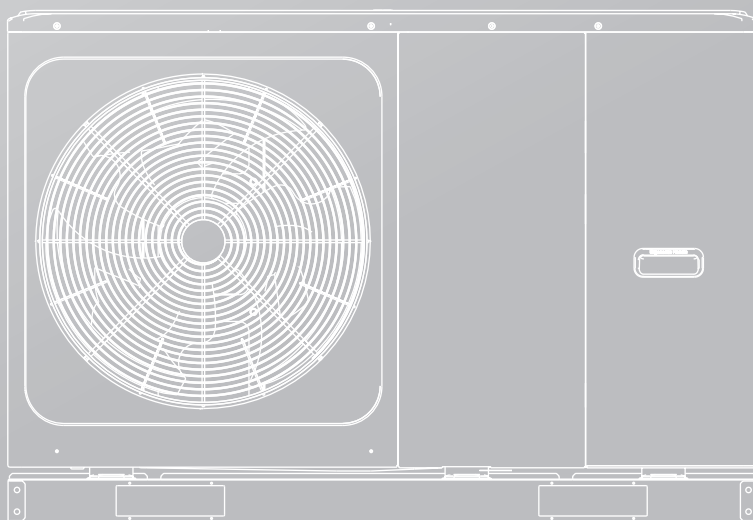


TECHNICAL DATA MANUAL HYUNDAI

M-thermal Mono ATW Heat Pump



IMPORTANT NOTE:



Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.

Model	For medium - temperature application										
	Energy efficiency class	Unit sound power	average climate			colder climate			warmer climate		
			Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption
	-	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
HYHC-V4W/D2N8-B	A++	55	4.4	129.5	2744	3.4	102.1	3159	5.0	162.4	1621
HYHC-V4W/D2N8-BE30	A++	55	4.4	129.5	2744	3.4	102.1	3159	5.0	162.4	1621
HYHC-V6W/D2N8-B	A++	58	5.7	137.9	3345	4.3	111.1	3681	5.1	164.7	1640
HYHC-V6W/D2N8-BE30	A++	58	5.7	137.9	3345	4.3	111.1	3681	5.1	164.7	1640
HYHC-V8W/D2N8-B	A++	59	6.6	131.5	4056	5.8	112.0	4950	7.6	175.8	2259
HYHC-V8W/D2N8-BE30	A++	59	6.6	131.5	4056	5.8	112.0	4950	7.6	175.8	2259
HYHC-V8W/D2N8-BER90	A++	59	6.6	131.5	4056	5.8	112.0	4950	7.6	175.8	2259
HYHC-V10W/D2N8-B	A++	60	7.7	135.6	4539	6.7	116.4	5540	8.6	180.3	2516
HYHC-V10W/D2N8-BE30	A++	60	7.7	135.6	4539	6.7	116.4	5540	8.6	180.3	2516
HYHC-V10W/D2N8-BER90	A++	60	7.7	135.6	4539	6.7	116.4	5540	8.6	180.3	2516
HYHC-V12W/D2N8-B	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
HYHC-V12W/D2N8-BE30	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
HYHC-V12W/D2N8-BER90	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.0	3776
HYHC-V14W/D2N8-B	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088
HYHC-V14W/D2N8-BE30	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088
HYHC-V14W/D2N8-BER90	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088
HYHC-V16W/D2N8-B	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112
HYHC-V16W/D2N8-BE30	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112
HYHC-V16W/D2N8-BER90	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112
HYHC-V12W/D2RN8-B	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
HYHC-V12W/D2RN8-BE30	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
HYHC-V12W/D2RN8-BER90	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780
HYHC-V14W/D2RN8-B	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092
HYHC-V14W/D2RN8-BE30	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092
HYHC-V14W/D2RN8-BER90	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092
HYHC-V16W/D2RN8-B	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116
HYHC-V16W/D2RN8-BE30	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116
HYHC-V16W/D2RN8-BER90	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116

Unit type explanation:

1. HYHC-V**W/D2N8-B, without back-up heater,
2. HYHC-V**W/D2RN8-BE30, with 3kW back-up heater and 1-Phase Source
3. HYHC-V**W/D2RN8-BER90, with 9kW back-up heater and 3-Phase Source

Model	For low - temperature appl ication										
	Energy efficiency class	Unit sound power	average climate			colder climate			warmer climate		
			Rated heat output	Seasonal space heating energy efficiency	For space heating,annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating,annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating,annual energy consumption
	-	dB	kW	%	kWh	kW	%	kWh	kW	%	kWh
HYHC-V4W/D2N8-B	A+++	55	5. 5	191. 0	2351	4. 6	159. 5	2769	5. 5	255. 4	1146
HYHC-V4W/D2N8-BE30	A+++	55	5. 5	191. 0	2351	4. 6	159. 5	2769	5. 5	255. 4	1146
HYHC-V6W/D2N8-B	A+++	58	6. 8	195. 0	2845	5. 6	165. 3	3300	6. 1	259. 8	1244
HYHC-V6W/D2N8-BE30	A+++	58	6. 8	195. 0	2845	5. 6	165. 3	3300	6. 1	259. 8	1244
HYHC-V8W/D2N8-B	A+++	59	8. 1	205. 6	3218	7. 0	170. 0	3976	8. 1	276. 6	1551
HYHC-V8W/D2N8-BE30	A+++	59	8. 1	205. 6	3218	7. 0	170. 0	3976	8. 1	276. 6	1551
HYHC-V8W/D2N8-BER90	A+++	59	8. 1	205. 6	3218	7. 0	170. 0	3976	8. 1	276. 6	1551
HYHC-V10W/D2N8-B	A+++	60	9. 2	204. 8	3644	7. 7	169. 8	4423	8. 6	280. 5	1617
HYHC-V10W/D2N8-BE30	A+++	60	9. 2	204. 8	3644	7. 7	169. 8	4423	8. 6	280. 5	1617
HYHC-V10W/D2N8-BER90	A+++	60	9. 2	204. 8	3644	7. 7	169. 8	4423	8. 6	280. 5	1617
HYHC-V12W/D2N8-B	A+++	65	12. 0	189. 4	5152	11. 4	160. 2	6870	11. 1	256. 1	2292
HYHC-V12W/D2N8-BE30	A+++	65	12. 0	189. 4	5152	11. 4	160. 2	6870	11. 1	256. 1	2292
HYHC-V12W/D2N8-BER90	A+++	65	12. 0	189. 4	5152	11. 4	160. 2	6870	11. 1	256. 1	2292
HYHC-V14W/D2N8-B	A+++	65	13. 7	185. 7	6012	12. 6	159. 6	7667	12. 1	260. 3	2457
HYHC-V14W/D2N8-BE30	A+++	65	13. 7	185. 7	6012	12. 6	159. 6	7667	12. 1	260. 3	2457
HYHC-V14W/D2N8-BER90	A+++	65	13. 7	185. 7	6012	12. 6	159. 6	7667	12. 1	260. 3	2457
HYHC-V16W/D2N8-B	A+++	68	15. 2	181. 7	6804	13. 7	157. 8	8431	13. 1	248. 5	2781
HYHC-V16W/D2N8-BE30	A+++	68	15. 2	181. 7	6804	13. 7	157. 8	8431	13. 1	248. 5	2781
HYHC-V16W/D2N8-BER90	A+++	68	15. 2	181. 7	6804	13. 7	157. 8	8431	13. 1	248. 5	2781
HYHC-V12W/D2RN8-B	A+++	65	12. 0	189. 3	5153	11. 4	160. 2	6871	11. 1	255. 6	2296
HYHC-V12W/D2RN8-BE30	A+++	65	12. 0	189. 3	5153	11. 4	160. 2	6871	11. 1	255. 6	2296
HYHC-V12W/D2RN8-BER90	A+++	65	12. 0	189. 3	5153	11. 4	160. 2	6871	11. 1	255. 6	2296
HYHC-V14W/D2RN8-B	A+++	65	13. 7	185. 6	6013	12. 6	159. 6	7667	12. 1	259. 8	2462
HYHC-V14W/D2RN8-BE30	A+++	65	13. 7	185. 6	6013	12. 6	159. 6	7667	12. 1	259. 8	2462
HYHC-V14W/D2RN8-BER90	A+++	65	13. 7	185. 6	6013	12. 6	159. 6	7667	12. 1	259. 8	2462
HYHC-V16W/D2RN8-B	A+++	68	15. 2	181. 6	6805	13. 7	157. 8	8431	13. 1	248. 1	2786
HYHC-V16W/D2RN8-BE30	A+++	68	15. 2	181. 6	6805	13. 7	157. 8	8431	13. 1	248. 1	2786
HYHC-V16W/D2RN8-BER90	A+++	68	15. 2	181. 6	6805	13. 7	157. 8	8431	13. 1	248. 1	2786

