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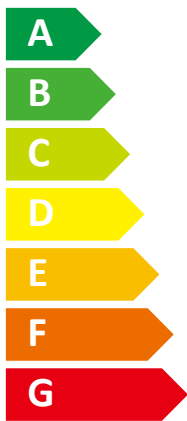
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Indoor unit EHPT20Q-VM2EA
Outdoor unit QUHZ-W40VA



A⁺



A

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text "40 dB". The bottom icon shows a speaker outside a house with the text "53 dB".



A legend for power consumption in kW, shown as colored squares. A dark blue square is labeled "04 kW", a medium blue square is labeled "05 kW", and a light blue square is labeled "05 kW".

2015

811/2013

DG79V106H02

Outdoor unit QUHZ-W40VA
 Indoor unit EHPT20Q-VM2EA

For medium-temperature application.

Medium-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Seasonal space heating efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L _{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating efficiency under colder climate conditions	Seasonal space heating efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L _{WA} outdoor
			kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB
✓	A+	A	4.5	3056	855	117	129	40	-	3.5	5.4	4473	1920	1068	754	71	146	102	146	53

For low-temperature application.

Low-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Seasonal space heating efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L _{WA} indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating efficiency under colder climate conditions	Seasonal space heating efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L _{WA} outdoor
			kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB
✓	A+	A	2.8	1523	855	146	129	40	-	2.8	2.8	3041	1059	1068	754	87	136	102	146	53

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.5	kW	Seasonal space heating energy efficiency	η_s	117	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	4.2	kW	T _j = -7 °C	COP _d	1.67	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +2 °C	P _{dh}	2.5	kW	T _j = +2 °C	COP _d	3.01	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +7 °C	P _{dh}	2.8	kW	T _j = +7 °C	COP _d	4.53	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	7.01	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	4.2	kW	T _j = bivalent temperature	COP _d	1.67	-
T _j = operation limit temperature	P _{dh}	3.1	kW	T _j = operation limit temperature	COP _d	1.00	-
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.7	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Standby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	3056	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	129	%
Daily electricity consumption	Q _{elec}	3.885	kW/h				
Annual electricity consumption	AEC	855	kW/h				

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	2.8	kW	Seasonal space heating energy efficiency	η_s	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.9	kW	T _j = - 7 °C	COP _d	2.16	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	4.23	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 7 °C	P _{dh}	2.9	kW	T _j = + 7 °C	COP _d	5.91	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	2.9	kW	T _j = +12 °C	COP _d	7.89	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	2.9	kW	T _j = bivalent temperature	COP _d	2.16	-
T _j = operation limit temperature	P _{dh}	2.0	kW	T _j = operation limit temperature	COP _d	1.00	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.2	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Stanby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	1523	kWh				

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	129	%
Daily electricity consumption	Q _{elec}	3.885	kW/h				
Annual electricity consumption	AEC	855	kW/h				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.5	kW	Seasonal space heating energy efficiency	η_s	71	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	2.2	kW	T _j = -7 °C	COP _d	1.76	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +2 °C	P _{dh}	1.7	kW	T _j = +2 °C	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +7 °C	P _{dh}	2.2	kW	T _j = +7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	2.2	kW	T _j = +12 °C	COP _d	4.15	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	2.2	kW	T _j = bivalent temperature	COP _d	1.76	-
T _j = operation limit temperature	P _{dh}	2.4	kW	T _j = operation limit temperature	COP _d	1.40	-
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.9	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Standby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	4473	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	102	%
Daily electricity consumption	Q _{elec}	4.856	kW/h				
Annual electricity consumption	AEC	1068	kW/h				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	2.8	kW	Seasonal space heating energy efficiency	η_s	87	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	1.5	kW	T _j = - 7 °C	COP _d	2.31	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 2 °C	P _{dh}	1.0	kW	T _j = + 2 °C	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 7 °C	P _{dh}	1.1	kW	T _j = + 7 °C	COP _d	3.52	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	1.1	kW	T _j = +12 °C	COP _d	4.47	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	1.5	kW	T _j = bivalent temperature	COP _d	2.31	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.40	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.2	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Stanby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	3041	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	102	%
Daily electricity consumption	Q _{elec}	4.856	kW/h				
Annual electricity consumption	AEC	1068	kW/h				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for	medium-temperature application.	
Parameters for	warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.4	kW	Seasonal space heating energy efficiency	η_s	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 2 °C	COP _d	2.02	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 7 °C	P _{dh}	3.3	kW	T _j = + 7 °C	COP _d	3.01	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	1.7	kW	T _j = +12 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	2.2	kW	T _j = bivalent temperature	COP _d	1.76	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.40	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Stanby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	1920	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	146	%
Daily electricity consumption	Q _{elec}	3.428	kW/h				
Annual electricity consumption	AEC	754	kW/h				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	QUHZ-W40VA
	Indoor unit:	EHPT20Q-VM2EA
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	2.8	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	2.8	kW	T _j = + 2 °C	COP _d	2.82	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = + 7 °C	P _{dh}	1.8	kW	T _j = + 7 °C	COP _d	3.35	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = +12 °C	P _{dh}	1.0	kW	T _j = +12 °C	COP _d	3.90	-
Degradation co-efficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	1.5	kW	T _j = bivalent temperature	COP _d	2.30	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.40	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-15	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.005	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.005	kW				
Stanby mode	P _{SB}	0.005	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1746	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/53	dBA				
Annual energy consumption	Q _{HE}	1059	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	146	%
Daily electricity consumption	Q _{elec}	3.428	kW/h				
Annual electricity consumption	AEC	754	kW/h				

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.