

Model(s): [information identify	ring the r	nodel(s)	to which the	AW102HUGH	A / HU102WAH	HYA		
information relates]								
Air-to-water heat pump:				Yes				
Water-to-water heat pump:				No No				
Brine-to-water heat pump:					No			
Low-temperature heat pump:					No			
Equipped with a supplementa	-	r:			Yes			
Heat pump combination heate					No			
Parameters shall be declared application, except for low-ter low- temperature heat pumps declared for low-temperature	nperatur , parame	e heat p eters sha	umps. For	Low-temperature application				
Parameters shall be declared warmer climate conditions.	for aver	age, col	der and	Average climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	7.2	kW	Seasonal space heating energy efficiency	η_{s}	201	%	
Declared capacity for heati temperature 20 °C and o				Declared coefficient of perform load at indoor temperature 2				
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	6.34	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	3.43	– or%	
T _i = + 2 °C	P _{dh}	3.89	kW	T _i = + 2 °C	COP _d or PER _d	4.88	– or%	
T _i = + 7 °C	P _{dh}	2.52	kW	T _i = + 7 °C	COP _d or PER _d	6.88	– or%	
T _i = + 12 °C	P _{dh}	3.56	kW	T _i = + 12 °C	COP _d or PER _d	8.83	– or%	
T _i = bivalent temperature	P_{dh}	6.34	kW	T _i = bivalent temperature	COP _d or PER _d	3.43	– or%	
T_j = operation limit temperature	P _{dh}	7.11	kW	T_j = operation limit temperature	COP _d or PER _d	2.30	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	N/A	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%	
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.09	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-		
Standby mode	P_{SB}	0.018	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items								
Capacity control	Fixed	d	Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h	
Sound power level, indoors/ outdoors	L_{WA}	40/60	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.72	m³/h	
Annual energy consumption	Q _{HE}	2922	kWhor GJ					
For heat pump combination h	eater: N	/A						
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC	_	kWh	
Contact details	Haier in , 26655	dustrial 5,China	Park,No.236,	I er Electric Co., Ltd. Qianwangang Road ,Qingdao Ec			_	
heating Pdesignh, and the rate	d heat o	utput of	a supplementa	heaters, the rated heat output Pra ary heater P_{sup} is equal to the supp	olementary capa	_		
$[\sup(I_j). (**)]$ If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294	

Model(s): [information identifying the model(s) to which the information relates]				AW102HUGHA / HU102F20AHYA					
	Air-to-water heat pump:				Yes				
Water-to-water heat pump:				No No					
Brine-to-water heat pump:				No No					
Low-temperature heat pump:					No				
Equipped with a supplementa	ry hoato	r·			Yes				
Heat pump combination heate		1.			Yes				
		: 4 a			163				
Parameters shall be declared application, except for low-ter low-temperature heat pumps	nperatur	e heat p	umps. For	Low-temperature application					
declared for low-temperature	•		iii be						
· ·			-1						
Parameters shall be declared warmer climate conditions.	ior aver	age, con	der and	Average climate conditions					
	avmb al	Value	Unit	Item	overhol	Value	Unit		
Item	symbol	value	Offic		symbol	value	Offic		
Rated heat output (*)	P _{rated}	7.2	kW	Seasonal space heating energy efficiency	η_{s}	201	%		
Declared capacity for heati				Declared coefficient of perform			•		
temperature 20 °C and o			J	load at indoor temperature 2			J		
T _j = - 7 °C	P _{dh}	6.34	kW	T _j = -7 °C	COP _d or PER _d	3.43	– or%		
T _j = + 2 °C	P _{dh}	3.89	kW	T _j = + 2 °C	COP _d or PER _d	4.88	– or%		
