

Model(s): [information identify	ina the r	nodel(s)	to which the		/			
information relates]		(0)		AW16NHVGHA / HU16NWAHYAE3				
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	ry heate	r:			Yes			
Heat pump combination heat	er:				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 for average, colder and warmer climate conditions.				Average climate conditions				
Item symbol Value Unit				Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	12	kW	Seasonal space heating energy efficiency	η_{s}	189	%	
Declared capacity for heat temperature 20 °C and				Declared coefficient of perform load at indoor temperature			•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	10.50	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	3.28	– or%	
T _i = + 2 °C	P _{dh}	6.43	kW	T _i = + 2 °C	COP _d or PER _d	4.50	– or%	
T _i = + 7 °C	P _{dh}	4.20	kW	T _i = + 7 °C	COP _d or PER _d	6.93	– or%	
T _i = + 12 °C	P _{dh}	5.76	kW	T _i = + 12 °C	COP _d or PER _d	8.42	– or%	
T_j = bivalent temperature	P _{dh}	10.50	kW	T _j = bivalent temperature	COP _d or PER _d	3.28	– or%	
T_j = operation limit temperature	P _{dh}	8.98	kW	T_j = operation limit temperature	COP _d or PER _d	2.23	– 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}	3.02	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	ı		•					
Capacity control		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors		4023	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	42/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.752	m³/h	
Annual energy consumption	Q_{HE}	5139	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 sup	olementary capa	_		
$\sup(I_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570301	

Model(s): [information identify	ing the r	nodel(s)	to which the	AW16NHVGHA	/ HU162F20AH	YAE3			
information relates]				AW16NHVGHA / HU162F20AHYAE3					
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	ry heate	r:			Yes				
Heat pump combination heate	er:				Yes				
Parameters shall be declared	for med	ium-tem	perature						
application, except for low-ter			•						
low- temperature heat pumps				Low-temperature application					
declared for low-temperature									
Parameters shall be declared	for aver	age col	der and						
warmer climate conditions.		ge, ee.		Average climate conditions					
Item	symbol	Value	Unit	Item	symbol	Value	Unit		
Rated heat output (*)	P _{rated}	12	kW	Seasonal space heating	η _s	189	%		
, , ,				energy efficiency					
Declared capacity for heati	•			Declared coefficient of perform	•		•		
temperature 20 °C and o			,	load at indoor temperature ?			J		
T _j = - 7 °C	P _{dh}	10.50	kW	T _j = -7 °C	COP _d or PER _d	3.28	– or%		
T _j = + 2 °C	P _{dh}	6.43	kW	T _j = + 2 °C	COP _d or PER _d	4.50	– or%		
T _j = + 7 °C	P _{dh}	4.20	kW	T _j = + 7 °C	COP _d or PER _d	6.93	– or%		
T _j = + 12 °C	P _{dh}	5.76	kW	T _j = + 12 °C	COP _d or PER _d	8.42	– or%		
T_j = bivalent temperature	$P_{\sf dh}$	10.50	kW	T_j = bivalent temperature	COP _d or PER _d	3.28	– or%		
T _j = operation limit temperature	P_{dh}	8.98	kW	T_j = operation limit temperature	COP _d or PER _d	2.23	– 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}	3.02	kW		
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	· sup	-	IXVV		
Standby mode	P _{SB}	0.018	kW	Type or onergy input					
Crankcase heater mode	P _{CK}	0.010	kW						
Other items	_ CR	-	<u> </u>			<u> </u>	<u> </u>		
Capacity control		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4023	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	42/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.752	m³/h		
Annual energy consumption	Q_{HE}	5139	kWhor GJ						
For heat pump combination h		es							
Declared load profile		L		Water heating energy efficiency	η_{wh}	135	%		
Daily electricity consumption	Q _{elec}	4.76	kWh	Annual electricity consumption	AEC	941	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	$C_{dh} = 0.9.$		150570301		

