

20. Technical Data

20.1 Operation Characteristics

20.1.1 WH-WDG05LE5

Heating Characteristics at Different Outdoor Air Temperature

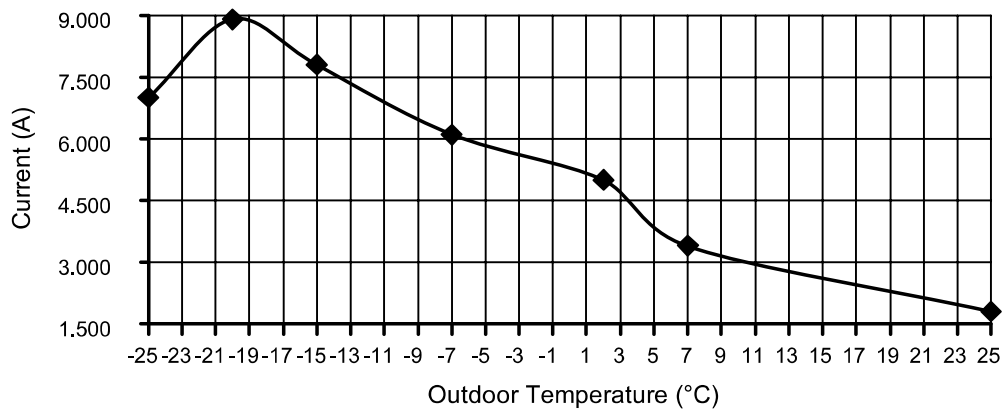
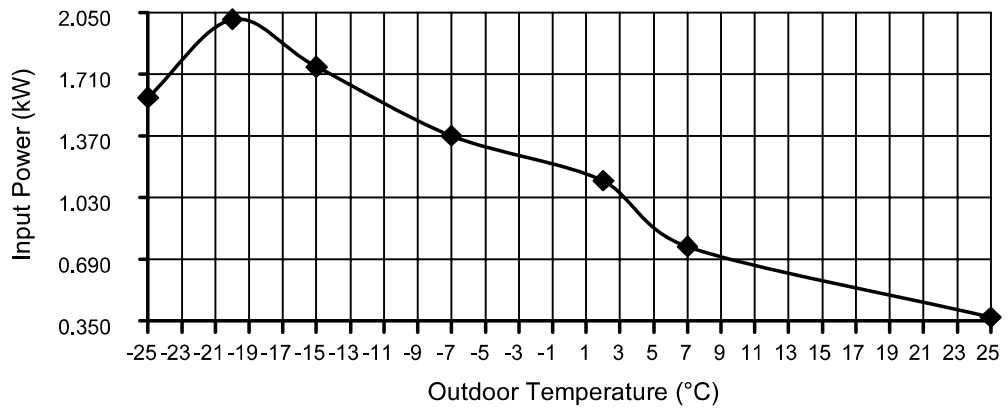
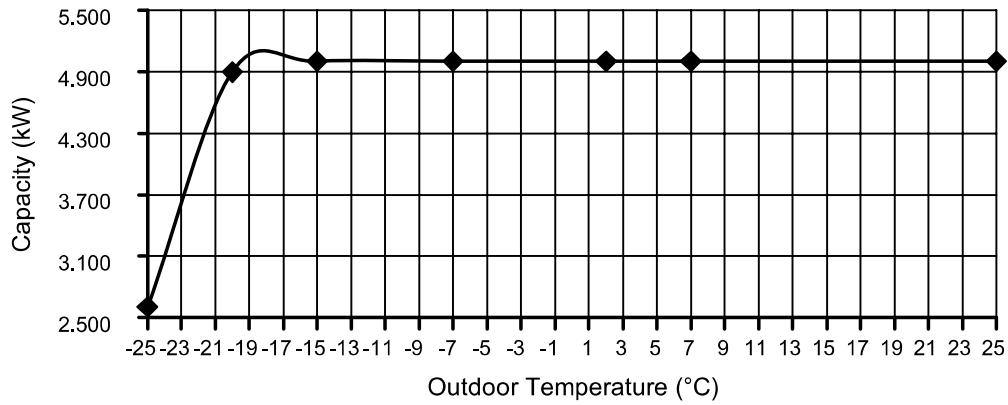
Condition

Outdoor air temperature : 7°C (DBT), 6°C (WBT)

Indoor water inlet temperature : 30°C

Indoor water outlet temperature : 25°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

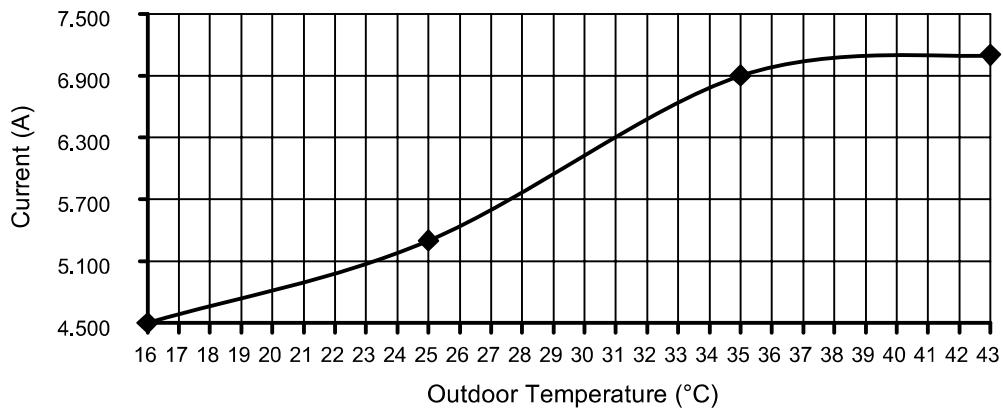
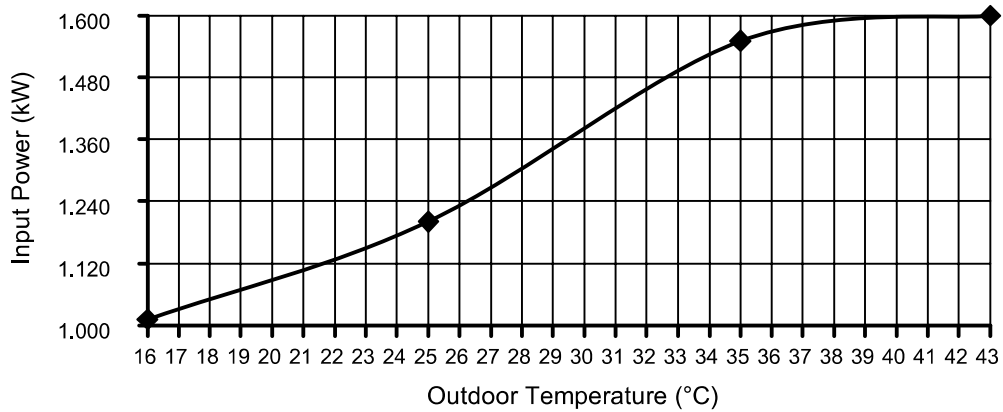
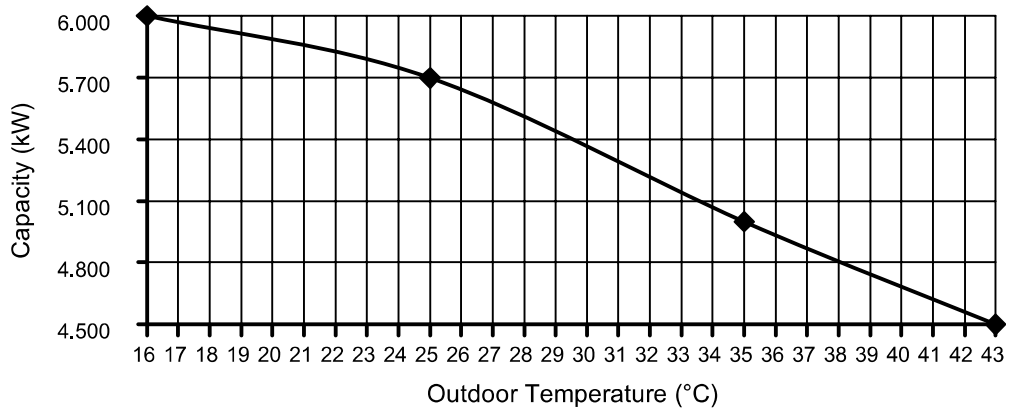
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 12°C

