1.89	1.57	1.57	1.57	1.57
	12	3.96	3.53	3.10	2.67	2.24	1.84	1.56	1.56	1.56	1.56
	15	3.85	3.41	2.97	2.53	2.15	1.77	1.54	1.54	1.54	1.54
20	3.70	3.27	2.84	2.41	2.04	1.68	1.51	1.51	1.51	1.51	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	1.73	1.74	1.76	1.77	1.80	1.66	1.66	1.66	1.66	1.82
	-15	2.00	2.01	2.03	2.05	2.08	1.99	1.99	1.99	1.99	2.11
	-7	2.44	2.45	2.47	2.49	2.53	2.52	2.52	2.52	2.52	2.56
	-2	2.73	2.75	2.77	2.80	2.84	2.86	2.86	2.86	2.86	2.88
	2	2.97	2.99	3.01	3.04	3.08	3.13	3.13	3.13	3.13	3.13
	7	3.33	3.36	3.40	3.44	3.51	3.54	3.58	3.58	3.58	3.58
	10	3.71	3.74	3.78	3.84	3.92	3.96	4.01	4.01	4.01	4.01
	12	3.95	3.99	4.04	4.11	4.20	4.25	4.30	4.30	4.30	4.30
	15	4.33	4.40	4.49	4.62	4.65	4.70	4.74	4.74	4.74	4.74
20	4.95	5.04	5.16	5.32	5.38	5.46	5.51	5.51	5.51	5.51	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load heating capacity and input (peak) LWT(°C) =55°C

▼Outdoor unit HWS-P804HR-E1
 Hydro unit HWS-P804XWH**-E1

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	8.40	7.56	6.72	5.88	5.04	4.09	4.09	4.09	4.09	4.18
	-2	9.39	8.45	7.51	6.57	5.63	4.48	4.48	4.48	4.48	4.67
	2	10.18	9.16	8.15	7.13	6.11	4.80	4.80	4.80	4.80	5.06
	7	11.08	9.97	8.86	7.76	6.65	5.54	5.20	5.20	5.20	5.20
	10	11.79	10.61	9.43	8.25	7.07	5.89	5.75	5.75	5.75	5.75
	12	12.26	11.03	9.81	8.58	7.36	6.13	6.11	6.11	6.11	6.11
	15	12.97	11.67	10.38	9.08	7.78	6.66	6.66	6.66	6.66	6.66
20	14.15	12.74	11.32	9.91	8.49	7.58	7.58	7.58	7.58	7.58	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	4.32	3.89	3.46	3.03	2.61	2.21	2.21	2.21	2.21	2.18
	-2	4.26	3.83	3.41	2.99	2.57	2.13	2.13	2.13	2.13	2.15
	2	4.23	3.80	3.38	2.96	2.56	2.08	2.08	2.08	2.08	2.14
	7	4.13	3.72	3.31	2.90	2.50	2.10	1.97	1.97	1.97	1.97
	10	3.98	3.59	3.19	2.80	2.41	2.02	1.97	1.97	1.97	1.97
	12	3.90	3.51	3.13	2.74	2.36	1.97	1.97	1.97	1.97	1.97
	15	3.79	3.42	3.05	2.67	2.29	1.97	1.97	1.97	1.97	1.97
20	3.65	3.30	2.95	2.58	2.20	1.96	1.96	1.96	1.96	1.96	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	1.95	1.94	1.94	1.94	1.93	1.85	1.85	1.85	1.85	1.91
	-2	2.21	2.20	2.20	2.20	2.19	2.10	2.10	2.10	2.10	2.17
	2	2.41	2.41	2.41	2.40	2.39	2.31	2.31	2.31	2.31	2.37
	7	2.68	2.68	2.68	2.67	2.66	2.64	2.63	2.63	2.63	2.63
	10	2.96	2.96	2.95	2.95	2.94	2.92	2.92	2.92	2.92	2.92
	12	3.14	3.14	3.14	3.13	3.12	3.11	3.11	3.11	3.11	3.11
	15	3.42	3.41	3.40	3.40	3.39	3.39	3.39	3.39	3.39	3.39
20	3.88	3.86	3.84	3.85	3.86	3.87	3.87	3.87	3.87	3.87	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =7°C