Model(s): [information identify information relates]	ing the r	nodel(s)	to which the	AW16NHVGHA	. / HU16NWAH	YAE3		
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	ry heate	r:			Yes			
Heat pump combination heate					No			
Parameters shall be declared		ium-tem	perature					
application, except for low-ter low- temperature heat pumps declared for low-temperature	nperatur , parame	e heat p eters sha	umps. For	Medium-temperature application	n			
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}	9.3	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 o	•			load at indoor temperature 2			•	
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	8.18	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.32	– or%	
T _i = + 2 °C	P _{dh}	4.93	kW	T _i = + 2 °C	COP _d or PER _d	3.73	– or%	
T _i = + 7 °C	P _{dh}	3.26	kW	T _i = + 7 °C	COP _d or PER _d	5.50	– or%	
T _i = + 12 °C	P _{dh}	5.37	kW	T _i = + 12 °C	COP _d or PER _d	6.65	– or%	
T_j = bivalent temperature	P _{dh}	8.18	kW	T _j = bivalent temperature	COP _d or PER _d	2.32	– or%	
T_j = operation limit temperature	P_{dh}	9.20	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}	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}	0.10	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:	_	4821	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	42/69	dB(A)	Rated air flow rate, outdoors 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}	4991	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	
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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	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570301	

Model(s): [information identify information relates]	del(s): [information identifying the model(s) to which the				/ HU162F20AH	IYAE3		
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	ry heate	r:			Yes			
Heat pump combination heate					Yes			
Parameters shall be declared		ium-tem	perature					
application, except for low-ter low- temperature heat pumps declared for low-temperature	nperatur , parame	e heat p eters sha	umps. For	Medium-temperature application	n			
Parameters shall be declared			der and	Average climate conditions				
	varmer climate conditions.					Malua	1.124	
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	9.3	kW	Seasonal space heating energy efficiency	η_{s}	151	%	
Declared capacity for heati	•			Declared coefficient of perform		3,	•	
temperature 20 °C and o		-	,	load at indoor temperature 2			,	
T _j = - 7 °C	P _{dh}	8.18	kW	$T_j = -7 ^{\circ}\text{C}$	COP _d or PER _d	2.32	– or%	
T _j = + 2 °C	P _{dh}	4.93	kW	T _j = + 2 °C	COP or PER	3.73	– or%	
T _j = + 7 °C	P _{dh}	3.26	kW	$T_j = + 7 ^{\circ}\text{C}$	COP or PER	5.50	– or%	
$T_j = + 12 ^{\circ}\text{C}$	P _{dh}	5.37	kW kW	$T_j = + 12 ^{\circ}\text{C}$ $T_j = \text{bivalent temperature}$	COP _d or PER _d	6.65	– or%	
T_j = bivalent temperature T_i = operation limit	P _{dh}	8.18	KVV	ı _j – bivalent temperature	COPd OF PERd	2.32	– or%	
temperature	P _{dh}	9.20	kW	T_j = operation limit temperature	COP _d or PER _d	1.85	– 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}	0.10	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		ı.	T=		-		
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4821	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	42/69	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}	4991	kWhor GJ					
For heat pump combination h	eater: Ye	es						
Declared load profile		L		Water heating energy efficiency	η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	4.76	kWh	Annual electricity consumption	AEC	941	kWh	
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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 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	e default degradation coefficient is	$C_{dh} = 0.9.$		150570301	

Model(s): [information identify information relates]	ring the r	nodel(s)	to which the	AW16NHVGHA	\ / HU16NWAH`	YAE3			
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 heate	r:			Yes				
Heat pump combination heat					No				
Parameters shall be declared	for med	ium-tem	perature						
application, except for low-ter low- temperature heat pumps declared for low-temperature	, parame	ters sha	•	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}	12	kW	Seasonal space heating energy efficiency	η_{s}	151	%		
Declared capacity for heati	ng for pa	art load a	at indoor	Declared coefficient of perform	ance or primary	energy ra	tio for part		
temperature 20 °C and				load at indoor temperature			•		
$T_j = -7 ^{\circ}\text{C}$ P_{dh} 7.33 kW				T _j = -7 °C	COP _d or PER _d	3.50	– or%		
T _j = + 2 °C	P_{dh}	3.77	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%		
T _j = + 7 °C	P _{dh}	4.26	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%		
T _j = + 12 °C	P _{dh}	4.90	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%		
T _j = bivalent temperature	P _{dh}	9.87	kW	T_j = bivalent temperature	COP _d or PER _d	2.15	– or%		
T _j = operation limit temperature	P_{dh}	8.69	kW	T_j = operation limit temperature	COP _d or PER _d	1.69	– or%		
For air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C} \text{ (if TOL } < -20 ^{\circ}\text{C)}$	P_{dh}	9.87	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.15	– 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}	3.31	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		1		-		1		
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4023	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	42/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.752	m³/h		
Annual energy consumption	Q _{HE}	4868	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 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 sup	plementary capa				
sup(1j). (***) II C _{dh} is not determ	med by f	neasurei	nent then the	default degradation coefficient is	C _{dh} = 0,9.	0	150570301		

