

**GEOPAC ECO AND ECO HP RANGE**  
**REVERSIBLE LOW TEMPERATURE GROUND SOURCE HEAT PUMP**  
 JOLIET TECHNOLOGY SL

Heat pump	Type	GSWW8/B	GSWW10B	GSWW13/B	GSWW15/B	
Dimensions, weights, connection dimensions						
Dimensions	HxWxD	1000x600X600 mm				
Weight	kg	105	110	120	130	
Refrigerant	Type	R407C				
Filling weight	kg	2	2.3	2.5	2.8	
Permissible operating pressure	Mpa	3	3	3	3	
Pipe connector-hot side	Inch	G1"	G1"	G1"	G1"	
Pipe connector-cold side	Inch	G1"	G1"	G11/4"	G11/4"	
Evaporator	Type	Braze plate heat exchanger				
Condenser	Type	Braze plate heat exchanger				
Compressor	Hitachi	1xScroll	1xScroll	1xScroll	1xScroll	
Performance Heating						
Heat output	at B0/W35(1)	kW	8	10.2	13.1	15.5
Power consumption		kW	1.9	2.36	2.95	3.53
Performance factor		.	4.21	4.32	4.44	4.39
Heat output	at W10/W35(2)	kW	10.1	12.9	16.7	19.6
Power consumption		kW	1.89	2.39	3.01	3.57
Performance factor		.	5.34	5.4	5.55	5.49
Process medium	.	Brine/water values in [ ]				
Process medium	.	Brine made from water with 33Vol.% ethylene glycol				
Volume flow	inside	m3/h	0.88[0.72]	1.1[0.9]	1.4[1.2]	1.7[1.4]
	outside	m3/h	2.1[1.8]	2.6[2.2]	3.4[3.1]	4.1[3.7]
Performance Cooling						
Cooling output	at W20/W7(3)	kW	9.2	12	15	18
Power consumption		kW	1.65	2.1	2.6	3.2
Performance factor		.	5.58	5.71	5.77	5.63
Volume flow	inside	m3/h	1.58	2.1	2.58	3.1
	outside	m3/h	2.1	2.6	3.4	4.1
Power	Type	Single phase	Single phase	Triple phase	Triple phase	
Sound power level	dB(A)	46	47	48	48	
(1)B0/W35=Brine water inlet temperature 0°, heating flow 35°						
(2)W10/W35=Well water inlet temperature 10°, heating flow 35°						
(3)W20/W7=Outside water inlet temperature 20°, cooling flow 7°						

Heat pump		Type	GSWW20/B	GSWW26/B	GSWW30/B	
Dimensions, weights, connection dimensions						
Dimensions		HxWxD	1000x800X600 mm			
Weight		kg	180	195	210	
Refrigerant		Type	R407C			
Filling weight		kg	4	4.5	5	
Permissible operating pressure		Mpa	3	3	3	
Pipe connector-hot side		Inch	G11/4"	G11/4"	G11/4"	
Pipe connector-cold side		Inch	G11/2"	G11/2"	G11/2"	
Evaporator		Type	Braze plate heat exchanger			
Condenser		Type	Braze plate heat exchanger			
Compressor		Hitachi	2xScroll	2xScroll	2xScroll	
Performance Heat pump						
Heat output		kW	20	26	30.5	
Power consumption		at B0/W35(1) kW	4.45	5.8	6.85	
Performance factor		.	4.49	4.48	4.45	
Heat output		kW	25.8	33.3	39	
Power consumption		at W10/W35(2) kW	4.7	6.1	7.1	
Performance factor		.	5.49	5.46	5.49	
Process medium		.	Brine/water values in [ ]			
Process medium		.	Brine made from water with 33Vol.% ethylene glycol			
Volume flow		inside	m3/h	2.2[1.8]	2.8[2.4]	3.4[2.8]
		outside	m3/h	5.2[4.4]	6.8[6.2]	8.2[7.4]
Performance Cooling						
Cooling output		kW	24	30	36	
Power consumption		at W20/W7(3) kW	4.1	5.2	6.4	
Performance factor		.	5.85	5.77	5.63	
Volume flow		inside	m3/h	4.2	5.2	6.2
		outside	m3/h	5.2	6.8	8.2
Power		Type	Triple phase			
Sound power level		dB(A)	49	49	49	
(1)B0/W35=Brine water inlet temperature 0°, heating flow 35°						
(2)W10/W35=Well water inlet temperature 10°, heating flow 35°						
(3)W20/W7=Outside water inlet temperature 20°, cooling flow 7°						