▼Outdoor unit **HWS-P804HR-E1**
 Hydro unit **HWS-P804XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	7.82	7.04	6.26	5.48	4.70	3.91	3.13	2.35	1.56	0.98
	27	7.53	6.77	6.03	5.27	4.52	3.77	3.04	3.04	3.04	3.04
	30	7.41	6.66	5.93	5.18	4.45	3.70	2.98	2.98	2.98	2.98
	35	7.20	6.48	5.76	5.04	4.32	3.60	2.90	2.90	2.90	2.90
	40	6.50	5.85	5.20	4.55	3.90	3.25	3.02	3.02	3.02	3.02
	43	6.08	5.47	4.87	4.25	3.64	3.04	2.83	2.83	2.83	2.83

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	1.30	1.18	1.06	0.94	0.82	0.70	0.58	0.46	0.34	0.25
	27	1.67	1.52	1.36	1.21	1.05	0.90	0.74	0.74	0.74	0.74
	30	1.83	1.66	1.49	1.32	1.16	0.98	0.82	0.82	0.82	0.82
	35	2.09	1.90	1.71	1.51	1.32	1.12	0.93	0.93	0.93	0.93
	40	2.31	2.10	1.88	1.67	1.46	1.25	1.17	1.17	1.17	1.17
	43	2.44	2.22	1.99	1.77	1.54	1.31	1.24	1.24	1.24	1.24

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	6.00	5.96	5.91	5.80	5.71	5.59	5.41	5.15	4.57	3.87
	27	4.51	4.47	4.42	4.36	4.29	4.19	4.08	4.08	4.08	4.08
	30	4.05	4.02	3.97	3.93	3.85	3.77	3.64	3.64	3.64	3.64
	35	3.44	3.42	3.37	3.33	3.28	3.21	3.11	3.11	3.11	3.11
	40	2.81	2.78	2.76	2.72	2.67	2.61	2.59	2.59	2.59	2.59
	43	2.49	2.46	2.45	2.41	2.36	2.32	2.28	2.28	2.28	2.28

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =13°C

▼Outdoor unit **HWS-P804HR-E1**
 Hydro unit **HWS-P804XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	8.99	8.10	7.20	6.30	5.40	4.50	3.59	2.70	2.42	2.42
	27	8.50	7.65	6.79	5.94	5.09	4.25	4.25	4.25	4.25	4.25
	30	8.51	7.66	6.80	5.96	5.11	4.26	4.26	4.26	4.26	4.26
	35	8.62	7.75	6.89	6.04	5.17	4.32	4.32	4.32	4.32	4.32
	40	7.77	6.99	6.21	5.45	4.67	4.30	4.30	4.30	4.30	4.30
	43	7.31	6.58	5.84	5.12	4.38	4.04	4.04	4.04	4.04	4.04

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	1.29	1.15	1.01	0.88	0.74	0.60	0.46	0.32	0.28	0.28
	27	1.67	1.49	1.31	1.13	0.96	0.77	0.77	0.77	0.77	0.77
	30	1.83	1.64	1.44	1.25	1.05	0.85	0.85	0.85	0.85	0.85
	35	2.11	1.88	1.66	1.43	1.21	0.98	0.98	0.98	0.98	0.98
	40	2.35	2.09	1.84	1.59	1.34	1.22	1.22	1.22	1.22	1.22
	43	2.51	2.24	1.97	1.70	1.43	1.31	1.31	1.31	1.31	1.31