Unit type explanation:

1. HYHC-V**W/D2N8-B, without back-up heater,
2. HYHC-V**W/D2RN8-BE30, with 3kW back-up heater and 1-Phase Source
3. HYHC-V**W/D2RN8-BER90, with 9kW back-up heater and 3-Phase Source

Product fiche 1

Heat pump space heater		Model	HYHC-4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
Unit sound power (*)	Average climate low temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
	Average climate medium temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
Capacity of the back-up heater integrated in the unit	Psup back-up heater (optional)	[kW]	0/3	0/3	0/3/9	0/3/9	0/3/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	5.5	6.8	8.1	9.2	12.0
	Seasonal space heating efficiency (ηs)	[%]	191.0	195.0	205.6	204.8	189.4
	Annual energy consumption	[kWh]	2,351	2,845	3,218	3644	5,152
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	4.4	5.7	6.6	7.7	11.6
	Seasonal space heating efficiency (ηs)	[%]	129.5	137.9	131.5	136.6	135.1
	Annual energy consumption	[kWh]	2,744	3,345	4,056	4,539	6,927
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.05	3.88	4.65	5.18	6.69
	COPd (declared COP)	-	4.78	4.85	5.09	5.01	4.65
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.93	2.39	2.90	3.32	4.44
	COPd (declared COP)	-	6.13	6.63	6.82	7.08	6.62
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.48	1.39	1.63	1.65	3.74
	COPd (declared COP)	-	8.05	7.93	8.35	8.58	8.47
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 1

Heat pump space heater		Model	HYHC-V14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-16W/D2RN8-B***
Unit sound power (*)	Average climate low temperature application	[dB]	65.0	68.0	65.0	65.0	68.0
	Average climate medium temperature application	[dB]	65.0	68.0	65.0	65.0	68.0
Capacity of the back-up heater integrated in the unit	Psup back-up heater (optional)	[kW]	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	13.7	15.2	12.0	13.7	15.2
	Seasonal space heating efficiency (η_s)	[%]	185.7	181.7	189.3	185.6	181.6
	Annual energy consumption	[kWh]	6,012	6,804	5,153	6,013	6,805
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	12.1	13.0	11.6	12.1	13.0
	Seasonal space heating efficiency (η_s)	[%]	135.6	133.3	135.1	135.6	133.2
	Annual energy consumption	[kWh]	7,202	7,895	6,928	7,203	7,896
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45
	COPd (declared COP)	-	2.79	2.72	2.88	2.79	2.72
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	7.94	8.56	6.69	7.94	8.56
	COPd (declared COP)	-	4.52	4.41	4.65	4.52	4.41
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	5.20	5.70	4.44	5.20	5.70
	COPd (declared COP)	-	6.68	6.56	6.62	6.68	6.56
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	3.75	3.78	3.74	3.75	3.78
	COPd (declared COP)	-	8.52	8.51	8.47	8.52	8.51
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 2

Heat pump space heater		Model	HYHC-V4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	4.41	5.36	6.44	7.40	10.74
	COPd (declared COP)	-	2.86	2.76	3.04	2.96	2.77
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.11	1.45	1.68	1.76	1.26
Part load conditions space heating average climate medium temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.38	3.12	3.75	4.28	6.52
	COPd (declared COP)	-	3.30	3.51	3.30	3.42	3.44
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.94	2.08	2.42	2.77	4.36
	COPd (declared COP)	-	4.41	4.54	4.34	4.52	4.59
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.32	1.28	1.39	1.58	3.29
	COPd (declared COP)	-	5.66	5.59	5.33	5.68	6.05
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	3.42	4.52	4.90	5.38	9.10
	COPd (declared COP)	-	1.91	1.91	1.84	1.83	1.79
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01

Product fiche 2

Heat pump space heater		Model	HYHC-V14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-V16W/D2RN8-B***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	P _{dh} (declared heating capacity)	[kW]	11.47	12.52	10.74	11.47	12.52
	COP _d (declared COP)	-	2.59	2.48	2.77	2.59	2.48
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	T _{biv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	P _{dh} (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45
	COP _d (declared COP)	-	2.79	2.72	2.88	2.79	2.72
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -10°C)	[kW]	2.23	2.68	1.26	2.23	2.68
Part load conditions space heating average climate medium temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.24	10.68	11.52
	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	6.86	7.18	6.52	6.86	7.18
	COP _d (declared COP)	-	3.43	3.34	3.44	3.43	3.34
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	4.63	4.67	4.36	4.63	4.67
	COP _d (declared COP)	-	4.66	4.61	4.59	4.66	4.61
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.31	3.31	3.29	3.31	3.31
	COP _d (declared COP)	-	6.13	6.07	6.05	6.13	6.07
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	P _{dh} (declared heating capacity)	[kW]	9.19	10.33	9.10	9.19	10.33
	COP _d (declared COP)	-	1.76	1.80	1.79	1.76	1.80
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	T _{biv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.24	10.68	11.52
	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -10°C)	[kW]	2.91	2.67	2.50	2.91	2.67

Product fiche 3

Heat pump space heater		Model	HYHC-V4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
Supplementary capacity at P_design	P _{sup} (@T _{designh} : -10°C)	[kW]	0.98	1.18	1.69	2.28	2.50
Colder climate (Design temperature = -22°C)							
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	4.6	5.6	7.0	7.7	11.4
	Seasonal space heating efficiency (η _s)	[%]	159.5	165.3	170.0	169.8	160.2
	Annual energy consumption	[kWh]	2,769	3,300	3,976	4,423	6,870
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	3.4	4.3	5.8	6.7	10.3
	Seasonal space heating efficiency (η _s)	[%]	102.1	111.1	112.1	116.4	117.8
	Annual energy consumption	[kWh]	3,159	3,681	4,950	5,540	8,419
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	2.75	3.42	4.46	4.83	7.05
	COP _d (declared COP)	-	3.49	3.59	3.66	3.60	3.48
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	1.77	2.06	2.69	2.94	4.67
	COP _d (declared COP)	-	4.95	5.21	5.20	5.26	4.96
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	1.17	1.46	1.65	1.92	3.14
	COP _d (declared COP)	-	5.53	6.24	6.53	7.08	6.10
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	1.43	1.44	1.65	1.65	3.57
	COP _d (declared COP)	-	7.67	7.66	7.96	7.96	7.87
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _{dh} (declared heating capacity)	[kW]	2.80	3.48	4.06	4.62	7.01
	COP _d (declared COP)	-	1.97	1.96	1.95	1.97	1.98
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) T _{bivalent} temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _{dh} (declared heating capacity)	[kW]	3.72	4.59	5.69	6.32	9.28
	COP _d (declared COP)	-	2.57	2.53	2.83	2.64	2.59
Supplementary capacity at P_design	P _{sup} (@T _{designh} : -22°C)	[kW]	1.76	2.15	2.91	3.08	4.40

Product fiche 3

Heat pump space heater		Model	HYHC-14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-V16W/D2RN8-B***
Colder climate (Design temperature = -22°C)							
Space heating 35°C	Prated (declared heating capacity) @ -22°C	[kW]	12.6	13.7	11.4	12.6	13.7
	Seasonal space heating efficiency (η_s)	[%]	159.6	157.8	160.2	159.6	157.8
	Annual energy consumption	[kWh]	7,667	8,431	6,871	7,667	8,431
Space heating 55°C	Prated (declared heating capacity) @ -22°C	[kW]	11.0	11.8	10.3	11.0	11.8
	Seasonal space heating efficiency (η_s)	[%]	118.9	121.8	117.7	118.9	121.8
	Annual energy consumption	[kWh]	8,866	9,309	8,420	8,867	9,310
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	7.96	8.31	7.05	7.96	8.31
	COP _d (declared COP)	-	3.44	3.37	3.48	3.44	3.37
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	5.05	5.26	4.67	5.05	5.26
	COP _d (declared COP)	-	4.92	4.86	4.96	4.92	4.86
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	3.15	3.62	3.14	3.15	3.62
	COP _d (declared COP)	-	6.11	6.49	6.10	6.11	6.49
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.57	3.34	3.57	3.57	3.34
	COP _d (declared COP)	-	7.82	7.40	7.87	7.82	7.40
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _{dh} (declared heating capacity)	[kW]	7.57	8.88	7.01	7.57	8.88
	COP _d (declared COP)	-	1.92	1.97	1.98	1.92	1.97
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tbivalent temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _{dh} (declared heating capacity)	[kW]	10.31	11.22	9.28	10.31	11.22
	COP _d (declared COP)	-	2.53	2.43	2.59	2.53	2.43
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -22°C)	[kW]	5.03	4.82	4.40	5.03	4.82

