TECHNICAL DATA MANUAL

M-THERMAL MONO

Product fiche 1

Heat pump space heater	eater	unit	MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V9W/D2N1	MHC-V10W/D2N1	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V10W/D2N1 MHC-V12W/D2N1 MHC-V14W/D2N1 MHC-V16W/D2N1 MHC-V12W/D2RN1 MHC-V14W/D2RN1 MHC-V16W/D2RN1	MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
Indoor unit sound power (*)		[dB(A)]	/	/	/	/	/	/	/	/	/	/
Outdoor unit sound power (*)		[dB(A)]	63	67	70	68	69	73	73	70	73	75
Capacity of the back-up heater integrated in the unit	Capacity of the back-up heater heater heater	[kW]	0	0	0	3	3	3	3	5	5	5
off peak operation function integrated in Heat pump	unction integrated in	Υ/N	No	No	No	No	No	No	No	No	No	No
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A++	A++	A++	A++	A++	A++	++V	A++	A++	A++
Space heating	Energy efficiency class 55°C(Medium temp. app.)	-	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Average climate (Design temperature=	sign temperature= -10°C)	(C)										
	Prated(declared heating capacity) @-10°C	[kW]	5	7	6	10	12	14	16	12	14	16
Space heating 35°C	Seasonal space heating efficiency(ηs)	[%]	176	178	163	162	166	173	167	175	168	164
	Annual energy consumption	[kWh]	2,143	2,989	4,377	4,896	6,312	6,630	7,957	5,544	6,551	8,002
	Prated(declared heating capacity) @-10°C	[kW]	7	7	6	11	11	13	14	11	13	14
Space heating 55°C	Seasonal space heating efficiency(ns)	[%]	126	126	127	129	129	129	125	131	128	126
	Annual energy consumption	[kWh]	4,228	4,228	5,558	7,025	7,025	8,550	8,973	6,757	8,291	9,712
Part load conditions	Part load conditions space heating average climate low temperature application	climate	low temperatu	re application								
	Pdh(declared heating capacity)	[kW]	4.10	5.80	7.80	9.10	11.40	12.80	13.50	10.60	12.00	12.00
(A) condition (-7°C)	COPd (declared COP)	-	2.85	2.80	2.45	2.74	2.92	2.78	2.78	2.83	2.66	2.65
	Cdh(degradation coefficient)	-	0.90	06:0	06:0	0.90	06:0	06.0	06:0	06:0	06:0	06.0
	Pdh(declared heating capacity)	[kW]	2.40	3.60	4.90	5.30	6.70	7.80	00'6	6.60	7.20	8.60
(B) condition (2°C)	COPd (declared COP)	-	4.53	4.18	3.76	4.10	4.25	4.09	3.99	4.08	3.97	3.97
	Cdh(degradation coefficient)	-	06:0	06:0	06:0	0.90	06:0	06.0	06'0	06:0	06:0	06:0
	Pdh(declared heating capacity)	[kW]	1.70	2.30	3.10	3.50	4.40	4.80	6.10	4.40	4.90	5.60
(C) condition (7°C)	COPd (declared COP)	•	6.08	6.39	6.39	5.90	6.42	6.12	6.12	6.22	6.36	6.03
	Cdh(degradation coefficient)	-	0.90	06.0	06:0	0.90	06:0	06.0	06:0	06:0	06:0	06.0
	Pdh(declared heating capacity)	[kW]	1.30	1.40	1.50	1.40	2.00	3.10	3.10	3.70	3.80	4.00
(D) condition (12°C)		•	8.92	9.24	8.50	4.40	6.48	8.83	7.84	9.37	9.00	8.54
	Cdh(degradation coefficient)	1	06:0	06:0	06:0	06:0	06:0	06.0	06.0	06.0	06:0	06.0

Product fiche 2

Heat pump space heater	eater	unit		MHC-V5W/D2N1 MHC-V7W/D2N1	MHC-V9W/D2N1	MHC-V10W/D2N1		MHC-V12W/D2N1 MHC-V14W/D2N1	MHC-V16W/DZN1 MHC-V12W/DZRN1 MHC-V16W/DZRN1 MHC-V16W/DZRN1	MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
	Tol (temperature operating limit)	ပ္ပ	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.20	6.30	7.50	9.80	10.70	11.80	11.60	10.90	10.80	11.00
operating limit)	COPd (declared COP)		2.62	2.61	2.39	2.48	2.60	2.59	2.38	2.47	2.41	2.36
	WTOL (Heating water Operation Limit)	[°C]	49	49	49	49	49	49	49	49	49	49
	NQL NIQL	[]	2-	<i>L</i> -	2-	-10	<i>L</i> -	8-	9-	2-	2-	-5
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	4.10	5.80	7.80	08'6	11.40	13.00	13.90	10.60	12.00	13.00
	COPd (declared COP)	-	2.85	2.80	2.45	2.48	2:92	2.84	2.80	2.83	2.66	2.90
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0:20	0:30	1.40	0	2.10	2.20	4.80	1.10	2.70	5.20
Part load conditions	Part load conditions space heating average climate medium temperature application	climat	e medium temp	erature applica	tion							
	Pdh (declared heating capacity)	[kW]	5.80	5.80	7.70	10.00	10.00	12.00	12.30	9.70	11.60	11.70
(A) condition (-7°C)	COPd (declared COP)		1.97	1.97	1.98	2.01	2.01	2.06	2.02	2.00	2.02	1.99
	Cdh(degradation coefficient)	-	0:90	06:0	06:0	06.0	06'0	06:0	06:0	06:0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	3.70	3.70	4.90	6.30	6.30	7.40	7.90	6.20	7.50	7.80
(B) condition (2°C)	COPd (declared COP)		3.06	3.06	3.02	3.18	3.18	3.12	3.05	3.21	3.10	3.02
	Cdh(degradation coefficient)	-	0.90	06:0	0.90	06.0	06.0	06:0	06:0	0.90	06:0	06.0
	Pdh (declared heating capacity)	[kW]	2.60	2.60	3.20	4.00	4.00	4.70	5.10	4.10	4.70	5.10
(C) condition (7°C)	COPd (declared COP)		4.46	4.46	4.67	4.54	4.53	4.68	4.57	4.67	4.68	4.70
	Cdh(degradation coefficient)		06:0	06:0	06'0	06'0	06'0	06:0	06:0	06.0	06'0	06.0
	Pdh (declared heating capacity)	[kW]	1.30	1.30	1.40	2.60	2.60	2.10	2.10	3.00	2.80	2.80
(D) condition (12°C) COPd (declared COP)	COPd (declared COP)	-	5.65	5.65	6.16	2:32	28.3	4.82	4.77	5.68	5.20	5.28
	Cdh(degradation coefficient)	1	06:0	06:0	06'0	06'0	06'0	06:0	06'0	06:0	06'0	06.0
	Tol (temperature operating limit)	[°C]	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	6.60	09:9	7.00	10.90	10.90	11.00	10.20	11.50	11.70	10.60
operating limit)	COPd (declared COP)	ı	1.71	1.72	1.78	1.76	1.76	1.75	1.68	1.76	1.77	1.78
	WTOL (Heating water Operation Limit)	[,c]	49	49	49	49	49	49	49	49	49	49
	Tblv	[,c]	-7	-2	-7	2-	<i>L</i> -	2-	-7	-7	-7	9-
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	5.80	5.80	7.70	10.00	10.00	12.00	12.30	9.70	11.60	12.10
	COPd (declared COP)	1	1.97	1.97	1.98	2.01	2.01	2.06	2.02	2.00	2.02	2.09
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0.00	0.00	1.70	0.40	0.40	2.60	3.70	0	1.50	3.70

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Heat pump space heater		unit	MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V9W/D2N1	unit MHC-V5W/D2N1 MHC-V7W/D2N1 MHC-V9W/D2N1 MHC-V16W/D2N1 MHC-V14W/D2N1 MHC-V16W/D2N1 MHC-V12W/D2RN1 MHC-V16W/D2RN1 MHC-V16W	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V16W/D2N1	MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
Colder climate (Design temperature = -22°C												
		[kW]	5		6	11	12	14	16	12	14	16
Space heating 35°C	Seasonal space heating Efficiency (ŋs)	[%]	133	158	147	132	144	136	131	145	145	121
		[kWh]	3,331	4,116	5,717	7,747	8,175	10,032	12,145	8,515	9,430	12,724
		[kW]	5	7	6	10	7	12	15	1-	12	15
Space heating 55°C		[%]	100	106	110	66	94	94	96	108	108	111
		[kWh]	4,459	6,436	7,622	9,946	12,303	12,303	14,341	10,958	10,956	13,021
Part load conditions space heating colder climate low temperature application	ace heating colder clim	ate lo	w temperature	application								
	Pdh (declared heating capacity)	[kW]	3.70	5.50	09.9	8.60	9.80	9:90	9:90	10.00	10.30	9.30
condition (-15°C)	COPd (declared COP)		2.23	2.41	2.20	2.35	2.33	2.21	2.21	2.43	2.42	2.15
	Cdh(degradation coefficient)		06:0	06:0	06:0	06:0	06:0	06:0	06:0	06:0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	2.70	4.00	5.50	6.30	7.50	8.90	10.00	7.60	9.20	9.40
(A) condition (-7°C)	COPd (declared COP)		3.04	3.25	3.08	3.11	3.14	2.90	2.81	3.19	3.15	2.74
	Cdh(degradation coefficient)		06.0	06:0	06:0	06:0	06:0	06:0	06.0	06.0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	1.60	2.50	3.20	3.80	4.70	5.20	6.20	4.70	6.00	6.30
(B) condition (2°C)	COPd (declared COP)	-	3.91	5.16	4.56	4.01	4.44	4.19	4.12	4.57	4.55	3.66
	Cdh(degradation coefficient)		06.0	06:0	06:0	06:0	06:0	06:0	0.90	06:0	06:0	06:0
	Pdh (declared heating capacity)	[kW]	1.30	1.80	2.20	2.40	3.00	3.40	4.00	3.00	3.50	4.00
(C) condition (7°C)	COPd (declared COP)		5.98	7.13	6.39	5.82	6.10	5.85	5.91	90.9	6.03	5.47
	Cdh(degradation coefficient)		06.0	06:0	06:0	06:0	06:0	06:0	0.90	06:0	06:0	06:0
	Pdh (declared heating capacity)	[kW]	1.20	1.10	1.30	1.10	2.90	4.40	2.70	2.60	2.60	3.10
(D) condition (12°C)	COPd (declared COP)		8.59	7.57	8.13	3.56	8.92	8.72	6.88	5.76	5.65	6.10
	Cdh(degradation coefficient)	-	06.0	06.0	06.0	0.90	06:0	06.0	0.90	06:0	0.90	0.90
		[]	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.50	4.90	5.30	8.20	8.30	7.60	8.40	8.40	8.20	7.60
operating limit)	COPd (declared COP)		1.83	2.00	1.86	1.87	1.85	1.88	1.68	2.02	2.00	1.73
	WTOL (Heating water Operation Limit)	[]	40	40	40	40	40	40	40	40	40	40
		[]	-15	-15	-14	-15	-15	-12	-11	-14	-13	-11
(F) Tbivalent temperature	Pdh (declared heating capacity)	[kW]	3.70	5.50	6.80	8.60	9.80	10.40	11.80	10.10	10.80	11.40
	COPd (declared COP)		2.23	2.41	2.23	2.35	2.33	2.36	2.51	2.50	2.58	2.42
Supplementary capacity at P_design	Psup (@Tdesignh:-22°C) [kW]	[kW]	0.00	1.50	3.40	1.80	3.20	5.00	8.90	3.70	4.90	7.50