Indoor water outlet temperature : 7°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

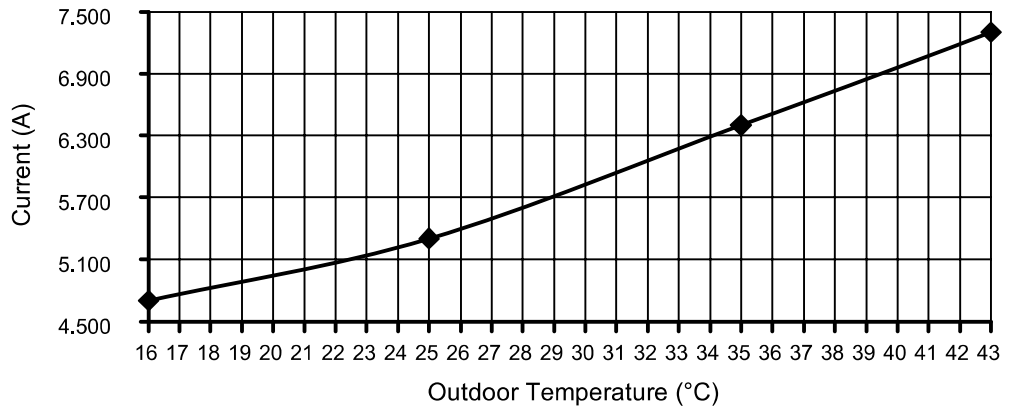
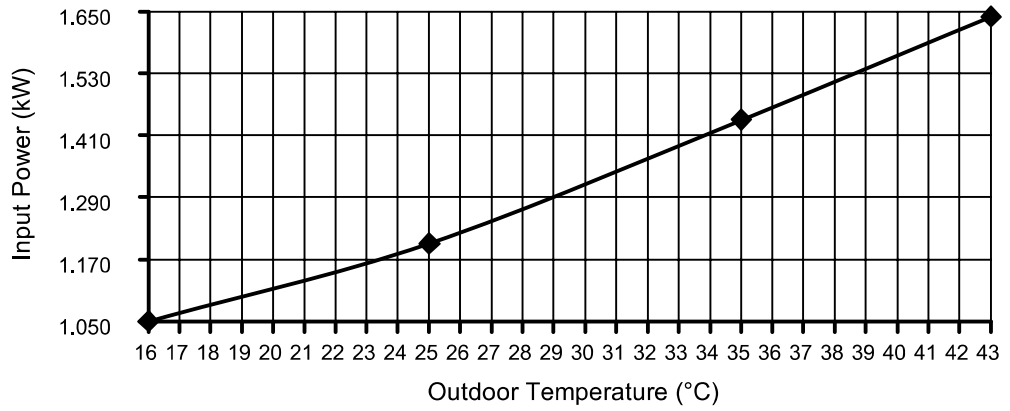
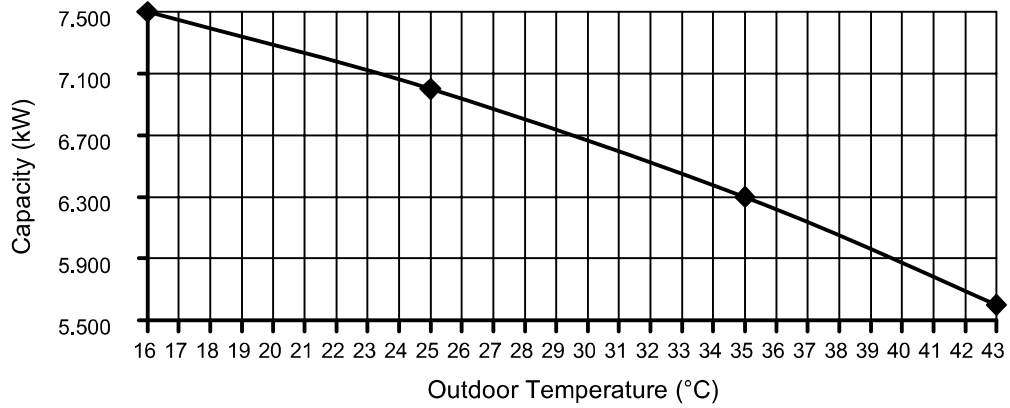
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 19°C

Indoor water outlet temperature : 14°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