Product fiche 4

Heat pump space heater		Model	HYHC-V4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
Part load conditions space heating colder climate medium temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	2.13	2.70	3.86	4.27	6.63
	COPd (declared COP)	-	2.32	2.46	2.48	2.54	2.63
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	1.28	1.60	2.21	2.57	4.06
	COPd (declared COP)	-	2.99	3.36	3.35	3.51	3.60
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.01	1.02	1.44	1.65	2.78
	COPd (declared COP)	-	3.86	3.94	4.11	4.37	4.54
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.36	1.37	1.46	1.47	3.33
	COPd (declared COP)	-	6.28	6.35	5.92	5.96	6.25
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	Pdh (declared heating capacity)	[kW]	1.64	2.09	2.80	2.80	4.19
	COPd (declared COP)	-	1.02	1.13	1.22	1.22	1.13
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
(F) Tbivalent temperature	Tblv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	2.74	3.47	4.71	5.47	8.41
	COPd (declared COP)	-	1.74	1.86	1.90	2.00	1.84
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	1.72	2.17	2.97	3.91	6.12
Warmer climate (Design temperature = 2°C)							
Space heating 35°C	Prated (declared heating capacity) @ 2°C	[kW]	5.5	6.1	8.1	8.6	11.1
	Seasonal space heating efficiency (ηs)	[%]	255.4	259.8	276.6	280.5	256.1
	Annual energy consumption	[kWh]	1,146	1,244	1,551	1,617	2,292
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]	5.0	5.1	7.6	8.6	12.5
	Seasonal space heating efficiency (ηs)	[%]	162.4	164.7	175.8	180.3	174.0
	Annual energy consumption	[kWh]	1,621	1,640	2,259	2,516	3,776

Product fiche 4

Heat pump space heater			Model	HYHC-V14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-V16W/D2RN8-B***
Part load conditions space heating colder climate medium temperature application								
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	6.89	7.64	6.63	6.89	7.64	
	COP _d (declared COP)	-	2.66	2.65	2.63	2.66	2.65	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	4.32	4.42	4.06	4.32	4.42	
	COP _d (declared COP)	-	3.66	3.79	3.60	3.66	3.79	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	3.06	2.97	2.78	3.06	2.97	
	COP _d (declared COP)	-	4.72	4.81	4.54	4.72	4.81	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.33	3.43	3.33	3.33	3.43	
	COP _d (declared COP)	-	6.25	6.29	6.25	6.25	6.29	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00	
	P _{dh} (declared heating capacity)	[kW]	4.20	5.21	4.19	4.20	5.21	
	COP _d (declared COP)	-	1.13	1.23	1.13	1.13	1.23	
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00	
(F) Tbivalent temperature	T _{blv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	
	P _{dh} (declared heating capacity)	[kW]	8.94	9.61	8.41	8.94	9.61	
	COP _d (declared COP)	-	1.79	1.86	1.84	1.79	1.86	
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : -22°C)	[kW]	6.76	6.59	6.12	6.76	6.59	
Warmer climate (Design temperature = 2°C)								
Space heating 35°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	12.1	13.1	11.1	12.1	13.1	
	Seasonal space heating efficiency (η _s)	[%]	260.3	248.5	255.6	259.8	248.1	
	Annual energy consumption	[kWh]	2,457	2,781	2,296	2,462	2,786	
Space heating 55°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	13.7	13.8	12.5	13.7	13.8	
	Seasonal space heating efficiency (η _s)	[%]	176.5	176.1	173.8	176.4	175.9	
	Annual energy consumption	[kWh]	4,088	4,112	3,780	4,092	4,116	

Product fiche 5

Heat pump space heater		Model	HYHC-V4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
Part load conditions space heating warmer climate low temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.63	1.79	2.62	2.62	3.55
	COPd (declared COP)	-	7.91	8.20	9.23	9.04	7.94
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tbivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.18	0.55	0.14	0.00
Part load conditions space heating warmer climate medium temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.51	2.48	2.59	2.59	2.31
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.22	3.31	4.86	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	3.92	4.10	3.86
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.47	1.60	2.31	2.53	3.75
	COPd (declared COP)	-	5.15	5.29	5.55	5.82	5.70
	Cdh(declgradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 5

Heat pump space heater			Model	HYHC-V14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-V16W/D2RN8-B***
Part load conditions space heating warmer climate low temperature application								
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04	13.10	
	COP _d (declared COP)	-	3.44	3.35	3.59	3.44	3.35	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78	8.41	
	COP _d (declared COP)	-	5.84	5.36	5.87	5.84	5.36	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	3.75	3.87	3.55	3.75	3.87	
	COP _d (declared COP)	-	8.25	8.11	7.94	8.25	8.11	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(E) Tol (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00	
	P _{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04	13.10	
	COP _d (declared COP)	-	3.44	3.35	3.59	3.44	3.35	
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00	
(F) T _{bivalent} temperature	T _{blv}	[°C]	7.00	7.00	7.00	7.00	7.00	
	P _{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78	8.41	
	COP _d (declared COP)	-	5.84	5.36	5.87	5.84	5.36	
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : 2°C)	[kW]	0.00	0.00	0.00	0.00	0.00	
Part load conditions space heating warmer climate medium temperature application								
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04	13.38	
	COP _d (declared COP)	-	2.20	2.29	2.31	2.20	2.29	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	8.83	8.86	8.04	8.83	8.86	
	COP _d (declared COP)	-	3.91	3.84	3.86	3.91	3.84	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	4.08	4.06	3.75	4.08	4.06	
	COP _d (declared COP)	-	5.90	5.86	5.70	5.90	5.86	
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	

Product fiche 6

Heat pump space heater		Model	HYHC-V4W/D2N8-B***	HYHC-V6W/D2N8-B***	HYHC-V8W/D2N8-B***	HYHC-V10W/D2N8-B***	HYHC-V12W/D2N8-B***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.51	2.48	2.59	2.59	2.31
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tbivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.22	3.31	4.86	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	3.92	4.10	3.86
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.12	0.00	0.48	0.43
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
Air to water unit	Rated airflow	[m³/h]	2770	2770	4030	4030	4060
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.024
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	PCK (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/

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.

Product fiche 6

Heat pump space heater		Model	HYHC-V14W/D2N8-B***	HYHC-V16W/D2N8-B***	HYHC-V12W/D2RN8-B***	HYHC-V14W/D2RN8-B***	HYHC-V16W/D2RN8-B***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	P _{dh} (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04	13.38
	COP _d (declared COP)	-	2.20	2.29	2.31	2.20	2.29
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) T _{bivalent} temperature	T _{blv}	[°C]	7.00	7.00	7.00	7.00	7.00
	P _{dh} (declared heating capacity)	[kW]	8.83	8.86	8.04	8.83	8.86
	COP _d (declared COP)	-	3.91	3.84	3.86	3.91	3.84
Supplementary capacity at P _{design}	P _{sup} (@T _{designh} : 2°C)	[kW]	0.66	0.42	0.43	0.66	0.42
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
Air to water unit	Rated airflow	[m³/h]	4060	4650	4060	4060	4650
Brine/water to water unit	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.02	0.02	0.02
	P _{to} (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.030	0.030	0.030
	P _{sb} (Power consumption Standby mode)	[kW]	0.014	0.014	0.02	0.02	0.02
	P _{CK} (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000
	Q _{elec} (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Q _{fuel} (Daily fuel consumption)	[kWh]	/	/	/	/	/

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.

Technical parameters													
Model(s):				HYHC-V4W/D2N8-B									
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:				NO									
Heat pump combination heater:				NO									
Declared climate condition:				AVERAGE									
Parameters are declared for medium-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				Prated	4.4	kW	Seasonal space heating energy efficiency				η_s	129.5	%
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	3.89	kW	Tj = -7°C				COPd	2.17	-
Tj = 2°C				Pdh	2.38	kW	Tj = 2°C				COPd	3.30	-
Tj = 7°C				Pdh	2.94	kW	Tj = 7°C				COPd	4.41	-
Tj = 12°C				Pdh	1.32	kW	Tj = 12°C				COPd	5.66	-
Tj = bivalent temperature				Pdh	3.89	kW	Tj = bivalent temperature				COPd	2.17	-
Tj = operating limit				Pdh	3.42	kW	Tj = operating limit				COPd	1.91	-
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				Pcyc	-	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 active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	0.98	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	2770	m³/h
Sound power level, indoors/outdoors				LWA	-55	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	2744	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
Contact details				Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea									
(*) 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.													