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Heat pump space heater	er.	unit	MHC-V5W/D2N1	MHC-V7W/D2N	MHC-V9W/D2N1	unit MHC-V5W/D2N1 MHC-V7W/D2N1 MHC-V9W/D2N1 MHC-V10W/D2N1 MHC-V12W/D2N1 MHC-V14W/D2N1 MHC-V12W/D2RN1 MHC-V16W/D2RN1 MHC-V14W/D2RN1 MHC-V16W/D2RN1 MHC-V16W	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V16W/D2N1	MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
Part load conditions space heating colder climate medium temperature application	ace heating colder clin	nate m	edium tempera	ature applicati	on							
	Pdh (declared heating capacity)	[kW]	3.80	5.00	6.10	8.40	10.10	10.10	9.00	9.30	9.30	9.20
condition (-15°C)	COPd (declared COP)		1.66	1.66	1.79	1.68	1.82	1.82	1.64	1.80	1.80	1.72
	Cdh(degradation coefficient)		06.0	06'0	06:0	06:0	06:0	06:0	06.0	06'0	06:0	06.0
	ating	[kW]	3.00	4.40	5.40	6.20	08.7	08.7	8.80	7.80	7.80	9.30
(A) condition (-7°C)	COPd (declared COP)		2.12	2.26	2.32	2.17	2.14	2.14	2.20	2.32	2.32	2.34
	Cdh(degradation coefficient)		06:0	06.0	06:0	06:0	06:0	06:0	06.0	06'0	06:0	06:0
	ating	[kW]	1.70	2.50	3.20	3.90	4.40	4.40	5.30	4.50	4.50	5.70
(B) condition (2°C)	COPd (declared COP)		3.01	3.43	3.38	3.00	2.77	2.77	3.20	3.35	3.35	3.53
	Cdh(degradation coefficient)		06.0	06.0	06:0	06:0	06:0	06:0	06:0	06:0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	1.20	1.60	2.10	2.50	2.90	2.90	3.40	2.90	2.90	3.60
(C) condition (7°C)	COPd (declared COP)	-	3.91	4.39	4.87	4.09	4.16	4.16	4.52	4.44	4.44	4.68
	Cdh(degradation coefficient)		06.0	06.0	06:0	06:0	06:0	06:0	06:0	06.0	06:0	06.0
	ıting	[kW]	1.10	1.00	1.10	1.20	1.30	1.30	2.50	2.40	2.40	3.60
(D) condition (12°C)	COPd (declared COP)	1	5.84	62'3	6.25	3.10	3.33	3.33	6.41	4.73	4.73	7.08
	Cdh(degradation coefficient)	1	06.0	06.0	06:0	06.0	06:0	06:0	0.90	06:0	06:0	0.90
	Tol (temperature operating limit)	[°C]	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00
(E) Tol(temperature	Pdh (declared heating capacity)	[kW]	4.20	4.20	4.50	7.10	7.10	7.10	6.40	7.30	7.30	7.00
operating limit)	COPd (declared COP)		1.37	1.34	1.38	1.31	1.29	1.29	1.16	1.40	1.40	1.34
	WTOL (Heating water Operation Limit)	[°C]	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
	Tblv	[°C]	-15.00	-13.00	-12.00	-15.00	-11.00	-11.00	-11.00	-14.00	-14.00	-11.00
(F) Tbivalent	Pdh (declared heating capacity)	[kW]	3.80	5.40	6.40	8.40	8.60	8.60	10.60	9.80	9.80	10.70
	COPd (declared COP)		1.66	1.77	1.93	1.68	1.59	1.59	1.86	1.89	1.89	1.99
Supplementary capacity at P_design	Psup (@Tdesignh:-22°C)	[kW]	0.20	2.50	4.20	2.60	4.40	4.40	8.50	4.40	4.40	7.20
Warmer climate (Design temperature =2°C)	n temperature =2°C)											
	Prated (declared heating capacity) @ 2°C	[kW]	5	7	8	10	12	14	15	12	14	15
Space heating 35°C	neating	[%]	229	248	245	272	251	237	218	250	188	212
	Annual energy consumption	[kWh]	1,105	1,392	1,791	2,021	2,565	3,223	3,569	2,580	4,023	3,756
	Prated (declared heating capacity) @ 2°C	[kW]	5	7	8	10	12	12	15	12	12	15
Space heating 55°C	Seasonal space heating efficiency (ηs)	[%]	145	167	167	153	159	160	155	149	147	169
	Annual energy consumption	[kWh]	1,660	2,121	2,668	3,534	3,967	3,928	4,963	4,386	4,445	4,773

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Heat pump space heater	-0-L	unit	MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V9W/D2N1	MHC-V10W/D2N1	MHC-V12W/D2N1	MHC-V5W/D2N1 MHC-V7W/D2N1 MHC-V9W/D2N1 MHC-V10W/D2N1 MHC-V12W/D2N1 MHC-V14W/D2N1 MHC-V16W/D2N1 MHC-V12W/D2RN1 MHC-V14W/D2RN1 MHC-V16W/D2RN1	MHC-V16W/D2N1	MHC-V12W/D2RN1	MHC-V14W/D2RN1	MHC-V16W/D2RN1
Part load conditions space heating warmer climate low temperature application	ace heating warmer cl	imate	low temperatur	re application								
	Pdh (declared heating capacity)	[kW]	4.70	09:9	8.30	10.10	12.90	14.00	14.00	12.40	13.70	12.60
(B) condition (2°C)	COPd (declared COP)	-	3.82	3.45	2.71	3.89	3.53	2.98	2.98	3.45	3.21	2.94
	Cdh(degradation coefficient)	-	06:0	06.0	06:0	06:0	06'0	06:0	06:0	06'0	06:0	06:0
	ating	[kW]	3.10	4.20	5.70	6.70	06.7	9.30	9.30	7.80	9.20	9.70
(C) condition (7°C)	COPd (declared COP)		5.70	5.59	5.30	5.61	5.47	5.17	5.17	5.54	5.31	5.29
	Cdh(degradation coefficient)		06.0	06:0	06.0	06:0	06:0	06:0	06:0	06.0	06:0	06.0
	Pdh (declared heating capacity)	[kW]	1.30	2.10	2.80	3.90	3.50	4.20	4.20	3.90	3.80	4.30
(D) condition (12°C)	COPd (declared COP)	-	92'2	8.15	8.67	10.18	82.8	8.01	8.01	16.7	7.51	90.7
	Cdh(degradation coefficient)	-	06:0	06:0	06:0	06:0	06'0	06:0	06:0	06'0	06:0	0.90
	Tol (temperature operating limit)	[]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
(E) Tol(temperature operating limit)	Pdh (declared heating capacity)	[kW]	4.70	09:9	8.30	10.10	12.90	14.00	14.00	12.40	13.70	12.60
	COPd (declared COP)	-	3.82	3.45	2.71	3.89	3.53	2.98	2.98	3.45	3.21	2.94
	WTOL (Heating water Operation Limit)	[,c]	00.09	00:09	00.09	00.09	00.09	00.09	00.09	00.09	00.09	00.09
(E) Thivelent	Tblv	[]	7.00	7.00	00.7	7.00	00'2	7.00	7.00	7.00	00.7	7.00
temperature	Pdh (declared heating capacity)	[kW]	3.10	4.20	5.70	6.70	7.90	9.30	9.30	7.80	9.20	9.70
	COPd (declared COP)	-	5.70	5.59	5.30	5.61	5.47	5.17	5.17	5.54	5.31	5.29
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0.10	00:00	09:0	0:30	00.0	0.50	08.0	0.00	09:0	2.60
Part load conditions spa	space heating warmer climate medium temperature application	imate	medium tempe	erature applicat								
	Pdh (declared heating capacity)	[kW]	4.70	08.9	8.50	10.20	12.50	12.50	14.30	12.20	12.20	13.80
(B) condition (2°C)	COPd (declared COP)	-	2.07	2.18	2.22	2.35	2.37	2.37	2.27	2.42	2.42	2.43
	Cdh(degradation coefficient)	-	06:0	06:0	06:0	06.0	06:0	06:0	06:0	06:0	06:0	0.90
	Pdh (declared heating capacity)	[kW]	3.00	4.40	5.80	09.9	7.70	7.70	9.20	8.00	8.00	9.90
(C) condition (7°C)	COPd (declared COP)		3.29	3.45	3.62	3.38	3.37	3.37	3.33	3.50	3.50	3.66
	Cdh(degradation coefficient)	-	06:0	06.0	06:0	06.0	06:0	06:0	06.0	06.0	06:0	0.90
	Pdh (declared heating capacity)	[kW]	1.40	2.10	2.50	3.00	3.60	3.60	4.20	3.40	3.40	4.60
(D) condition (12°C)	COPd (declared COP)	-	4.74	6.01	5.76	4.95	5.35	5.35	5.62	5.25	5.25	5.96
	Cdh(degradation coefficient)		0.90	06.0	06:0	06.0	06.0	0.90	0.90	06.0	06:0	0.90
	Tol (temperature operating limit)	[]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
(E) Tol(temperature operating limit)	Pdh (declared heating capacity)	[kW]	4.70	6.80	8.50	10.20	12.50	12.50	14.30	12.20	12.20	13.80
	COPd (declared COP)	-	2.07	2.18	2.22	2.35	2.37	2.37	2.27	2.42	2.42	2.43
	WTOL (Heating water Operation Limit)	[]	00.09	00.09	00.09	00.09	00.09	00.09	60.00	00.09	60.00	00.09

Product fiche 6

Heat pump space heater	ater	unit	MHC-V5W/D2N1	MHC-V7W/D2N1	MHC-V5W/D2N1 MHC-V7W/D2N1 MHC-V9W/D2N1	MHC-V10W/D2N1	MHC-V12W/D2N1	MHC-V14W/D2N1	MHC-V16W/D2N1	MHC-V12W/D2RN1	MHC-V16W/D2N1 MHC-V12W/D2RN1 MHC-V14W/D2RN1 MHC-V16W/D2RN1	MHC-V16W/D2RN1
(E) Thivalent	Tblv	[sc]	7	7	7	2	2	7	7	2	2	7
temperature	Pdh (declared heating capacity)	[kW]	3.00	4.40	5.80	09.9	7.70	7.70	9.20	8.00	8.00	9:90
	COPd (declared COP)	1	3.29	3.45	3.62	3.38	3.37	3.37	3.33	3.50	3.50	3.66
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0.00	0.00	0.50	0.10	00.0	0.00	0.40	08'0	0:30	1.60
Ecodesign technical data	lata											
	Air-to-water heat pump	N/N	Yes	Yes	Yes	Yes	SəA	Yes	Yes	səД	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	oN	No	No	oN	No	No
4	Brine-to-water heat pump	N/A	No	No	No	No	oN	No	No	oN	No	No
Froduct description	Low-temperature heat pump	N/A	No	No	No	No	oN	No	No	oN	No	No
	Equipped with a supplementary heater	Y/N	No	No	No	Yes	Yes	Yes	Yes	ХeУ	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No	No	No	No	No	No
Air to water unit	Rated airflow (outdoor)	[m ³ /h]	3050	3050	3050	6150	6150	6150	6150	6150	6150	6150
Brine/water to water unit Rated water/brine flow (outdoor H/E)	Rated water/brine flow (outdoor H/E)	[m ³ /h]	/	/	/	/	/	/	/	/	/	/
	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.027	0.027	0.027
	Pto (Power consumption [kW]	[kW]	0.016	0.016	0.016	0.006	900.0	0.006	0.006	900.0	0.006	900.0
Other	Psb (Power consumption Standby mode)	[kW]	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.027	0.027	0.027
	PCK (Power crankcase heater model)	[kW]	0.034	0.034	0.034	0.018	0.018	0.018	0.018	0.001	0.001	0.001
	Qelec (Daily electricity consumption)	[kWh]	/	/	1	1	/	/	/	1	/	/
	Ofuel (Daily fuel consumption)	[kWh]	/	/	/	/	/	/	1	/	/	/
_												-