Model(s): [information identify information relates]	ing the r	nodel(s)	to which the	AW16NHVGHA / HU162F20AHYAE3					
·				Vaa					
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 heat					Yes				
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.				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}	12	kW	Seasonal space heating energy efficiency	η_{s}	151	%		
Declared capacity for heat	ing 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			•		
T _j = - 7 °C	P_{dh}	7.33	kW	T _j = -7 °C	COP _d or PER _d	3.50	– or%		
T _j ' = + 2 °C	P _{dh}	3.77	kW	T _j = + 2 °C	COP _d or PER _d	4.20	– or%		
$T_j = + 7 ^{\circ}\text{C}$	P_{dh}	4.26	kW	T _j = + 7 °C	COP _d or PER _d	7.00	– or%		
T _j = + 12 °C	P_{dh}	4.90	kW	T _j = + 12 °C	COP _d or PER _d	9.00	– or%		
T_j = bivalent temperature	P_{dh}	9.87	kW	T_j = bivalent temperature	COP _d or PER _d	2.15	– or%		
T_j = operation limit temperature	P_{dh}	8.69	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}	9.87	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	2.15	– 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		<u> </u>			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	3.31	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		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4023	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	42/66	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.752	m³/h		
Annual energy consumption	Q _{HE}	4868	kWhor GJ						
For heat pump combination h		es	<u> </u>						
Declared load profile		L		Water heating energy efficiency	η_{wh}	105.17	%		
Daily electricity consumption	Q _{elec}	6.11	kWh	Annual electricity consumption	AEC	1207.96	kWh		
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	ed heat o	utput of	a supplementa	heaters, the rated heat output Pra ary heater P _{sup} is equal to the sup	olementary capa				
$[\sup(I_j). (**)]$ If C_{dh} is not determ	lined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0.	150570301		

Model(s): [information identify information relates]	ing the r	nodel(s)	to which the	AW16NHVGHA	\ / HU16NWAH`	YAE3			
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 heate	r:			Yes				
Heat pump combination heat	_				No				
Parameters shall be declared	for med	ium-tem	perature						
application, except for low-ter low- temperature heat pumps declared for low-temperature	, parame	ters sha	•	Medium-temperature applicatio	n				
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}	9.5	kW	Seasonal space heating energy efficiency	η_{s}	128	%		
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	•			load at indoor temperature			•		
T _j = − 7 °C	P_{dh}	5.72	kW	T _j = -7 °C	COP _d or PER _d	2.63	– or%		
T _j = + 2 °C	P_{dh}	3.40	kW	T _j = + 2 °C	COP _d or PER _d	3.58	– or%		
T _j = + 7 °C	P _{dh}	4.16	kW	T _j = + 7 °C	COP _d or PER _d	5.16	– or%		
T _j = + 12 °C	P _{dh}	4.89	kW	T _j = + 12 °C	COP _d or PER _d	7.33	– or%		
T _j = bivalent temperature	P_{dh}	7.73	kW	T_j = bivalent temperature	COP _d or PER _d	1.94	– or%		
T _j = operation limit temperature	P_{dh}	9.47	kW	T_j = operation limit temperature	COP _d or PER _d	1.46	– or%		
For air-to-water heat pumps: $T_j = -15 \text{ °C (if TOL } < -20 \text{ °C)}$	P_{dh}	7.73	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.94	– 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}	0.03	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		-		1		
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4821	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	42/69	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}	4535	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	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 sup	plementary 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	150570301		

