

Climatemaster Water to Air Performance Data - UK conditions

Cooling at 24/17C db/wb air on with water at 35C

Heating at 20C air on with water at 20C

1ph Models

Model Ref	Nominal Cap KW	Total Cool KW	Sens Cool KW	Heat KW	Air Vol m3/hr	Air PD Pa	Energy EER/COP	Water Flow l/s	Water PD Kpa	Air off Cool DB C	Air off Cool WB C	Water Out Cool C	Air off Heat C	Water Out Heat C	Input KW	Run A	MCB A
TCH006	1.8	1.2	1.2	1.9	324	106	2.8/4.57	0.1	3.5	11.5	11.4	40	40	15.4	0.43	1.9	13
TCH009	2.6	1.8	1.8	2.8	425	92	2.9/4.54	0.1	9.1	11.5	11.5	40	40	15.6	0.62	2.7	13
TCH012	3.5	2.5	2.5	3.8	518	100	3.1/4.48	0.2	18.6	9.5	9.4	40	42	15.5	0.81	3.5	13
TCH015	4.4	3.2	3.2	4.4	716	122	3.4/4.87	0.2	10	10.8	10.8	40	39	15.7	0.94	4.1	16
TCH018	5.2	3.7	3.7	5.2	853	91	3.2/4.89	0.2	18.8	11	10.9	40	38	15.8	1.16	5	16
TCH024	7.0	5.4	5.4	7.4	1094	142	3.2/4.93	0.3	24.9	9.4	9.4	40	40	15.5	1.69	7.3	25
TCH030	8.8	6.5	6.5	9.1	1300	118	3.4/4.87	0.4	14	9.2	9.1	40	41	15.6	1.91	8.3	25
TCH036	10.6	7.6	7.6	11.4	1595	113	3.2/4.64	0.5	18.4	9.7	9.7	40	41	15.5	2.46	10.7	32

3ph Models

Model Ref	Nominal Cap KW	Total Cool KW	Sens Cool KW	Heat KW	Air Vol m3/hr	Air PD Pa	Energy EER/COP	Water Flow l/s	Water PD Kpa	Air off Cool DB C	Air off Cool WB C	Water Out Cool C	Air off Heat C	Water Out Heat C	Input KW	Run A	MCB A
TCH030	8.8	6.5	6.5	9.1	1300	118	3.4/4.87	0.4	14	9.2	9.1	40	41	15.6	1.91	8.3	25
TCH036	10.6	7.6	7.6	11.4	1595	113	3.2/4.64	0.5	18.4	9.7	9.7	40	41	15.5	2.46	10.7	32
TCH042	12.3	9.3	9.3	13.4	1854	57	3.4/4.67	0.6	27.6	9	8.9	40	42	15.5	2.86	4.1	16
TCH048	14.1	10.8	10.8	14.2	2207	102	3.3/5.00	0.6	24.4	9.4	9.3	40	39	15.7	3.31	4.8	16
TCH060	17.6	13.2	13.2	19.7	2750	63	3.3/4.69	0.8	48.5	9.6	9.6	40	41	15.3	4.21	6.1	25

3ph Models Belt Drive

Model Ref	Nominal Cap KW	Total Cool KW	Sens Cool KW	Heat KW	Air Vol m3/hr	Air PD Pa	Energy EER/COP	Water Flow l/s	Water PD Kpa	Air off Cool DB C	Air off Cool WB C	Water Out Cool C	Air off Heat C	Water Out Heat C	Input KW	Run A	MCB A
TCH072	21.1	14.6	14.6	22.5	3060	100	2.9/4.72	0.9	14.4	9.7	9.7	40	42	15.6	4.96	7.2	25
TCH090	26.4	21.7	21.7	31.8	3568	137	3.3/4.95	1.3	32.2	5.9	5.8	40	47	15.2	6.64	9.62	32
TCH120	35.2	25.8	25.8	39.9	5098	125	3.2/4.54	1.6	49.6	8.9	8.9	40	43	15.3	8.79	12.7	32