Technical parameters													
Model(s):				HYHC-V4W/D2N8-B									
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:				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	3.4	kW	Seasonal space heating energy efficiency				η_s	102.1	%
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	2.13	kW	Tj = -7°C				COPd	2.32	-
Tj = 2°C				Pdh	1.28	kW	Tj = 2°C				COPd	2.99	-
Tj = 7°C				Pdh	1.01	kW	Tj = 7°C				COPd	3.86	-
Tj = 12°C				Pdh	1.36	kW	Tj = 12°C				COPd	6.28	-
Tj = bivalent temperature				Pdh	2.74	kW	Tj = bivalent temperature				COPd	1.74	-
Tj = operating limit				Pdh	1.64	kW	Tj = operating limit				COPd	1.02	-
For air-to-water heat pumps: Tj = -15°C				Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C				COPd	-	-
Bivalent temperature				Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-22	°C
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	1.72	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	2770	m³/h			
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h		
Annual energy consumption				QHE	3159	kWh							
For heat pump combination heater:													
Declared load profile				-		Water heating energy efficiency		η_{wh}	-	%			
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh		
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption		AFC	-	GJ		
Contact details				Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea									
(*) 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.													

Technical parameters													
Model(s):				HYHC-V4W/D2N8-B									
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:				NO									
Heat pump combination heater:				NO									
Declared climate condition:				WARMER									
Parameters are declared for medium-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				Prated	5.0	kW	Seasonal space heating energy efficiency				η_s	162.4	%
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°C				COPd	-	-
Tj = 2°C				Pdh	4.83	kW	Tj = 2°C				COPd	2.51	-
Tj = 7°C				Pdh	3.22	kW	Tj = 7°C				COPd	3.68	-
Tj = 12°C				Pdh	1.47	kW	Tj = 12°C				COPd	5.15	-
Tj = bivalent temperature				Pdh	3.22	kW	Tj = bivalent temperature				COPd	3.68	-
Tj = operating limit				Pdh	4.83	kW	Tj = operating limit				COPd	2.51	-
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				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	62	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	0.18	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	2770	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	1621	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fu5.1el consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
Contact details				Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea									
(*) 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.													

Technical parameters							
Model(s):	HYHC-V6W/D2N8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.7	kW	Seasonal space heating energy efficiency	η_s	137.9	%
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	5.04	kW	Tj = -7°C	COPd	2.17	-
Tj = 2°C	Pdh	3.12	kW	Tj = 2°C	COPd	3.51	-
Tj = 7°C	Pdh	2.08	kW	Tj = 7°C	COPd	4.54	-
Tj = 12°C	Pdh	1.28	kW	Tj = 12°C	COPd	5.59	-
Tj = bivalent temperature	Pdh	5.04	kW	Tj = bivalent temperature	COPd	2.17	-
Tj = operating limit	Pdh	4.52	kW	Tj = operating limit	COPd	1.91	-
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	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.18	kW
Standby mode	P _{sb}	0.014	kW				
Thermostat-off mode	P _{to}	0.024	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h
Sound power level, indoors/outdoors	LWA	-58	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	3345	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) 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.							

Technical parameters

Model(s):				HYHC-V6W/D2N8-B					
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:				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	4.3	kW	Seasonal space heating energy efficiency		η_s	111.1	%
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	2.70	kW	Tj = -7 °C		COPd	2.46	-
Tj = 2 °C		Pdh	1.60	kW	Tj = 2 °C		COPd	3.36	-
Tj = 7 °C		Pdh	1.02	kW	Tj = 7 °C		COPd	3.94	-
Tj = 12 °C		Pdh	1.37	kW	Tj = 12 °C		COPd	6.35	-
Tj = bivalent temperature		Pdh	3.47	kW	Tj = bivalent temperature		COPd	1.86	-
Tj = operating limit		Pdh	2.09	kW	Tj = operating limit		COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C		COPd	-	-
Bivalent temperature		Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature		TOL	-22	°C
Cycling interval capacity for heating		Pcych	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.9	--	Heating water operating limit temperature		WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.014	kW	Rated heat output (**)		Psup	5.10	kW
Standby mode		Psb	0.014	kW	Type of energy input		Electrical		
Thermostat-off mode		Pto	0.024	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	2770	m³/h	
Sound power level, indoors/outdoors		LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	3681	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency		η_{wh}	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).									
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.									

Technical parameters															
Model(s):				HYHC-V6W/D2N8-B											
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:				NO											
Heat pump combination heater:				NO											
Declared climate condition:				WARMER											
Parameters are declared for medium-temperature application.															
Item				Symbol		Value		Unit							
Rated heat output (*)				Prated		5.1		kW							
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°C		COPd		-		-	
Tj = 2°C		Pdh		5.02		kW		Tj = 2°C		COPd		2.48		-	
Tj = 7°C		Pdh		3.31		kW		Tj = 7°C		COPd		3.67		-	
Tj = 12°C		Pdh		1.60		kW		Tj = 12°C		COPd		5.29		-	
Tj = bivalent temperature		Pdh		3.31		kW		Tj = bivalent temperature		COPd		3.67		-	
Tj = operating limit		Pdh		5.02		kW		Tj = operating limit		COPd		2.48		-	
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		Pcyc		-		kW		Cycling interval efficiency		COPcyc		-		-	
Degradation co-efficient (**)		Cdh		0.9		--		Heating water operating limit temperature		WTOL		62		°C	
Power consumption in modes other than active mode				Supplementary heater											
Off mode		Poff		0.014		kW		Rated heat output (**)		Psup		0		kW	
Standby mode		Psb		0.014		kW		Type of energy input		Electrical					
Thermostat-off mode		Pto		0.024		kW									
Crankcase heater mode		Pck		0.000		kW									
Other items															
Capacity control		variable						For air-to-water heat pumps: Rated air flow rate, outdoors		-		2770		m³/h	
Sound power level, indoors/outdoors		LWA		-		dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-		-		m³/h	
Annual energy consumption		QHE		1640		kWh									
For heat pump combination heater:															
Declared load profile		-						Water heating energy efficiency		ηwh		-		%	
Daily electricity consumption		Qelec		-		kWh		Daily fuel consumption		Qfuel		-		kWh	
Annual electricity consumption		AEC		-		kWh		Annual fuel consumption		AFC		-		GJ	
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea													
(*) 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.															

Technical parameters													
Model(s):				HYHC-V8W/D2N8-B									
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:				NO									
Heat pump combination heater:				NO									
Declared climate condition:				AVERAGE									
Parameters are declared for medium-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				Prated	6.6	kW	Seasonal space heating energy efficiency				η_s	131.5	%
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	5.84	kW	Tj = -7°C				COPd	2.16	-
Tj = 2°C				Pdh	3.75	kW	Tj = 2°C				COPd	3.30	-
Tj = 7°C				Pdh	2.42	kW	Tj = 7°C				COPd	4.34	-
Tj = 12°C				Pdh	1.39	kW	Tj = 12°C				COPd	5.33	-
Tj = bivalent temperature				Pdh	5.84	kW	Tj = bivalent temperature				COPd	2.16	-
Tj = operating limit				Pdh	4.90	kW	Tj = operating limit				COPd	1.84	-
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				Pcyc	-	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 active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	1.69	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4030	m³/h
Sound power level, indoors/outdoors				LWA	-59	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	4056	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
Contact details				Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea									
(*) 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.													

Technical parameters													
Model(s):				HYHC-V8W/D2N8-B									
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:				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	5.8	kW	Seasonal space heating energy efficiency				η_s	112.0	%
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	3.86	kW	Tj = -7°C				COPd	2.48	-
Tj = 2°C				Pdh	2.21	kW	Tj = 2°C				COPd	3.35	-
Tj = 7°C				Pdh	1.44	kW	Tj = 7°C				COPd	4.11	-
Tj = 12°C				Pdh	1.46	kW	Tj = 12°C				COPd	5.92	-
Tj = bivalent temperature				Pdh	4.71	kW	Tj = bivalent temperature				COPd	1.90	-
Tj = operating limit				Pdh	2.80	kW	Tj = operating limit				COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C				Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C				COPd	-	-
Bivalent temperature				Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-22	°C
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	2.97	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4030	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	4950	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).													
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.													

