

Model(s): [information identify	ing the r	nodel(s)	to which the	AW042HUGH	IA / HU102WAH	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 application				
low- temperature heat pumps, parameters shall be				Zon tomporatoro application				
declared for low-temperature	• • •							
Parameters shall be declared	for aver	age, col	der and	Average climate conditions				
warmer climate conditions.								
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P_{rated}	4.5	kW	Seasonal space heating energy efficiency	η_{s}	201	%	
Declared capacity for heati	ng for pa	art load a	nt indoor	Declared coefficient of perform			•	
temperature 20 °C and o	outdoor t		,	load at indoor temperature 2			<u> </u>	
T _j = − 7 °C	P_{dh}	3.96	kW	T _j = - 7 °C	COP _d or PER _d	3.48	– or%	
T _j = + 2 °C	P_{dh}	2.43	kW	T _j = + 2 °C	COP _d or PER _d	4.89	– or%	
$T_j = + 7 ^{\circ}\text{C}$	P_{dh}	1.58	kW	T _j = + 7 °C	COP _d or PER _d	6.73	– or%	
T _j = + 12 °C	P _{dh}	1.91	kW	T _j = + 12 °C	COP _d or PER _d	8.87	– or%	
T_j = bivalent temperature	P_{dh}	3.96	kW	T_j = bivalent temperature	COP _d or PER _d	3.48	– or%	
T _j = operation limit temperature	P_{dh}	4.50	kW	T_j = operation limit temperature	COP _d or PER _d	2.30	– or%	
For air-to-water heat pumps:				For air-to-water heat pumps: T _i				
$T_i = -15$ °C (if TOL < -20 °C)	P_{dh}	N/A	kW	= - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%	
1j = - 13 C (11 10E < - 20 C)				= - 13 C (II 10L < - 20 C)				
Bivalent temperature	T_biv	-7	°C	For air-to-water heat pumps:	TOL	-25	°C	
Bivalent temperature	' biv	-7	C	Operation limit temperature	IOL	-25	O	
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}	0.00	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	54.5	-		
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	
				For water- or brine-to- water				
Sound power level, indoors/		40/55	dD(A)	heat pumps: Rated brine or	NI/A	0.000	3 /l-	
outdoors	L_{WA}	40/55	dB(A)	water flow rate, outdoor heat	N/A	0.688	m³/h	
				exchanger				
Annual energy consumption	Q_{HE}	1826	kWhor GJ					
For heat pump combination h			<u> </u>					
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC		kWh	
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	Qinada	Haier 4	Air Conditione	r Electric Co., Ltd.			<u> </u>	
Contact details				Qianwangang Road ,Qingdao Ed	o-tech Develor	ment Zon	e .Qinadao	
		5,China	,,.				,	
(*) For heat pump space heater			combination	heaters, the rated heat output Pra	ited is equal to t	he design	load for	
				ary heater P _{sup} is equal to the supp	•	_		
				default degradation coefficient is		.,	ر. د	
C.j. C / Gui is not determ					- un •/•·		150573354	

Model(s): [information identify	ing the r	nodol(c)	to which the	T				
information relates]	ing the r	nodei(s)	to which the	AW042HUGHA / HU102F20AHYA				
Air-to-water heat pump:				Yes				
Water-to-water heat pump:								
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			
		ium tom	n a ratura		163			
Parameters shall be declared application, except for low-ter low- temperature heat pumps declared for low-temperature	mperatur , parame	e heat p eters sha	umps. For	Low-temperature application				
Parameters shall be declared for average, colder and warmer climate conditions.				Average climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4.5	kW	Seasonal space heating energy efficiency	η_{s}	201	%	
Declared capacity for heat temperature 20 °C and				Declared coefficient of perform load at indoor temperature 2				
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	3.96	kW	T _i = -7 °C	COP _d or PER _d	3.48	– or%	
$T_i = +2 ^{\circ}C$	P _{dh}	2.43	kW	T _i = + 2 °C	COP _d or PER _d	4.89	– or%	
T _i = + 7 °C	P _{dh}	1.58	kW	T _i = + 7 °C	COP _d or PER _d	6.73	– or%	
T _i = + 12 °C	P _{dh}	1.91	kW	T _i = + 12 °C	COP _d or PER _d	8.87	– or%	
T_j = bivalent temperature	P_{dh}	3.96	kW	T _j = bivålent temperature	COP _d or PER _d	3.48	– or%	
T_j = operation limit temperature	P _{dh}	4.50	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}	0.00	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	зар	-		
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	_	3028	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h	
Annual energy consumption	Q_{HE}	1826	kWhor GJ					
For heat pump combination h	eater: Ye	es	<u> </u>					
Declared load profile		L		Water heating energy efficiency	η_{wh}	130	%	
Daily electricity consumption	Q _{elec}	3.87	kWh	Annual electricity consumption	AEC	785	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	_		
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurei	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		15057335/	

