

8 KW Performance data															
Ambient Temp.(°C)			-25	-20	-15	-10	-7	-5	0	2	5	7	10	15	20
Water Outlet Temp. 35°C	MAX	Heating capacity (kW)	4.19	4.95	5.92	6.90	7.49	7.90	8.87	9.25	10.68	11.20	11.35	11.59	11.87
		Input power (kW)	2.24	2.22	2.28	2.34	2.36	2.38	2.42	2.42	2.28	2.33	2.27	2.18	2.08
		COP	1.87	2.23	2.59	2.95	3.17	3.31	3.67	3.82	4.68	4.81	5.01	5.33	5.72
Water Outlet Temp. 40°C	MAX	Heating capacity (kW)	4.12	4.85	5.80	6.76	7.34	7.74	8.70	9.06	10.47	10.98	11.12	11.36	11.64
		Input power (kW)	2.36	2.31	2.37	2.41	2.44	2.46	2.48	2.49	2.43	2.48	2.42	2.32	2.22
		COP	1.75	2.10	2.45	2.80	3.01	3.15	3.50	3.64	4.30	4.42	4.60	4.89	5.25
Water Outlet Temp. 45°C	MAX	Heating capacity (kW)	4.03	4.76	5.69	6.63	7.20	7.59	8.52	8.88	10.26	10.76	10.90	11.13	11.40
		Input power (kW)	2.50	2.46	2.52	2.57	2.60	2.61	2.64	2.65	2.59	2.64	2.57	2.47	2.36
		COP	1.61	1.93	2.26	2.58	2.77	2.90	3.22	3.35	3.96	4.07	4.23	4.51	4.83
Water Outlet Temp. 50°C	MAX	Heating capacity (kW)	3.90	4.66	5.57	6.50	7.05	7.43	8.35	8.70	10.05	10.54	10.68	10.91	11.18
		Input power (kW)	2.66	2.63	2.67	2.71	2.73	2.75	2.77	2.77	2.85	2.91	2.84	2.72	2.61
		COP	1.46	1.77	2.08	2.39	2.58	2.70	3.02	3.14	3.53	3.62	3.77	4.00	4.29
Water Outlet Temp. 55°C	MAX	Heating capacity (kW)	3.82	4.57	5.46	6.37	6.91	7.29	8.18	8.53	9.85	10.33	10.47	10.69	10.95
		Input power (kW)	2.84	2.80	2.85	2.89	2.91	2.93	2.95	2.95	3.03	3.10	3.02	2.90	2.77
		COP	1.35	1.63	1.92	2.20	2.38	2.49	2.78	2.89	3.25	3.34	3.47	3.69	3.95
Water Outlet Temp. 60°C	MAX	Heating capacity (kW)	3.76	4.48	5.35	6.24	6.77	7.14	8.02	8.36	9.65	10.13	10.26	10.48	10.73
		Input power (kW)	3.13	3.08	3.13	3.18	3.20	3.22	3.24	3.24	3.33	3.41	3.32	3.19	3.05
		COP	1.20	1.45	1.71	1.96	2.12	2.22	2.47	2.58	2.90	2.97	3.09	3.29	3.52
Water Outlet Temp. 65°C	MAX	Heating capacity (kW)	/	4.39	5.25	6.11	6.64	7.00	7.86	8.19	9.46	9.92	10.06	10.27	10.52
		Input power (kW)	/	3.38	3.44	3.49	3.51	3.53	3.56	3.56	3.66	3.74	3.65	3.50	3.35
		COP	/	1.30	1.53	1.75	1.89	1.98	2.21	2.30	2.58	2.65	2.76	2.93	3.14

10 KW Performance data															
Ambient Temp.(°C)			-25	-20	-15	-10	-7	-5	0	2	5	7	10	15	20
Water Outlet Temp. 35°C	MAX	Heating capacity (kW)	4.77	5.68	6.81	7.94	8.62	9.08	10.21	10.66	12.34	13.00	13.15	13.39	13.68
		Input power (kW)	2.44	2.49	2.61	2.71	2.75	2.78	2.84	2.86	2.70	2.76	2.68	2.57	2.44
