Technical Data

TOSHIBA

Air-to-water heat pump

Outdoor unit			HWP-1601HW-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	40/56
Rated air flow		m^3/h	5393
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	13	11	8
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -7 °C	Pdh	kW	11.8	11.7	-
Tj = +2 °C	Pdh	kW	7.5	7.5	7.6
Tj = +7 °C	Pdh	kW	6.5	6.6	6.1
Tj = +12 °C	Pdh	kW	5.7	5.7	5.6
Tj = bivalent temperature	Pdh	kW	11.8	9.1	7.6
Tj = operation limit temperature	Pdh	kW	10.7	7.7	7.6
Bivalent temperature	T biv	°C	-7.0	-15.0	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 = -7 °C	Copd	-	2.30	2.40	-
Tj = +2 °C	Copd	-	3.40	3.50	2.80
Tj = +7 °C	Copd	-	4.80	5.00	3.80
Tj = +12 °C	Copd	-	6.30	6.50	5.60
Tj = bivalent temperature	Copd	-	2.30	2.00	2.80
Tj = operation limit temperature	Copd	-	2.10	1.70	2.80
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	141	117	175
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	2.6	11.2	0.0
Daily electricity consumption	Qelec	kWh	21.014	28.455	6.208
Annual electricity consumption	AEC	kWh	7670	10386	2266

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-1601HW-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	40/56
Rated air flow		m^3/h	5393
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	14	12	8
Declared capacity for heating for part load at indoor temperature 20 C and outdoor temperature Tj					
Tj = -7 °C	Pdh	kW	12.0	12.1	-
Tj = +2 °C	Pdh	kW	7.4	7.6	7.5
Tj = +7 °C	Pdh	kW	6.7	6.7	6.6
Tj = +12 °C	Pdh	kW	5.3	5.4	5.6
Tj = bivalent temperature	Pdh	kW	12.1	9.7	7.5
Tj = operation limit temperature	Pdh	kW	11.1	8.4	7.5
Bivalent temperature	T biv	°C	-7.0	-15.0	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 = -7 °C	Copd	-	2.90	2.80	-
Tj = +2 °C	Copd	-	4.30	4.30	3.80
Tj = +7 °C	Copd	-	6.10	6.10	5.40
Tj = +12 °C	Copd	-	7.30	7.30	7.30
Tj = bivalent temperature	Copd	-	2.90	2.40	3.80
Tj = operation limit temperature	Copd	-	2.60	2.20	3.80
Operation limit temperature	TOL	°C	-10	-20	2
Cycling interval efficiency	COPcyc		-	-	-
Seasonal space heating energy efficiency	ns	%	178	141	239
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	2.6	11.2	0.0
Daily electricity consumption	Qelec	kWh	21.014	28.455	6.208
Annual electricity consumption	AEC	kWh	6242	8080	1662

Contact details

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