Technical parameters

Model(s):	HYHC-V8W/D2N8-B
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:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.6	kW	Seasonal space heating energy efficiency	η_s	175.8	%
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 °C	COPd	-	-
Tj = 2 °C	Pdh	7.55	kW	Tj = 2 °C	COPd	2.59	-
Tj = 7 °C	Pdh	4.86	kW	Tj = 7 °C	COPd	3.92	-
Tj = 12 °C	Pdh	2.31	kW	Tj = 12 °C	COPd	5.55	-
Tj = bivalent temperature	Pdh	4.86	kW	Tj = bivalent temperature	COPd	3.92	-
Tj = operating limit	Pdh	7.55	kW	Tj = operating limit	COPd	2.59	-
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	Pcyc	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	2259	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details

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

Technical parameters							
Model(s):	HYHC-V10W/D2N8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	η_s	136.6	%
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	6.78	kW	Tj = -7°C	COPd	2.24	-
Tj = 2°C	Pdh	4.28	kW	Tj = 2°C	COPd	3.42	-
Tj = 7°C	Pdh	2.77	kW	Tj = 7°C	COPd	4.52	-
Tj = 12°C	Pdh	1.58	kW	Tj = 12°C	COPd	5.68	-
Tj = bivalent temperature	Pdh	6.78	kW	Tj = bivalent temperature	COPd	2.24	-
Tj = operating limit	Pdh	5.38	kW	Tj = operating limit	COPd	1.83	-
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	Pcyc	-	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 active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.29	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	LWA	-60	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	4539	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters

Model(s):	HYHC-V10W/D2N8-B
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:	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	6.7	kW	Seasonal space heating energy efficiency	η_s	116.4	%			
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	4.27	kW	Tj = -7°C	COPd	2.54	-			
Tj = 2°C	Pdh	2.57	kW	Tj = 2°C	COPd	3.51	-			
Tj = 7°C	Pdh	1.65	kW	Tj = 7°C	COPd	4.37	-			
Tj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.96	-			
Tj = bivalent temperature	Pdh	5.47	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22	-			
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-			
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C			
Cycling interval capacity for heating	P _{cyh}	-	kW	Cycling interval efficiency	COP _{cyh}	-	-			
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	Poff	0.014	kW	Rated heat output (**)	P _{sup}	3.91	kW			
Standby mode	P _{sb}	0.014	kW							
Thermostat-off mode	P _{to}	0.024	kW	Type of energy input						
Crankcase heater mode	P _{ck}	0.000	kW							
Other items										
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h			
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h			
Annual energy consumption	Q _{HE}	5540	kWh							
For heat pump combination heater:										
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%			
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh			
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ			
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

Technical parameters

Model(s):	HYHC-V10W/D2N8-B
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:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	η_s	180.3	%
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 °C	COPd	-	-
Tj = 2 °C	Pdh	8.06	kW	Tj = 2 °C	COPd	2.59	-
Tj = 7 °C	Pdh	5.54	kW	Tj = 7 °C	COPd	4.10	-
Tj = 12 °C	Pdh	2.53	kW	Tj = 12 °C	COPd	5.82	-
Tj = bivalent temperature	Pdh	5.54	kW	Tj = bivalent temperature	COPd	4.10	-
Tj = operating limit	Pdh	8.15	kW	Tj = operating limit	COPd	2.61	-
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	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.48	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	2516	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

Technical parameters							
Model(s):	HYHC-V12W/D2N8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_s	135.1	%
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	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	kW	Tj = operating limit	COPd	1.79	-
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	Pcyc	-	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 active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.23	kW
Standby mode	Psb	0.014	kW				
Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	6927	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters													
Model(s):				HYHC-V12W/D2N8-B									
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:				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	10.3	kW	Seasonal space heating energy efficiency				η_s	117.8	%
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	6.63	kW	Tj = -7°C				COPd	2.63	-
Tj = 2°C				Pdh	4.06	kW	Tj = 2°C				COPd	3.60	-
Tj = 7°C				Pdh	2.78	kW	Tj = 7°C				COPd	4.54	-
Tj = 12°C				Pdh	3.33	kW	Tj = 12°C				COPd	6.25	-
Tj = bivalent temperature				Pdh	8.41	kW	Tj = bivalent temperature				COPd	1.84	-
Tj = operating limit				Pdh	4.19	kW	Tj = operating limit				COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C				Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C				COPd	-	-
Bivalent temperature				Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-22	°C
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	6.11	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4060	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	8419	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).													
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.													

Technical parameters								
Model(s):	HYHC-V12W/D2N8-B							
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:	NO							
Heat pump combination heater:	NO							
Declared climate condition:	WARMER							
Parameters are declared for medium-temperature application.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	174.0	%	
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°C	COPd	-	-	
Tj = 2°C	Pdh	12.07	kW	Tj = 2°C	COPd	2.31	-	
Tj = 7°C	Pdh	8.04	kW	Tj = 7°C	COPd	3.86	-	
Tj = 12°C	Pdh	3.75	kW	Tj = 12°C	COPd	5.70	-	
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-	
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-	
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.43	kW	
Standby mode	Psb	0.014	kW					
Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical			
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h	
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
Annual energy consumption	QHE	3776	kWh					
For heat pump combination heater:								
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%	
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								

Technical parameters									
Model(s):		HYHC-V14W/D2N8-B							
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:		NO							
Heat pump combination heater:		NO							
Declared climate condition:		AVERAGE							
Parameters are declared for medium-temperature application.									
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated heat output (*)		Prated	12.08	kW	Seasonal space heating energy efficiency		η_s	135.6	%
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	10.68	kW	Tj = -7°C		COPd	2.01	-
Tj = 2°C		Pdh	6.86	kW	Tj = 2°C		COPd	3.43	-
Tj = 7°C		Pdh	4.63	kW	Tj = 7°C		COPd	4.66	-
Tj = 12°C		Pdh	3.31	kW	Tj = 12°C		COPd	6.13	-
Tj = bivalent temperature		Pdh	10.68	kW	Tj = bivalent temperature		COPd	2.01	-
Tj = operating limit		Pdh	9.19	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		Pcyc	-	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 active mode				Supplementary heater					
Off mode		Poff	0.014	kW	Rated heat output (**)		Psup	1.40	kW
Standby mode		Psb	0.014	kW	Type of energy input		Electrical		
Thermostat-off mode		Pto	0.024	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	4060	m³/h	
Sound power level, indoors/outdoors		LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	7202	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency		η_{wh}	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea							
(*) 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.									

Technical parameters							
Model(s):	HYHC-V14W/D2N8-B						
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:	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	11.0	kW	Seasonal space heating energy efficiency	η_s	118.9	%
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	6.89	kW	Tj = -7°C	COPd	2.66	-
Tj = 2°C	Pdh	4.32	kW	Tj = 2°C	COPd	3.66	-
Tj = 7°C	Pdh	3.06	kW	Tj = 7°C	COPd	4.72	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.80	kW
Standby mode	Psb	0.014	kW				
Thermostat-off mode	Pto	0.024	kW	Type of energy input Electrical			
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	8866	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters							
Model(s):	HYHC-V14W/D2N8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	η_s	176.5	%
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°C	COPd	-	-
Tj = 2°C	Pdh	13.04	kW	Tj = 2°C	COPd	2.20	-
Tj = 7°C	Pdh	8.83	kW	Tj = 7°C	COPd	3.91	-
Tj = 12°C	Pdh	4.08	kW	Tj = 12°C	COPd	5.90	-
Tj = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
Tj = operating limit	Pdh	13.04	kW	Tj = operating limit	COPd	2.20	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.66	kW
Standby mode	Psb	0.014	kW				
Thermostat-off mode	Pto	0.024	kW	Type of energy input Electrical			
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	4088	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters									
Model(s):		MHYHC-V16W/D2N8-B							
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:		NO							
Heat pump combination heater:		NO							
Declared climate condition:		AVERAGE							
Parameters are declared for medium-temperature application.									
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated heat output (*)		Prated	13.0	kW	Seasonal space heating energy efficiency		η_s	133.3	%
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	11.52	kW	Tj = -7°C		COPd	1.99	-
Tj = 2°C		Pdh	7.18	kW	Tj = 2°C		COPd	3.34	-
Tj = 7°C		Pdh	4.67	kW	Tj = 7°C		COPd	4.61	-
Tj = 12°C		Pdh	3.31	kW	Tj = 12°C		COPd	6.07	-
Tj = bivalent temperature		Pdh	11.52	kW	Tj = bivalent temperature		COPd	1.99	-
Tj = operating limit		Pdh	10.33	kW	Tj = operating limit		COPd	1.80	-
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		Pcyc	-	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 active mode				Supplementary heater					
Off mode		Poff	0.014	kW	Rated heat output (**)		Psup	2.68	kW
Standby mode		Psb	0.014	kW	Type of energy input		Electrical		
Thermostat-off mode		Pto	0.024	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	4650	m³/h	
Sound power level, indoors/outdoors		LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	7895	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency		η_{wh}	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).									
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.									