T _j = + 7 °C	P _{dh}	2.52	kW	$T_j = + 7 ^{\circ}\text{C}$	COP _d or PER _d	6.88	– or%		
T _j = + 12 °C	P _{dh}	3.56	kW	T _j = + 12 °C	COP _d or PER _d	8.83	– or%		
T _j = bivalent temperature	P _{dh}	6.34	kW	T_j = bivalent temperature	COP _d or PER _d	3.43	– or%		
T _j = operation limit temperature	P_{dh}	7.11	kW	T_j = operation limit temperature	COP _d or PER _d	2.30	– or%		
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P_{dh}	N/A	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%		
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%		
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C		
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A					
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.09	kW		
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-			
Standby mode	P_{SB}	0.018	kW						
Crankcase heater mode	P_{CK}	0	kW						
Other items									
Capacity control	Fixed	d	Variable	For air-to-water heat pumps: Rated air flow rate, outdoors		3028	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.72	m³/h		
Annual energy consumption	Q_{HE}	2922	kWhor GJ						
For heat pump combination h	eater: Ye	es							
Declared load profile		L		Water heating energy efficiency	η_{wh}	130	%		
Daily electricity consumption	Q _{elec}	3.71	kWh	Annual electricity consumption	AEC	817	kWh		
Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park,No.236,Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555,China									
heating Pdesignh, and the rate	d heat o	utput of	a supplementa	heaters, the rated heat output Pra $_{ m sup}$ is equal to the supp	olementary capa	_			
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570204		

Model(s): [information identifying the model(s) to which the information relates]				AW102HUGHA / HU102WAHYA				
Air-to-water heat pump:				Yes				
Water-to-water heat pump:				No No				
Brine-to-water heat pump:				No No				
Low-temperature heat pump:					No			
Equipped with a supplementa	ry hoato	r·			Yes			
Heat pump combination heate		1.			No			
		ta			110			
Parameters shall be declared application, except for low-ter low-temperature heat pumps	nperatur	e heat p	umps. For	Medium-temperature application	n			
declared for low-temperature	•		50					
Parameters shall be declared			der and					
warmer climate conditions.	ioi avci	age, con	aci ana	Average climate conditions				
	Item symbol Value Unit				symbol	Value	Unit	
Rated heat output (*)	P _{rated}	6	kW	Item Seasonal space heating energy efficiency	ης	150	%	
Declared capacity for heati	na for na	ert load a	t indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and o				load at indoor temperature 2		٠,	•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	5.28	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.48	– or%	
$T_i = +2 ^{\circ}C$	P _{dh}	3.24	kW	$T_j = -7$ C $T_i = +2$ °C	COP _d or PER _d	3.62	– 01% – or%	
$T_{i} = + 7 ^{\circ}\text{C}$	P _{dh}	2.10	kW	$T_i = +7 ^{\circ}\text{C}$	COP _d or PER _d	5.38	– 01% – or%	
T _i = + 12 °C	P _{dh}	3.22	kW	T _i = + 12 °C	COP _d or PER _d	6.66	– 01% – or%	
T_i = bivalent temperature	P _{dh}	5.28	kW	T_i = bivalent temperature	COP _d or PER _d	2.48	– or%	
T_i = operation limit	i dh	3.20	KVV	ij – bivalent temperature	COI d OI I LINd	2.40	- OI 70	
temperature	P _{dh}	5.95	kW	T_j = operation limit temperature	COP _d or PER _d	1.84	– or%	
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P_{dh}	N/A	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%	
Bivalent temperature	T_{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.05	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-		
Standby mode	P_{SB}	0.018	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items	1				-			