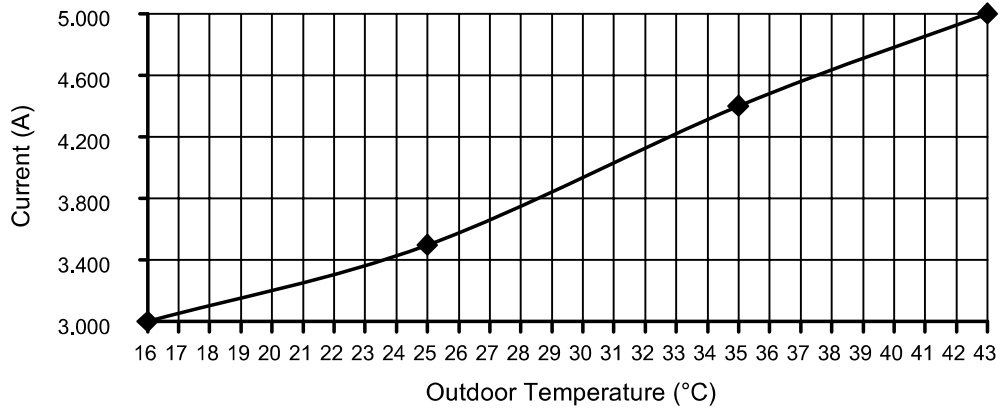
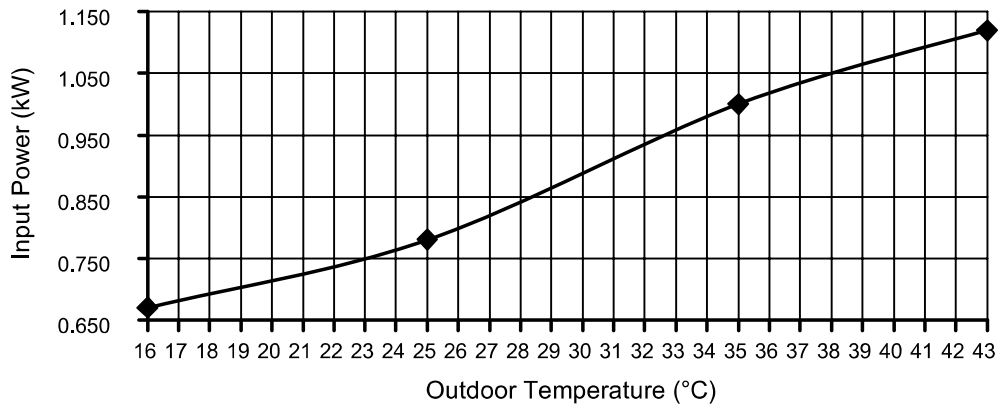
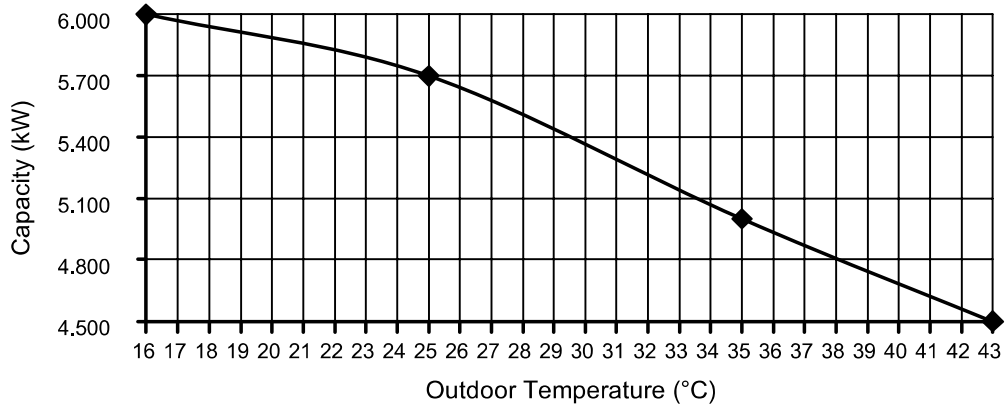
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 23°C

Indoor water outlet temperature : 18°C

Piping length : 7 m



20.1.2 WH-WDG07LE5

Heating Characteristics at Different Outdoor Air Temperature

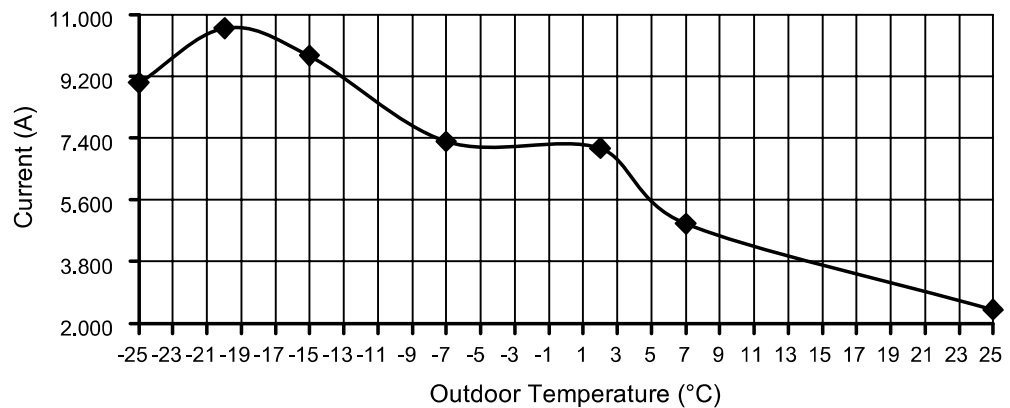
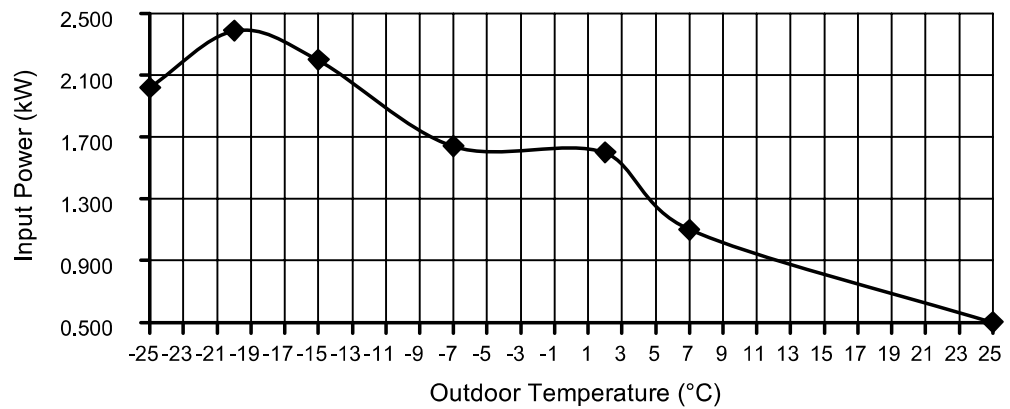
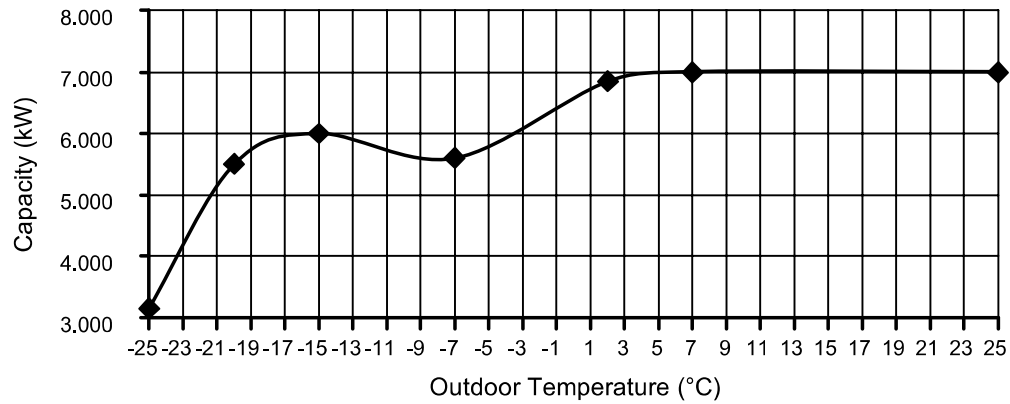
Condition