Large Vertical Models

Model Ref	Nominal Cap KW	Total Cool KW	Sens Cool KW	Heat KW	Air Vol m3/hr	Air PD Pa	Energy EER/COP	Water Flow l/s	Water PD Kpa	Air off Cool DB C	Air off Cool WB C	Water Out Cool C	Air off Heat C	Water Out Heat C	Input KW	Run A	MCB A
TLV096	28.1	23.1	15.1	32.1	4068	112	4.0/4.94	1.3	45.3	12.9	10.5	40	43	15.2	6.5	9.8	32
TLV120	35.2	28.4	19	39.4	5098	149	3.7/5.16	1.6	33.2	12.9	10.6	40	43	15.2	7.68	11.6	32
TLV150	44.0	36.4	24.2	50.7	6768	150	3.5/4.95	2	37.1	13.4	10.9	40	42	15.1	10.25	15.5	40
TLV168	49.2	40.7	28.5	56.8	7815	150	3.8/5.11	2.2	34.1	13.1	11.1	40	42	15.1	11.11	16.8	40
TLV192	56.3	46.3	31.3	64.7	8834	150	3.9/4.98	2.5	51	13.4	11.1	40	42	15.1	12.97	19.7	50
TLV240	70.4	56.9	38.1	78.9	10188	150	3.7/5.16	3.2	37.1	12.9	10.6	40	43	15.2	15.36	23.3	50
TLV300	87.9	72.6	47.1	100.8	12744	150	3.6/4.91	3.9	41.8	13	10.5	40	44	15.1	20.51	31.1	60

Climatemaster Water to Water Performance Data - UK conditions

Water Loop Performance

Cooling water entry 12C with source entering at 35C

Heating water entry 30C with source entering at 20C

Model Size	Nominal KW	Cool KW	Cool LWT C	Cool Input KW	Cool EER	Heat KW	Heat LWT C	Heat Input KW	Heat COP	Load l/s	Load Kpa	Source l/s	Load Kpa
TMW036	10.6	5.5	8.7	2.25	2.5	11.1	36.6	1.72	6.49	0.4	8.4	0.4	13.2
TMW060	17.6	12.9	7.7	3.24	4	19.3	36.5	3.2	6.1	0.7	23.5	0.7	17.9
TMW120	35.2	25.8	7.7	6.48	4	38.6	36.5	6.41	6.1	1.4	23.5	1.4	19.7
TMW170	49.8	29.8	7.7	8.19	3.5	40.2	35.7	7.39	5.44	1.7	10.9	1.7	9.9
TMW340	99.6	60.5	7.6	16.7	3.6	80.5	35.8	14.78	5.44	3.3	24	3.3	22.6

Heating water entry 40C with source entering at 20C

Model Size	Nominal KW	Cool KW	Cool LWT C	Cool Input KW	Cool EER	Heat KW	Heat LWT C	Heat Input KW	Heat COP	Load l/s	Load Kpa	Source l/s	Load Kpa
TMW036	10.6	5.5	8.7	2.25	2.5	10.8	46.5	2.19	5.03	0.4	8.4	0.4	13.2
TMW060	17.6	12.9	7.7	3.24	4	19	46.4	3.95	4.85	0.7	23.5	0.7	17.9
TMW120	35.2	25.8	7.7	6.48	4	38	46.4	7.9	4.85	1.4	23.5	1.4	19.7
TMW170	49.8	29.8	7.7	8.19	3.5	38.7	45.5	8.68	4.45	1.7	10.9	1.7	9.9
TMW340	99.6	60.5	7.6	16.7	3.6	77.3	45.6	17.35	4.45	3.3	24	3.3	22.6

Heating water entry 50C with source entering at 20C

Model Size	Nominal KW	Cool KW	Cool LWT C	Cool Input KW	Cool EER	Heat KW	Heat LWT C	Heat Input KW	Heat COP	Load l/s	Load Kpa	Source l/s	Load Kpa
TMW036	10.6	5.5	8.7	2.25	2.5	8.2	54.9	1.95	2.87	0.4	8.4	0.4	13.2
TMW060	17.6	12.9	7.7	3.24	4	14.6	54.9	3.56	2.92	0.7	23.5	0.7	17.9
TMW120	35.2	25.8	7.7	6.48	4	29.3	54.9	7.32	2.92	1.4	23.5	1.4	19.7
TMW170	49.8	29.8	7.7	8.19	3.5	37.6	55.4	10.13	3.71	1.7	10.9	1.7	9.9
TMW340	99.6	60.5	7.6	16.7	3.6	75.1	55.4	20.25	3.71	3.3	24	3.3	22.6