Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWT-401HW-E
Indoor unit			HWT-601XWHM3W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/59
Rated air flow		m^3/h	2015
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	5	3	5
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	2.6	-
Tj = -7 °C	Pdh	kW	4.0	2.3	-
Tj = +2 °C	Pdh	kW	2.5	1.5	4.7
Tj = +7 °C	Pdh	kW	1.6	1.3	3.1
Tj = +12 °C	Pdh	kW	1.5	1.5	1.5
Tj = bivalent temperature	Pdh	kW	4.0	2.6	4.7
Tj = operation limit temperature	Pdh	kW	3.5	2.6	4.7
Bivalent temperature	T biv	°C	-7.0	-15.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh	-	0.8	0.8	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	-	-	1.76	-
Tj = -7 °C	Copd	-	2.18	2.45	-
Tj = +2 °C	Copd	-	3.48	3.18	2.41
Tj = +7 °C	Copd	-	4.28	4.77	3.74
Tj = +12 °C	Copd	-	6.35	6.44	5.74
Tj = bivalent temperature	Copd	-	2.18	1.76	2.41
Tj = operation limit temperature	Copd	-	1.83	1.79	2.41
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	135	108	169
Seasonal space heating energy efficiency class			A++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.008	0.008	0.008
thermostat-off mode	Pto	kW	0.040	0.040	0.040
standby mode	Psb	kW	0.008	0.008	0.008
Crankcase heater mode	Pck	kW	0.008	0.008	0.008
Rated heat output	Psup	kW	1.5	3.0	0.0
Daily electricity consumption	Qelec	kWh	7.455	7.762	3.967
Annual electricity consumption	AEC	kWh	2721	2833	1448

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-401HW-E
Indoor unit			HWT-601XWHM3W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/59
Rated air flow		m^3/h	2015
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	5	4	5
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	3.5	-
Tj = -7 °C	Pdh	kW	4.4	2.8	-
Tj = +2 °C	Pdh	kW	3.0	1.5	4.9
Tj = +7 °C	Pdh	kW	1.8	1.3	3.1
Tj = +12 °C	Pdh	kW	1.5	1.5	1.5
Tj = bivalent temperature	Pdh	kW	4.4	3.5	4.9
Tj = operation limit temperature	Pdh	kW	4.0	2.8	4.9
Bivalent temperature	T biv	°C	-7.0	-15.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh		0.8	0.8	0.8
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Copd	-	-	2.68	-
Tj = -7 °C	Copd	-	3.11	3.43	-
Tj = +2 °C	Copd	-	4.45	4.53	3.62
Tj = +7 °C	Copd	-	5.87	5.83	5.37
Tj = +12 °C	Copd	-	7.38	7.28	6.97
Tj = bivalent temperature	Copd	-	3.11	2.68	3.62
Tj = operation limit temperature	Copd	-	2.88	2.24	3.62
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	178	152	227
Seasonal space heating energy efficiency class			A+++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.008	0.008	0.008
thermostat-off mode	Pto	kW	0.040	0.040	0.040
standby mode	Psb	kW	0.008	0.008	0.008
Crankcase heater mode	Pck	kW	0.008	0.008	0.008
Rated heat output	Psup	kW	1.0	4.0	0.0
Daily electricity consumption	Qelec	kWh	7.455	7.762	3.967
Annual electricity consumption	AEC	kWh	2268	2691	1148

Contact details

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