

OUTPUT DETAILS WPC 5/7/10/13

Brine | water heat pump WPC 5

Heating output (kW), power consumption (kW) and coefficient of performance ϵ

Heat source temp. °C	Heating output			Power consumption			COP		
	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C
	kW	kW	kW	kW	kW	kW	ϵ	ϵ	ϵ
-5	5.0	4.8	-	1.4	2.0	-	3.6	2.4	-
0	5.8	5.5	-	1.3	2.0	-	4.3	2.8	-
+5	6.7	6.3	5.8	1.3	1.9	2.5	5.0	3.3	2.3
+10	7.2	6.7	6.4	1.3	1.9	2.5	5.4	3.6	2.6
+15	7.9	7.6	7.2	1.3	1.9	2.5	6.1	4.1	2.9
+20	8.9	8.3	8.0	1.3	1.9	2.4	6.8	4.4	3.3

Brine | water heat pump WPC 7

Heating output (kW), power consumption (kW) and coefficient of performance ϵ

Heat source temp. °C	Heating output			Power consumption			COP		
	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C
	kW	kW	kW	kW	kW	kW	ϵ	ϵ	ϵ
-5	6.7	6.3	-	1.8	2.6	-	3.7	2.5	-
0	7.8	7.3	-	1.8	2.5	-	4.4	2.9	-
+5	9.0	8.4	7.7	1.7	2.5	3.1	5.2	3.4	2.5
+10	10.0	9.4	8.6	1.8	2.6	3.1	5.6	3.7	2.8
+15	11.3	10.8	9.7	1.8	2.6	3.1	6.4	4.2	3.1
+20	11.9	11.3	10.8	1.8	2.5	3.1	6.6	4.5	3.5

Brine | water heat pump WPC 10

Heating output (kW), power consumption (kW) and coefficient of performance ϵ

Heat source temp. °C	Heating output			Power consumption			COP		
	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C
	kW	kW	kW	kW	kW	kW	ϵ	ϵ	ϵ
-5	8.6	8.2	-	2.2	3.2	-	3.9	2.5	-
0	9.9	9.5	-	2.2	3.1	-	4.5	3.0	-
+5	11.4	10.8	10.1	2.2	3.1	4.0	5.3	3.5	2.5
+10	12.5	12.2	11.3	2.3	3.2	4.0	5.5	3.8	2.8
+15	14.0	13.5	12.8	2.3	3.2	4.0	6.0	4.2	3.2
+20	15.7	14.9	14.1	2.3	3.1	4.0	6.9	4.8	3.5

Brine | water heat pump WPC 13

Heating output (kW), power consumption (kW) and coefficient of performance ϵ

Heat source temp. °C	Heating output			Power consumption			COP		
	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C	35 °C	50 °C	60 °C
	kW	kW	kW	kW	kW	kW	ϵ	ϵ	ϵ
-5	11.6	11.2	-	3.1	4.2	-	3.8	2.7	-
0	13.4	12.7	-	3.1	4.3	-	4.4	3.0	-
+5	15.1	14.4	13.8	2.9	4.3	5.2	5.2	3.3	2.7
+10	17.1	16.1	15.3	3.0	4.3	5.2	5.6	3.8	2.9
+15	19.0	18.0	17.2	3.0	4.2	5.2	6.4	4.3	3.3
+20	21.1	20.1	19.1	3.0	4.2	5.2	6.9	4.8	3.7