		COP	1.95	2.28	2.61	2.94	3.13	3.26	3.59	3.72	4.58	4.71	4.90	5.22	5.60
Water Outlet Temp. 40°C	MAX	Heating capacity (kW)	4.68	5.56	6.67	7.78	8.45	8.89	10.00	10.45	12.09	12.74	12.89	13.12	13.41
		Input power (kW)	2.57	2.60	2.71	2.80	2.84	2.86	2.92	2.94	2.87	2.95	2.86	2.74	2.61
		COP	1.82	2.14	2.46	2.78	2.98	3.10	3.42	3.55	4.21	4.33	4.50	4.79	5.14
Water Outlet Temp. 45°C	MAX	Heating capacity (kW)	4.58	5.45	6.54	7.63	8.28	8.72	9.80	10.24	11.85	12.49	12.63	12.86	13.14
		Input power (kW)	2.74	2.76	2.88	2.98	3.02	3.05	3.11	3.13	3.06	3.14	3.05	2.92	2.78
		COP	1.67	1.97	2.27	2.56	2.74	2.86	3.15	3.27	3.88	3.98	4.14	4.41	4.73
Water Outlet Temp. 50°C	MAX	Heating capacity (kW)	4.49	5.34	6.41	7.48	8.12	8.54	9.61	10.03	11.62	12.24	12.37	12.60	12.88
		Input power (kW)	2.91	2.95	3.06	3.14	3.18	3.21	3.26	3.28	3.37	3.45	3.36	3.22	3.07
		COP	1.54	1.81	2.10	2.38	2.55	2.67	2.95	3.06	3.45	3.55	3.69	3.92	4.20
Water Outlet Temp. 55°C	MAX	Heating capacity (kW)	4.40	5.24	6.28	7.33	7.95	8.37	9.42	9.83	11.38	11.99	12.13	12.35	12.62
		Input power (kW)	3.10	3.14	3.25	3.34	3.39	3.41	3.47	3.49	3.58	3.67	3.57	3.42	3.26
		COP	1.42	1.67	1.93	2.19	2.35	2.45	2.72	2.82	3.18	3.26	3.39	3.61	3.87
Water Outlet Temp. 60°C	MAX	Heating capacity (kW)	4.31	5.13	6.16	7.18	7.79	8.20	9.23	9.64	11.16	11.75	11.88	12.10	12.37
		Input power (kW)	3.43	3.45	3.58	3.68	3.72	3.75	3.81	3.83	3.94	4.04	3.93	3.76	3.59
		COP	1.26	1.49	1.72	1.95	2.09	2.19	2.42	2.51	2.83	2.91	3.02	3.22	3.45
Water Outlet Temp. 65°C	MAX	Heating capacity (kW)	/	5.03	6.03	7.04	7.64	8.04	9.04	9.44	10.93	11.52	11.65	11.86	12.12
		Input power (kW)	/	3.79	3.93	4.04	4.09	4.12	4.19	4.21	4.33	4.44	4.32	4.13	3.94
		COP	/	1.33	1.53	1.74	1.87	1.95	2.16	2.24	2.53	2.59	2.70	2.87	3.07

12 KW Performance data															
Ambient Temp.(°C)			-25	-20	-15	-10	-7	-5	0	2	5	7	10	15	20
Water Outlet Temp. 35°C	MAX	Heating capacity (kW)	6.52	7.88	9.24	10.60	11.42	11.96	13.32	13.87	15.74	15.86	16.03	16.31	16.65
		Input power (kW)	3.24	3.41	3.54	3.64	3.70	3.73	3.80	3.83	3.91	3.79	3.64	3.40	3.17
		COP	2.01	2.31	2.61	2.91	3.09	3.21	3.50	3.62	4.03	4.18	4.41	4.79	5.25
Water Outlet Temp. 40°C	MAX	Heating capacity (kW)	6.39	7.72	9.06	10.39	11.19	11.72	13.06	13.59	15.43	15.54	15.71	15.99	16.32
		Input power (kW)	3.41	3.55	3.67	3.77	3.81	3.84	3.91	3.93	4.17	4.04	3.88	3.63	3.39
		COP	1.87	2.17	2.47	2.76	2.93	3.05	3.34	3.46	3.70	3.84	4.05	4.40	4.82
