Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWP-401HW-E
Indoor unit			HWP-1601XWHT8W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/51
Rated air flow		m^3/h	1813
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	4	5	2
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	3.1	-
Tj = -7 °C	Pdh	kW	3.2	3.3	-
Tj = +2 °C	Pdh	kW	2.0	2.0	1.9
Tj = +7 °C	Pdh	kW	2.6	2.6	2.3
Tj = +12 °C	Pdh	kW	2.2	2.5	2.4
Tj = bivalent temperature	Pdh	kW	3.4	3.5	1.9
Tj = operation limit temperature	Pdh	kW	3.1	2.3	1.9
Bivalent temperature	T biv	°C	-8.0	-9.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh	-	1.0	1.0	1.0
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Copd	-	-	2.60	-
Tj = -7 °C	Copd	-	2.20	2.80	-
Tj = +2 °C	Copd	-	3.10	4.00	2.50
Tj = +7 °C	Copd	-	4.10	5.10	3.50
Tj = +12 °C	Copd	-	6.00	6.80	5.50
Tj = bivalent temperature	Copd	-	2.10	2.60	2.50
Tj = operation limit temperature	Copd	-	1.90	1.70	2.50
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	127	122	146
Seasonal space heating energy efficiency class			A++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.000	0.000	0.000
thermostat-off mode	Pto	kW	0.014	0.014	0.014
standby mode	Psb	kW	0.016	0.016	0.016
Crankcase heater mode	Pck	kW	0.000	0.000	0.000
Rated heat output	Psup	kW	0.7	5.4	0.0
Daily electricity consumption	Qelec	kWh	6.562	11.553	1.863
Annual electricity consumption	AEC	kWh	2395	4217	680

Contact details

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

Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWP-401HW-E
Indoor unit			HWP-1601XWHT8W-E
Heat pump combination heater			no
Capacity control			Variable
Equipped with a supplementary heater			yes
Sound power level, indoors/outdoors	LWA	dB	40/51
Rated air flow		m^3/h	1813
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	4	6	2
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Pdh	kW	-	3.1	-
Tj = -7 °C	Pdh	kW	3.5	3.4	-
Tj = +2 °C	Pdh	kW	2.5	2.1	2.3
Tj = +7 °C	Pdh	kW	2.6	2.6	2.6
Tj = +12 °C	Pdh	kW	2.4	2.3	2.5
Tj = bivalent temperature	Pdh	kW	3.7	3.7	2.3
Tj = operation limit temperature	Pdh	kW	3.4	2.6	2.3
Bivalent temperature	T biv	°C	-8.0	-9.0	2.0
Cycling interval capacity for heating	Pcych	kW	-	-	-
Degradation co-efficient	Cdh		1.0	1.0	1.0
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -15 °C	Copd	-	-	2.60	-
Tj = -7 °C	Copd	-	3.10	3.40	-
Tj = +2 °C	Copd	-	4.30	5.00	4.20
Tj = +7 °C	Copd	-	5.60	6.30	5.40
Tj = +12 °C	Copd	-	7.20	7.60	7.70
Tj = bivalent temperature	Copd	-	3.00	3.20	4.20
Tj = operation limit temperature	Copd	-	2.80	2.30	4.20
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	176	148	216
Seasonal space heating energy efficiency class			A+++	-	-
Power consumption in modes other than active mode					
off mode	Poff	kW	0.000	0.000	0.000
thermostat-off mode	Pto	kW	0.014	0.014	0.014
standby mode	Psb	kW	0.016	0.016	0.016
Crankcase heater mode	Pck	kW	0.000	0.000	0.000
Rated heat output	Psup	kW	0.7	5.4	0.0
Daily electricity consumption	Qelec	kWh	6.562	11.553	1.863
Annual electricity consumption	AEC	kWh	1883	3662	573

Contact details

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