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

		Tech	nical	parameters			
Model(s):				Unit: MHC-V5W/D2N1			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heate	r:			NO			
Heat pump combination heater:				NO			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-	temperature	application					
Item	Symbol	Value	Unit	Item	Symbol	Value	Un
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	126	%
Declared capacity for heating for part load a and outdoor temperature Tj		perature 20 °C	;	Declared coefficient of performance or prin indoor temperature 20 °C and outdoor te	ary energy ra	itio for part loa	ad at
Tj = -7℃	Pdh	5.8	kW	Tj = -7 °C	COPd	1.97	-
Tj = 2 °C	Pdh	3.7	kW	Tj = 2 °C	COPd	3.06	-
Tj = 7 °C	Pdh	2.6	kW	Tj = 7℃	COPd	4.46	-
Tj = 12℃	Pdh	1.3	kW	Tj = 12 C	COPd	5.65	-
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	1.97	-
Tj = operating limit	Pdh	6.6	kW	Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C
Power consumption in modes other than active mode Off mode Poff O.016 W Standby mode Supplementary heater Rated heat output (**) Psup W kW							
Off mode	Poff	0.016	kW				
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	0	kW
Thermostat-off mode	Pto	0.016	kW	Time of energy input			
Crankcase heater mode	Pck	0.034	kW	Type of energy input		Electrical	
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/l
Sound power level, indoors/outdoors	L _{WA}	-/63	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	-	m ³ /l
Annual energy consumption	Q _{HE}	4228	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters			
Model(s):				MHC-V5W/D2N1			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heate	r:			NO			
Heat pump combination heater:				NO			
Declared climate condition:				COLDER			
Parameters are declared for medium-	temperature	application					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	100	%
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at
Tj = -7℃	Pdh	3	kW	Tj = -7 C	COPd	2.12	-
Tj = 2 °C	Pdh	1.7	kW	Tj = 2℃	COPd	3.01	-
Tj = 7 °C	Pdh	1.2	kW	Tj = 7 °C	COPd	3.91	-
Tj = 12 °C	Pdh	1.1	kW	Tj = 12 °C	COPd	5.84	-
Tj = bivalent temperature	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.66	-
Tj = operating limit	Pdh	4.2	kW	Tj = operating limit	COPd	1.37	-
For air-to-water heat pumps: Tj = -15℃	Pdh	3.8	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	1.66	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C
Power consumption in modes other than active mode Off mode							
Off mode	Poff	0.016	kW	Poted hoot output (**)	D	0.0	
Standby mode	Psb	0.016	kW	Rated fleat output ()	rsup	0.2	KVV
Thermostat-off mode	Pto	0.016	kW	Type of energy input		_	
Crankcase heater mode	Pck	0.034	kW	Type of chorgy input			
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Sound power level, indoors/outdoors	L _{WA}	-/63	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h
Annual energy consumption	Q _{HE}	4459	kWh	heat exchanger			
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters								
Model(s):				MHC-V5W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:		NO										
Brine-to-water heat pump:		NO										
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		NO									
Heat pump combination heater:				NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	emperature	application	-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	145	%					
Declared capacity for heating for part load a and outdoor temperature Tj	nt indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at					
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-					
Tj = 2 °C	Pdh	4.7	kW	Tj = 2 °C	COPd	2.07	-					
Tj = 7 °C	Pdh	3.0	kW	Tj = 7 °C	COPd	3.29	-					
Tj = 12 °C	Pdh	1.4	kW	Tj = 12 °C	COPd	4.74	-					
Tj = bivalent temperature	Pdh	3.0	kW	Tj = bivalent temperature	COPd	4.29	-					
Tj = operating limit	Pdh	4.7	kW	Tj = operating limit	COPd	2.07	-					
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-					
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater								
Off mode	Poff	0.016	kW	Dated heat output (**)	Ь	0.0						
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	0.2	kW					
Thermostat-off mode	Pto	0.016	kW	Type of energy input								
Crankcase heater mode	Pck	0.034	kW	Type of chorgy input								
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/63	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h					
Annual energy consumption	Q _{HE}	1660	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				Unit: MHC-V7W/D2N1							
Air-to-water heat pump:		YES									
Water-to-water heat pump:		NO									
Brine-to-water heat pump:		NO NO									
Low-temperature heat pump:											
Equipped with a supplementary heate	ır.	NO NO									
Heat pump combination heater:				NO NO							
Declared climate condition:				AVERAGE							
	tomporatura	application		AVEINGE							
Parameters are declared for medium-	terriperature	аррисации	Į.								
	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	126	%				
Declared capacity for heating for part load and outdoor temperature Tj		perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor tel	ary energy ra	itio for part lo	ad at				
Tj = -7°C	Pdh	5.8	kW	Tj = -7 C	COPd	1.97	_				
Tj = 2°C	Pdh	3.7	kW	Tj = 2°C	COPd	3.06	-				
Tj = 7℃	Pdh	2.6	kW	Ti = 7 °C	COPd	4.65	-				
	Pdh	1.3	kW	Tj = 12°C	COPd	5.65	_				
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	1.97	-				
Tj = operating limit	Pdh	6.6	kW	Tj = operating limit	COPd	1.71	_				
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-				
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C				
Power consumption in modes other than ac	ctive mode			Supplementary heater							
Off mode	Poff	0.016	kW								
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	0	kV				
Thermostat-off mode	Pto	0.016	kW				_				
Crankcase heater mode	Pck	0.034	kW	Type of energy input		Electrical					
Other items					I		_				
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /l				
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	4228	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۷				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

Model(s):				MHC-V7W/D2N1								
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 NO										
Equipped with a supplementary heater	r·	NO NO										
Heat pump combination heater:		NO NO										
Declared climate condition:				COLDER								
Parameters are declared for medium-t	omperature	application	,	0022								
Faldineters are declared for inculant t	Emperature	; аррисацогі	-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	106	%					
Declared capacity for heating for part load a and outdoor temperature Tj		perature 20 °C	5	Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter	ary energy ra	tio for part lo	ad at					
Tj = -7℃	Pdh	4.4	kW	Tj = -7℃	COPd	2.26	-					
Tj = 2°C	Pdh	2.5	kW	Tj = 2°C	COPd	3.43	-					
Tj = 7℃	Pdh	1.6	kW	Tj = 7°C	COPd	4.39	-					
Tj = 12°C	Pdh	1.0	kW	Tj = 12 °C	COPd	5.39	-					
Tj = bivalent temperature	Pdh	5.4	kW	Tj = bivalent temperature	COPd	1.77	-					
Tj = operating limit	Pdh	4.2	kW	Tj = operating limit	COPd	1.34	-					
For air-to-water heat pumps: Tj = -15 °C	Pdh	5.0	kW	For air-to-water heat pumps: Tj = -15 C	COPd	1.66	-					
Bivalent temperature	Tbiv	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C					
Power consumption in modes other than act	tive mode			Supplementary heater								
Off mode	Poff	0.016	kW									
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	2.5	kW					
Thermostat-off mode	Pto	0.016	kW	Total of account input								
Crankcase heater mode	Pck	0.034	kW	Type of energy input		-						
Other items				Fig. six to wester head number								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /h					
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h					
Annual energy consumption	Q _{HE}	6436	kWh	Heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details	GD Midea I			uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

		Tech	nical	parameters								
Model(s):				MHC-V7W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:		NO										
Brine-to-water heat pump:		NO										
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:			NO								
Heat pump combination heater:				NO								
Declared climate condition:			WARMER									
Parameters are declared for medium-	temperature	application	-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	167	%					
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	oerature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at					
Tj = -7 °C	Pdh	-	kW	Tj = -7℃	COPd	-	-					
Tj = 2 °C	Pdh	6.8	kW	Tj = 2℃	COPd	2.18	-					
Tj = 7 °C	Pdh	4.4	kW	Tj = 7 °C	COPd	3.45	-					
Tj = 12 °C	Pdh	2.1	kW	Tj = 12 °C	COPd	6.01	-					
Tj = bivalent temperature	Pdh	4.4	kW	Tj = bivalent temperature	COPd	3.45	-					
Tj = operating limit	Pdh	6.8	kW	Tj = operating limit	COPd	2.18	-					
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-					
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other than ac	ctive mode			Supplementary heater								
Off mode	Poff	0.016	kW	Rated heat output (**)	Psup	0	kW					
Standby mode	Psb	0.016	kW	Nated Heat Output ()	1 Sup	U	KVV					
Thermostat-off mode	Pto	0.016	kW	Type of energy input		_						
Crankcase heater mode	Pck	0.034	kW									
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/l					
Sound power level, indoors/outdoors	L _{WA}	-/67	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /l					
Annual energy consumption	Q _{HE}	2121	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				Unit: MHC-V9W/D2N1							
Air-to-water heat pump:				YES							
Water-to-water heat pump:		NO									
Brine-to-water heat pump:		NO									
Low-temperature heat pump:		NO NO									
Equipped with a supplementary heater	er:			NO							
Heat pump combination heater:				NO							
Declared climate condition:				AVERAGE							
Parameters are declared for medium-	temperature	application	1.								
	•	•••									
Item	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηѕ	127	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °(Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell			ad at				
Tj = -7 ℃	Pdh	7.7	kW	Tj = -7 C	COPd	1.98	-				
Tj = 2 °C	Pdh	4.9	kW	Tj = 2°C	COPd	3.02	-				
Tj = 7 C	Pdh	3.2	kW	Tj = 7 °C	COPd	4.67	-				
Tj = 12 °C	Pdh	1.4	kW	Tj = 12℃	COPd	6.16	-				
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	1.98	-				
Tj = operating limit	Pdh	7.0	kW	Tj = operating limit	COPd	1.78	-				
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-				
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C				
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.016	kW	Detad heat output (**)	Б	4-					
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	1.7	kV				
Thermostat-off mode	Pto	0.016	kW	Type of energy input		Electrical					
Crankcase heater mode	Pck	0.034	kW	Type of chargy input		Licotrical					
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	5558	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kV				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

		Tech	nical	parameters								
Model(s):				MHC-V9W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:				NO								
Brine-to-water heat pump:		NO										
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		NO									
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium-	temperature	application										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	110	%					
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at					
Tj = -7 °C	Pdh	5.4	kW	Tj = -7 °C	COPd	2.32	-					
Tj = 2 °C	Pdh	3.2	kW	Tj = 2 ℃	COPd	3.38	-					
Tj = 7 °C	Pdh	2.1	kW	Tj = 7 °C	COPd	4.87	-					
Tj = 12 °C	Pdh	1.1	kW	Tj = 12°C	COPd	6.25	-					
Tj = bivalent temperature	Pdh	6.4	kW	Tj = bivalent temperature	COPd	1.93	-					
Tj = operating limit	Pdh	4.5	kW	Tj = operating limit	COPd	1.38	-					
For air-to-water heat pumps: Tj = -15 °C	Pdh	6.1	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	1.79	-					
Bivalent temperature	Tbiv	-12	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater		·						
Off mode	Poff	0.016	kW	Pated heat autout (**)	Psup	4.0						
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	4.2	kW					
Thermostat-off mode	Pto	0.016	kW	Type of energy input		_						
Crankcase heater mode	Pck	0.034	kW	Type of chorgy input								
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	7622	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