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	6.97	7.04	7.13	7.17	7.32	7.53	7.84	8.46	8.65	8.65
	27	5.09	5.12	5.19	5.24	5.32	5.50	5.50	5.50	5.50	5.50
	30	4.65	4.68	4.72	4.78	4.86	4.98	4.98	4.98	4.98	4.98
	35	4.09	4.13	4.16	4.23	4.29	4.42	4.42	4.42	4.42	4.42
	40	3.31	3.35	3.37	3.43	3.48	3.52	3.52	3.52	3.52	3.52
	43	2.91	2.93	2.97	3.00	3.07	3.09	3.09	3.09	3.09	3.09

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =18°C

▼Outdoor unit HWS-P804HR-E1
 Hydro unit HWS-P804XWH**-E1

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	8.99	8.10	7.19	6.30	5.40	4.50	3.60	3.22	3.22	3.22
	27	9.30	8.37	7.44	6.51	5.58	5.23	5.23	5.23	5.23	5.23
	30	9.43	8.49	7.54	6.60	5.66	5.30	5.30	5.30	5.30	5.30
	35	9.65	8.68	7.71	6.76	5.79	5.43	5.43	5.43	5.43	5.43
	40	8.84	7.95	7.07	6.18	5.37	5.37	5.37	5.37	5.37	5.37
	43	8.35	7.51	6.68	5.84	5.07	5.07	5.07	5.07	5.07	5.07

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	1.29	1.19	1.03	0.87	0.71	0.55	0.39	0.32	0.32	0.32
	27	1.67	1.47	1.28	1.07	0.87	0.80	0.80	0.80	0.80	0.80
	30	1.83	1.61	1.40	1.18	0.96	0.88	0.88	0.88	0.88	0.88
	35	2.10	1.85	1.60	1.35	1.11	1.00	1.00	1.00	1.00	1.00
	40	2.37	2.09	1.81	1.53	1.27	1.27	1.27	1.27	1.27	1.27
	43	2.54	2.23	1.93	1.63	1.35	1.35	1.35	1.35	1.35	1.35

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	6.97	6.80	6.97	7.22	7.57	8.24	9.29	10.10	10.10	10.10
	27	5.57	5.68	5.83	6.09	6.39	6.50	6.50	6.50	6.50	6.50
	30	5.15	5.26	5.40	5.60	5.89	6.03	6.03	6.03	6.03	6.03
	35	4.59	4.69	4.82	5.01	5.23	5.40	5.40	5.40	5.40	5.40
	40	3.72	3.80	3.90	4.05	4.24	4.24	4.24	4.24	4.24	4.24
	43	3.29	3.36	3.46	3.59	3.76	3.76	3.76	3.76	3.76	3.76

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load heating capacity and input (peak) LWT(°C) =35°C