Model(s): [information identify	ing the r	nodel(s)	to which the	AVA/ACNII IV/CUTA	/	IVAE2		
information relates]	Ü	()		AW16NHVGHA / HU162F20AHYAE3				
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			
application, except for low-ter low- temperature heat pumps	Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.				n			
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}	9.5	kW	Seasonal space heating energy efficiency	η_{s}	128	%	
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 _j = − 7 °C	P_{dh}	5.72	kW	T _j = - 7 °C	COP _d or PER _d	2.63	– or%	
T _j = + 2 °C	P _{dh}	3.40	kW	T _j = + 2 °C	COP _d or PER _d	3.58	– or%	
T _j = + 7 °C T _i = + 12 °C	P _{dh}	4.16	kW	T _j = + 7 °C	COP or PER	5.16	– or%	
$T_j = + 12$ °C $T_i = \text{bivalent temperature}$	P _{dh}	4.89 7.73	kW kW	$T_j = + 12 ^{\circ}\text{C}$ $T_i = \text{bivalent temperature}$	COP _d or PER _d	7.33 1.94	– or% – or%	
$T_i = \text{operation limit}$	r dh		KVV			1.94	<u> </u>	
temperature	P _{dh}	9.47	kW	T_j = operation limit temperature	COP _d or PER _d	1.46	– or%	
For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	P _{dh}	7.73	kW	For air-to-water heat pumps: T_j = -15 °C (if TOL < -20 °C)	COP _d or PER _d	1.94	– 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		I		
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P_{sup}	0.03	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	_	4821	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	42/69	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}	4535	kWhor GJ					
For heat pump combination h		es						
Declared load profile		L		Water heating energy efficiency	η_{wh}	105.17	%	
Daily electricity consumption	Q _{elec}	6.11	kWh	Annual electricity consumption	AEC	1207.96	kWh	
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			
$[\sup(I_j).\ (**)\ If\ C_{dh}\ is\ not\ determ$	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$	0.	150570301	

Model(s): [information identify	ring the r	nodel(s)	to which the	AW16NHVGHA	/ HU16NWAH	YAE3		
information relates] 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					No			
Parameters shall be declared		ium-tem	nerature					
application, except for low-ter low- temperature heat pumps	nperatur	e heat p	umps. For	Low-temperature application				
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}	12	kW	Seasonal space heating energy efficiency	η_{s}	253	%	
Declared capacity for heat	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			•	
T _j = - 7 °C	P_{dh}	/	kW	T _j = -7 °C	COP _d or PER _d	/	– or%	
T _j = + 2 °C	P _{dh}	11.95	kW	T _j = + 2 °C	COP _d or PER _d	4.12	– or%	
T _j = + 7 °C	P_{dh}	7.82	kW	T _j = + 7 °C	COP _d or PER _d	6.34	– or%	
T _j = + 12 °C	P_{dh}	5.04	kW	T _j = + 12 °C	COP _d or PER _d	7.73	– or%	
T_j = bivalent temperature	P_{dh}	11.95	kW	T_j = bivalent temperature	COP _d or PER _d	4.12	– or%	
T _j = operation limit temperature	P_{dh}	11.95	kW	T_j = operation limit temperature	COP _d or PER _d	4.12	– 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}	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			<u>.</u>	<u>, </u>				
Capacity control		Variab	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4023	m³/h	
Sound power level, indoors/ outdoors	L _{WA}	42/60	dB(A)	For water- or brine-to- water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	N/A	2.752	m³/h	
Annual energy consumption	Q _{HE}	2130	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							e ,Qingdao	
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 sup	olementary capa			
$Sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570301	

