Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWT-1401HW-E
Indoor unit			HWT-1401XWHM3W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/62
Rated air flow		m^3/h	4720
Type of energy input			220-240V ~.50Hz

Precautions on installation & maintenance are available in Installation Manuals and Service Manuals

Medium Temperature application

indoor outlet water temperature 55°C

For space heating			Average climate	Colder climate	Warmer climate
Rated heat output	Prated	kW	11	11	11
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	9.2	-
Tj = -7 °C	Pdh	kW	9.9	7.1	-
Tj = +2 °C	Pdh	kW	6.2	4.7	10.8
Tj = +7 °C	Pdh	kW	3.9	3.7	6.9
Tj = +12 °C	Pdh	kW	4.2	4.3	4.2
Tj = bivalent temperature	Pdh	kW	9.9	9.2	10.8
Tj = operation limit temperature	Pdh	kW	9.4	6.9	10.8
Bivalent temperature	T biv	°C	-7.0	-15.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh	-	0.9	0.9	0.9
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Copd	-	-	2.00	-
Tj = -7 °C	Copd	-	2.21	2.52	-
Tj = +2 °C	Copd	-	3.34	3.75	2.55
Tj = +7 °C	Copd	-	4.76	5.41	3.87
Tj = +12 °C	Copd	-	7.27	8.07	6.43
Tj = bivalent temperature	Copd	-	2.21	2.00	2.55
Tj = operation limit temperature	Copd	-	2.01	1.51	2.55
Operation limit temperature	TOL	°C	-10	-22	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	138	122	184
Seasonal space heating energy efficiency class			A++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.011	0.011	0.011
thermostat-off mode	Pto	kW	0.052	0.052	0.052
standby mode	Psb	kW	0.011	0.011	0.011
Crankcase heater mode	Pck	kW	0.000	0.000	0.000
Rated heat output	Psup	kW	1.7	4.1	0.0
Daily electricity consumption	Qelec	kWh	17.992	24.416	8.438
Annual electricity consumption	AEC	kWh	6567	8912	3080

Contact details

Carrier RLC Europe S.A.S - Route de Thil, 01120, Montluel,France

Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWT-1401HW-E
Indoor unit			HWT-1401XWHM3W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/62
Rated air flow		m^3/h	4720
Type of energy input			220-240V ~.50Hz

Precautions on installation & maintenance are available in Installation Manuals and Service Manuals

Low Temperature application

indoor outlet water temperature 35°C

For space heating			Average climate	Colder climate	Warmer climate
Rated heat output	Prated	kW	11	11	11
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	9.3	-
Tj = -7 °C	Pdh	kW	10.1	7.1	-
Tj = +2 °C	Pdh	kW	6.2	4.7	10.8
Tj = +7 °C	Pdh	kW	4.0	3.8	7.0
Tj = +12 °C	Pdh	kW	4.3	4.3	4.3
Tj = bivalent temperature	Pdh	kW	10.1	9.3	10.8
Tj = operation limit temperature	Pdh	kW	10.9	7.5	10.8
Bivalent temperature	T biv	°C	-7.0	-15.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh		0.9	0.9	0.9
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Copd	-	-	2.47	-
Tj = -7 °C	Copd	-	2.68	3.13	-
Tj = +2 °C	Copd	-	4.55	4.92	3.02
Tj = +7 °C	Copd	-	6.27	6.95	5.83
Tj = +12 °C	Copd	-	9.16	9.16	8.63
Tj = bivalent temperature	Copd	-	2.68	2.47	3.02
Tj = operation limit temperature	Copd	-	2.63	2.10	3.02
Operation limit temperature	TOL	°C	-10	-22	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	183	155	256
Seasonal space heating energy efficiency class			A+++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.011	0.011	0.011
thermostat-off mode	Pto	kW	0.052	0.052	0.052
standby mode	Psb	kW	0.011	0.011	0.011
Crankcase heater mode	Pck	kW	0.000	0.000	0.000
Rated heat output	Psup	kW	0.1	3.5	0.0
Daily electricity consumption	Qelec	kWh	17.992	24.416	8.438
Annual electricity consumption	AEC	kWh	5053	7101	2229

Contact details

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