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

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

		Tech	nical	parameters									
Model(s):				MHC-V9W/D2N1									
Air-to-water heat pump:				YES									
Water-to-water heat pump:		NO											
Brine-to-water heat pump:		NO											
Low-temperature heat pump:			NO NO										
Equipped with a supplementary heate	r:			NO									
Heat pump combination heater:			NO										
Declared climate condition:			WARMER										
Parameters are declared for medium-	temperature	application											
Item	Symbol	Value	Unit	Item	Symbol	Value	Un						
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	167	%						
Declared capacity for heating for part load a and outdoor temperature Tj		perature 20 °C	;	Declared coefficient of performance or primindoor temperature 20 °C and outdoor te	nary energy ra	atio for part loa	ad at						
Tj = -7℃	Pdh	-	kW	Tj = -7 °C	COPd	-	-						
Tj = 2 °C	Pdh	8.5	kW	Tj = 2 °C	COPd	2.22	-						
Tj = 7 °C	Pdh	5.8	kW	Tj = 7°C	COPd	3.62	-						
Tj = 12℃	Pdh	2.5	kW	Tj = 12 C	COPd	5.76	-						
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	3.62	-						
Tj = operating limit	Pdh	8.5	kW	Tj = operating limit	COPd	2.22	-						
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-						
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C						
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C						
Power consumption in modes other than ac	tive mode			Supplementary heater									
Off mode	Poff	0.016	kW										
Standby mode	Psb	0.016	kW	Rated heat output (**)	Psup	0.5	kW						
Thermostat-off mode	Pto	0.016	kW	Type of energy input									
Crankcase heater mode	Pck	0.034	kW	Type of energy input		-							
Other items													
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/l						
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /						
Annual energy consumption	Q _{HE}	2668	kWh	heat exchanger									
For heat pump combination heater:			_										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%						
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW						
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G						
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)									

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	pa	arameters						
Model(s):					Unit: MHC-V10W/D2N1						
Air-to-water heat pump:		YES									
Water-to-water heat pump:					NO						
Brine-to-water heat pump:					NO						
Low-temperature heat pump:					NO						
Equipped with a supplementary heater	r:				YES						
Heat pump combination heater:					NO						
Declared climate condition:					AVERAGE						
Parameters are declared for medium-	temperature	application	l.								
			11-2	-	W	Cumbal	Value				
Item Control of the C	Symbol	Value	Unit	H	Item (7)	Symbol	Value	Unit			
Rated heat output (*) Declared capacity for heating for part load and outdoor temperature Ti	Prated at indoor temp	nerature 20 °C	kW C		Seasonal space heating energy efficiency Declared coefficient of performance or prim indoor temperature 20 °C and outdoor 20 °C and outdoor 20 °C and outdoor 20 °C and outdoor 20 °C and			% ad at			
Tj = -7 C	Pdh	10.0	kW	ı	Tj = -7°C	COPd	2.01	-			
Tj = 2℃	Pdh	6.3	kW	ı	Tj = 2°C	COPd	3.18	-			
Tj = 7℃	Pdh	4.0	kW	ı	Tj = 7°C	COPd	4.54	-			
Tj = 12℃	Pdh	2.6	kW	ı	Tj = 12℃	COPd	5.37	-			
Tj = bivalent temperature	Pdh	10.0	kW	ı	Tj = bivalent temperature	COPd	2.01	-			
Tj = operating limit	Pdh	10.9	kW	ı	Tj = operating limit	COPd	1.76	-			
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW	Ī	For air-to-water heat pumps: Tj = -15°C	COPd	-	-			
Bivalent temperature	Tbiv	-7	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	Pcych	-	kW		Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient (**)	Cdh	0.9			Heating water operating limit temperature	WTOL	49	°C			
Power consumption in modes other than ac	tive mode				Supplementary heater						
Off mode	Poff	0.017	kW		Rated heat output (**)	Psup	0.4	1.34/			
Standby mode	Psb	0.017	kW		Nated Heat Output ()	r sup	0.4	kW			
Thermostat-off mode	Pto	0.006	kW		Type of energy input	Elo	ctrical Heating	,			
Crankcase heater mode	Pck	0.018	kW			Lie	- Cuicai i leaung				
Other items											
Capacity control		variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h			
Sound power level, indoors/outdoors	L _{WA}	-/68	dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h			
Annual energy consumption	Q _{HE}	7025	kWh		heat exchanger						
For heat pump combination heater:											
Declared load profile		_		Т	Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	ŀ	Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ			
Contact details		Heating & Ver			ment Co. Ltd e, Foshan, Guangdong, P.R China)						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				MHC-V10W/D2N1							
Air-to-water heat pump:				YES							
Water-to-water heat pump:		NO									
Brine-to-water heat pump:		NO									
Low-temperature heat pump:		NO NO									
Equipped with a supplementary heater	er:			YES							
Heat pump combination heater:				NO							
Declared climate condition:				COLDER							
Parameters are declared for medium-	temperature	application	1.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un				
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	99	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °			ad at				
Tj = -7℃	Pdh	6.2	kW	Tj = -7°C	COPd	2.17	-				
Tj = 2 C	Pdh	3.9	kW	Tj = 2 °C	COPd	3.00	-				
Tj = 7 °C	Pdh	2.5	kW	Tj = 7 °C	COPd	4.09	-				
Tj = 12 C	Pdh	1.2	kW	Tj = 12°C	COPd	3.10	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	1.68	-				
Tj = operating limit	Pdh	7.1	kW	Tj = operating limit	COPd	1.31	-				
For air-to-water heat pumps: Tj = -15 °C	Pdh	8.4	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.68	-				
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C				
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.017	kW		_						
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	2.6	k۷				
Thermostat-off mode	Pto	0.006	kW	Time of anomy input							
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heatin	g				
Other items			_								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /				
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /				
Annual energy consumption	Q _{HE}	9946	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۱				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

		Tech	nical	parameters								
Model(s):				MHC-V10W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:		NO										
Brine-to-water heat pump:		NO										
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	emperature	application										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηѕ	153	%					
Declared capacity for heating for part load a and outdoor temperature Tj	nt indoor temp	perature 20 °C	;	Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			ad at					
Tj = -7°C	Pdh	-	kW	Tj = -7℃	COPd	-	-					
Tj = 2 °C	Pdh	10.2	kW	Tj = 2 °C	COPd	2.35	-					
Tj = 7℃	Pdh	6.6	kW	Tj = 7 ℃	COPd	3.38	-					
Tj = 12℃	Pdh	3.0	kW	Tj = 12 C	COPd	4.95	-					
Tj = bivalent temperature	Pdh	6.6	kW	Tj = bivalent temperature	COPd	3.38	-					
Tj = operating limit	Pdh	10.2	kW	Tj = operating limit	COPd	2.35	-					
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-					
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater								
Off mode	Poff	0.017	kW	5								
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0.1	kW					
Thermostat-off mode	Pto	0.006	kW	Type of operaty input								
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heating						
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	3534	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters							
Model(s):				Unit: MHC-V12W/D2N1							
Air-to-water heat pump:				YES							
Water-to-water heat pump:				NO							
Brine-to-water heat pump:				NO							
Low-temperature heat pump:				NO NO							
Equipped with a supplementary heater	r:			YES							
Heat pump combination heater:				NO							
Declared climate condition:				AVERAGE							
Parameters are declared for medium-	temperature	e application	١.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηѕ	129	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor te			ad at				
Tj = -7 °C	Pdh	10.0	kW	Tj = -7℃	COPd	2.01	-				
Tj = 2 °C	Pdh	6.3	kW	Tj = 2 ℃	COPd	3.18	-				
Tj = 7 ℃	Pdh	4.0	kW	Tj = 7 ℃	COPd	4.54	-				
Tj = 12℃	Pdh	2.5	kW	Tj = 12 C	COPd	5.37	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	2.01	-				
Tj = operating limit	Pdh	10.9	kW	Tj = operating limit	COPd	1.76	-				
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-				
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C				
Power consumption in modes other than ac	tive mode			Supplementary heater							
Off mode	Poff	0.017	kW	Rated heat output (**)	P _{sup}	0.4	kW				
Standby mode	Psb	0.017	kW	rated field output ()	1 sup	0.4	KVV				
Thermostat-off mode	Pto	0.006	kW	Type of energy input	Flee	ctrical Heating					
Crankcase heater mode	Pck	0.018	kW		Lic		,				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h				
Sound power level, indoors/outdoors	L _{WA}	-/69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h				
Annual energy consumption	Q _{HE}	7025	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)	-						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				MHC-V12W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
Low-temperature heat pump:		NO NO										
Equipped with a supplementary heater	er:			YES								
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium-	temperature	application	l.									
	•	•••										
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηs	94	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell			ad at					
Tj = -7 ℃	Pdh	7.8	kW	Tj = -7 C	COPd	2.14	-					
Tj = 2 °C	Pdh	4.4	kW	Tj = 2 °C	COPd	2.77	-					
Tj = 7 C	Pdh	2.9	kW	Tj = 7 °C	COPd	4.16	-					
Tj = 12 °C	Pdh	1.3	kW	Tj = 12℃	COPd	3.33	-					
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	1.59	-					
Tj = operating limit	Pdh	7.1	kW	Tj = operating limit	COPd	1.29	-					
For air-to-water heat pumps: Tj = -15 C	Pdh	10.1	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.82	-					
Bivalent temperature	Tbiv	-11	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C					
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.017	kW	Detect has a subset (**)								
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	4.4	kW					
Thermostat-off mode	Pto	0.006	kW	Type of energy input								
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heatin	g					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h					
Sound power level, indoors/outdoors	L _{WA}	-/69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	12303	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

Model(s):				MHC-V12W/D2N1								
Air-to-water heat pump:			YES									
Water-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
Low-temperature heat pump:		NO NO										
Equipped with a supplementary heater	er:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	temperature	application	1.									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uı					
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	159	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell			ad at					
Tj = -7℃	Pdh	-	kW	Tj = -7 C	COPd	-	-					
Tj = 2℃	Pdh	12.5	kW	Tj = 2 °C	COPd	2.37	-					
Tj = 7 °C	Pdh	7.7	kW	Tj = 7 °C	COPd	3.37	-					
Tj = 12 °C	Pdh	3.6	kW	Tj = 12°C	COPd	5.35						
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	3.37						
Tj = operating limit	Pdh	12.5	kW	Tj = operating limit	COPd	2.37						
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-						
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	۰					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	۰					
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.017	kW		_							
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0	k'					
Thermostat-off mode	Pto	0.006	kW	Time of energy input								
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heatin	g					
Other items			_									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³					
Sound power level, indoors/outdoors	L _{WA}	-/69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³					
Annual energy consumption	Q _{HE}	3967	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	(
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۱					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	C					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