Model(s): [information identifying the model(s) to which the information relates]				AW16NHVGHA / HU162F20AHYAE3				
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	n o roturo		103			
Parameters shall be declared application, except for low-ten			•					
low- temperature heat pumps				Low-temperature application				
declared for low-temperature			an be					
Parameters shall be declared			dor and					
warmer climate conditions.	ioi avei	aye, cor	uei aliu	Warm climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	12	kW	Seasonal space heating energy efficiency	η_{s}	253	%	
Declared capacity for heati	na for na	art load a	at indoor	Declared coefficient of perform	ance or primary	energy rat	tio for part	
temperature 20 °C and o				load at indoor temperature 2			-	
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%	
T _i = + 2 °C	P _{dh}	11.95	kW	T _i = + 2 °C	COP _d or PER _d	4.12	– or%	
T _i = + 7 °C	P _{dh}	7.82	kW	T _i = + 7 °C	COP _d or PER _d	6.34	– or%	
T _i = + 12 °C	P _{dh}	5.04	kW	T _i = + 12 °C	COP _d or PER _d	7.73	– or%	
T _i = bivalent temperature	P _{dh}	11.95	kW	T _i = bivalent temperature	COP _d or PER _d	4.12	– or%	
T_i = operation limit				T			0/	
temperature	P _{dh}	11.95	kW	T_j = operation limit temperature	COP _d or PER _d	4.12	– 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%	
$T_j = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$	rdh	IN/A	KVV	= - 15 °C (if TOL < - 20 °C)	COP _d OI PEN _d	IN/A	- OI /0	
				For air to water best number				
Bivalent temperature	T_{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
Cycling interval capacity for				Operation in the 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	l 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	' sup	-	IXVV	
Standby mode	P _{SB}	0.018	kW	. , po or orlongy input				
Crankcase heater mode	P _{CK}	0	kW					
Other items		•		•				
				For air-to-water heat pumps:		4000	0.0	
Capacity control		Variab	ole	Rated air flow rate, outdoors	_	4023	m³/h	
				For water- or brine-to- water				
Sound power level, indoors/	١.	l	<u>.</u>	heat pumps: Rated brine or			- *-	
outdoors	L_{WA}	42/60	dB(A)	water flow rate, outdoor heat	N/A	2.752	m³/h	
33.30010				exchanger				
Annual energy consumption	Q _{HE}	2130	kWhor GJ					
For heat pump combination h				1		<u> </u>	<u> </u>	
· ·				Water heating energy				
Declared load profile		L		efficiency	η_{wh}	135	%	
Daily electricity consumption	Q_{elec}	4.76	kWh	Annual electricity consumption	AEC	941	kWh	
	0:	<u> </u>	<u> </u>					
				er Electric Co., Ltd.		. =		
Contact details			Park,No.236,	Qianwangang Road ,Qingdao Ec	o-tech Develop	ment Zon	e ,Qingdao	
		5,China						
				heaters, the rated heat output Pra				
				ary heater P _{sup} is equal to the supp		city for he	ating	
$sup(T_j)$. (**) If C_{dh} is not determ	ined by r	measurei	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$			
						^	150570301	