▼Outdoor unit HWS-P1104HR-E1
Hydro unit HWS-P1104XWH**-E1

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	7.81	7.03	6.25	5.46	4.68	3.90	2.83	2.83	2.83	2.83
	-20	9.19	8.27	7.35	6.43	5.52	4.60	3.33	3.33	3.33	3.33
	-15	11.23	10.11	8.98	7.86	6.74	5.62	4.07	4.07	4.07	4.07
	-7	12.79	11.51	10.23	8.96	7.68	6.40	4.64	4.64	4.64	4.64
	-2	14.39	12.95	11.52	10.08	8.64	7.20	5.22	5.22	5.22	5.22
	2	15.67	14.11	12.54	10.97	9.40	7.84	5.68	5.68	5.68	5.68
	7	18.05	16.24	14.44	12.63	10.83	9.02	7.22	5.41	3.61	2.21
	10	18.94	17.05	15.15	13.26	11.37	9.47	7.58	5.68	3.79	2.43
	12	19.54	17.59	15.63	13.68	11.72	9.77	7.82	5.86	3.91	2.58
	15	20.43	18.39	16.35	14.30	12.26	10.22	8.17	6.13	4.09	2.79
20	21.92	19.73	17.54	15.35	13.15	10.96	8.77	6.58	4.38	3.16	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	4.32	3.80	3.28	2.76	2.24	1.89	1.41	1.41	1.41	1.41
	-20	4.33	3.81	3.29	2.76	2.24	1.89	1.42	1.42	1.42	1.42
	-15	4.34	3.81	3.29	2.77	2.24	1.90	1.42	1.42	1.42	1.42
	-7	4.35	3.82	3.30	2.78	2.25	1.90	1.42	1.42	1.42	1.42
	-2	4.35	3.82	3.30	2.77	2.25	1.90	1.42	1.42	1.42	1.42
	2	4.35	3.82	3.30	2.77	2.25	1.90	1.42	1.42	1.42	1.42
	7	4.29	3.72	3.15	2.57	2.22	1.87	1.51	1.16	0.81	0.53
	10	4.12	3.62	3.12	2.63	2.13	1.79	1.44	1.10	0.76	0.51
	12	4.01	3.53	3.05	2.57	2.09	1.75	1.41	1.07	0.73	0.50
	15	3.88	3.42	2.96	2.49	2.03	1.70	1.36	1.03	0.69	0.48
20	3.70	3.26	2.83	2.39	1.96	1.63	1.29	0.96	0.63	0.44	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	1.81	1.85	1.91	1.98	2.10	2.07	2.00	2.00	2.00	2.00
	-20	2.12	2.17	2.24	2.33	2.46	2.43	2.35	2.35	2.35	2.35
	-15	2.59	2.65	2.73	2.84	3.00	2.96	2.87	2.87	2.87	2.87
	-7	2.94	3.01	3.10	3.23	3.41	3.36	3.26	3.26	3.26	3.26
	-2	3.31	3.39	3.49	3.63	3.84	3.79	3.67	3.67	3.67	3.67
	2	3.61	3.69	3.80	3.96	4.18	4.12	4.00	4.00	4.00	4.00
	7	4.20	4.37	4.59	4.91	4.88	4.84	4.77	4.67	4.47	4.14
	10	4.60	4.71	4.85	5.05	5.34	5.30	5.25	5.16	4.99	4.73
	12	4.87	4.98	5.12	5.32	5.62	5.59	5.55	5.48	5.35	5.16
	15	5.27	5.38	5.53	5.73	6.03	6.02	6.00	5.97	5.92	5.84
20	5.93	6.05	6.20	6.41	6.71	6.74	6.78	6.84	6.96	7.12	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load heating capacity and input (peak) LWT(°C) =45°C