		Tech	nical	parameters						
Model(s):				Unit: MHC-V14W/D2N1						
Air-to-water heat pump:				YES						
Water-to-water heat pump:				NO						
Brine-to-water heat pump:				NO						
Low-temperature heat pump:				NO						
Equipped with a supplementary heate	r:			YES						
Heat pump combination heater:				NO						
Declared climate condition:				AVERAGE						
Parameters are declared for medium-	emperature	application	l.							
H	C. mah al	Value	Unit	Item	Symbol	Value	Uni			
Item	Symbol	value 13	kW		-		Unit %			
Rated heat output (*) Declared capacity for heating for part load a and outdoor temperature Tj	Prated at indoor temp			Seasonal space heating energy efficiency Declared coefficient of performance or prim indoor temperature 20 °C and outdoor te			,,,			
Tj = -7°C	Pdh	12.0	kW	Tj = -7 °C	COPd	2.05	-			
Tj = 2 °C	Pdh	7.4	kW	Tj = 2 ℃	COPd	3.12	-			
Tj = 7 C	Pdh	4.7	kW	Tj = 7℃	COPd	4.68	-			
Tj = 12 °C	Pdh	2.1	kW	Tj = 12°C	COPd	4.82	-			
Tj = bivalent temperature	Pdh	12.0	kW	Tj = bivalent temperature	COPd	2.06	-			
Tj = operating limit	Pdh	11.0	kW	Tj = operating limit	COPd	1.75	-			
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 C	COPd	-	-			
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C			
Power consumption in modes other than ac	tive mode			Supplementary heater						
Off mode	Poff	0.017	kW	Rated heat output (**)	Psup	2.6	kW			
Standby mode	Psb	0.017	kW	Nated Heat Output ()	1 Sup	2.0	KVV			
Thermostat-off mode	Pto	0.006	kW	Type of energy input	Fle	ctrical Heating	a			
Crankcase heater mode	Pck	0.018	kW		210		9 			
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h			
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /h			
Annual energy consumption	Q _{HE}	8550	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
Contact details				uipment Co. Ltd Inde, Foshan, Guangdong, P.R China)						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				MHC-V14W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
Low-temperature heat pump:		NO NO										
Equipped with a supplementary heate	er:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium	temperature	application										
	•	•••										
Item	Symbol	Value	Unit	Item	Symbol	Value	Ur					
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	94	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor tell			ad at					
Tj = -7 ℃	Pdh	7.8	kW	Tj = -7 C	COPd	2.14	-					
Tj = 2 C	Pdh	4.4	kW	Tj = 2°C	COPd	2.77	-					
Tj = 7 C	Pdh	2.9	kW	Tj = 7 °C	COPd	4.16	-					
Tj = 12°C	Pdh	1.3	kW	Tj = 12℃	COPd	3.33	-					
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	1.59	-					
Tj = operating limit	Pdh	7.1	kW	Tj = operating limit	COPd	1.29	-					
For air-to-water heat pumps: Tj = -15 C	Pdh	10.1	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.82	-					
Bivalent temperature	Tbiv	-11	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°(
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°(
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.017	kW	Detect head autout (**)	Б							
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	4.4	k۷					
Thermostat-off mode	Pto	0.006	kW	Type of energy input								
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heatin	g 					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /					
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /					
Annual energy consumption	Q _{HE}	12303	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۷					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

		Tech	nical	parameters					
Model(s):				MHC-V14W/D2N1					
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 NO					
Equipped with a supplementary heate				YES					
Heat pump combination heater:				NO					
Declared climate condition:				WARMER					
	tomporature	application		VVALUVILIX					
Parameters are declared for medium-	emperature	* application	l.						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	160	%		
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °	ary energy ra		ad at		
Tj = -7°C	Pdh	-	kW	Tj = -7℃	COPd	-	-		
Tj = 2 °C	Pdh	12.5	kW	Tj = 2°C	COPd	2.37	-		
Tj = 7 C	Pdh	7.7	kW	Tj = 7°C	COPd	3.37	-		
Tj = 12 C	Pdh	3.6	kW	Tj = 12℃	COPd	5.35	-		
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	3.37	-		
Tj = operating limit	Pdh	12.5	kW	Tj = operating limit	COPd	2.37	-		
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-		
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than ac	tive mode			Supplementary heater					
Off mode	Poff	0.017	kW						
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0	kW		
Thermostat-off mode	Pto	0.006	kW						
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Ele	ctrical Heating	j		
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h		
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	_	m³/h		
Annual energy consumption	Q _{HE}	3928	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		_		Water heating energy efficiency	η _{wh}	_	%		
Daily electricity consumption	Q _{clec}	_	kWh	Daily fuel consumption	Q _{fuel}	_	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)					

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters								
Model(s):				Unit: MHC-V16W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:				NO								
Brine-to-water heat pump:				NO								
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				AVERAGE								
Parameters are declared for medium-	temperature	e application										
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	-	125	%					
Declared capacity for heating for part load a and outdoor temperature Tj				Declared coefficient of performance or primindoor temperature 20 °C and outdoor te		itio for part lo						
Tj = -7℃	Pdh	12.3	kW	Tj = -7℃	COPd	2.02	-					
Tj = 2 °C	Pdh	7.9	kW	Tj = 2 °C	COPd	3.05	-					
Tj = 7 °C	Pdh	5.1	kW	Tj = 7°C	COPd	4.57	-					
Tj = 12 °C	Pdh	2.1	kW	Tj = 12 °C	COPd	4.77	-					
Tj = bivalent temperature	Pdh	12.3	kW	Tj = bivalent temperature	COPd	2.02	-					
Tj = operating limit	Pdh	10.2	kW	Tj = operating limit	COPd	1.66	-					
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 C	COPd	-	-					
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater								
Off mode	Poff	0.017	kW	Rated heat output (**)	Psup	3.7	kW					
Standby mode	Psb	0.017	kW	Nated Heat Output ()	1 Sup	3.7	KVV					
Thermostat-off mode	Pto	0.006	kW	Type of energy input	Fle	ctrical Heating	a					
Crankcase heater mode	Pck	0.018	kW		Lie		9					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /l					
Annual energy consumption	Q _{HE}	8973	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				MHC-V16W/D2N1								
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 supplementary heate	er:			YES								
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium-	temperature	application	l.									
	•	•••										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	ηѕ	99	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °			ad at					
Tj = -7℃	Pdh	8.8	kW	Tj = -7°C	COPd	2.20	-					
Tj = 2 °C	Pdh	5.3	kW	Tj = 2 °C	COPd	3.20	-					
Tj = 7 °C	Pdh	3.4	kW	Tj = 7°C	COPd	4.52	-					
Tj = 12℃	Pdh	2.5	kW	Tj = 12°C	COPd	6.41	-					
Tj = bivalent temperature	Pdh	10.6	kW	Tj = bivalent temperature	COPd	1.86	-					
Tj = operating limit	Pdh	6.4	kW	Tj = operating limit	COPd	1.16	-					
For air-to-water heat pumps: Tj = -15 °C	Pdh	9	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.64	-					
Bivalent temperature	Tbiv	-11	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C					
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.017	kW									
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	8.5	kW					
Thermostat-off mode	Pto	0.006	kW	Time of anomy input								
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Ele	ctrical Heatin	g					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	14341	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

Model(s):				MHC-V16W/D2N1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
Low-temperature heat pump:			NO NO									
Equipped with a supplementary heate	er:		YES									
Heat pump combination heater:				NO NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	temnerature	annlication	<u> </u>									
r drameters are decidred for mediani	temperature	, арріїоціої	·-									
Item	Symbol	Value	Unit	Item	Symbol	Value	U					
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	ηs	155	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °	ary energy ra		ad at					
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-						
Tj = 2°C	Pdh	14.3	kW	Tj = 2℃	COPd	2.27						
Tj = 7℃	Pdh	9.2	kW	Tj = 7°C	COPd	3.33	-					
Tj = 12°C	Pdh	4.2	kW	Tj = 12°C	COPd	5.62						
Tj = bivalent temperature	Pdh	9.2	kW	Tj = bivalent temperature	COPd	3.33						
Tj = operating limit	Pdh	14.3	kW	Tj = operating limit	COPd	2.27						
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-						
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	۰					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	۰					
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.017	kW				П					
Standby mode	Psb	0.017	kW	Rated heat output (**)	Psup	0.4	k					
Thermostat-off mode	Pto	0.006	kW									
Crankcase heater mode	Pck	0.018	kW	Type of energy input	Elec	ctrical Heatin	g					
Other items							_					
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³					
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³					
Annual energy consumption	Q _{HE}	4963	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	(
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k\					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	(
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

		I ecii	IIICai	parameters								
Model(s):				Unit: MHC-V12W/D2RN1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:			NO									
Brine-to-water heat pump:			NO									
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				AVERAGE								
Parameters are declared for medium-	emperature	application	l.									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηs	131	%					
Declared capacity for heating for part load a and outdoor temperature Tj	nt indoor temp	perature 20 °C		Declared coefficient of performance or prim indoor temperature 20 °C and outdoor temperature 20			ad at					
Tj = -7°C	Pdh	9.7	kW	Tj = -7 °C	COPd	2.00	-					
Tj = 2 °C	Pdh	6.2	kW	Tj = 2℃	COPd	3.21	-					
Tj = 7 °C	Pdh	4.1	kW	Tj = 7 ℃	COPd	4.67	-					
Tj = 12°C	Pdh	3.0	kW	Tj = 12 °C	COPd	5.68	-					
Tj = bivalent temperature	Pdh	9.7	kW	Tj = bivalent temperature	COPd	2.00	-					
Tj = operating limit	Pdh	11.5	kW	Tj = operating limit	COPd	1.76	-					
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-					
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater								
Off mode	Poff	0.027	kW	Rated heat output (**)	Psup	0	1.30/					
Standby mode	Psb	0.027	kW	Nated Heat Output ()	i sup	U	kW					
Thermostat-off mode	Pto	0.006	kW	Type of energy input	Elo	ctrical Heating	a					
Crankcase heater mode	Pck	0.001	kW	., pe or one, g, mpar	Ele	cuicai neauii	9					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ /h					
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h					
Annual energy consumption	Q _{HE}	6757	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				MHC-V12W/D2RN1								
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 supplementary heater	er:			YES								
Heat pump combination heater:				NO								
Declared climate condition:				COLDER								
Parameters are declared for medium-	temperature	e application	 _									
		- арроао	•									
Item	Symbol	Value	Unit	Item	Symbol	Value	Ur					
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηs	108	%					
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °			ad at					
Tj = -7℃	Pdh	7.8	kW	Tj = -7 C	COPd	2.32	-					
Tj = 2 C	Pdh	4.5	kW	Tj = 2 °C	COPd	3.35	-					
Tj = 7 C	Pdh	2.9	kW	Tj = 7 °C	COPd	4.44	-					
Tj = 12°C	Pdh	2.4	kW	Tj = 12℃	COPd	4.73	-					
Tj = bivalent temperature	Pdh	9.8	kW	Tj = bivalent temperature	COPd	1.89						
Tj = operating limit	Pdh	7.3	kW	Tj = operating limit	COPd	1.40						
For air-to-water heat pumps: Tj = -15°C	Pdh	9.3	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.80						
Bivalent temperature	Tbiv	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	٥					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	٥					
Power consumption in modes other than a	ctive mode			Supplementary heater								
Off mode	Poff	0.027	kW	Detect hand suitant (**)								
Standby mode	Psb	0.027	kW	Rated heat output (**)	Psup	4.4	k۱					
Thermostat-off mode	Pto	0.006	kW	Type of energy input								
Crankcase heater mode	Pck	0.001	kW	Type of energy input	Elec	ctrical Heatin	g					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³ .					
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ .					
Annual energy consumption	Q _{HE}	10958	kWh	heat exchanger								
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	9					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۱					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G					
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)								