Capacity control	Fixed	b	Variable	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h	
Annual energy consumption	Q_{HE}	3240	kWhor GJ					
For heat pump combination h	eater: N	/A						
Declared load profile				Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}		kWh	Annual electricity consumption	AEC	<u> </u>	kWh	
Qingdao Haier Air Conditioner Electric Co., Ltd. Contact details Qingdao Haier Air Conditioner Electric Co., Ltd. Haier industrial Park,No.236,Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555,China								
heating Pdesignh, and the rate	d heat o	utput of	a supplementa	heaters, the rated heat output Pra ary heater P_{sup} is equal to the supp	olementary capa	_		
$[sup(T_j). (**)]$ If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570204	

Model(s): [information identifying the model(s) to which the information relates]				AW102HUGHA / HU102F20AHYA					
Air-to-water heat pump:				Yes					
Water-to-water heat pump:				No No					
Brine-to-water heat pump:				No No					
Low-temperature heat pump:					No				
Equipped with a supplementa	ry hoato	r·			Yes				
Heat pump combination heate		1.			Yes				
		4 a			163				
Parameters shall be declared application, except for low-ter low-temperature heat pumps	nperatur	e heat p	umps. For	Medium-temperature application	n				
declared for low-temperature	•		50						
Parameters shall be declared			dor and						
warmer climate conditions.	ioi avei	age, con	uei anu	Average climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
Rated heat output (*)	P _{rated}	6	kW	Seasonal space heating energy efficiency	η _s	150	%		
Doclared capacity for heat	na for na	rt load a	t indoor	Declared coefficient of perform	ance or primary	onoray rat	io for part		
Declared capacity for heati temperature 20 °C and o	•			load at indoor temperature 2			•		
$T_i = -7 ^{\circ}\text{C}$		_	,	T _i = -7 °C			,		
$I_{j} = -7 ^{\circ}C$ $T_{i} = +2 ^{\circ}C$	P _{dh}	5.28	kW	$I_j = -7 ^{\circ}\text{C}$ $T_i = +2 ^{\circ}\text{C}$	COP or PER	2.48	– or%		
$I_j = +2 °C$ $T_i = +7 °C$	P _{dh}	3.24	kW	$I_j = +2 ^{\circ}\text{C}$ $T_i = +7 ^{\circ}\text{C}$	COP or PER	3.62	– or%		
J	P _{dh}	2.10	kW	J	COP or PER	5.38	– or%		
$T_j = + 12 ^{\circ}\text{C}$ $T_i = \text{bivalent temperature}$	P _{dh}	3.22	kW kW	$T_j = + 12 ^{\circ}\text{C}$ $T_i = \text{bivalent temperature}$	COP _d or PER _d	6.66	– or%		
	P _{dh}	5.28	KVV	r _j = bivalent temperature	COP _d of PER _d	2.48	– or%		
T _j = operation limit temperature	P_{dh}	5.95	kW	T_j = operation limit temperature	COP _d or PER _d	1.84	– or%		
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P_{dh}	N/A	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%		
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%		
Degradation co- efficient (**)	C_dh	0.9	_	Heating water operating limit temperature	WTOL	80	°C		
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A					
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.05	kW		
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-			
Standby mode	P_{SB}	0.018	kW						
Crankcase heater mode	P_{CK}	0	kW						
Other items									
Capacity control	Fixed	b	Variable	For air-to-water heat pumps: Rated air flow rate, outdoors		3429	m³/h		
Sound power level, indoors/ outdoors	L_{WA}	40/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h		
Annual energy consumption	Q _{HE}	3240	kWhor GJ						
For heat pump combination h	eater:Ye	s							
Declared load profile		L		Water heating energy efficiency	η_{wh}	130	%		
Daily electricity consumption	Q _{elec}	3.71	kWh	Annual electricity consumption	AEC	817	kWh		
Contact details	Qingdao Haier Air Conditioner Electric Co., Ltd.								