Technical parameters													
Model(s):				HYHC-V16W/D2N8-B									
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:				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	11.8	kW	Seasonal space heating energy efficiency				η_s	121.8	%
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	7.64	kW	Tj = -7°C				COPd	2.65	-
Tj = 2°C				Pdh	4.42	kW	Tj = 2°C				COPd	3.79	-
Tj = 7°C				Pdh	2.97	kW	Tj = 7°C				COPd	4.81	-
Tj = 12°C				Pdh	3.43	kW	Tj = 12°C				COPd	6.29	-
Tj = bivalent temperature				Pdh	9.61	kW	Tj = bivalent temperature				COPd	1.86	-
Tj = operating limit				Pdh	5.21	kW	Tj = operating limit				COPd	1.23	-
For air-to-water heat pumps: Tj = -15°C				Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C				COPd	-	-
Bivalent temperature				Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-22	°C
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	6.59	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4650	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	9309	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
Contact details										Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea			
(*) 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.													

Technical parameters																	
Model(s):				HYHC-V16W/D2N8-B													
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:				NO													
Heat pump combination heater:				NO													
Declared climate condition:				WARMER													
Parameters are declared for medium-temperature application.																	
Item				Symbol		Value		Unit									
Rated heat output (*)				Prated		13.8		kW									
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°C		COPd		-		-			
Tj = 2°C		Pdh		13.38		kW		Tj = 2°C		COPd		2.29		-			
Tj = 7°C		Pdh		8.86		kW		Tj = 7°C		COPd		3.84		-			
Tj = 12°C		Pdh		4.06		kW		Tj = 12°C		COPd		5.86		-			
Tj = bivalent temperature		Pdh		8.86		kW		Tj = bivalent temperature		COPd		3.84		-			
Tj = operating limit		Pdh		13.38		kW		Tj = operating limit		COPd		2.29		-			
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		Pcyc		-		kW		Cycling interval efficiency		COPcyc		-		-			
Degradation co-efficient (**)		Cdh		0.9		--		Heating water operating limit temperature		WTOL		62		°C			
Power consumption in modes other than active mode				Supplementary heater													
Off mode		Poff		0.014		kW		Rated heat output (**)		Psup		0.42		kW			
Standby mode		Psb		0.014		kW		Type of energy input		Electrical							
Thermostat-off mode		Pto		0.024		kW											
Crankcase heater mode		Pck		0.000		kW											
Other items																	
Capacity control		variable								For air-to-water heat pumps: Rated air flow rate, outdoors		-		4650		m³/h	
Sound power level, indoors/outdoors		LWA		-		dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-		-		m³/h			
Annual energy consumption		QHE		4112		kWh											
For heat pump combination heater:																	
Declared load profile		-								Water heating energy efficiency		ηwh		-		%	
Daily electricity consumption		Qelec		-		kWh		Daily fuel consumption		Qfuel		-		kWh			
Annual electricity consumption		AEC		-		kWh		Annual fuel consumption		AFC		-		GJ			
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).																	
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.																	

Technical parameters							
Model(s):	HYHC-V12W/D2RN8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_s	135.1	%
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	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	kW	Tj = operating limit	COPd	1.79	-
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	Pcyc	-	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 active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	1.23	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	6928	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters								
Model(s):		HYHC-V12W/D2RN8-B						
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:		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	10.3	kW		Seasonal space heating energy efficiency	η_s	117.7	%
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	6.63	kW		Tj = -7°C	COPd	2.63	-
Tj = 2°C	Pdh	4.06	kW		Tj = 2°C	COPd	3.60	-
Tj = 7°C	Pdh	2.78	kW		Tj = 7°C	COPd	4.54	-
Tj = 12°C	Pdh	3.33	kW		Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW		Tj = bivalent temperature	COPd	1.84	-
Tj = operating limit	Pdh	4.19	kW		Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW		For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW		Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--		Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode					Supplementary heater			
Off mode	Poff	0.020	kW		Rated heat output (**)	Psup	6.11	kW
Standby mode	Psb	0.020	kW					
Thermostat-off mode	Pto	0.030	kW		Type of energy input Electrical			
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control	variable				For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-	dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	8420	kWh					
For heat pump combination heater:								
Declared load profile	-				Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh		Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								

Technical parameters

Model(s):	HYHC-V12W/D2RN8-B
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:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	173.8	%
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 °C	COPd	-	-
Tj = 2 °C	Pdh	12.07	kW	Tj = 2 °C	COPd	2.31	-
Tj = 7 °C	Pdh	8.04	kW	Tj = 7 °C	COPd	3.86	-
Tj = 12 °C	Pdh	3.75	kW	Tj = 12 °C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.43	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	3780	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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

Technical parameters														
Model(s):				HYHC-V14W/D2RN8-B										
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:				NO										
Heat pump combination heater:				NO										
Declared climate condition:				AVERAGE										
Parameters are declared for medium-temperature application.														
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit	
Rated heat output (*)				Prated	12.08	kW	Seasonal space heating energy efficiency				η_s	135.6	%	
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	10.68	kW	Tj = -7°C				COPd	2.01	-	
Tj = 2°C				Pdh	6.86	kW	Tj = 2°C				COPd	3.43	-	
Tj = 7°C				Pdh	4.63	kW	Tj = 7°C				COPd	4.66	-	
Tj = 12°C				Pdh	3.31	kW	Tj = 12°C				COPd	6.13	-	
Tj = bivalent temperature				Pdh	10.68	kW	Tj = bivalent temperature				COPd	2.01	-	
Tj = operating limit				Pdh	9.19	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				Pcyc	-	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 active mode						Supplementary heater								
Off mode				Poff	0.020	kW	Rated heat output (**)				Psup	1.40	kW	
Standby mode				Psb	0.020	kW	Type of energy input				Electrical			
Thermostat-off mode				Pto	0.030	kW								
Crankcase heater mode				Pck	0.000	kW								
Other items														
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4060	m³/h	
Sound power level, indoors/outdoors				LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h	
Annual energy consumption				QHE	7203	kWh								
For heat pump combination heater:														
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%	
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh	
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ	
Contact details				Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea										
(*) 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.														

Technical parameters													
Model(s):				HYHC-V14W/D2RN8-B									
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:				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	11.0	kW	Seasonal space heating energy efficiency				η_s	118.9	%
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	6.89	kW	Tj = -7°C				COPd	2.66	-
Tj = 2°C				Pdh	4.32	kW	Tj = 2°C				COPd	3.66	-
Tj = 7°C				Pdh	3.06	kW	Tj = 7°C				COPd	4.72	-
Tj = 12°C				Pdh	3.33	kW	Tj = 12°C				COPd	6.25	-
Tj = bivalent temperature				Pdh	8.94	kW	Tj = bivalent temperature				COPd	1.79	-
Tj = operating limit				Pdh	4.20	kW	Tj = operating limit				COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C				Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C				COPd	-	-
Bivalent temperature				Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature				TOL	-22	°C
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	°C
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.020	kW	Rated heat output (**)				Psup	6.80	kW
Standby mode				Psb	0.020	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.030	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4060	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	8867	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	kWh
Annual electricity consumption				AEC	-	kWh	Annual fuel consumption				AFC	-	GJ
Contact details										Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea			
(*) 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.													

Technical parameters									
Model(s):		HYHC-V14W/D2RN8-B							
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:		NO							
Heat pump combination heater:		NO							
Declared climate condition:		WARMER							
Parameters are declared for medium-temperature application.									
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated heat output (*)		Prated	13.7	kW	Seasonal space heating energy efficiency		η_s	176.4	%
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°C		COPd	-	-
Tj = 2°C		Pdh	13.04	kW	Tj = 2°C		COPd	2.20	-
Tj = 7°C		Pdh	8.83	kW	Tj = 7°C		COPd	3.91	-
Tj = 12°C		Pdh	4.08	kW	Tj = 12°C		COPd	5.90	-
Tj = bivalent temperature		Pdh	8.83	kW	Tj = bivalent temperature		COPd	3.91	-
Tj = operating limit		Pdh	13.04	kW	Tj = operating limit		COPd	2.20	-
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		Pcyc	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.9	--	Heating water operating limit temperature		WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.020	kW	Rated heat output (**)		Psup	0.66	kW
Standby mode		Psb	0.020	kW	Type of energy input		Electrical		
Thermostat-off mode		Pto	0.030	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	4060	m³/h	
Sound power level, indoors/outdoors		LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	4092	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency		η_{wh}	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).									
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.									