		ı ecn	nıcaı	parameters								
Model(s):				MHC-V12W/D2RN1								
Air-to-water heat pump:				YES								
Water-to-water heat pump:				NO								
Brine-to-water heat pump:				NO								
Low-temperature heat pump:			NO									
Equipped with a supplementary heate	r:		YES									
Heat pump combination heater:				NO								
Declared climate condition:				WARMER								
Parameters are declared for medium-	emperature	application	-									
Item	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	149	%					
Declared capacity for heating for part load a and outdoor temperature Tj	it indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor te	ary energy ra mperature T	atio for part loa j	ad at					
Tj = -7°C	Pdh	-	kW	Tj = -7 °C	COPd	-	-					
Tj = 2 °C	Pdh	12.2	kW	Tj = 2 °C	COPd	2.42	-					
Tj = 7 C	Pdh	8.0	kW	Tj = 7°C	COPd	3.50	-					
Tj = 12°C	Pdh	3.4	kW	Tj = 12 °C	COPd	5.25	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.50	-					
Tj = operating limit	Pdh	12.2	kW	Tj = operating limit	COPd	2.42	-					
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-					
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other than ac	tive mode			Supplementary heater								
Off mode	Poff	0.027	kW	Dated hast subsub (**)								
Standby mode	Psb	0.027	kW	Rated heat output (**)	Psup	0.3	kW					
Thermostat-off mode	Pto	0.006	kW	Type of energy input	EL.	.1.71.11						
Crankcase heater mode	Pck	0.018	kW	Type or energy input	Ele	ctrical Heating	9					
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-/70	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	_	-	m ³ /h					
Annual energy consumption	Q _{HE}	4386	kWh	heat exchanger								
For heat pump combination heater:				_								
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%					
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWl					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact details				uipment Co. Ltd								

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

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

		Tech	nical	pa	arameters						
Model(s):					Unit: MHC-V14W/D2RN1						
Air-to-water heat pump:					YES						
Water-to-water heat pump:					NO						
Brine-to-water heat pump:					NO						
Low-temperature heat pump:					NO						
Equipped with a supplementary heate	r:				YES						
Heat pump combination heater:					NO						
Declared climate condition:					AVERAGE						
Parameters are declared for medium-	emperature	application									
Item	Symbol	Value	Unit	1	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	13	kW	1 [Seasonal space heating energy efficiency	ηѕ	128	%			
Declared capacity for heating for part load a and outdoor temperature Tj	nt indoor tem	perature 20 °C	;		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °			ad at			
Tj = -7℃	Pdh	11.6	kW		Tj = -7 °C	COPd	2.02	-			
Tj = 2 °C	Pdh	7.5	kW	1 [Tj = 2 °C	COPd	3.10	-			
Tj = 7 °C	Pdh	4.7	kW	1 [Tj = 7 °C	COPd	4.68	-			
Tj = 12 °C	Pdh	2.8	kW	1 [Tj = 12 °C	COPd	5.20	-			
Tj = bivalent temperature	Pdh	11.6	kW	1 [Tj = bivalent temperature	COPd	2.02	-			
Tj = operating limit	Pdh	11.7	kW	1	Tj = operating limit	COPd	1.77	-			
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	1 [For air-to-water heat pumps: Tj = -15 °C	COPd	-	-			
Bivalent temperature	Tbiv	-7	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	Pcych	-	kW	1 [Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient (**)	Cdh	0.9		1 [Heating water operating limit temperature	WTOL	49	°C			
Power consumption in modes other than ac	tive mode				Supplementary heater						
Off mode	Poff	0.027	kW	1 [Dated host subsut (**)						
Standby mode	Psb	0.027	kW	1	Rated heat output (**)	Psup	1.5	kW			
Thermostat-off mode	Pto	0.006	kW		Type of energy input	Гю	atrical Heating				
Crankcase heater mode	Pck	0.001	kW			Elec	ctrical Heating				
Other items											
Capacity control		variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h			
Sound power level, indoors/outdoors	L _{WA}	-/73	dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h			
Annual energy consumption	Q _{HE}	8291	kWh		heat exchanger						
For heat pump combination heater:											
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	1	Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ			
Contact details		Heating & Vendustry road, Be			ment Co. Ltd , Foshan, Guangdong, P.R China)						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters					
Model(s):				MHC-V14W/D2RN1					
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 supplementary heate	r:			YES					
Heat pump combination heater:				NO					
Declared climate condition:				COLDER					
Parameters are declared for medium-	temperature	e application	l.						
	-								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηѕ	108	%		
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor tem	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor temperature 20 °			ad at		
Tj = -7 C	Pdh	7.8	kW	Tj = -7 C	COPd	2.32	-		
Tj = 2 C	Pdh	4.5	kW	Tj = 2 ℃	COPd	3.35	-		
Tj = 7 °C	Pdh	2.9	kW	Tj = 7 °C	COPd	4.44	-		
Tj = 12 °C	Pdh	2.4	kW	Tj = 12°C	COPd	4.73	-		
Tj = bivalent temperature	Pdh	9.8	kW	Tj = bivalent temperature	COPd	1.89	-		
Tj = operating limit	Pdh	7.3	kW	Tj = operating limit	COPd	1.40	-		
For air-to-water heat pumps: Tj = -15 °C	Pdh	9.3	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.80	-		
Bivalent temperature	Tbiv	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	°C		
Power consumption in modes other than ac	tive mode			Supplementary heater					
Off mode	Poff	0.027	kW	Dated heat output (**)					
Standby mode	Psb	0.027	kW	Rated heat output (**)	Psup	4.4	kW		
Thermostat-off mode	Pto	0.006	kW	Type of energy input	El-	-4-i1114i			
Crankcase heater mode	Pck	0.001	kW	Type of energy input	Ele	ctrical Heating			
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h		
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h		
Annual energy consumption	Q _{HE}	10958	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ		
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)					

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

		Tech	nical	parameters							
Model(s):				MHC-V14W/D2RN1							
Air-to-water heat pump:		YES									
Water-to-water heat pump:		NO									
Brine-to-water heat pump:		NO									
Low-temperature heat pump:		NO									
Equipped with a supplementary heater:		YES									
Heat pump combination heater:		NO									
Declared climate condition:				WARMER							
Parameters are declared for medium-	emperature	application									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	147	%				
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj							
Tj = -7°C	Pdh	-	kW	Tj = -7 ℃	COPd	-	-				
Tj = 2 °C	Pdh	12.2	kW	Tj = 2 °C	COPd	2.42	-				
Tj = 7℃	Pdh	8.0	kW	Tj = 7℃	COPd	3.50	-				
Tj = 12℃	Pdh	3.4	kW	Tj = 12 °C	COPd	5.25	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.50	-				
Tj = operating limit	Pdh	12.2	kW	Tj = operating limit	COPd	2.42	-				
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-				
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-				
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C				
Power consumption in modes other than ac	tive mode			Supplementary heater							
Off mode	Poff	0.027	kW	Rated heat output (**)	P _{sup}	0.3	kW				
Standby mode	Psb	0.027	kW								
Thermostat-off mode	Pto	0.006	kW	Type of operaty input	Electrical Heating						
Crankcase heater mode	Pck	0.018	kW	Type of energy input							
Other items											
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h				
Sound power level, indoors/outdoors	L _{WA}	-/73	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h				
Annual energy consumption	Q _{HE}	4445	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%				
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ				
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				Unit: MHC-V16W/D2RN1					
Air-to-water heat pump:		YES							
		NO NO							
Water-to-water heat nump:		NO NO							
Brine-to-water heat pump: Low-temperature heat pump:		NO NO							
<u>`</u>	\r:			YES					
Equipped with a supplementary heater:		1							
Heat pump combination heater: Declared climate condition:		NO AVERAGE							
	4			AVERAGE					
Parameters are declared for medium-	temperature	e application	1.						
Item	Symbol	Value	Unit	Item	Symbol	Value	Un		
Rated heat output (*)	Prated	14	kW	Seasonal space heating energy efficiency	ηs	126	%		
Declared capacity for heating for part load		nerature 20°0	2	Declared coefficient of performance or prima					
and outdoor temperature Tj	at indoor tom	poraturo 20		indoor temperature 20 °C and outdoor tel					
Tj = -7 ℃	Pdh	11.7	kW	Tj = -7 °C	COPd	1.99	-		
Tj = 2 C	Pdh	7.8	kW	Tj = 2°C	COPd	3.02	-		
Tj = 7 C	Pdh	5.1	kW	Tj = 7 °C	COPd	4.70	-		
Tj = 12 °C	Pdh	2.8	kW	Tj = 12℃	COPd	5.28	-		
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	2.09	-		
Tj = operating limit	Pdh	10.6	kW	Tj = operating limit	COPd	1.78	-		
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-		
Bivalent temperature	Tbiv	-6	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	49	°C		
Power consumption in modes other than a	ctive mode			Supplementary heater					
Off mode	Poff	0.027	kW	Rated heat output (**)	Psup	3.7	kW		
Standby mode	Psb	0.027	kW						
Thermostat-off mode	Pto	0.006	kW	Time of anomy input	Electrical Heating				
Crankcase heater mode	Pck	0.001	kW	Type of energy input					
011			_						
Other items				For air-to-water heat pumps:			1		
Capacity control		variable		Rated air flow rate, outdoors	-	6150	m ³ /		
Sound power level, indoors/outdoors	L _{WA}	-/75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m³/h		
Annual energy consumption	Q _{HE}	9172	kWh	heat exchanger					
For heat pump combination heater:									
Declared load profile		_		Water heating energy efficiency	η _{wh}	_	9		
Daily electricity consumption	Q _{clec}	_	kWh	Daily fuel consumption	Q _{fuel}	_	kV		
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G		
				· · · · · · · · · · · · · · · · · · ·	1 3				
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)								

Model(s):				MHC-V16W/D2RN1							
Air-to-water heat pump:				YES							
Water-to-water heat pump:			NO								
Brine-to-water heat pump:			NO NO								
Low-temperature heat pump:			NO NO								
Equipped with a supplementary heate	er:	YES									
Heat pump combination heater:		NO NO									
Declared climate condition:			COLDER								
Parameters are declared for medium-	temnerature	annlication	<u> </u>								
r arameters are declared for mediani-	temperature	application	·-								
Item	Symbol	Value	Unit	Item	Symbol	Value	Uı				
Rated heat output (*)	Prated	15	kW	Seasonal space heating energy efficiency	ηs	111	%				
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C		Declared coefficient of performance or primindoor temperature 20 °C and outdoor 20 °	ary energy ra		ad at				
Tj = -7 °C	Pdh	9.3	kW	Tj = -7°C	COPd	2.34	-				
Tj = 2℃	Pdh	5.7	kW	Tj = 2℃	COPd	3.53	Τ.				
Tj = 7℃	Pdh	3.6	kW	Tj = 7°C	COPd	4.68	-				
Tj = 12 C	Pdh	3.6	kW	Tj = 12℃	COPd	7.08					
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature COPd 1.99							
Tj = operating limit	Pdh	7.0	kW	Tj = operating limit COPd 1.34							
For air-to-water heat pumps: Tj = -15 C	Pdh	9.2	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.72					
Bivalent temperature	Tbiv	-11	°C	For air-to-water heat pumps: Operation limit temperature		-20	۰				
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	40	۰				
Power consumption in modes other than a	ctive mode			Supplementary heater							
Off mode	Poff	0.027	kW								
Standby mode	Psb	0.027	kW	Rated heat output (**)	Psup	7.2	k'				
Thermostat-off mode	Pto	0.006	kW								
Crankcase heater mode	Pck	0.001	kW	Type of energy input	Elec	ctrical Heatin	g				
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m ³				
Sound power level, indoors/outdoors	L _{WA}	-/75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³				
Annual energy consumption	Q _{HE}	13021	kWh	heat exchanger							
For heat pump combination heater:											
Declared load profile		-		Water heating energy efficiency η_{wh} - 9							
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	k۱				
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	(
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)							