heating Pdesignh, and the rate	d heat o	utput of	a supplementa	heaters, the rated heat output Pra ary heater P_{sup} is equal to the supp	olementary capa	_			
$[sup(T_j). (**)]$ If C_{dh} is not determ	ined by r	neasurei	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570201		

Model(s): [information identify	ing the r	nodel(s)	to which the	AW102HUGH	A / HU102WAF	IYA		
information relates]				AW102HUGHA / HU102WAHYA				
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 supplementa		r:			Yes			
Heat pump combination heat	er:				No			
Parameters shall be declared	for med	ium-tem	perature					
application, except for low-ter				Low-temperature application				
low- temperature heat pumps declared for low-temperature			ıll be	Low tomporature application				
Parameters shall be declared warmer climate conditions.	for aver	age, col	der and	Cold climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	7.5	kW	Seasonal space heating energy efficiency	η_{s}	151	%	
Declared capacity for heati	na for na	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and	•			load at indoor temperature 2	• •		•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh} 4.54 kW			$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	3.50	– or%	
T _i = + 2 °C	P _{dh}	3.41	kW	T _i = + 2 °C	COP _d or PER _d	4.20	– or%	
T _i = + 7 °C	P _{dh}	2.57	kW	T _i = + 7 °C	COP _d or PER _d	7.00	– or%	
T _i = + 12 °C	P _{dh}	3.63	kW	T _i = + 12 °C	COP _d or PER _d	9.00	– or%	
T _i = bivalent temperature	P _{dh}	6.16	kW	T_i = bivalent temperature	COP _d or PER _d	1.58	– or%	
T_j = operation limit temperature	P _{dh}	3.55	kW	T_j = operation limit temperature	COP _d or PER _d	1.42	– or%	
For air-to-water heat pumps: $T_i = -15$ °C (if TOL < -20 °C)	P _{dh}	6.16	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.58	– or%	
,		4.5	00	For air-to-water heat pumps:	TOI	0.5	20	
Bivalent temperature Cycling interval capacity for	T _{biv}	-15	°C	Operation limit temperature	TOL	-25	°C	
heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	3.95	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-		
Standby mode	P _{SB}	0.018	kW					
Crankcase heater mode	P _{CK}	0	kW					
Other items	1		1					
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.720	m³/h	
Annual energy consumption	Q_{HE}	4809	kWhor GJ					
For heat pump combination h		/A	<u> </u>					
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}		kWh	Annual electricity consumption	AEC	_	kWh	
Qingdao Haier Air Conditioner Electric Co., Ltd. Contact details Haier industrial Park,No.236,Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555,China								
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa	_		
$\sup(1_j)$. (^^) If C_{dh} is not determ	inea by r	neasurer	nent then the	default degradation coefficient is	C _{dh} = 0,9.	0	150570294	

Model(s): [information identifying the model(s) to which the				AW102HUGHA / HU102F20AHYA				
information relates]								
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 supplementa	_	r:			Yes			
Heat pump combination heate					Yes			
Parameters shall be declared								
application, except for low-ter				Low-temperature application				
low- temperature heat pumps, parameters shall be declared for low-temperature application.								
Parameters shall be declared for average, colder and warmer climate conditions.				Cold climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	7.5	kW	Seasonal space heating energy efficiency	η_{s}	151	%	
Declared capacity for heati	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and	•			load at indoor temperature 2			•	
T _i = - 7 °C	P _{dh} 4.54 kW			T _i = -7 °C	COP _d or PER _d	3.50	– or%	
T _i = + 2 °C	P _{dh}	3.41	kW	T _i = + 2 °C	COP _d or PER _d	4.20	– or%	
T _i = + 7 °C	P _{dh}	2.57	kW	T _i = + 7 °C	COP _d or PER _d	7.00	– or%	
T _j = + 12 °C	P _{dh}	3.63	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%	
T_j = bivalent temperature	P_{dh}	6.16	kW	T_j = bivalent temperature	COP _d or PER _d	1.58	– or%	
T_j = operation limit temperature	P _{dh}	3.55	kW	T _j = operation limit temperature	COP _d or PER _d	1.42	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	6.16	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.58	– or%	
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	3.95	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	345	-		
Standby mode	P _{SB}	0.018	kW	31 33 1				
Crankcase heater mode	P_{CK}	0	kW					
Other items	•		-					
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.720	m³/h	
Annual energy consumption	Q _{HE}	4809	kWhor GJ					
For heat pump combination h			<u>. </u>					
Declared load profile		L		Water heating energy efficiency	η_{wh}	106.82	%	
Daily electricity consumption	Q _{elec}	4.74	kWh	Annual electricity consumption	AEC	958.75	kWh	
Contact details	Haier in			er Electric Co., Ltd. Qianwangang Road ,Qingdao Ec	co-tech Develop	ment Zon	e ,Qingdao	
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa	_		
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	nent then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294	

Model(s): [information identify	ing the r	nodel(s)	to which the	AW102HLIGH	Δ / HI I102W/ΔΕ			
information relates]				AW102HUGHA / HU102WAHYA				
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 supplementa		r:			Yes			
Heat pump combination heat	er:				No			
Parameters shall be declared	for med	ium-tem	perature					
application, except for low-ter				Medium-temperature application	า			
low- temperature heat pumps declared for low-temperature			ıll be	modali temperatare application	•			
Parameters shall be declared warmer climate conditions.	Parameters shall be declared for average, colder and warmer climate conditions.							