▼Outdoor unit **HWS-P1104HR-E1**
 Hydro unit **HWS-P1104XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	7.64	6.88	6.11	5.35	4.58	3.37	3.37	3.37	3.37	3.37
	-15	8.13	7.32	6.50	5.69	4.88	3.58	3.58	3.58	3.58	3.58
	-7	10.61	9.55	8.49	7.42	6.36	4.67	4.67	4.67	4.67	4.67
	-2	11.95	10.76	9.56	8.37	7.17	5.27	5.27	5.27	5.27	5.27
	2	13.03	11.72	10.42	9.12	7.82	5.74	5.74	5.74	5.74	5.74
	7	14.74	13.26	11.79	10.32	8.84	7.37	5.97	5.97	5.97	5.97
	10	15.50	13.95	12.40	10.85	9.30	7.75	6.48	6.48	6.48	6.48
	12	16.01	14.41	12.81	11.21	9.61	8.01	6.82	6.82	6.82	6.82
	15	16.78	15.10	13.42	11.74	10.07	8.39	7.34	7.34	7.34	7.34
20	18.05	16.25	14.44	12.64	10.83	9.03	8.19	8.19	8.19	8.19	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	4.31	3.86	3.40	2.95	2.49	1.80	1.80	1.80	1.80	1.80
	-15	4.32	3.86	3.41	2.95	2.50	1.81	1.81	1.81	1.81	1.81
	-7	4.33	3.87	3.41	2.96	2.50	1.81	1.81	1.81	1.81	1.81
	-2	4.31	3.86	3.40	2.95	2.49	1.80	1.80	1.80	1.80	1.80
	2	4.30	3.85	3.40	2.94	2.49	1.80	1.80	1.80	1.80	1.80
	7	4.23	3.77	3.32	2.86	2.41	1.99	1.60	1.60	1.60	1.60
	10	4.06	3.62	3.18	2.74	2.31	1.90	1.57	1.57	1.57	1.57
	12	3.97	3.54	3.11	2.67	2.24	1.85	1.56	1.56	1.56	1.56
	15	3.84	3.40	2.96	2.52	2.15	1.77	1.53	1.53	1.53	1.53
20	3.67	3.25	2.82	2.39	2.03	1.66	1.50	1.50	1.50	1.50	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	1.77	1.78	1.80	1.82	1.84	1.87	1.87	1.87	1.87	1.87
	-15	1.88	1.89	1.91	1.93	1.95	1.98	1.98	1.98	1.98	1.98
	-7	2.45	2.47	2.49	2.51	2.55	2.58	2.58	2.58	2.58	2.58
	-2	2.77	2.79	2.81	2.84	2.88	2.92	2.92	2.92	2.92	2.92
	2	3.03	3.05	3.07	3.10	3.14	3.19	3.19	3.19	3.19	3.19
	7	3.49	3.52	3.55	3.60	3.67	3.70	3.74	3.74	3.74	3.74
	10	3.82	3.85	3.90	3.95	4.04	4.07	4.12	4.12	4.12	4.12
	12	4.04	4.08	4.13	4.19	4.28	4.33	4.38	4.38	4.38	4.38
	15	4.37	4.44	4.53	4.65	4.69	4.74	4.78	4.78	4.78	4.78
20	4.91	5.01	5.12	5.29	5.34	5.43	5.48	5.48	5.48	5.48	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load heating capacity and input (peak) LWT(°C) =55°C

▼Outdoor unit HWS-P1104HR-E1
Hydro unit HWS-P1104XWH**-E1

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	8.42	7.58	6.74	5.89	5.05	4.19	4.19	4.19	4.19	4.19
	-2	9.51	8.56	7.61	6.66	5.71	4.73	4.73	4.73	4.73	4.73
	2	10.38	9.34	8.30	7.27	6.23	5.16	5.16	5.16	5.16	5.16
	7	11.43	10.28	9.14	8.00	6.86	5.71	5.36	5.36	5.36	5.36
	10	12.06	10.86	9.65	8.44	7.24	6.03	5.88	5.88	5.88	5.88
	12	12.49	11.24	9.99	8.74	7.49	6.24	6.22	6.22	6.22	6.22
	15	13.12	11.81	10.50	9.19	7.87	6.74	6.74	6.74	6.74	6.74
20	14.18	12.76	11.35	9.93	8.51	7.60	7.60	7.60	7.60	7.60	

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	4.30	3.87	3.44	3.02	2.60	2.17	2.17	2.17	2.17	2.17
	-2	4.26	3.84	3.42	2.99	2.58	2.16	2.16	2.16	2.16	2.16
	2	4.25	3.82	3.40	2.98	2.57	2.15	2.15	2.15	2.15	2.15
	7	4.12	3.71	3.31	2.90	2.50	2.10	1.97	1.97	1.97	1.97
	10	3.98	3.58	3.19	2.80	2.41	2.02	1.97	1.97	1.97	1.97
	12	3.90	3.51	3.13	2.74	2.36	1.97	1.96	1.96	1.96	1.96
	15	3.79	3.42	3.05	2.67	2.29	1.96	1.96	1.96	1.96	1.96
20	3.64	3.29	2.94	2.57	2.19	1.96	1.96	1.96	1.96	1.96	

