

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 <sub>WA</sub> 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 <sub>WA</sub> 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 <sub>WA</sub> 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 <sub>WA</sub> 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	$\eta_s$	117	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.8	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.53	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	3.4	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.67	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	3.1	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.00	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Stanby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1746	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/53	dBA				
Annual energy consumption	Q <sub>HE</sub>	3056	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	129	%
Daily electricity consumption	Q <sub>elec</sub>	3.885	kW/h				
Annual electricity consumption	AEC	855	kW/h				

Contact details

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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	$\eta_s$	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.16	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.91	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.89	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.16	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	2.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.00	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.2	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Stanby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items

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

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	129	%
Daily electricity consumption	Q <sub>elec</sub>	3.885	kW/h				
Annual electricity consumption	AEC	855	kW/h				

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	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	$\eta_s$	71	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.76	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	1.7	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.00	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.10	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	4.15	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.76	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.40	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Stanby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

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

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	102	%
Daily electricity consumption	Q <sub>elec</sub>	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	$\eta_s$	87	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7 °C	P <sub>dh</sub>	1.5	kW	T <sub>j</sub> = -7 °C	COP <sub>d</sub>	2.31	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +2 °C	P <sub>dh</sub>	1.0	kW	T <sub>j</sub> = +2 °C	COP <sub>d</sub>	2.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +7 °C	P <sub>dh</sub>	1.1	kW	T <sub>j</sub> = +7 °C	COP <sub>d</sub>	3.52	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	1.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	4.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	1.5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.31	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.40	-
T <sub>j</sub> = -15 °C (if TOL < -20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -15 °C (if TOL < -20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.2	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Standby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

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

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	102	%
Daily electricity consumption	Q <sub>elec</sub>	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	$\eta_s$	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	4.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.02	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.3	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	1.7	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.76	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.40	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Stanby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

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

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	146	%
Daily electricity consumption	Q <sub>elec</sub>	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	$\eta_s$	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.82	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	1.8	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.35	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	1.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	3.90	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.90	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	1.5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.30	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.40	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.005	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.005	kW				
Stanby mode	P <sub>SB</sub>	0.005	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

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

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	146	%
Daily electricity consumption	Q <sub>elec</sub>	3.428	kW/h				
Annual electricity consumption	AEC	754	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.