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	6	kW	Seasonal space heating energy efficiency	η_{s}	128	%	
Declared capacity for heat	ing for na	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and				load at indoor temperature 2			•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	3.69	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.93	– or%	
T _i = + 2 °C	P _{dh}	2.35	kW	T _i = + 2 °C	COP _d or PER _d	3.98	– or%	
T _i = + 7 °C	P _{dh}	2.95	kW	T _i = + 7 °C	COP _d or PER _d	5.91	– or%	
T _i = + 12 °C	P _{dh}	2.98	kW	T _i = + 12 °C	COP _d or PER _d	7.30	– or%	
T_i = bivalent temperature	P _{dh}	5.19	kW	T_i = bivalent temperature	COP _d or PER _d	1.47	– or%	
T_j = operation limit temperature	P _{dh}	3.29	kW	T_j = operation limit temperature	COP _d or PER _d	1.31	– or%	
For air-to-water heat pumps: $T_i = -15$ °C (if TOL < -20 °C)	P _{dh}	5.19	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.47	– or%	
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps:	TOL	-25	°C	
				Operation limit temperature				
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A		•		
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	2.71	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-		
Standby mode	P _{SB}	0.018	kW					
Crankcase heater mode	P _{CK}	0	kW					
Other items								
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h	
Annual energy consumption	Q_{HE}	2861	kWhor GJ					
For heat pump combination h		/A	<u>. </u>					
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC	_	kWh	
Contact details	Haier in			er Electric Co., Ltd. Qianwangang Road ,Qingdao Ec	o-tech Develop	ment Zon	e ,Qingdao	
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp default degradation coefficient is	olementary capa	_		
$\sup(\tau_j)$. ("") If C_{dh} is not determ	imea by r	neasurer	nent then the	default degradation coefficient is	C _{dh} = 0,9.		150570294	

Model(s): [information identify	ing the r	model(s)	to which the	AW102HUGHA	A / HU102F20A	НҮА		
information relates]				AW102HUGHA / HU102F20AHYA				
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 supplementa	_	r:			Yes			
Heat pump combination heat	er:				Yes			
Parameters shall be declared	for med	ium-tem	perature					
application, except for low-ter				Medium-temperature application	n			
low- temperature heat pumps declared for low-temperature			ıll be	modali temperatare application	•			
Parameters shall be declared for average, colder and warmer climate conditions.				Cold climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	6	kW	Seasonal space heating energy efficiency	η_{s}	128	%	
Declared capacity for heat	na for pa	art load a	t indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and				load at indoor temperature 2	• •		•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh} 3.69 kW			$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.93	– or%	
T _i = + 2 °C	P _{dh}	2.35	kW	T _i = + 2 °C	COP _d or PER _d	3.98	– or%	
T _i = + 7 °C	P _{dh}	2.95	kW	T _i = + 7 °C	COP _d or PER _d	5.91	– or%	
T _i = + 12 °C	P _{dh}	2.98	kW	T _i = + 12 °C	COP _d or PER _d	7.30	– or%	
T _i = bivalent temperature	P_{dh}	5.19	kW	T _i = bivalent temperature	COP _d or PER _d	1.47	– or%	
T_j = operation limit temperature	P_{dh}	3.29	kW	T_j = operation limit temperature	COP _d or PER _d	1.31	– or%	
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P _{dh}	5.19	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.47	– or%	
Bivalent temperature	T _{biv}	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	2.71	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	545	-		
Standby mode	P_{SB}	0.018	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items	-							
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors		3429	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h	