Model(s): [information identifying the model(s) to which the information relates]				AW16NHVGHA / HU16NWAHYAE3				
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	rv heate	r·			Yes			
Heat pump combination heate	•	••			No			
Parameters shall be declared		ium tom	noraturo		110			
application, except for low-ter								
low- temperature heat pumps				Medium-temperature application	า			
declared for low-temperature	•		50					
Parameters shall be declared			dor and					
warmer climate conditions.	ioi avei	age, con	der and	Warm climate conditions				
Item	symbol	Value	Unit	Item	symbol	Value	Unit	
Rated heat output (*)	P _{rated}	9.5	kW	Seasonal space heating energy efficiency	η_{s}	176	%	
Declared capacity for heati	na for na	art load a	nt indoor	Declared coefficient of perform	ance or primary	eneray rat	io for part	
temperature 20 °C and o				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%	
$T_i = + 2 ^{\circ}C$	P _{dh}	9.58	kW	T _i = + 2 °C	COP _d or PER _d	2.61	– or%	
T _i = + 7 °C	P _{dh}	6.24	kW	T _i = + 7 °C	COP _d or PER _d	3.99	– or%	
T _i = + 12 °C	P _{dh}	4.78	kW	T _i = + 12 °C	COP _d or PER _d	6.10	– or%	
T_i = bivalent temperature	P _{dh}	9.58	kW	T _i = bivalent temperature	COP _d or PER _d	2.61	– or%	
T_j = operation limit								
temperature	P _{dh}	9.58	kW	T _j = operation limit temperature	COP _d or PER _d	2.61	– or%	
For air-to-water heat pumps:	D	NI/A	14\//	For air-to-water heat pumps: T _j	COD or DED	NI/A	or%	
$T_i = -15 ^{\circ}\text{C} (\text{if TOL} < -20 ^{\circ}\text{C})$	P_{dh}	N/A	kW	= - 15 °C (if TOL < - 20 °C)	COP _d or PER _d	N/A	– or%	
Bivalent temperature	T_{biv}	2	°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	WTOL	80	°C	
Power consumption in modes	other th	an activ	o modo	temperature 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	F sup		KVV	
Standby mode	P _{SB}	0.018	kW	Type of effergy input				
Crankcase heater mode	P _{CK}	0.010	kW					
Other items	- CK		****	1		<u> </u>	l	
				For air-to-water heat pumps:			- "	
Capacity control		Variab	ole	Rated air flow rate, outdoors	_	4821	m³/h	
				For water- or brine-to- water				
Sound power level, indoors/				heat pumps: Rated brine or				
outdoors	L_{WA}	42/67	dB(A)	water flow rate, outdoor heat	N/A	1.720	m³/h	
Juliuois				exchanger				
Annual energy consumption	Q _{HE}	2417	kWhor GJ	3.10.10.1931				
For heat pump combination h			AVVIIOI OU				<u> </u>	
·	cator. IN/			Water heating energy				
Declared load profile		_		efficiency	η_{wh}	_	%	
Daily electricity consumption	Q_{elec}	_	kWh	Annual electricity consumption	AEC		kWh	
				er Electric Co., Ltd.		. =	.	
Contact details			Park,No.236,	Qianwangang Road ,Qingdao Ec	o-tech Develop	ment Zon	e ,Qingdao	
		5,China						
				heaters, the rated heat output Pra				
				ary heater P _{sup} is equal to the supp		city for he	ating	
$Sup(T_j)$. (**) If C_{dh} is not determ	ined by r	neasurer	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$			
						0	150570301	

Model(s): [information identify	ing the r	nodel(s)	to which the	AW16NHVGHA	/ HU162F20AH	YAE3			
information relates] Air-to-water heat pump:				Yes					
<u> </u>	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 heate	_				Yes				
Parameters shall be declared		ium-tem	perature						
application, except for low-ter low-temperature heat pumps declared for low-temperature	nperatur , parame	e heat p eters sha	umps. For	Medium-temperature application	n				
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}	9.5	kW	Seasonal space heating energy efficiency	η _s	176	%		
Declared capacity for heati	na for na	ert load a	at indoor	Declared coefficient of perform	ance or primary	energy rat	tio for part		
temperature 20 °C and o	•			load at indoor temperature 2	•		•		
$T_i = -7 ^{\circ}\text{C}$	P _{dh}	/	kW	$T_i = -7 ^{\circ}\text{C}$	COP _d or PER _d	/	– or%		
T _i = + 2 °C	P _{dh}	9.58	kW	T _i = + 2 °C	COP _d or PER _d	2.61	– or%		
T _j = + 7 °C	P _{dh}	6.24	kW	T _j = + 7 °C	COP _d or PER _d	3.99	– or%		
T _j = + 12 °C	P_{dh}	4.78	kW	T _j = + 12 °C	COP _d or PER _d	6.10	– or%		
T_j = bivalent temperature	P_{dh}	9.58	kW	T_j = bivalent temperature	COP _d or PER _d	2.61	– or%		
T_j = operation limit temperature	P_{dh}	9.58	kW	T_j = operation limit temperature	COP _d or PER _d	2.61	– 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	1		ı	Territorio de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composición					
Capacity control		Variat	ole	For air-to-water heat pumps: Rated air flow rate, outdoors	_	4821	m³/h		
Sound power level, indoors/ outdoors	L _{WA}	42/67	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}	2417	kWhor GJ						
For heat pump combination h	eater: Ye	es							
Declared load profile		L		Water heating energy efficiency	η_{wh}	135	%		
Daily electricity consumption	Q _{elec}	4.76	kWh	Annual electricity consumption	AEC	941	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	ment then the	default degradation coefficient is	$C_{dh} = 0.9.$		150570301		