		Tech	nical	parameters						
Model(s):				MHC-V16W/D2RN1						
Air-to-water heat pump:		YES								
Water-to-water heat pump:			NO							
Brine-to-water heat pump:			NO							
Low-temperature heat pump:		NO								
Equipped with a supplementary heate	r:			YES						
Heat pump combination heater:				NO						
Declared climate condition:				WARMER						
Parameters are declared for medium-	temperature	application								
Item	Symbol	Value	Unit	Item	Symbol	Value	Un			
Rated heat output (*)	Prated	15	kW							
Declared capacity for heating for part load a and outdoor temperature Tj			mi contains space including area gy amounts y 1/0 100 y							
Tj = -7℃	Pdh	-	kW							
Tj = 2 °C	Pdh	13.8	kW	Tj = 2°C	COPd	2.43	-			
Tj = 7 C	Pdh	9.9	kW	Tj = 7℃ COPd 3.66						
Tj = 12 °C	Pdh	4.6	kW	Tj = 12°C COPd 5.96						
Tj = bivalent temperature	Pdh	9.9	kW	Tj = bivalent temperature	COPd	3.66	-			
Tj = operating limit	Pdh	13.8	kW	Tj = operating limit	COPd	2.43	-			
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-			
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C			
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-			
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than ac	tive mode			Supplementary heater						
Off mode	Poff	0.027	kW	Rated heat output (**)	P _{sup}	1.5	kW			
Standby mode	Psb	0.027	kW	rated fleat edipat ()	1 Sup	1.5	KVV			
Thermostat-off mode	Pto	0.006	kW	Type of energy input	Fle	ctrical Heating	a			
Crankcase heater mode	Pck	0.018	kW							
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/ł			
Sound power level, indoors/outdoors	L _{WA}	-/75	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor	-	-	m ³ /l			
Annual energy consumption	Q _{HE}	4773	kWh	heat exchanger						
For heat pump combination heater:										
Declared load profile		-		Water heating energy efficiency	η _{wh}	-	%			
Daily electricity consumption	Q _{clec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kW			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	G.			
Contact details				uipment Co. Ltd nde, Foshan, Guangdong, P.R China)						

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):			MHC-V5W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Туре:			Compressor driven vapour compression						
Driver of compresso	or:		Electric moto	г					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	4.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	207	%		
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy et outdoor temperatur		or part load at	given		
Tj=+35°C	P _{dc}	4.6	kW	Tj=+35°C	EERd	2.94	-		
Tj=+30°C	P _{dc}	3.4	kW	Tj=+30°C	EERd	4.49	-		
Tj=+25°C	P _{dc}	2.2	kW	Tj=+25°C	EERd	6.28	-		
Tj=+20°C	P _{dc}	1.7	kW	Tj=+20°C	EERd	8.28	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active	mode"				
Off mode	P _{OFF}	0.027	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		2050	3 //-		
Sound power level, indoors / outdoors	Lwa	-/63	dB	air flow rate, outdoor measured	-	3050	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 711		
Standard rating con	ditions used	Low tempera	ature applicatio	n					
Contact details			eating & Ventilating Equipment Co. , Ltd. stry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If Cdc is not de (**) From 26 Septe		measurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.			

Model(s):			MHC-V5W/D2N1							
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	4.6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	263	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	4.6	kW	Tj=+35°C	EERd	4.55	-			
Tj=+30°C	P _{dc}	3.4	kW	Tj=+30°C	EERd	6.16	-			
Tj=+25°C	P _{dc}	2.3	kW	Tj=+25°C	EERd	8.06	-			
Tj=+20°C	P _{dc}	1.6	kW	Tj=+20°C	EERd	8.93	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	P _{OFF}	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0050	3/1			
Sound power level, indoors / outdoors	Lwa	-/63	dB	air flow rate, outdoor measured	-	3050	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating con	ditions used	Medium tem	perature applic	cation						
Contact details				ating Equipment Co. , l iao, Shunde, Foshan, 0		28311 P.R. Ch	ina			
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficien	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V7W/D	2N1					
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Type:			Compressor driven vapour compression						
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	6.7	kW	Seasonal space cooling energy efficiency	η _{s,c}	200	%		
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy e		or part load at	given		
Tj=+35°C	P _{dc}	6.7	kW	Tj=+35°C	EERd	2.61	-		
Tj=+30°C	P _{dc}	5.1	kW	Tj=+30°C	EERd	3.91	-		
Tj=+25°C	P _{dc}	3.2	kW	Tj=+25°C	EERd	6.05	-		
Tj=+20°C	P _{dc}	1.9	kW	Tj=+20°C	EERd	8.53	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active	mode"				
Off mode	Poff	0.027	kW	Crankcase heater mode	P _{CK}	0.000	kW		
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.027	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		0050	2.11		
Sound power level, indoors / outdoors	L _{WA}	-/67	dB	air flow rate, outdoor measured	-	3050	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 /11		
Standard rating con	nditions used	Low tempera	ature applicatio	n					
Contact details			leating & Ventilating Equipment Co. , Ltd. Istry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.			

Model(s):			MHC-V7W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	6.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	243	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	6.5	kW	Tj=+35°C	EERd	4.40	-			
Tj=+30°C	P _{dc}	4.8	kW	Tj=+30°C	EERd	4.09	-			
Tj=+25°C	P _{dc}	3.0	kW	Tj=+25°C	EERd	8.29	-			
Tj=+20°C	P _{dc}	1.6	kW	Tj=+20°C	EERd	8.54	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0050	3.11.			
Sound power level, indoors / outdoors	L _{WA}	-/67	dB	air flow rate, outdoor measured	-	3050	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating con	nditions used	Medium tem	perature applic	cation						
Contact details			leating & Ventilating Equipment Co. , Ltd. ıstry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V9W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	8.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	182	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	8.1	kW	Tj=+35°C	EERd	2.30	-			
Tj=+30°C	P _{dc}	6.0	kW	Tj=+30°C	EERd	3.36	-			
Tj=+25°C	P _{dc}	3.9	kW	Tj=+25°C	EERd	5.43	-			
Tj=+20°C	P _{dc}	1.7	kW	Tj=+20°C	EERd	8.21	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		2050	3//-			
Sound power level, indoors / outdoors	L _{WA}	-/70	dB	air flow rate, outdoor measured	-	3050	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating con	ditions used	Low tempera	ature applicatio	n						
Contact details			leating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V9W/D	2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	8.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	319	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	8.4	kW	Tj=+35°C	EERd	3.97	-			
Tj=+30°C	P _{dc}	6.0	kW	Tj=+30°C	EERd	6.01	-			
Tj=+25°C	P _{dc}	3.8	kW	Tj=+25°C	EERd	9.93	-			
Tj=+20°C	P _{dc}	1.7	kW	Tj=+20°C	EERd	13.85	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0050	3/1			
Sound power level, indoors / outdoors	Lwa	-/70	dB	air flow rate, outdoor measured	-	3050	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating con	ditions used	Medium tem	perature applic	cation						
Contact details			leating & Ventilating Equipment Co. , Ltd. ıstry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V10W/D2N1							
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	10.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	219	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	10.4	kW	Tj=+35°C	EERd	3.18	-			
Tj=+30°C	P _{dc}	8.1	kW	Tj=+30°C	EERd	4.17	-			
Tj=+25°C	P _{dc}	4.9	kW	Tj=+25°C	EERd	6.51	-			
Tj=+20°C	P _{dc}	2.7	kW	Tj=+20°C	EERd	8.45	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	er items						
Capacity control		variable		For air-to-water comfort chillers:		0.450	2.0			
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-		111-/11			
Standard rating con	ditions used	Low tempera	ature applicatio	n						
Contact details				ating Equipment Co. , l iao, Shunde, Foshan, 0		28311 P.R. Ch	ina			
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficien	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V10W/	D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	10.3	kW	Seasonal space cooling energy efficiency	η _{s,c}	265	%			
Declared cooling cooling temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy ef outdoor temperatur		or part load at	given			
Tj=+35°C	P _{dc}	10.3	kW	Tj=+35°C	EERd	4.98	-			
Tj=+30°C	P _{dc}	7.6	kW	Tj=+30°C	EERd	6.24	-			
Tj=+25°C	P _{dc}	5.0	kW	Tj=+25°C	EERd	7.39	-			
Tj=+20°C	P _{dc}	2.3	kW	Tj=+20°C	EERd	7.62	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active	mode"					
Off mode	P _{OFF}	0.017	kW	Crankcase heater mode	Pck	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3.0			
Sound power level, indoors / outdoors	Lwa	-/68	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-				
Standard rating con	ditions used	Medium tem	perature applic	cation						
Contact details			leating & Ventilating Equipment Co. , Ltd. Istry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V12W/D2N1							
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.2	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	224	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	12.2	kW	Tj=+35°C	EERd	2.93	-			
Tj=+30°C	P _{dc}	9.9	kW	Tj=+30°C	EERd	4.31	-			
Tj=+25°C	P _{dc}	5.7	kW	Tj=+25°C	EERd	6.59	-			
Tj=+20°C	P _{dc}	3.1	kW	Tj=+20°C	EERd	8.96	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3/1			
Sound power level, indoors / outdoors	Lwa	-/69	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>					
Standard rating con	ditions used	Low tempera	ature applicatio	n						
Contact details				ating Equipment Co. , I iao, Shunde, Foshan, (28311 P.R. Ch	ina			
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficien	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V12W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.2	kW	Seasonal space cooling energy efficiency	η _{s,c}	277	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	12.2	kW	Tj=+35°C	EERd	4.60	-			
Tj=+30°C	P _{dc}	8.9	kW	Tj=+30°C	EERd	6.09	-			
Tj=+25°C	P _{dc}	5.7	kW	Tj=+25°C	EER₀	8.07	-			
Tj=+20°C	P _{dc}	2.7	kW	Tj=+20°C	EERd	8.38	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active r	node"					
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3.11			
Sound power level, indoors / outdoors	Lwa	-/69	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>					
Standard rating con	ditions used	Medium tem	perature applic	cation						
Contact details				ating Equipment Co. , l iao, Shunde, Foshan, (28311 P.R. Ch	ina			
(*) If Cdc is not de (**) From 26 Sept		measurement t	then the defaul	t degradation coefficien	t of chillers sh	nall be 0,9.				

Model(s):			MHC-V14W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	13.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	190	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy e outdoor temperatu		or part load at	given			
Tj=+35°C	P _{dc}	13.0	kW	Tj=+35°C	EERd	2.86	-			
Tj=+30°C	P _{dc}	9.3	kW	Tj=+30°C	EERd	4.00	-			
Tj=+25°C	P _{dc}	6.1	kW	Tj=+25°C	EERd	4.70	-			
Tj=+20°C	P _{dc}	2.7	kW	Tj=+20°C	EERd	8.43	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active	mode"					
Off mode	Poff	0.017	kW	Crankcase heater mode	P _{CK}	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	. 3/1.			
Sound power level, indoors / outdoors	Lwa	-/73	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	r		m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger		-	III:/II			
Standard rating con	nditions used	Low tempera	ature applicatio	n						
Contact details			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V14W/	MHC-V14W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Unit Item Symbol Value						
Rated cooling capacity	P _{rated,c}	14.6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	259	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	14.6	kW	Tj=+35°C	EERd	4.40	-			
Tj=+30°C	P _{dc}	10.6	kW	Tj=+30°C	EERd	5.64	-			
Tj=+25°C	P _{dc}	6.7	kW	Tj=+25°C	EERd	7.79	-			
Tj=+20°C	P _{dc}	3.2	kW	Tj=+20°C	EERd	7.20	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3 //-			
Sound power level, indoors / outdoors	L _{WA}	-/73	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating conditions used Medium terr			nperature application							
			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V16W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	ssion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Value	Unit					
Rated cooling capacity	P _{rated,c}	13.7	kW	Seasonal space cooling energy efficiency	η _{s,c}	180	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy ef outdoor temperatur		or part load at	given			
Tj=+35°C	P _{dc}	13.7	kW	Tj=+35°C	EERd	2.66	-			
Tj=+30°C	P _{dc}	10.0	kW	Tj=+30°C	EERd	3.74	-			
Tj=+25°C	P _{dc}	6.4	kW	Tj=+25°C	EERd	4.57	-			
Tj=+20°C	P _{dc}	3.1	kW	Tj=+20°C	EERd	7.61	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active	mode"					
Off mode	P _{OFF}	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3.0			
Sound power level, indoors / outdoors	Lwa	-/73	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 /11			
Standard rating con	ditions used	Low tempera	ature applicatio	n						
Contact details			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V16W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Туре:			Compressor	driven vapour compres	ssion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Value	Unit				
Rated cooling capacity	P _{rated,c}	14.8	kW	Seasonal space cooling energy efficiency	η _{s,c}	243	%		
Declared cooling contemperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy ef outdoor temperatur		or part load at	given		
Tj=+35°C	P _{dc}	14.8	kW	Tj=+35°C	EERd	4.05	-		
Tj=+30°C	P _{dc}	11.1	kW	Tj=+30°C	EERd	5.24	-		
Tj=+25°C	P _{dc}	7.1	kW	Tj=+25°C	EERd	7.45	-		
Tj=+20°C	P _{dc}	3.3	kW	Tj=+20°C	EERd	6.67	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active	mode"				
Off mode	P _{OFF}	0.017	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.017	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		0450	3.0		
Sound power level, indoors / outdoors	Lwa	-/73	dB	air flow rate, outdoor measured	-	6150	m ³ /h		
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger		-	111711		
Standard rating con	ditions used	Medium tem	perature applic	cation					
Contact details			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.			