Technical parameters							
Model(s):	HYHC-V16W/D2RN8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.2	%
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	11.52	kW	Tj = -7°C	COPd	1.99	-
Tj = 2°C	Pdh	7.18	kW	Tj = 2°C	COPd	3.34	-
Tj = 7°C	Pdh	4.67	kW	Tj = 7°C	COPd	4.61	-
Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.07	-
Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-
Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-
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	Pcyc	-	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 active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	2.67	kW
Standby mode	Psb	0.020	kW				
Thermostat-off mode	Pto	0.030	kW	Type of energy input Electrical			
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h
Sound power level, indoors/outdoors	LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	7896	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters															
Model(s):				HYHC-V16W/D2RN8-B											
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:				NO											
Heat pump combination heater:				NO											
Declared climate condition:				COLDER											
Parameters are declared for medium-temperature application.															
Item				Symbol		Value		Unit							
Rated heat output (*)				Prated		11.8		kW							
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		7.64		kW		Tj = -7°C		COPd		2.65		-	
Tj = 2°C		Pdh		4.42		kW		Tj = 2°C		COPd		3.79		-	
Tj = 7°C		Pdh		2.97		kW		Tj = 7°C		COPd		4.81		-	
Tj = 12°C		Pdh		3.43		kW		Tj = 12°C		COPd		6.29		-	
Tj = bivalent temperature		Pdh		9.61		kW		Tj = bivalent temperature		COPd		1.86		-	
Tj = operating limit		Pdh		5.21		kW		Tj = operating limit		COPd		1.23		-	
For air-to-water heat pumps: Tj = -15°C		Pdh		-		kW		For air-to-water heat pumps: Tj = -15°C		COPd		-		-	
Bivalent temperature		Tbiv		-15		°C		For air-to-water heat pumps: Operation limit temperature		TOL		-22		°C	
Cycling interval capacity for heating		Pcych		-		kW		Cycling interval efficiency		COPcyc		-		-	
Degradation co-efficient (**)		Cdh		0.9		--		Heating water operating limit temperature		WTOL		51		°C	
Power consumption in modes other than active mode				Supplementary heater											
Off mode		Poff		0.020		kW		Rated heat output (**)		Psup		6.59		kW	
Standby mode		Psb		0.020		kW		Type of energy input		Electrical					
Thermostat-off mode		Pto		0.030		kW									
Crankcase heater mode		Pck		0.000		kW									
Other items															
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-		4650		m³/h					
Sound power level, indoors/outdoors		LWA		-		dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-		-		m³/h	
Annual energy consumption		QHE		9310		kWh									
For heat pump combination heater:															
Declared load profile		-		Water heating energy efficiency		ηwh		-		%					
Daily electricity consumption		Qelec		-		kWh		Daily fuel consumption		Qfuel		-		kWh	
Annual electricity consumption		AEC		-		kWh		Annual fuel consumption		AFC		-		GJ	
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).															
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.															

Technical parameters							
Model(s):	HYHC-V16W/D2RN8-B						
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:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	WARMER						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	175.9	%
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°C	COPd	-	-
Tj = 2°C	Pdh	13.38	kW	Tj = 2°C	COPd	2.29	-
Tj = 7°C	Pdh	8.86	kW	Tj = 7°C	COPd	3.84	-
Tj = 12°C	Pdh	4.06	kW	Tj = 12°C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-
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	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.42	kW
Standby mode	Psb	0.014	kW				
Thermostat-off mode	Pto	0.029	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	4116	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements for comfort chillers

Model(s):				HYHC-V4W/D2N8-B					
Outdoor side heat exchanger of chiller:				Air to water					
Indoor side heat exchanger chiller:				Water					
Type:				Compressor driven vapour compression					
Driver of compressor:				Electric motor					
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated cooling capacity		P _{rated,c}	4.7	kW	Seasonal space cooling energy efficiency		η _{s,c}	196.5	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j				
T _j =+35°C		P _{dc}	4.66	kW	T _j =+35°C		EER _d	3.52	-
T _j =+30°C		P _{dc}	3.66	kW	T _j =+30°C		EER _d	4.76	-
T _j =+25°C		P _{dc}	2.21	kW	T _j =+25°C		EER _d	5.72	-
T _j =+20°C		P _{dc}	0.94	kW	T _j =+20°C		EER _d	5.72	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
Power consumption in modes other than "active mode"									
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW	
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW	
Other items									
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h	
Sound power level, indoors / outdoors	L _{WA}	-/56	dB						
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h	
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)						
Standard rating conditions used		Low temperature application							
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(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.									

Information requirements for comfort chillers

Model(s):				HYHC-V4W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	4.5	kW		Seasonal space cooling energy efficiency	η _{s,c}	307.7	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35℃	P _{dc}	4.51	kW		T _j =+35℃	EER _d	5.54	-
T _j =+30℃	P _{dc}	3.44	kW		T _j =+30℃	EER _d	7.23	-
T _j =+25℃	P _{dc}	2.19	kW		T _j =+25℃	EER _d	8.94	-
T _j =+20℃	P _{dc}	1.13	kW		T _j =+20℃	EER _d	10.48	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-56	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V6W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	6.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	210.7	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	6.35	kW		T _j =+35°C	EER _d	2.93	-
T _j =+30°C	P _{dc}	4.76	kW		T _j =+30°C	EER _d	4.53	-
T _j =+25°C	P _{dc}	3.02	kW		T _j =+25°C	EER _d	6.32	-
T _j =+20°C	P _{dc}	1.39	kW		T _j =+20°C	EER _d	7.20	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/60	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V6W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	6.5	kW		Seasonal space cooling energy efficiency	η _{s,c}	325.2	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	6.55	kW		T _j =+35°C	EER _d	4.69	-
T _j =+30°C	P _{dc}	4.84	kW		T _j =+30°C	EER _d	7.16	-
T _j =+25°C	P _{dc}	3.26	kW		T _j =+25°C	EER _d	9.64	-
T _j =+20°C	P _{dc}	1.41	kW		T _j =+20°C	EER _d	11.48	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-/58	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V8W/D2N8-B					
Outdoor side heat exchanger of chiller:				Air to water					
Indoor side heat exchanger chiller:				Water					
Type:				Compressor driven vapour compression					
Driver of compressor:				Electric motor					
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated cooling capacity		P _{rated,c}	7.4	kW	Seasonal space cooling energy efficiency		η _{s,c}	230.1	%
Declared cooling capacity for part load at given outdoor temperature T _j				Declared energy efficiency ratio for part load at given outdoor temperature T _j					
T _j =+35°C		P _{dc}	7.38	kW	T _j =+35°C		EER _d	3.39	-
T _j =+30°C		P _{dc}	5.72	kW	T _j =+30°C		EER _d	4.71	-
T _j =+25°C		P _{dc}	3.62	kW	T _j =+25°C		EER _d	6.65	-
T _j =+20°C		P _{dc}	1.64	kW	T _j =+20°C		EER _d	8.55	-
Degradation co-efficient for chillers (*)		C _{dc}	0.9	-					
Power consumption in modes other than "active mode"									
Off mode		P _{OFF}	0.014	kW	Crankcase heater mode		P _{CK}	0.000	kW
Thermosat-off mode		P _{TO}	0.010	kW	Standby mode		P _{SB}	0.014	kW
Other items									
Capacity control		variable			For air-to-water comfort chillers: air flow rate, outdoor measured		-	4030	m³/h
Sound power level, indoors / outdoors		L _{WA}	-60	dB	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		-	-	m³/h
Emissions of nitrogen oxides (if applicable)		NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant		-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application							
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea							
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.									