Annual energy consumption	Q _{HE}	2861	kWhor GJ					
For heat pump combination h		es	<u>. </u>					
Declared load profile		L		Water heating energy efficiency	η_{wh}	106.82	%	
Daily electricity consumption	Q _{elec}	4.74	kWh	Annual electricity consumption	AEC	958.75	kWh	
Contact details	Haier in			er Electric Co., Ltd. Qianwangang Road ,Qingdao Ed	o-tech Develop	ment Zon	e ,Qingdao	
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa	_		
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0	150570294	

Model(s): [information identify information relates]	el(s): [information identifying the model(s) to which the				AW102HUGHA / HU102WAHYA				
Air-to-water heat pump:				Vos					
Water-to-water heat pump:	· · ·				Yes				
Brine-to-water heat pump:				No No					
Low-temperature heat pump:					No				
Equipped with a supplementa	ry hoato	r·			Yes				
Heat pump combination heate		1.			No				
		: 4 a			110				
Parameters shall be declared application, except for low-ter low- temperature heat pumps	nperatur , parame	e heat p	umps. For	Low-temperature application	Low-temperature application				
declared for low-temperature									
Parameters shall be declared for average, colder and warmer climate conditions.				Warm climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
Rated heat output (*)	P _{rated}	7.5	kW	Seasonal space heating energy efficiency	η_{s}	249	%		
Declared capacity for heati	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	tio for part		
temperature 20 °C and o				load at indoor temperature 2			•		
T _i = - 7 °C	P _{dh}	/	kW	T _i = -7 °C	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	7.47	kW	T _i = + 2 °C	COP _d or PER _d	4.45	– or%		
T _i = + 7 °C	P _{dh}	4.88	kW	T _i = + 7 °C	COP _d or PER _d	5.52	– or%		
T _i = + 12 °C	P_{dh}	3.88	kW	T _j = + 12 °C	COP _d or PER _d	8.75	– or%		
T_j = bivalent temperature	P_{dh}	7.47	kW	T_j = bivalent temperature	COP _d or PER _d	4.45	– or%		
T_j = operation limit temperature	P _{dh}	7.47	kW	T_j = operation limit temperature	COP _d or PER _d	4.45	– or%		
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P_{dh}	N/A	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%		
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C		
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%		
Degradation co- efficient (**)	C_dh	0.9	_	Heating water operating limit temperature	WTOL	80	°C		
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A					
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	-	kW		
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	,	-			
Standby mode	P_{SB}	0.018	kW						
Crankcase heater mode	P_{CK}	0	kW						
Other items	-								
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.720	m³/h		
Annual energy consumption	Q _{HE}	1360	kWhor GJ						
For heat pump combination h	eater: N	/A	<u>.</u>						
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%		
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC	_	kWh		
Qingdao Haier Air Conditioner Electric Co., Ltd. Contact details Haier industrial Park,No.236,Qianwangang Road ,Qingdao Eco-tech Development Zone ,Qingdao , 266555,China									
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa	_			
$[\sup(I_j). (**)]$ If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294		

A		1.1(.)		T				
Model(s): [information identify	ing the r	nodel(s)	to which the	AW102HUGH	A / HU102F20A	HYA		
information relates]				Voc				
Air-to-water heat pump: Water-to-water heat pump:				Yes				
Brine-to-water heat pump:				No No				
Low-temperature heat pump:					No			
Equipped with a supplementa	rv heate	r·			Yes			
Heat pump combination heat		1.			Yes			
Parameters shall be declared		ium-tem	nerature					
application, except for low-ter								
low- temperature heat pumps				Low-temperature application				
declared for low-temperature application.								