Model(s):			MHC-V12W/	MHC-V12W/D2RN1						
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	207	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy en		or part load at	given			
Tj=+35°C	P _{dc}	12.6	kW	Tj=+35°C	EERd	2.91	-			
Tj=+30°C	P _{dc}	9.5	kW	Tj=+30°C	EERd	4.11	-			
Tj=+25°C	P _{dc}	6.0	kW	Tj=+25°C	EERd	5.99	-			
Tj=+20°C	P _{dc}	3.1	kW	Tj=+20°C	EERd	8.20	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	P _{CK}	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3 //.			
Sound power level, indoors / outdoors	Lwa	-/70	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	_	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger						
Standard rating con	nditions used	Low tempera	ature applicatio	n						
Contact details			Heating & Ventilating Equipment Co. , Ltd. lustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V12W/D2RN1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor	driven vapour compre	ssion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	233	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy e outdoor temperatu		or part load at	given			
Tj=+35°C	P _{dc}	12.6	kW	Tj=+35°C	EERd	4.60	-			
Tj=+30°C	P _{dc}	9.3	kW	Tj=+30°C	EERd	5.29	-			
Tj=+25°C	P _{dc}	5.5	kW	Tj=+25°C	EERd	6.95	-			
Tj=+20°C	P _{dc}	3.4	kW	Tj=+20°C	EERd	6.49	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Pck	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3.0			
Sound power level, indoors / outdoors	Lwa	-/70	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			111 /11			
Standard rating con	nditions used	Medium tem	perature applic	cation						
Contact details			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		neasurement t	then the defaul	t degradation coefficie	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V14W/D2RN1						
Outdoor side heat e	exchanger of o	hiller:	Air to water						
Indoor side heat exc	changer chille	r:	Water						
Туре:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Unit Item Symbol Value					
Rated cooling capacity	P _{rated,c}	13.8	kW	Seasonal space cooling energy efficiency	η _{s,c}	194	%		
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given		
Tj=+35°C	P _{dc}	13.8	kW	Tj=+35°C	EERd	2.68	-		
Tj=+30°C	P _{dc}	10.2	kW	Tj=+30°C	EERd	3.55	-		
Tj=+25°C	P _{dc}	5.9	kW	Tj=+25°C	EERd	6.09	-		
Tj=+20°C	P _{dc}	3.2	kW	Tj=+20°C	EERd	7.36	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	umption in mo	des other than "active r	mode"				
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		0450	3//-		
Sound power level, indoors / outdoors	L _{WA}	-/73	dB	air flow rate, outdoor measured	-	6150	m³/h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>		111 /11		
Standard rating conditions used Low tempera			ature applicatio	n					
			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If Cdc is not de (**) From 26 Septe		neasurement t	then the defaul	t degradation coefficien	nt of chillers sh	nall be 0,9.			

Model(s):			MHC-V14W/D2RN1							
Outdoor side heat e	exchanger of o	hiller:	Air to water							
Indoor side heat exc	changer chille	r:	Water							
Type:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Unit Item Symbol Value						
Rated cooling capacity	P _{rated,c}	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	235	%			
Declared cooling catemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	14.0	kW	Tj=+35°C	EERd	4.30	-			
Tj=+30°C	P _{dc}	10.1	kW	Tj=+30°C	EERd	5.68	-			
Tj=+25°C	P _{dc}	6.2	kW	Tj=+25°C	EERd	6.74	-			
Tj=+20°C	P _{dc}	3.5	kW	Tj=+20°C	EERd	6.55	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	node"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3//-			
Sound power level, indoors / outdoors	Lwa	-/73	dB	air flow rate, outdoor measured	-	6150	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	<u>-</u>		111 /11			
Standard rating conditions used Medium tem			perature applic	cation						
			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficien	t of chillers sh	nall be 0,9.				

Model(s):			MHC-V16W/D2RN1							
Outdoor side heat e	exchanger of o	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor	Compressor driven vapour compression						
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	15.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	199	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff		or part load at	given			
Tj=+35°C	P _{dc}	15.3	kW	Tj=+35°C	EERd	2.38	-			
Tj=+30°C	P _{dc}	11.5	kW	Tj=+30°C	EERd	4.05	-			
Tj=+25°C	P _{dc}	7.7	kW	Tj=+25°C	EERd	6.06	-			
Tj=+20°C	P _{dc}	3.8	kW	Tj=+20°C	EERd	7.37	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	mode"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	3 <i>/</i> IL			
Sound power level, indoors / outdoors	Lwa	-/75	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_		111 /11			
Standard rating conditions used Low temper			ature applicatio	n						
			Heating & Ventilating Equipment Co. , Ltd. lustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficier	nt of chillers sh	nall be 0,9.				

Model(s):			MHC-V16W/D2RN1							
Outdoor side heat e	exchanger of c	hiller:	Air to water	Air to water						
Indoor side heat exc	changer chille	r:	Water							
Туре:			Compressor driven vapour compression							
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	15.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	244	%			
Declared cooling contemperature Tj	apacity for pa	rt load at giver	outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	15.1	kW	Tj=+35°C	EERd	4.00	-			
Tj=+30°C	P _{dc}	11.3	kW	Tj=+30°C	EERd	5.38	-			
Tj=+25°C	P _{dc}	7.1	kW	Tj=+25°C	EERd	7.61	-			
Tj=+20°C	P _{dc}	3.6	kW	Tj=+20°C	EERd	6.79	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	umption in mo	des other than "active r	node"					
Off mode	Poff	0.027	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.006	kW	Standby mode	P _{SB}	0.027	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0450	. 3/1			
Sound power level, indoors / outdoors	Lwa	-/75	dB	air flow rate, outdoor measured	-	6150	m ³ /h			
Emissions of nitroger oxides (if applicable)	NO _× (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	_	-	111 /11			
Standard rating conditions used Medium tem			perature applic	cation						
			Heating & Ventilating Equipment Co. , Ltd. ustry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China							
(*) If Cdc is not de (**) From 26 Sept		measurement t	hen the defaul	t degradation coefficien	it of chillers sh	nall be 0,9.				

	Mode					Heating					Coo	ling
Model	Ambient temperature		7/6			2/1			-7/-8		35/	24
	Water temperature	30-35	40-45	47-55	30-35	40-45	a-55	30-35	40-45	a-55	23-18	12-7
	Capacity /W	4580	4670	4760	4380	4400	4270	4870	4640	4350	4550	4550
MHC-V5W/D2N1	Power input /W	970	1430	1880	1170	1660	1930	1760	2210	2390	1000	1550
	COP / EER	4.72	3.27	2.53	3.77	2.65	2.21	2.77	2.10	1.82	4.55	2.94
	Capacity /W	6550	6690	6240	6100	6250	5990	6120	6110	6140	6450	6710
MHC-V7W/D2N1	Power input /W	1450	2050	2390	1690	2310	2630	2310	2910	3250	1470	2570
	COP / EER	4.52	3.26	2.61	3.61	2.70	2.28	2.65	2.10	1.89	4.40	2.61
	Capacity /W	8640	9190	9350	6840	7090	7440	6220	5890	6270	8350	8060
MHC-V9W/D2N1	Power input /W	2010	2630	3280	2210	2710	2700	2420	2830	3390	2100	3510
	COP / EER	4.30	3.49	2.85	3.10	2.62	2.76	2.57	2.08	1.85	3.97	2.30
	Capacity /W	10430	10170	8890	9610	9070	11010	8880	8700	8620	10250	10440
MHC-V10W/D2N1	Power input /W	2280	3080	3380	2740	3400	4830	3130	3880	4910	2060	3280
	COP / EER	4.57	3.30	2.63	3.51	2.67	2.28	2.84	2.24	1.76	4.98	3.18
	Capacity /W	12170	12580	10550	11150	10550	12350	9720	9170	10130	12190	12210
MHC-V12W/D2N1	Power input /W	2730	3860	3840	3130	3950	5000	3610	4330	5640	2650	4170
	COP / EER	4.46	3.26	2.75	3.56	2.67	2.47	2.69	2.12	1.80	4.60	2.93
	Capacity /W	14760	14080	11640	12170	10880	12370	9870	9540	10600	14610	12950
MHC-V14W/D2N1	Power input /W	3400	4470	4380	3640	4260	5290	3820	4650	6100	3320	4530
	COP / EER	4.34	3.15	2.66	3.34	2.55	2.34	2.58	2.05	1.74	4.40	2.86
	Capacity /W	16330	16120	13430	13100	12520	13210	11340	10920	11300	14820	13720
MHC-V16W/D2N1	Power input /W	3900	5220	5220	4110	4740	5630	4100	5130	6300	3660	5160
	COP / EER	4.19	3.09	2.57	3.19	2.64	2.35	2.77	2.13	1.79	4.05	2.66
	Capacity /W	12370	12020	12510	11580	12460	12180	11690	11650	10610	12640	12580
MHC-V12W/D2RN1	Power input /W	2760	3720	4430	3380	4390	5090	4270	5080	5710	2750	4320
	COP / EER	4.48	3.23	2.82	3.43	2.84	2.39	2.74	2.29	1.86	4.60	2.91
	Capacity /W	14100	14110	14410	12740	12160	11800	11880	10950	10910	14030	13800
MHC-V14W/D2RN1	Power input /W	3260	4460	5160	3780	4610	5280	4390	5080	5920	3260	5140
	COP / EER	4.33	3.16	2.79	3.37	2.64	2.24	2.71	2.16	1.84	4.30	2.68
	Capacity /W	16300	16060	16150	14190	14080	12170	12140	11810	10640	15100	15260
MHC-V16W/D2RN1	Power input /W	3880	5230	5860	4420	5350	5500	4430	5350	6160	3780	6410
	COP / EER	4.20	3.07	2.76	3.21	2.63	2.21	2.74	2.21	1.73	4.00	2.38

^{*}a-With the water flow rate as determined during the "7/6 47-55" test.

说明书更改说明,此页不做菲林 尺寸规格: A4,黑白印刷,双胶纸