

E3 / GAHP WS performance

Heating capacity (kW)

		Water delivery temperature							
		Heating							DHW
		35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
Water return temperature to evaporator	6 °C	43.7	42.8	41.1	39.4	37.2	35.3	33.4	12.6
	7 °C	43.8	42.9	41.4	39.9	37.8	35.9	34.0	12.9
	8 °C	43.8	43.0	41.8	40.5	38.4	36.5	34.6	13.1
	9 °C	43.9	43.1	42.1	41.0	39.0	37.1	35.2	13.4
	10 °C	43.9	43.2	42.4	41.6	39.6	37.7	35.8	13.6
	11 °C	43.9	43.3	42.6	41.8	39.8	37.9	36.0	13.8
	12 °C	43.9	43.4	42.7	42.0	40.0	38.1	36.2	13.9
	13 °C	43.9	43.5	42.8	42.2	40.2	38.3	36.5	14.0
	14 °C	43.9	43.5	43.0	42.4	40.4	38.6	36.7	14.0
	15 °C	43.9	43.6	43.1	42.6	40.6	38.8	36.9	14.1
	16 °C	43.9	43.6	43.2	42.8	40.8	39.0	37.1	14.2
	17 °C	43.9	43.6	43.3	43.0	41.1	39.2	37.4	14.3
	18 °C	43.9	43.6	43.4	43.2	41.3	39.4	37.6	14.4
	19 °C	43.9	43.6	43.5	43.4	41.5	39.7	37.8	14.5
	20 °C	43.9	43.6	43.6	43.6	41.7	39.9	38.1	14.6
	21 °C	43.9	43.6	43.6	43.6	41.9	40.1	38.3	14.7
	22 °C	43.9	43.6	43.6	43.6	42.1	40.3	38.5	14.8
	23 °C	43.9	43.6	43.6	43.6	42.4	40.6	38.8	14.9
	24 °C	43.9	43.6	43.6	43.6	42.6	40.8	39.0	15.0
	25 °C	43.9	43.6	43.6	43.6	42.8	41.0	39.2	15.1
26 °C	43.9	43.6	43.6	43.6	42.8	41.1	39.4	15.2	
27 °C	43.9	43.6	43.6	43.6	42.8	41.2	39.7	15.3	
28 °C	43.9	43.6	43.6	43.6	42.8	41.3	39.9	15.4	
29 °C	43.9	43.6	43.6	43.6	42.8	41.5	40.1	15.5	
30 °C	43.9	43.6	43.6	43.6	42.8	41.6	40.4	15.5	

Efficiency (GUE)

		Water delivery temperature							
		Heating							DHW
		35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
Water return temperature to evaporator	6 °C	1.734	1.697	1.630	1.563	1.478	1.401	1.324	1.000
	7 °C	1.736	1.702	1.644	1.585	1.501	1.424	1.348	1.023
	8 °C	1.738	1.707	1.657	1.607	1.524	1.448	1.372	1.039
	9 °C	1.740	1.711	1.670	1.629	1.547	1.471	1.396	1.062
	10 °C	1.743	1.716	1.683	1.651	1.570	1.495	1.419	1.078
	11 °C	1.743	1.719	1.689	1.659	1.578	1.503	1.428	1.093
	12 °C	1.743	1.722	1.694	1.667	1.587	1.512	1.438	1.100
	13 °C	1.743	1.724	1.699	1.675	1.595	1.521	1.447	1.108
	14 °C	1.743	1.727	1.705	1.683	1.604	1.530	1.456	1.115
	15 °C	1.743	1.728	1.709	1.690	1.612	1.539	1.465	1.122
	16 °C	1.743	1.728	1.713	1.698	1.621	1.548	1.474	1.130
	17 °C	1.743	1.728	1.717	1.706	1.630	1.556	1.483	1.137
	18 °C	1.743	1.728	1.721	1.714	1.638	1.565	1.492	1.145
	19 °C	1.743	1.728	1.725	1.722	1.647	1.574	1.502	1.152
	20 °C	1.743	1.728	1.729	1.730	1.655	1.583	1.511	1.160
	21 °C	1.743	1.728	1.729	1.730	1.664	1.592	1.520	1.167
	22 °C	1.743	1.728	1.729	1.730	1.672	1.601	1.529	1.175
	23 °C	1.743	1.728	1.729	1.730	1.681	1.609	1.538	1.182
	24 °C	1.743	1.728	1.729	1.730	1.689	1.618	1.547	1.189
	25 °C	1.743	1.728	1.729	1.730	1.698	1.627	1.556	1.197
26 °C	1.743	1.728	1.729	1.730	1.698	1.632	1.565	1.204	
27 °C	1.743	1.728	1.729	1.730	1.698	1.636	1.575	1.212	
28 °C	1.743	1.728	1.729	1.730	1.698	1.641	1.584	1.219	
29 °C	1.743	1.728	1.729	1.730	1.698	1.645	1.593	1.227	
30 °C	1.743	1.728	1.729	1.730	1.698	1.650	1.602	1.234	

Heat recovered from cold sink - water (kW)

		Water delivery temperature (hot side)							
		Cold sink							Cold sink*
		35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	
Water return temperature to evaporator	6 °C	17.6	17.6	15.9	14.2	12.0	10.1	8.2	0.0
	7 °C	17.6	17.7	16.2	14.7	12.6	10.7	8.8	0.3
	8 °C	17.6	17.8	16.6	15.3	13.2	11.3	9.4	0.5
	9 °C	17.6	17.9	16.7	15.8	13.8	11.9	10.0	0.8
	10 °C	17.6	18.0	16.8	16.6	14.5	12.7	10.8	1.0
	11 °C	18.7	18.1	17.4	16.6	14.6	12.7	10.8	1.2
	12 °C	18.7	18.2	17.5	16.8	14.8	12.9	11.0	1.3
	13 °C	18.7	18.3	17.6	17.0	15.0	13.1	11.3	1.4
	14 °C	18.7	18.3	17.8	17.2	15.2	13.4	11.5	1.4
	15 °C	18.7	18.4	17.9	17.4	15.4	13.6	11.7	1.5
	16 °C	18.7	18.4	18.0	17.6	15.6	13.8	11.9	1.6
	17 °C	18.7	18.4	18.1	17.8	15.9	14.0	12.2	1.7
	18 °C	18.7	18.4	18.2	18.0	16.1	14.2	12.4	1.8
	19 °C	18.7	18.4	18.3	18.2	16.3	14.5	12.6	1.9
	20 °C	18.7	18.4	18.4	18.4	16.5	14.7	12.9	2.0
	21 °C	18.7	18.4	18.4	18.4	16.7	14.9	13.1	2.1
	22 °C	18.7	18.4	18.4	18.4	16.9	15.1	13.3	2.2
	23 °C	18.7	18.4	18.4	18.4	17.2	15.4	13.6	2.3
	24 °C	18.7	18.4	18.4	18.4	17.4	15.6	13.8	2.4
	25 °C	18.7	18.4	18.4	18.4	17.6	15.8	14.0	2.5
26 °C	18.7	18.4	18.4	18.4	17.6	15.9	14.2	2.6	
27 °C	18.7	18.4	18.4	18.4	17.6	16.0	14.5	2.7	
28 °C	18.7	18.4	18.4	18.4	17.6	16.1	14.7	2.8	
29 °C	18.7	18.4	18.4	18.4	17.6	16.3	14.9	2.9	
30 °C	18.7	18.4	18.4	18.4	17.6	16.4	15.2	2.9	