Model(s): [information identify	ring the r	nodel(s)	to which the	AW042HUGH	IA / HU102WAH	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 heat	er:				No			
Parameters shall be declared			•					
application, except for low-ter				Medium-temperature application	n			
low- temperature heat pumps	•		ıll be	modium temperature application				
declared for low-temperature	• • •							
Parameters shall be declared	for aver	age, col	der and	Average climate conditions				
warmer climate conditions.								
Item	symbol	Value	Unit	ltem	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4	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	outdoor t	temperat	ture T _j	load at indoor temperature 2	20 °C and outdo	or temper	ature T _j	
T _j = - 7 °C	P_{dh}	3.25	kW	T _j = -7 °C	COP _d or PER _d	2.35	– or%	
T _j = + 2 °C	P_{dh}	2.16	kW	T _j = + 2 °C	COP _d or PER _d	3.73	– or%	
$T_j = + 7 ^{\circ}\text{C}$	P_{dh}	1.40	kW	T _j = + 7 °C	COP _d or PER _d	5.50	– or%	
T _j = + 12 °C	P_{dh}	2.05	kW	T _j = + 12 °C	COP _d or PER _d	6.70	– or%	
T_j = bivalent temperature	P_{dh}	3.25	kW	T_j = bivalent temperature	COP _d or PER _d	2.35	– or%	
T _j = operation limit temperature	P_{dh}	3.60	kW	T_j = operation limit temperature	COP _d or PER _d	1.85	– or%	
For air to water heat numps:				For air-to-water heat pumps: T _i				
For air-to-water heat pumps:	P_{dh}	N/A	kW		COP _d or PER _d	N/A	– or%	
$T_j = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$				= - 15 °C (if TOL < - 20 °C)				
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			<u> </u>	
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.40	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}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h	
Annual energy consumption	Q_{HE}	1985	kWhor GJ					
For heat pump combination h				•				
Declared load profile		_		Water heating energy efficiency	η_{wh}	_	%	
Daily electricity consumption	Q _{elec}	_	kWh	Annual electricity consumption	AEC	_	kWh	
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Contact details	Haier in , 26655	dustrial 5,China	Park,No.236,	er Electric Co., Ltd. Qianwangang Road ,Qingdao Ec				
(*) 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 P _{sup} is equal to the supplementary capacity for heating								
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150573354	

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Model(s): [information identify information relates]	ing the r	nodel(s)	to which the	AW042HUGHA / HU102F20AHYA				
Air-to-water heat pump:				Yes				
Water-to-water heat pump:								
Brine-to-water heat pump:				No No				
				+	No			
Low-temperature heat pump:	my boots	r.						
Equipped with a supplementa	_	1.			Yes Yes			
Heat pump combination heat					169			
Parameters shall be declared application, except for low-ter	nperatur	e heat p	umps. For	Medium-temperature application	n			
low- temperature heat pumps declared for low-temperature			III DE					
Parameters shall be declared for average, colder and warmer climate conditions.				Average climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η_s	151	%	
Declared capacity for boot		ort load a	t indoor	,	ance or primary	on oray rat	io for part	
Declared capacity for heati temperature 20 °C and o	•			Declared coefficient of perform load at indoor temperature 2			•	
$T_i = -7 ^{\circ}\text{C}$		3.25	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.35	– or%	
$T_{i} = -7 \text{ C}$ $T_{i} = +2 \text{ °C}$	P _{dh}	2.16	kW	$T_{j} = -7 \text{ C}$ $T_{i} = +2 \text{ °C}$	COP _d or PER _d	3.73	– or% – or%	
$T_i = +7 ^{\circ}\text{C}$	P _{dh}	1.40	kW	$T_i = + 7 ^{\circ}\text{C}$	COP _d or PER _d	5.50	– 01% – or%	
T _i = + 12 °C	P _{dh}	2.05	kW	$T_i = + 12 ^{\circ}\text{C}$	COP _d or PER _d	6.70	– 01% – or%	
T_i = bivalent temperature	P _{dh}	3.25	kW	T_i = bivalent temperature	COP _d or PER _d	2.35	– or%	
T_i = operation limit				·				
temperature	P _{dh}	3.60	kW	T _j = operation limit temperature	COP _d or PER _d	1.85	– 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}	0.40	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}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h	
Annual energy consumption	Q _{HE}	1985	kWhor GJ					
For heat pump combination h	eater: Ye	es	<u> </u>					
Declared load profile		L		Water heating energy efficiency	η_{wh}	130	%	
Daily electricity consumption	Q _{elec}	3.87	kWh	Annual electricity consumption	AEC	785	kWh	
Contact details	Haier in			er Electric Co., Ltd. Qianwangang Road ,Qingdao Ed	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 default degradation coefficient is	olementary capa			
$Sup(1j)$. ("") II C_{dh} is not determ	med by f	neasurei	nent then the	default degradation coefficient is	C _{dh} = 0,9.		150573354	