Water Outlet Temp. 45°C	MAX	Heating capacity (kW)	6.26	7.57	8.88	10.18	10.97	11.49	12.80	13.32	15.12	15.23	15.40	15.67	15.99
		Input power (kW)	3.62	3.78	3.91	4.01	4.06	4.09	4.16	4.18	4.44	4.30	4.13	3.87	3.60
		COP	1.73	2.00	2.27	2.54	2.70	2.81	3.08	3.18	3.41	3.54	3.73	4.05	4.44
Water Outlet Temp. 50°C	MAX	Heating capacity (kW)	6.14	7.42	8.70	9.98	10.75	11.26	12.54	13.05	14.82	14.93	15.09	15.35	15.67
		Input power (kW)	3.86	4.04	4.15	4.23	4.27	4.30	4.36	4.38	4.88	4.74	4.55	4.26	3.98
		COP	1.59	1.84	2.10	2.36	2.51	2.62	2.88	2.98	3.04	3.15	3.32	3.60	3.94
Water Outlet Temp. 55°C	MAX	Heating capacity (kW)	6.01	7.27	8.52	9.78	10.53	11.04	12.29	12.79	14.52	14.63	14.79	15.05	15.36
		Input power (kW)	4.11	4.30	4.41	4.50	4.55	4.58	4.64	4.66	5.19	5.04	4.84	4.54	4.24
		COP	1.47	1.69	1.93	2.17	2.32	2.41	2.65	2.75	2.80	2.90	3.06	3.32	3.63
Water Outlet Temp. 60°C	MAX	Heating capacity (kW)	5.89	7.12	8.35	9.58	10.32	10.81	12.04	12.54	14.23	14.34	14.49	14.75	15.05
		Input power (kW)	4.53	4.73	4.85	4.95	5.00	5.03	5.10	5.12	5.71	5.55	5.32	4.99	4.66
		COP	1.30	1.51	1.72	1.94	2.06	2.15	2.36	2.45	2.49	2.58	2.72	2.95	3.23
Water Outlet Temp. 65°C	MAX	Heating capacity (kW)	/	6.98	8.19	9.39	10.12	10.60	11.80	12.29	13.95	14.05	14.20	14.45	14.75
		Input power (kW)	/	5.19	5.33	5.44	5.50	5.53	5.60	5.63	6.28	6.09	5.85	5.48	5.12
		COP	/	1.34	1.54	1.73	1.84	1.92	2.11	2.18	2.22	2.31	2.43	2.64	2.88

8-12 KW Performance data																		
Ambient Temp.(°C)			-25°C	-20°C	-15°C	-10°C	-7°C	-5°C	0°C	2°C	5°C	7°C	10°C	15°C	20°C			
Water Outlet Temp. 35°C	MIN	Heating capacity	4.18	4.53	4.62	4.5	4.96	4.44	3.35	2.9	3.07	3.25	3.49	4.02	4.39			
		Input power (kW)	1.98	1.79	1.63	1.49	1.49	1.28	0.83	0.65	0.63	0.58	0.57	0.56	0.53			
		COP	2.11	2.53	2.84	3.02	3.34	3.45	4.03	4.48	4.84	5.56	6.13	7.21	8.32			
Water Outlet Temp. 40°C	MIN	Heating capacity	4.16	4.49	4.62	4.47	4.96	4.44	3.36	2.75	2.92	3.09	3.32	3.83	4.16			
		Input power (kW)	2.14	1.92	1.75	1.63	1.61	1.42	0.91	0.69	0.68	0.64	0.65	0.64	0.62			
		COP	1.95	2.34	2.64	2.75	3.07	3.13	3.67	4.01	4.32	4.85	5.14	6.03	6.77			
Water Outlet Temp. 45°C	MIN	Heating capacity	4.14	4.48	4.59	4.47	4.95	4.43	3.28	2.68	2.84	3	3.23	3.68	4.05			
		Input power (kW)	2.27	2.08	1.9	1.74	1.77	1.56	0.99	0.76	0.76	0.72	0.71	0.72	0.7			
		COP	1.82	2.16	2.42	2.57	2.8	2.83	3.31	3.53	3.72	4.2	4.56	5.13	5.82			