Outdoor air temperature : 7°C (DBT), 6°C (WBT)

Indoor water inlet temperature : 30°C

Indoor water outlet temperature : 25°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

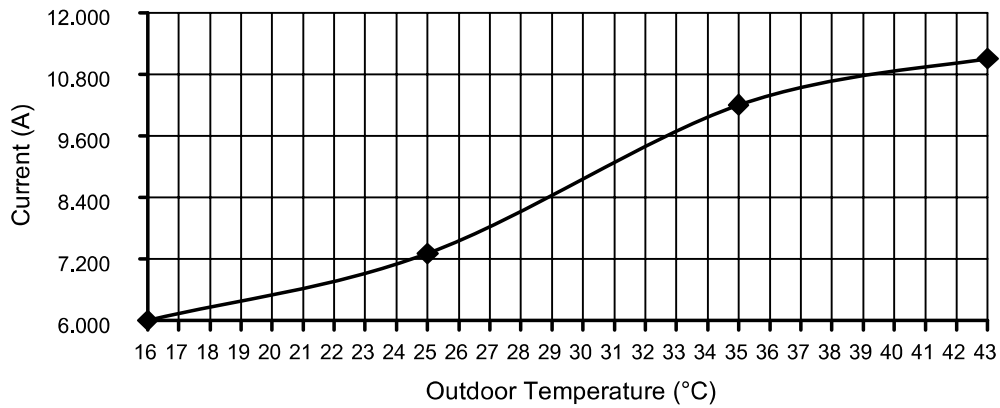
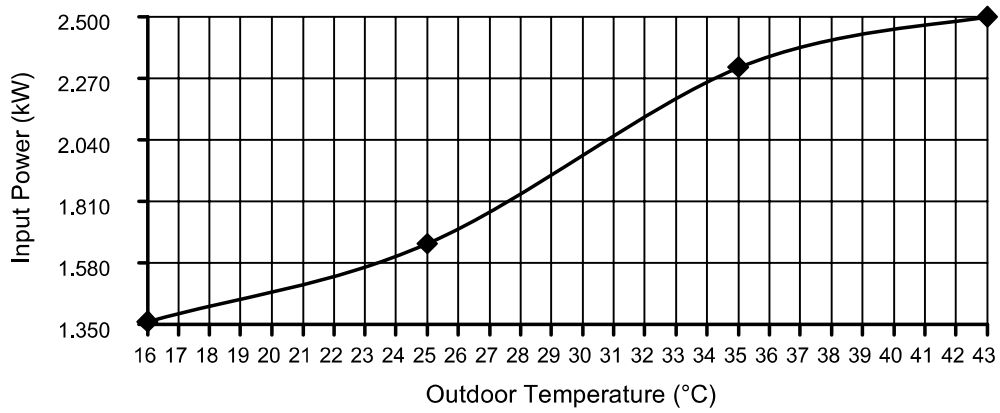
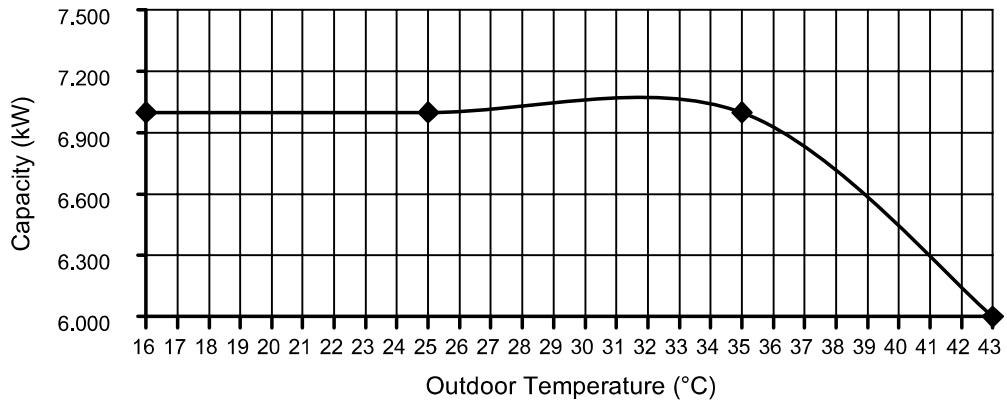
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 12°C

Indoor water outlet temperature : 7°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

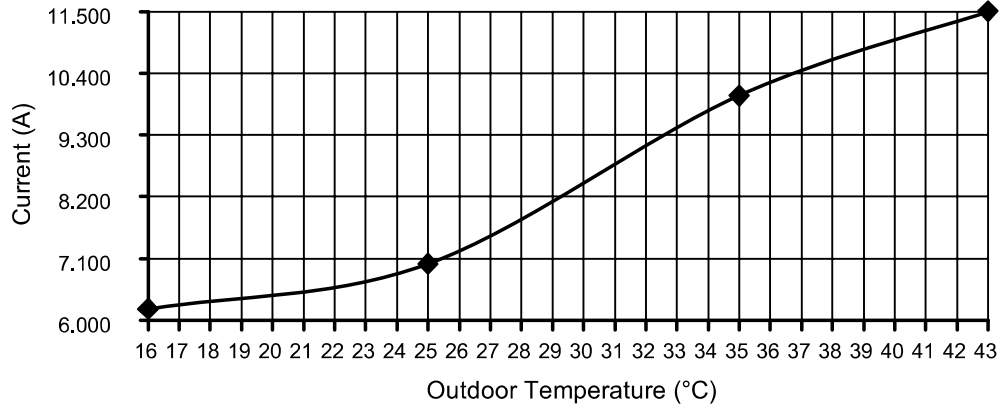
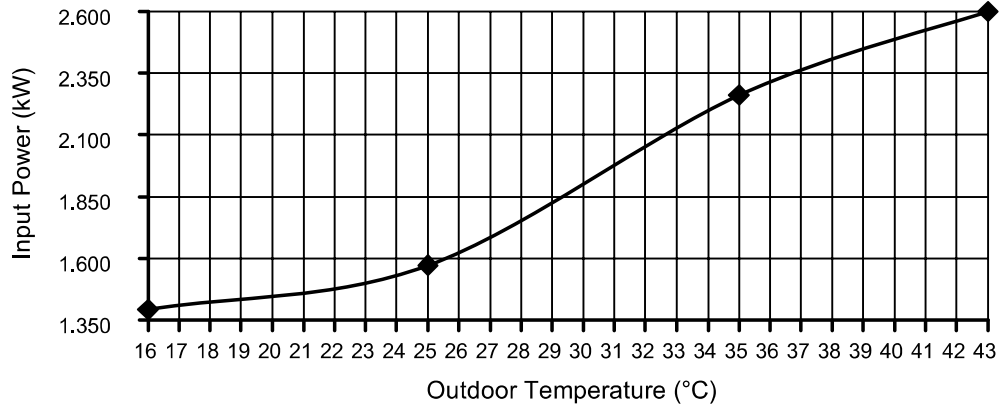
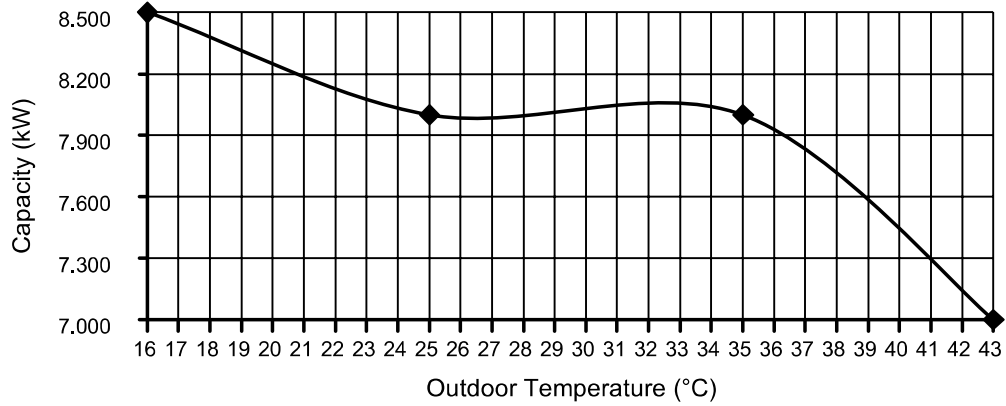
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 19°C