Parameters shall be declared	for aver	age, col	der and	Warm climate conditions				
warmer climate conditions.				warm climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	7.5	kW	Seasonal space heating energy efficiency	η_{s}	249	%	
Declared capacity for heat	ing for pa	art load a	t indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and		temperat	:ure T _j	load at indoor temperature		or temper	ature T _j	
T _j = − 7 °C	P_{dh}	/	kW	T _j = -7 °C	COP _d or PER _d	/	– or%	
T _j = + 2 °C	P_{dh}	7.47	kW	T _j = + 2 ℃	COP _d or PER _d	4.45	– or%	
T _j = + 7 °C	P _{dh}	4.88	kW	T _j = + 7 °C	COP _d or PER _d	5.52	– or%	
T _j = + 12 °C	P _{dh}	3.88	kW	T _j = + 12 °C	COP or PER	8.75	– or%	
T_j = bivalent temperature T_i = operation limit	P _{dh}	7.47	kW	T_j = bivalent temperature	COP _d or PER _d	4.45	– or%	
temperature	P _{dh}	7.47	kW	T_j = operation limit temperature	COP _d or PER _d	4.45	– or%	
For air-to-water heat pumps:	_	NI/A	1.3.07	For air-to-water heat pumps: T _i	COD DED	N1/A	0/	
$T_j = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$	P _{dh}	N/A	kW	= - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%	
	_	_		For air-to-water heat pumps:				
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	-	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		-		
Standby mode	P _{SB}	0.018	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items	<u> </u>		I	For air to water boot number				
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3028	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/60	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.720	m³/h	
Annual energy consumption	Q _{HE}	1360	kWhor GJ					
For heat pump combination h]	1		<u> </u>	1	
Declared load profile		L		Water heating energy efficiency	η_{wh}	134.7	%	
Daily electricity consumption	Q _{elec}	3.76	kWh	Annual electricity consumption	AEC	760.29	kWh	
Contact details	Haier in			er Electric Co., Ltd. Qianwangang Road ,Qingdao Ec	co-tech Develop	ment Zon	e ,Qingdao	
heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa			
$sup(T_j)$. (**) If C_{dh} is not determ	ined by ı	measurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294	

Model(s): [information identify	ring the r	nodel(s)	to which the	AW102HUGH	A / HU102WAF	HYA		
information relates]								
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 supplementa	_	r:			Yes			
Heat pump combination heate	er:				No			
Parameters shall be declared								
application, except for low-ter low- temperature heat pumps declared for low-temperature	, parame	ters sha		Medium-temperature application	n			
Parameters shall be declared			der and	Warm climate conditions				
warmer climate conditions. Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	6	kW	Seasonal space heating	η _s	185	%	
, , ,				energy efficiency	•			
Declared capacity for heati	•			Declared coefficient of perform				
temperature 20 °C and o		temperat	,	load at indoor temperature 2		or temper		
T _j = - 7 °C	P _{dh}	/	kW	T _j = -7 °C	COP _d or PER _d	/	– or%	
T _j = + 2 °C	P _{dh}	6.11	kW	T _j = + 2 °C	COP _d or PER _d	2.69	– or%	
T _j = + 7 °C	P _{dh}	3.90	kW	T _j = + 7 °C	COP _d or PER _d	4.18	– or%	
$T_j = + 12 ^{\circ}\text{C}$	P _{dh}	3.94	kW	$T_j = + 12 ^{\circ}\text{C}$	COP or PER	6.68	– or%	
T _j = bivalent temperature	P_{dh}	6.11	kW	T _j = bivalent temperature	COP _d or PER _d	2.69	– or%	
T _j = operation limit temperature	P _{dh}	6.11	kW	T_j = operation limit temperature	COP _d or PER _d	2.69	– or%	
For air-to-water heat pumps:	P_dh	N/A	kW	For air-to-water heat pumps: T_j	COP _d or PER _d	N/A	– or%	
$T_j = -15$ °C (if TOL < -20 °C)	r dh	IN/A	KVV	= - 15 °C (if TOL < - 20 °C)	COP _d OI PEN _d	IN/A	- OI 76	
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for heating	P _{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%	
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C	
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A		<u> </u>		
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	-	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	•	-		
Standby mode	P_{SB}	0.018	kW					
Crankcase heater mode	P_{CK}	0	kW					
Other items	T		·	·				
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors		3429	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h	
Annual energy consumption	Q _{HE}	1481	kWhor GJ					
For heat pump combination h		/A	<u> </u>					
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC	_	kWh	
Contact details	Qingdao Haier Air Conditioner Electric Co., Ltd.							