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	-25	—	—	—	—	—	—	—	—	—	—
	-20	—	—	—	—	—	—	—	—	—	—
	-15	—	—	—	—	—	—	—	—	—	—
	-7	1.96	1.96	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.93
	-2	2.23	2.23	2.23	2.23	2.21	2.19	2.19	2.19	2.19	2.19
	2	2.45	2.44	2.44	2.44	2.43	2.41	2.41	2.41	2.41	2.41
	7	2.77	2.77	2.76	2.76	2.74	2.73	2.72	2.72	2.72	2.72
	10	3.03	3.03	3.03	3.02	3.01	2.99	2.99	2.99	2.99	2.99
	12	3.21	3.20	3.19	3.19	3.18	3.17	3.17	3.17	3.17	3.17
	15	3.47	3.46	3.45	3.44	3.44	3.44	3.44	3.44	3.44	3.44
20	3.90	3.88	3.86	3.87	3.88	3.89	3.89	3.89	3.89	3.89	

* Heating capacity and power input are include defrost cycle data.

* Heating capacity and power input at 100% load are shown at maximum compressor operating frequency.

* Power input does not include water pump power.

* Heating capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =7°C

▼Outdoor unit **HWS-P1104HR-E1**
 Hydro unit **HWS-P1104XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	11.21	10.09	8.97	7.85	6.73	5.61	4.48	3.36	2.25	1.92
	27	10.67	9.61	8.54	7.47	6.40	5.34	5.14	5.14	5.14	5.14
	30	10.44	9.40	8.35	7.31	6.27	5.23	5.04	5.04	5.04	5.04
	35	10.06	9.05	8.05	7.04	6.04	5.03	4.85	4.85	4.85	4.85
	40	8.75	7.87	7.00	6.12	5.26	4.83	4.83	4.83	4.83	4.83
	43	7.97	7.17	6.37	5.57	4.78	4.39	4.39	4.39	4.39	4.39

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	2.07	1.83	1.59	1.37	1.17	0.97	0.79	0.62	0.47	0.42
	27	2.63	2.32	2.02	1.75	1.48	1.24	1.19	1.19	1.19	1.19
	30	2.87	2.53	2.21	1.90	1.62	1.35	1.31	1.31	1.31	1.31
	35	3.27	2.88	2.52	2.16	1.84	1.53	1.49	1.49	1.49	1.49
	40	3.49	3.08	2.69	2.31	1.96	1.80	1.80	1.80	1.80	1.80
	43	3.62	3.19	2.78	2.41	2.04	1.88	1.88	1.88	1.88	1.88

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	5.42	5.53	5.64	5.73	5.76	5.77	5.67	5.43	4.78	4.54
	27	4.06	4.15	4.22	4.28	4.33	4.32	4.31	4.31	4.31	4.31
	30	3.64	3.72	3.78	3.85	3.88	3.87	3.86	3.86	3.86	3.86
	35	3.08	3.15	3.20	3.25	3.28	3.28	3.26	3.26	3.26	3.26
	40	2.51	2.56	2.61	2.65	2.68	2.68	2.68	2.68	2.68	2.68
	43	2.20	2.25	2.29	2.32	2.34	2.34	2.34	2.34	2.34	2.34

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =13°C

▼Outdoor unit HWS-P1104HR-E1
 Hydro unit HWS-P1104XWH**-E1

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	12.89	11.60	10.31	9.02	7.73	6.45	5.16	3.87	3.78	3.78
	27	12.22	11.00	9.78	8.56	7.34	6.82	6.82	6.82	6.82	6.82
	30	11.97	10.78	9.58	8.38	7.18	6.69	6.69	6.69	6.69	6.69
	35	11.66	10.50	9.33	8.16	7.00	6.51	6.51	6.51	6.51	6.51
	40	9.70	8.73	7.76	6.79	5.99	5.99	5.99	5.99	5.99	5.99
	43	9.16	8.25	7.33	6.42	5.66	5.66	5.66	5.66	5.66	5.66