Indoor water outlet temperature : 14°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

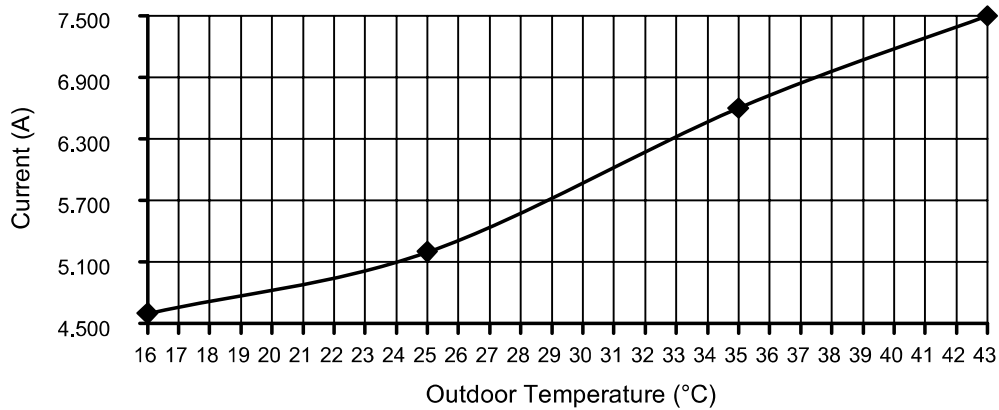
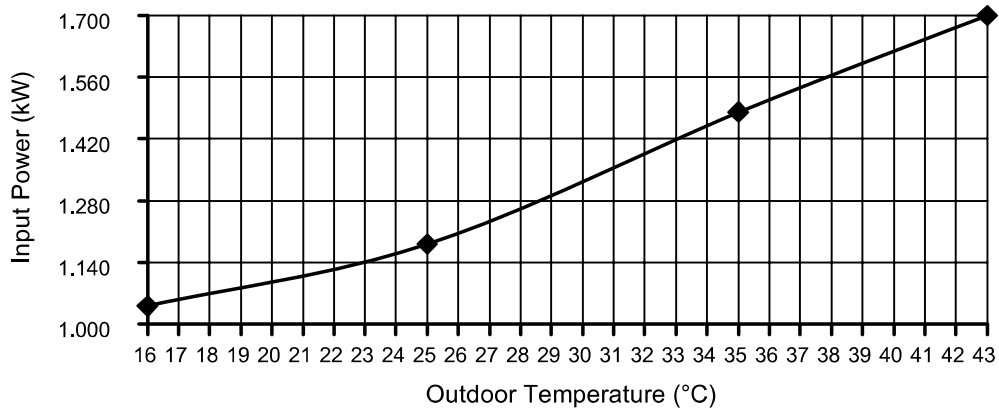
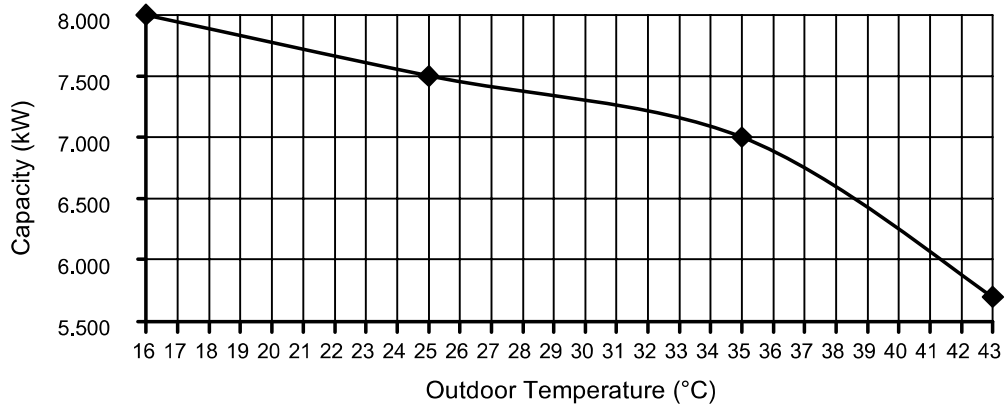
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 23°C