Model(s): [information identify	ring the n	nodel(s)	to which the	AW042HUGH	A / HU102WAF	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:	b a a t a				No			
Equipped with a supplementa	-	r:			Yes No			
Heat pump combination heat					INU			
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 for average, colder and warmer climate conditions.				Cold climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4.5	kW	Seasonal space heating energy efficiency	η_{s}	154	%	
Declared capacity for heat	ng for pa	art load a	at indoor	Declared coefficient of perform	ance or primary	energy rat	io for part	
temperature 20 °C and				load at indoor temperature 2				
T _j = - 7 °C	P_{dh}	2.87	kW	T _j = -7 °C	COP _d or PER _d	3.50	– or%	
T _j = + 2 °C	P _{dh}	1.75	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%	
T _j = + 7 °C	P_{dh}	1.88	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%	
T _j = + 12 °C	P_{dh}	2.17	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%	
T_j = bivalent temperature	P_{dh}	3.72	kW	T_j = bivalent temperature	COP _d or PER _d	2.83	– or%	
T_j = operation limit temperature	P_{dh}	2.93	kW	T_j = operation limit temperature	COP _d or PER _d	2.26	– or%	
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P_{dh}	3.72	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.83	– 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}	1.57	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}	40/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h	
Annual energy consumption	Q _{HE}	1848	kWhor GJ					
For heat pump combination h	eater: N/	Ά	•					
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 supplementa	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	ment then the	default degradation coefficient is	C _{dh} = 0,9.		150573354	

Model(s): [information identify	ring the r	model(s)	to which the	AW042HUGHA / HU102F20AHYA				
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:				<u> </u>	No			
Equipped with a supplementa	_	r:		 	Yes			
Heat pump combination heat		4 · ·	n a u a t · · · · -		Yes			
Parameters shall be declared application, except for low-ter	nperatur	e heat p	umps. For	Low-temperature application				
low- temperature heat pumps, parameters shall be declared for low-temperature application.							_	
warmer climate conditions.								
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4.5	kW	Seasonal space heating energy efficiency	η_{s}	154	%	
Declared capacity for heat	•			Declared coefficient of perform			•	
temperature 20 °C and		-	J	load at indoor temperature 2				
T _j = - 7 °C	P _{dh}	2.87	kW	T _j = -7 °C	COP _d or PER _d	3.50	– or%	
T _j = + 2 °C	P _{dh}	1.75	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%	
$T_j = + 7 ^{\circ}\text{C}$ $T_i = + 12 ^{\circ}\text{C}$	P _{dh}	1.88	kW	T _j = + 7 °C T _i = + 12 °C	COP or PER	7.00	– or%	
$T_j = + 12$ °C $T_i = \text{bivalent temperature}$	P _{dh}	2.17 3.72	kW kW	$T_j = + 12$ °C $T_i = \text{bivalent temperature}$	COP _d or PER _d	9.00 2.83	– or% – or%	
$T_i = \text{operation limit}$	' dh	3.72	NVV	·		2.00	- OI 70	
temperature	P _{dh}	2.93	kW	T _j = operation limit temperature	COP _d or PER _d	2.26	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	3.72	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.83	– 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}	1.57	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	<u>l</u>				
Other items			ı	For air to contain the contain				
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}	40/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h	
Annual energy consumption	Q _{HE}	1848	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 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 i	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0	150573354	