heating Pdesignh, and the rate	rs and he	at pump utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa			
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	nent then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294	

Model(s): [information identify information relates]	ing the r	nodel(s)	to which the	AW102HUGHA	A / HU102F20A	AW102HUGHA / HU102F20AHYA				
Air-to-water heat pump:				Yes						
Water-to-water heat pump:				No						
Brine-to-water heat pump:				No No						
Low-temperature heat pump:					No					
Equipped with a supplementa	rv heate	r·			Yes					
Heat pump combination heate	-	1.			Yes					
		ium tom	noroturo		100					
Parameters shall be declared application, except for low-ter										
low- temperature heat pumps	•	•	•	Medium-temperature application	n					
declared for low-temperature										
Parameters shall be declared			dor and							
warmer climate conditions.	ioi avei	age, con	uei anu	Warm climate conditions						
Item	symbol	Value	Unit	Item	symbol	Value	Unit			
	Symbol	value		Seasonal space heating	Зуппоот	Value				
Rated heat output (*)	P _{rated}	6	kW	energy efficiency	η _s	185	%			
Declared capacity for heati	•			Declared coefficient of perform			•			
temperature 20 °C and o		temperat	J	load at indoor temperature 2		or temper	J			
T _j = - 7 °C	P _{dh}	/	kW	T _j = -7 °C	COP _d or PER _d	/	– or%			
T _j = + 2 °C	P _{dh}	6.11	kW	T _j = + 2 °C	COP _d or PER _d	2.69	– or%			
T _j = + 7 °C	P _{dh}	3.90	kW	T _j = + 7 °C	COP _d or PER _d	4.18	– or%			
T _j = + 12 °C	P _{dh}	3.94	kW	T _j = + 12 °C	COP _d or PER _d	6.68	– or%			
T _j = bivalent temperature	P_{dh}	6.11	kW	T_j = bivalent temperature	COP _d or PER _d	2.69	– or%			
T _j = operation limit temperature	P _{dh}	6.11	kW	T_j = operation limit temperature	COP _d or PER _d	2.69	– or%			
For air-to-water heat pumps: $T_i = -15 ^{\circ}\text{C}$ (if TOL < $-20 ^{\circ}\text{C}$)	P _{dh}	N/A	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	N/A	– or%			
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps:	TOL	-25	°C			
·	517			Operation limit temperature	_					
Cycling interval capacity for heating	P_{cych}	N/A	kW	Cycling interval efficiency	COP _d or PER _d	0.9	– or%			
Degradation co- efficient (**)	C_{dh}	0.9	_	Heating water operating limit temperature	WTOL	80	°C			
Power consumption in modes	other th	an activ	e mode	Supplementary heater: N/A						
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	-	kW			
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input		<u>-</u>				
Standby mode	P _{SB}	0.018	kW							
Crankcase heater mode	P_{CK}	0	kW							
Other items										
Capacity control		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h			
Sound power level, indoors/ outdoors	L _{WA}	40/66	dB (A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	1.075	m³/h			
Annual energy consumption	Q _{HE}	1481	kWhor GJ							
For heat pump combination h				•						
Declared load profile		L		Water heating energy efficiency	η_{wh}	134.7	%			
Daily electricity consumption	Q _{elec}	3.76	kWh	Annual electricity consumption	AEC	760.29	kWh			
Daily discillating consumption	∽eiec	3.70	IVAAII	7.1.11dai electricity correctificiti	,,,,,	, 50.25	17 A A 11			
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heating Pdesignh, and the rate	d heat o	utput of	a supplement	heaters, the rated heat output Pra ary heater P _{sup} is equal to the supp	olementary capa	_				
$[\sup(I_j). (**)]$ If C_{dh} is not determ	ined by r	measurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570294			