Indoor water outlet temperature : 18°C

Piping length : 7 m



20.1.3 WH-WDG09LE5

Heating Characteristics at Different Outdoor Air Temperature

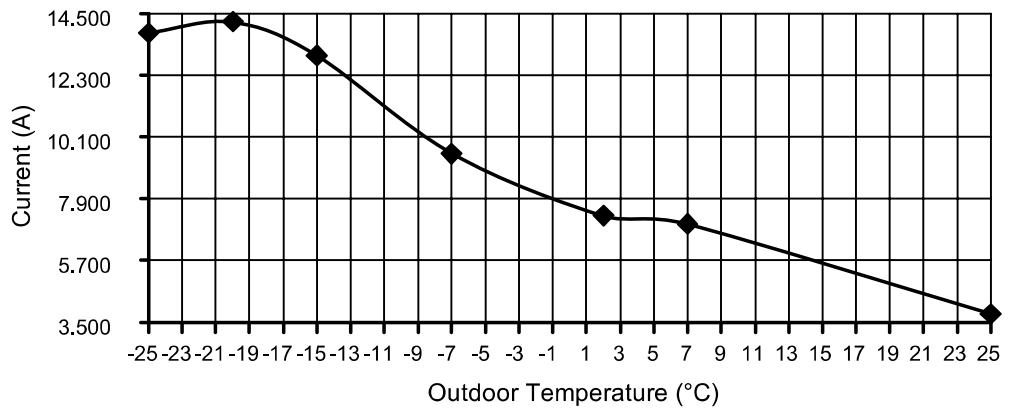
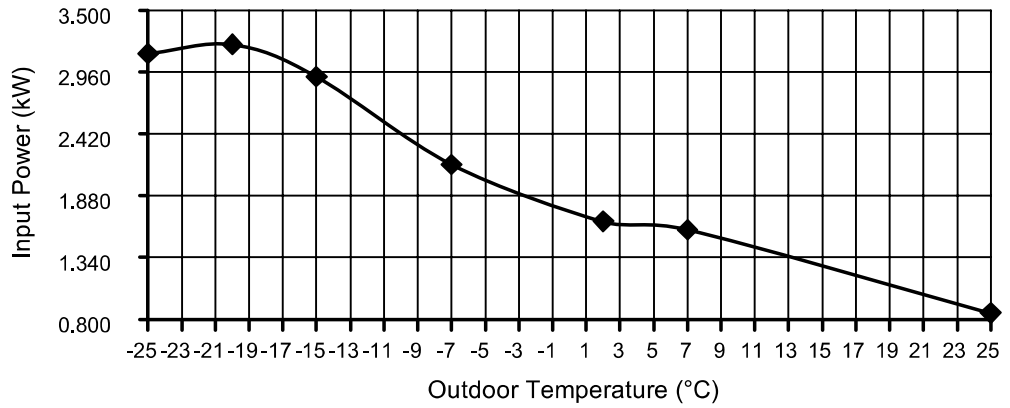
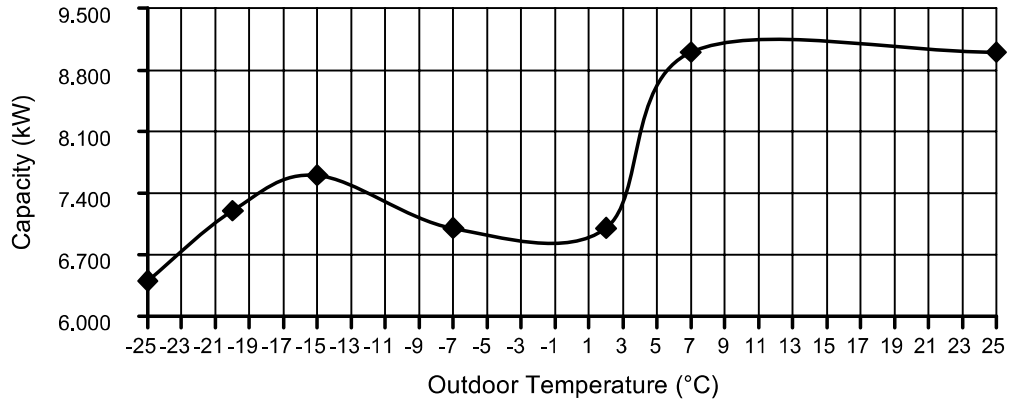
Condition

Outdoor air temperature : 7°C (DBT), 6°C (WBT)

Indoor water inlet temperature : 30°C

Indoor water outlet temperature : 25°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

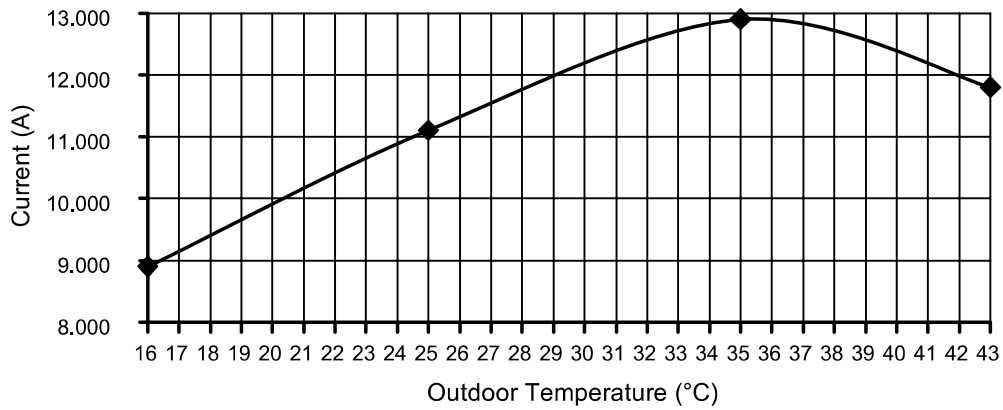
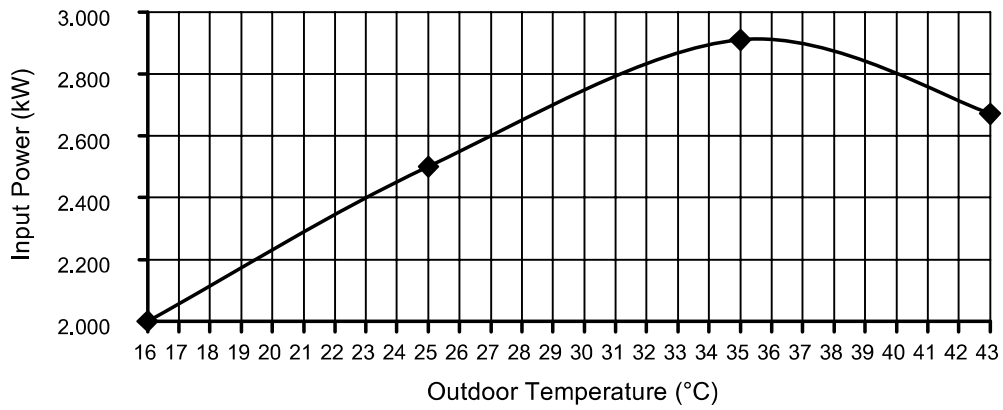
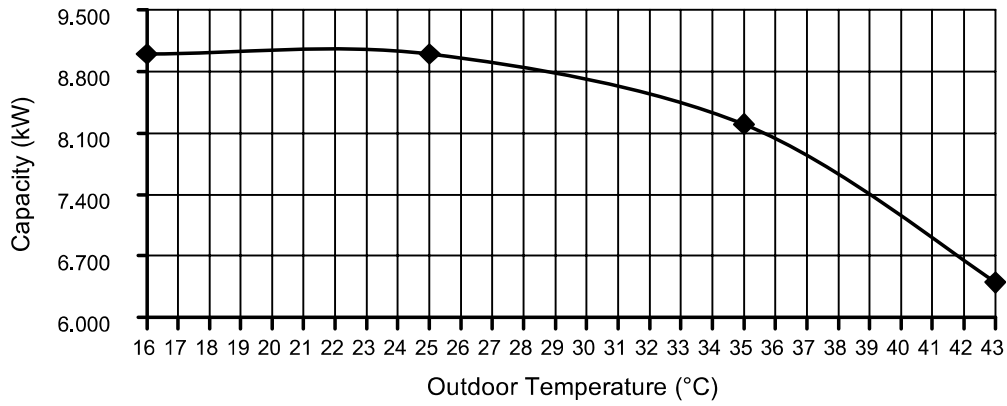
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 12°C