Model(s): [information identify	ing the r	nodel(s)	to which the	AW042HUGHA / HU102WAHYA				
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	•		•	Medium-temperature application	n			
low- temperature heat pumps			III be	modiam temperature application	•			
declared for low-temperature								
Parameters shall be declared	for aver	age, col	der and	Cold climate conditions				
warmer climate conditions.								
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η_{s}	127	%	
Declared capacity for heat	ng for pa	art load a	nt indoor	Declared coefficient of perform	ance or primary	energy rat	tio for part	
temperature 20 °C and	outdoor t	temperat	:ure T _j	load at indoor temperature 2		or temper	ature T _j	
T _j = − 7 °C	P_{dh}	2.50	kW	T _j = -7 °C	COP _d or PER _d	2.70	– or%	
T _j = + 2 °C	P_{dh}	1.62	kW	T _j = + 2 °C	COP _d or PER _d	3.63	– or%	
T _j = + 7 °C	P_{dh}	1.85	kW	$T_j = + 7 ^{\circ}C$	COP _d or PER _d	5.48	– or%	
T _j = + 12 °C	P _{dh}	2.21	kW	T _j = + 12 °C	COP _d or PER _d	7.14	– or%	
T _j = bivalent temperature	P_{dh}	3.32	kW	T_j = bivalent temperature	COP _d or PER _d	3.63	– or%	
T _j = operation limit temperature	P_{dh}	3.22	kW	T_j = operation limit temperature	COP _d or PER _d	1.69	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	3.32	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.12	– 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}	0.78	kW	
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	· sup	-	1000	
Standby mode	P _{SB}	0.018	kW	71				
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}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h	
Annual energy consumption	Q_{HE}	1492	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	
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 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	$C_{dh} = 0.9.$		150573354	

Model(s): [information identify	ring the r	model(s)	to which the	AW042HUGHA / HU102F20AHYA				
information relates]				Voc				
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	•	<u>r:</u>			Yes			
Heat pump combination heate					Yes			
Parameters shall be declared								
application, except for low-ter	•		•	Medium-temperature application	n			
low- temperature heat pumps			III be					
declared for low-temperature								
Parameters shall be declared	for aver	age, col	der and	Cold climate conditions				
warmer climate conditions.							11.1	
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	4	kW	Seasonal space heating energy efficiency	η_{s}	127	%	
Declared capacity for heat				Declared coefficient of perform			•	
temperature 20 °C and		-	J	load at indoor temperature ?				
T _j = − 7 °C	P_{dh}	2.50	kW	T _j = - 7 °C	COP _d or PER _d	2.70	– or%	
T _j = + 2 °C	P_{dh}	1.62	kW	T _j = + 2 °C	COP _d or PER _d	3.63	– or%	
T _j = + 7 °C	P_{dh}	1.85	kW	T _j = + 7 °C	COP _d or PER _d	5.48	– or%	
T _j = + 12 °C	P _{dh}	2.21	kW	T _j = + 12 °C	COP _d or PER _d	7.14	– or%	
T _j = bivalent temperature	P_{dh}	3.32	kW	T_j = bivalent temperature	COP _d or PER _d	3.63	– or%	
T_j = operation limit temperature	P_{dh}	3.22	kW	T_j = operation limit temperature	COP _d or PER _d	1.69	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	3.32	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.12	– 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}	0.78	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		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	3429	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h	
Annual energy consumption	Q_{HE}	1492	kWhor GJ					
For heat pump combination h	eater: Ye	es						
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	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 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	nent then the	default degradation coefficient is	$C_{dh} = 0.9.$	0	150573354	

Model(s): [information identify	ring the r	nodel(s)	to which the	AW042HUGH	A / HU102WAF			
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 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 temperature application				
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}	4.5	kW	Seasonal space heating energy efficiency	$\eta_{ m s}$	248	%	
Declared capacity for heat	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}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%	
T _i = + 2 °C	P _{dh}	4.50	kW	T _i = + 2 °C	COP _d or PER _d	4.64	– or%	
T _i = + 7 °C	P _{dh}	2.94	kW	T _i = + 7 °C	COP _d or PER _d	6.02	– or%	
T _i = + 12 °C	P _{dh}	2.15	kW	T _i = + 12 °C	COP _d or PER _d	8.25	– or%	
T _i = bivalent temperature	P_{dh}	4.50	kW	T _i = bivalent temperature	COP _d or PER _d	4.64	– or%	
T _j = operation limit temperature	P_{dh}	4.50	kW	T_j = operation limit temperature	COP _d or PER _d	4.64	– 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	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	_	3028	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	40/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h	
Annual energy consumption	Q _{HE}	810	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	
Contact details	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	_		
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0	150573354	