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	2.08	1.86	1.59	1.34	1.11	0.89	0.69	0.51	0.50	0.50
	27	2.67	2.31	1.97	1.66	1.37	1.26	1.26	1.26	1.26	1.26
	30	2.92	2.53	2.16	1.82	1.51	1.38	1.38	1.38	1.38	1.38
	35	3.36	2.91	2.49	2.10	1.73	1.59	1.59	1.59	1.59	1.59
	40	3.31	2.87	2.45	2.07	1.77	1.77	1.77	1.77	1.77	1.77
	43	3.58	3.10	2.65	2.24	1.91	1.91	1.91	1.91	1.91	1.91

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	6.20	6.24	6.50	6.75	6.98	7.26	7.47	7.61	7.55	7.55
	27	4.59	4.76	4.95	5.15	5.34	5.43	5.43	5.43	5.43	5.43
	30	4.10	4.26	4.43	4.60	4.76	4.86	4.86	4.86	4.86	4.86
	35	3.47	3.61	3.74	3.89	4.04	4.09	4.09	4.09	4.09	4.09
	40	2.93	3.04	3.16	3.29	3.39	3.39	3.39	3.39	3.39	3.39
	43	2.56	2.66	2.77	2.87	2.97	2.97	2.97	2.97	2.97	2.97

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)

Specifications part load cooling capacity and input LWT(°C) =18°C

▼Outdoor unit **HWS-P1104HR-E1**
 Hydro unit **HWS-P1104XWH**-E1**

Capacity (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	14.12	12.71	11.30	9.89	8.48	7.06	5.65	5.31	5.31	5.31
	27	13.51	12.16	10.81	9.45	8.24	8.24	8.24	8.24	8.24	8.24
	30	13.25	11.92	10.60	9.27	8.09	8.09	8.09	8.09	8.09	8.09
	35	12.81	11.53	10.25	8.96	7.82	7.82	7.82	7.82	7.82	7.82
	40	10.49	9.44	8.39	7.34	6.95	6.95	6.95	6.95	6.95	6.95
	43	9.09	8.18	7.28	6.36	6.03	6.03	6.03	6.03	6.03	6.03

Power input (kW)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	2.07	1.85	1.55	1.27	1.02	0.79	0.57	0.53	0.53	0.53
	27	2.70	2.30	1.92	1.58	1.30	1.30	1.30	1.30	1.30	1.30
	30	2.97	2.53	2.12	1.74	1.42	1.42	1.42	1.42	1.42	1.42
	35	3.42	2.91	2.44	2.00	1.64	1.64	1.64	1.64	1.64	1.64
	40	3.16	2.69	2.26	1.85	1.71	1.71	1.71	1.71	1.71	1.71
	43	3.01	2.56	2.15	1.76	1.63	1.63	1.63	1.63	1.63	1.63

COP		Load (%)									
		100	90	80	70	60	50	40	30	20	10
TO (°C)	20	6.83	6.87	7.30	7.78	8.32	8.96	9.87	10.07	10.07	10.07
	27	5.01	5.29	5.63	6.00	6.35	6.35	6.35	6.35	6.35	6.35
	30	4.47	4.71	5.00	5.34	5.69	5.69	5.69	5.69	5.69	5.69
	35	3.75	3.97	4.20	4.48	4.76	4.76	4.76	4.76	4.76	4.76
	40	3.32	3.51	3.72	3.97	4.07	4.07	4.07	4.07	4.07	4.07
	43	3.02	3.20	3.39	3.61	3.70	3.70	3.70	3.70	3.70	3.70

* Cooling capacity and power input at 100% load are the data at rated compressor operating frequency of rated condition 1.

* Power input does not include water pump power.

* Cooling capacity and power input at 100% load are measured in accordance with EN14511.

TO : Outdoor temperature (DB°C) RH85%

LWT : Leaving water temperature (°C)