Indoor water outlet temperature : 7°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

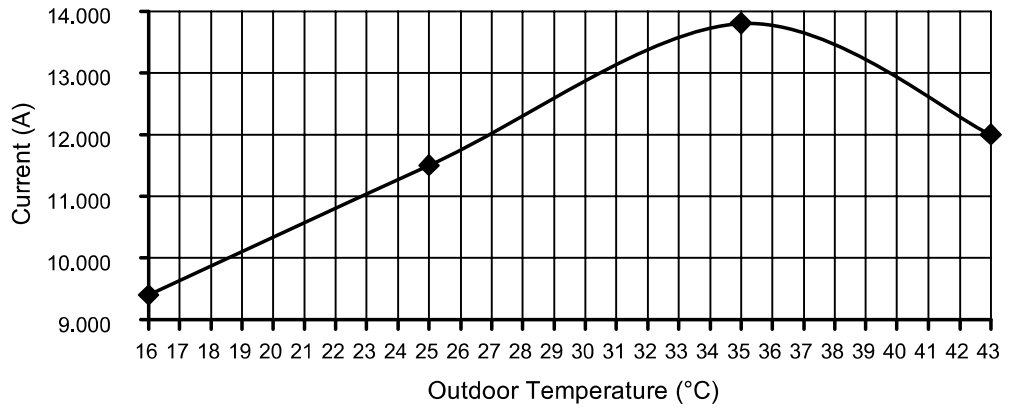
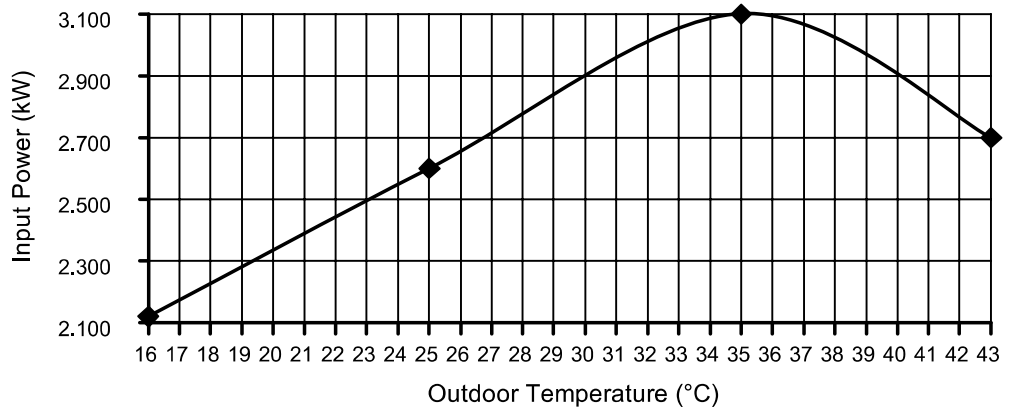
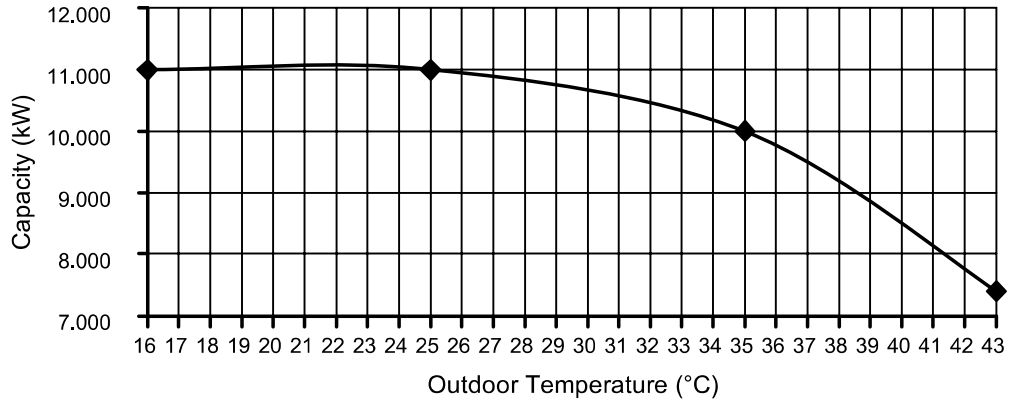
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 19°C

Indoor water outlet temperature : 14°C

Piping length : 7 m



Cooling Characteristics at Different Outdoor Air Temperature

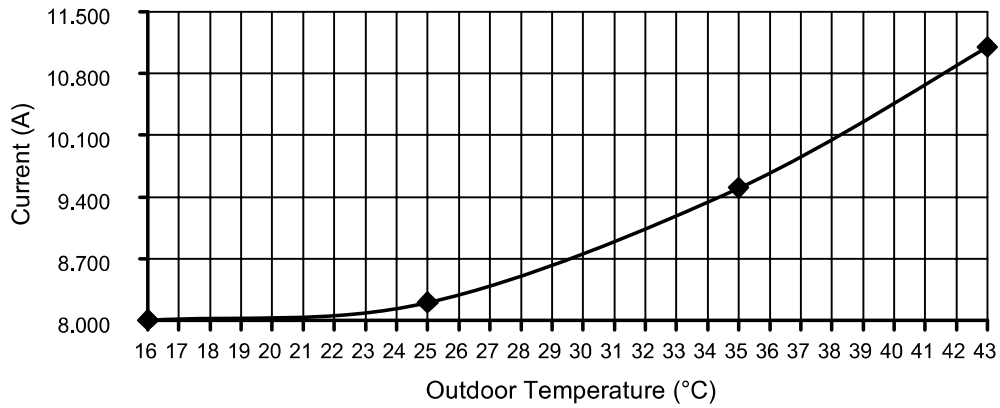
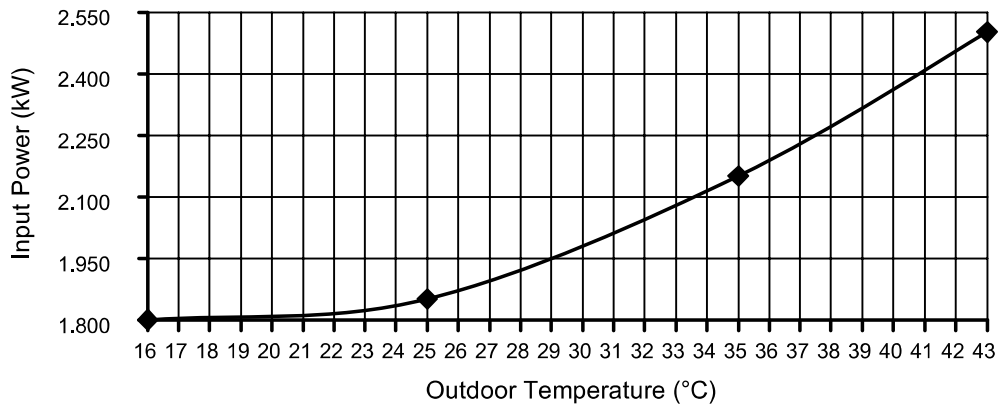
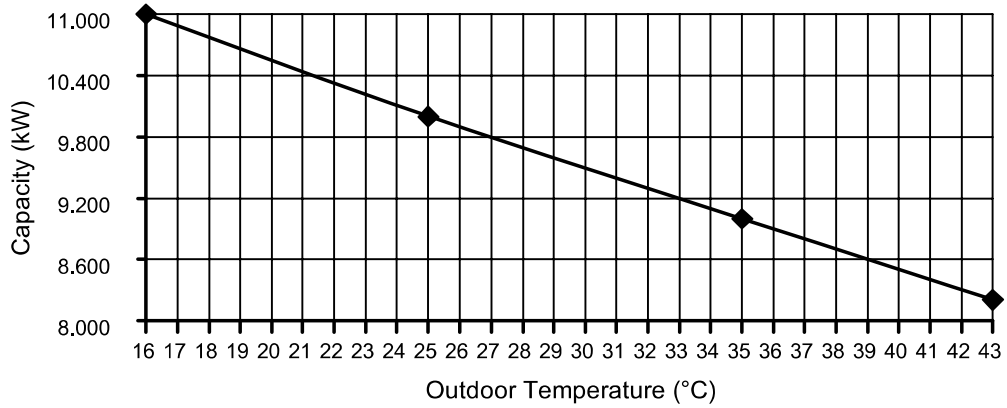
Condition