Model(s): [information identify	ing the r	nodel(s)	to which the	AW042HUGHA	A / HU102F20A	НҮА			
information relates]				AW042HUGHA / 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				Low-temperature application					
low- temperature heat pumps, parameters shall be declared for low-temperature application.				25W tomporature 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}	4.5	kW	Seasonal space heating energy efficiency	$\eta_{ m s}$	248	%		
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}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	4.50	kW	T _i = + 2 °C	COP _d or PER _d	4.64	– or%		
T _i = + 7 °C	P _{dh}	2.94	kW	T _i = + 7 °C	COP _d or PER _d	6.02	– or%		
T _i = + 12 °C	P _{dh}	2.15	kW	T _i = + 12 °C	COP _d or PER _d	8.25	– or%		
T_j = bivalent temperature	P _{dh}	4.50	kW	T_j = bivalent temperature	COP _d or PER _d	4.64	– or%		
T_j = operation limit temperature	P_{dh}	4.50	kW	T_j = operation limit temperature	COP _d or PER _d	4.64	– 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	- 1	-			
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}	40/55	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.688	m³/h		
Annual energy consumption	Q _{HE}	810	kWhor GJ						
For heat pump combination h		es	<u> </u>						
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	Qingdao Haier Air Conditioner Electric Co., Ltd.								
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 i	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0	150573354		

	Model(s): [information identifying the model(s) to which the				AW042HUGHA / HU102WAHYA				
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 heat	er:				No				
Parameters shall be declared									
application, except for low-ter low- temperature heat pumps	, parame	eters sha		Medium-temperature application	n				
declared for low-temperature	applicati	on.							
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}	4	kW	Seasonal space heating energy efficiency	$\eta_{ m s}$	175	%		
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				load at indoor temperature 2			•		
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	4.03	kW	T _i = + 2 °C	COP _d or PER _d	2.84	– or%		
T _i = + 7 °C	P _{dh}	2.64	kW	T _i = + 7 °C	COP _d or PER _d	4.12	– or%		
T _i = + 12 °C	P _{dh}	2.23	kW	T _i = + 12 °C	COP _d or PER _d	6.13	– or%		
T _i = bivalent temperature	P _{dh}	4.03	kW	T _i = bivalent temperature	COP _d or PER _d	2.84	– or%		
T _j = operation limit temperature	P_{dh}	4.03	kW	T_j = operation limit temperature	COP _d or PER _d	2.84	– 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	_	3429	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h		
Annual energy consumption	Q _{HE}	1022	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	_			
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	nent then the	default degradation coefficient is	$C_{dh} = 0.9.$		150573354		

Model(s): [information identify	ing the r	nodel(s)	to which the	AW042HUGHA	A / HU102F20A	НҮА			
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 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 temperature 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}	4	kW	Seasonal space heating energy efficiency	$\eta_{ m s}$	175	%		
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}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	4.03	kW	T _i = + 2 °C	COP _d or PER _d	2.84	– or%		
T _i = + 7 °C	P _{dh}	2.64	kW	T _i = + 7 °C	COP _d or PER _d	4.12	– or%		
T _i = + 12 °C	P _{dh}	2.23	kW	T _i = + 12 °C	COP _d or PER _d	6.13	– or%		
T_i = bivalent temperature	P _{dh}	4.03	kW	T _i = bivalent temperature	COP _d or PER _d	2.84	– or%		
T_j = operation limit temperature	P _{dh}	4.03	kW	T_j = operation limit temperature	COP _d or PER _d	2.84	– or%		
For air-to-water heat pumps: $T_i = -15$ °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:	TOL	-25	°C		
Cycling interval capacity for				Operation limit temperature					
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	1			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}	40/63	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	0.430	m³/h		
Annual energy consumption	Q_{HE}	1022	kWhor GJ						
For heat pump combination h		es	<u> </u>						
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	_			
$\sup(I_j)$. (^^) If C_{dh} is not determ	ined by i	neasurer	nent then the	default degradation coefficient is	$C_{dh} = 0.9.$		150573354		