Outdoor air temperature : 35°C (DBT), -°C (WBT)

Indoor water inlet temperature : 23°C

Indoor water outlet temperature : 18°C

Piping length : 7 m



20.2 Heating Capacity Table

20.2.1 WH-WDG05LE5

Water Out (°C)	25			35			45		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	2600	1580	7.0	2450	1760	7.8	3800	2300	10.2
-20	4900	2010	8.9	4700	2190	9.7	4500	2370	10.5
-15	5000	1750	7.8	5000	1940	8.6	5000	2310	10.2
-7	5000	1370	6.1	5000	1660	7.4	5000	1940	8.6
2	5000	1120	5.0	5000	1420	6.3	5000	1710	7.6
7	5000	760	3.4	5000	990	4.4	5000	1270	5.6
25	5000	370	1.8	5000	600	2.9	5000	860	3.8

Water Out (°C)	55			65			75		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	3600	2460	10.9	-	-	-	-	-	-
-20	4250	2570	11.4	-	-	-	-	-	-
-15	5000	2630	11.7	4600	2880	12.8	-	-	-
-7	5000	2360	10.5	5000	2620	11.6	4300	2870	12.7
2	5000	2140	9.5	5000	2540	11.3	4600	2760	12.2
7	5000	1630	7.2	5000	2030	9.0	4700	2570	11.4
25	5000	1100	4.9	5000	1470	6.5	4700	1990	8.8

20.2.2 WH-WDG07LE5

Water Out (°C)	25			35			45		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	3150	2020	9.0	4750	2530	11.2	4300	2660	11.8
-20	5500	2390	10.6	5500	2560	11.4	5100	2750	12.2
-15	6000	2200	9.8	6000	2500	11.1	5500	2600	11.5
-7	5600	1640	7.3	5800	1930	8.6	5800	2320	10.3
2	6850	1600	7.1	6850	2000	8.9	6600	2340	10.4
7	7000	1100	4.9	7000	1420	6.3	7000	1900	8.4
25	7000	500	2.4	7000	810	3.7	7000	1230	5.5

Water Out (°C)	55			65			75		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	3950	2780	12.3	-	-	-	-	-	-
-20	4900	2970	13.2	-	-	-	-	-	-
-15	5200	2890	12.8	4800	3000	13.3	-	-	-
-7	5800	2740	12.2	5700	3160	14.0	4800	3560	15.8
2	6250	2670	11.8	5600	2800	12.4	5000	3130	13.9
7	7000	2350	10.4	6600	2850	12.6	6300	3400	15.1
25	7000	1650	7.3	7000	2060	9.1	7000	2800	12.4

20.2.3 WH-WDG09LE5

Water Out (°C)	25			35			45		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	6400	3120	13.8	6050	3430	15.2	5250	3280	14.6
-20	7200	3200	14.2	7000	3560	15.8	6200	3500	15.5
-15	7600	2920	13.0	7400	3200	14.2	6800	3400	15.1
-7	7000	2150	9.5	7000	2500	11.1	7000	2980	13.2
2	7000	1650	7.3	7000	2050	9.1	7000	2500	11.1
7	9000	1580	7.0	9000	1980	8.8	9000	2580	11.4
25	9000	850	3.8	9000	1280	5.7	9000	1730	7.7

Water Out (°C)	55			65			75		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
-25	4650	3150	14.0	-	-	-	-	-	-
-20	5600	3430	15.2	-	-	-	-	-	-
-15	6300	3550	15.7	5600	3550	15.7	-	-	-
-7	7000	3290	14.6	6500	3530	15.7	5400	3560	15.8
2	7000	2900	12.9	6700	3350	14.9	5700	3400	15.1
7	8900	2940	13.0	8900	3560	15.8	7300	3560	15.8
25	9000	2200	9.8	9000	2700	12.0	8000	2900	12.9

20.3 Cooling Capacity Table

20.3.1 WH-WDG05LE5

Water Out (°C)	7			14			18		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
16	6000	1010	4.5	7500	1050	4.7	6000	670	3.0
25	5700	1200	5.3	7000	1200	5.3	5700	780	3.5
35	5000	1550	6.9	6300	1440	6.4	5000	1000	4.4
43	4500	1600	7.1	5600	1640	7.3	4500	1120	5.0

20.3.2 WH-WDG07LE5

Water Out (°C)	7			14			18		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
16	7000	1360	6.0	8500	1390	6.2	8000	1040	4.6
25	7000	1650	7.3	8000	1570	7.0	7500	1180	5.2
35	7000	2310	10.2	8000	2260	10.0	7000	1480	6.6
43	6000	2500	11.1	7000	2600	11.5	5700	1700	7.5

20.3.3 WH-WDG09LE5

Water Out (°C)	7			14			18		
Outdoor Air (°C)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)	Capacity (W)	Input Power (W)	Current (A)
16	9000	2000	8.9	11000	2120	9.4	11000	1800	8.0
25	9000	2500	11.1	11000	2600	11.5	10000	1850	8.2
35	8200	2910	12.9	10000	3100	13.8	9000	2150	9.5
43	6400	2670	11.8	7400	2700	12.0	8200	2500	11.1