Information requirements for comfort chillers

Model(s):				HYHC-V8W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	8.4	kW		Seasonal space cooling energy efficiency	η _{s,c}	355.1	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	8.37	kW		T _j =+35°C	EER _d	5.09	-
T _j =+30°C	P _{dc}	6.47	kW		T _j =+30°C	EER _d	7.02	-
T _j =+25°C	P _{dc}	4.31	kW		T _j =+25°C	EER _d	10.67	-
T _j =+20°C	P _{dc}	1.80	kW		T _j =+20°C	EER _d	13.61	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m³/h
Sound power level, indoors / outdoors	L _{WA}	-60	dB		For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V10W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	8.7	kW		Seasonal space cooling energy efficiency	η _{s,c}	236.2	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	8.73	kW		T _j =+35°C	EER _d	3.21	-
T _j =+30°C	P _{dc}	6.68	kW		T _j =+30°C	EER _d	4.47	-
T _j =+25°C	P _{dc}	4.26	kW		T _j =+25°C	EER _d	7.02	-
T _j =+20°C	P _{dc}	1.94	kW		T _j =+20°C	EER _d	9.54	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-/60	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V10W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	10.0	kW		Seasonal space cooling energy efficiency	η _{s,c}	348.1	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	10.01	kW		T _j =+35°C	EER _d	4.64	-
T _j =+30°C	P _{dc}	7.71	kW		T _j =+30°C	EER _d	6.45	-
T _j =+25°C	P _{dc}	5.03	kW		T _j =+25°C	EER _d	10.36	-
T _j =+20°C	P _{dc}	2.32	kW		T _j =+20°C	EER _d	14.98	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m³/h
Sound power level, indoors / outdoors	L _{WA}	-60	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V12W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	11.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	192.4	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	11.31	kW		T _j =+35°C	EER _d	2.61	-
T _j =+30°C	P _{dc}	8.76	kW		T _j =+30°C	EER _d	3.93	-
T _j =+25°C	P _{dc}	5.81	kW		T _j =+25°C	EER _d	5.73	-
T _j =+20°C	P _{dc}	2.63	kW		T _j =+20°C	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-65	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V12W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	11.8	kW		Seasonal space cooling energy efficiency	η _{s,c}	280.9	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	11.77	kW		T _j =+35°C	EER _d	3.87	-
T _j =+30°C	P _{dc}	9.21	kW		T _j =+30°C	EER _d	5.50	-
T _j =+25°C	P _{dc}	5.74	kW		T _j =+25°C	EER _d	8.66	-
T _j =+20°C	P _{dc}	3.33	kW		T _j =+20°C	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/64	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V14W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				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}	191.4	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	12.19	kW		T _j =+35°C	EER _d	2.46	-
T _j =+30°C	P _{dc}	9.41	kW		T _j =+30°C	EER _d	3.85	-
T _j =+25°C	P _{dc}	6.16	kW		T _j =+25°C	EER _d	5.80	-
T _j =+20°C	P _{dc}	2.63	kW		T _j =+20°C	EER _d	6.74	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m³/h
Sound power level, indoors / outdoors	L _{WA}	-65	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V14W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	13.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	272.8	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	13.30	kW		T _j =+35°C	EER _d	3.47	-
T _j =+30°C	P _{dc}	10.20	kW		T _j =+30°C	EER _d	5.26	-
T _j =+25°C	P _{dc}	6.57	kW		T _j =+25°C	EER _d	8.45	-
T _j =+20°C	P _{dc}	3.33	kW		T _j =+20°C	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/64	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V16W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	14.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	184.4	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	14.31	kW		T _j =+35°C	EER _d	2.47	-
T _j =+30°C	P _{dc}	10.68	kW		T _j =+30°C	EER _d	3.63	-
T _j =+25°C	P _{dc}	6.76	kW		T _j =+25°C	EER _d	5.27	-
T _j =+20°C	P _{dc}	3.41	kW		T _j =+20°C	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-69	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V16W/D2N8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	15.4	kW		Seasonal space cooling energy efficiency	η _{s,c}	266.9	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	15.40	kW		T _j =+35°C	EER _d	3.50	-
T _j =+30°C	P _{dc}	11.42	kW		T _j =+30°C	EER _d	5.14	-
T _j =+25°C	P _{dc}	7.27	kW		T _j =+25°C	EER _d	7.83	-
T _j =+20°C	P _{dc}	3.40	kW		T _j =+20°C	EER _d	10.35	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.014	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.014	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-69	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V12W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	11.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	191.2	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	11.31	kW		T _j =+35°C	EER _d	2.61	-
T _j =+30°C	P _{dc}	8.76	kW		T _j =+30°C	EER _d	3.93	-
T _j =+25°C	P _{dc}	5.81	kW		T _j =+25°C	EER _d	5.73	-
T _j =+20°C	P _{dc}	2.63	kW		T _j =+20°C	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/65	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V12W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	11.8	kW		Seasonal space cooling energy efficiency	η _{s,c}	278.6	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	11.77	kW		T _j =+35°C	EER _d	3.87	-
T _j =+30°C	P _{dc}	9.21	kW		T _j =+30°C	EER _d	5.50	-
T _j =+25°C	P _{dc}	5.74	kW		T _j =+25°C	EER _d	8.66	-
T _j =+20°C	P _{dc}	3.33	kW		T _j =+20°C	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-/64	dB					
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V14W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				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}	190.3	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	12.19	kW		T _j =+35°C	EER _d	2.46	-
T _j =+30°C	P _{dc}	9.41	kW		T _j =+30°C	EER _d	3.85	-
T _j =+25°C	P _{dc}	6.16	kW		T _j =+25°C	EER _d	5.80	-
T _j =+20°C	P _{dc}	2.63	kW		T _j =+20°C	EER _d	6.74	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/65	dB		For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V14W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	13.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	270.9	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	13.30	kW		T _j =+35°C	EER _d	3.47	-
T _j =+30°C	P _{dc}	10.20	kW		T _j =+30°C	EER _d	5.26	-
T _j =+25°C	P _{dc}	6.57	kW		T _j =+25°C	EER _d	8.45	-
T _j =+20°C	P _{dc}	3.33	kW		T _j =+20°C	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-64	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Information requirements for comfort chillers

Model(s):				HYHC-V16W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	14.3	kW		Seasonal space cooling energy efficiency	η _{s,c}	183.6	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	14.31	kW		T _j =+35°C	EER _d	2.47	-
T _j =+30°C	P _{dc}	10.68	kW		T _j =+30°C	EER _d	3.63	-
T _j =+25°C	P _{dc}	6.76	kW		T _j =+25°C	EER _d	5.27	-
T _j =+20°C	P _{dc}	3.41	kW		T _j =+20°C	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/69	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.

(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s):				HYHC-V16W/D2RN8-B				
Outdoor side heat exchanger of chiller:				Air to water				
Indoor side heat exchanger chiller:				Water				
Type:				Compressor driven vapour compression				
Driver of compressor:				Electric motor				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	15.4	kW		Seasonal space cooling energy efficiency	η _{s,c}	265.3	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35°C	P _{dc}	15.40	kW		T _j =+35°C	EER _d	3.50	-
T _j =+30°C	P _{dc}	11.42	kW		T _j =+30°C	EER _d	5.14	-
T _j =+25°C	P _{dc}	7.27	kW		T _j =+25°C	EER _d	7.83	-
T _j =+20°C	P _{dc}	3.40	kW		T _j =+20°C	EER _d	10.35	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.020	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.010	kW		Standby mode	P _{SB}	0.020	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L _{WA}	-/69	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details		Imported/distributed by Black Sea Suppliers www.blackseasuppliers.ro Licensed by Hyundai Corporation Holdings, Korea						
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.								

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 35/24 Water temperature: 12/7	HYHC-V4W/D2N8-B	4.70	1.36	3.45
	HYHC-V6W/D2N8-B	7.00	2.33	3.00
	HYHC-V8W/D2N8-B	7.45	2.22	3.35
	HYHC-V10W/D2N8-B	8.20	2.52	3.25
	HYHC-V12W/D2N8-B	11.5	4.18	2.75
	HYHC-V14W/D2N8-B	12.4	4.96	2.50
	HYHC-V16W/D2N8-B	14.0	5.60	2.50
	HYHC-V12W/D2RN8-B	11.5	4.18	2.75
	HYHC-V14W/D2RN8-B	12.4	4.96	2.50
	HYHC-V16W/D2RN8-B	14.0	5.60	2.50
Ambient Temperature: 35/24 Water temperature: 23/18	HYHC-V4W/D2N8-B	4.50	0.82	5.50
	HYHC-V6W/D2N8-B	6.50	1.35	4.80
	HYHC-V8W/D2N8-B	8.30	1.64	5.05
	HYHC-V10W/D2N8-B	9.90	2.18	4.55
	HYHC-V12W/D2N8-B	12.00	3.04	3.95
	HYHC-V14W/D2N8-B	13.50	3.75	3.60
	HYHC-V16W/D2N8-B	14.90	4.38	3.40
	HYHC-V12W/D2RN8-B	12.00	3.04	3.95
	HYHC-V14W/D2RN8-B	13.50	3.75	3.60
	HYHC-V16W/D2RN8-B	14.90	4.38	3.40
Ambient Temperature: 7/6 Water temperature: 30/35	HYHC-V4W/D2N8-B	4.20	0.82	5.10
	HYHC-V6W/D2N8-B	6.35	1.28	4.95
	HYHC-V8W/D2N8-B	8.40	1.63	5.15
	HYHC-V10W/D2N8-B	10.0	2.02	4.95
	HYHC-V12W/D2N8-B	12.1	2.44	4.95
	HYHC-V14W/D2N8-B	14.5	3.15	4.60
	HYHC-V16W/D2N8-B	15.9	3.53	4.50
	HYHC-V12W/D2RN8-B	12.1	2.44	4.95
	HYHC-V14W/D2RN8-B	14.5	3.15	4.60
	HYHC-V16W/D2RN8-B	15.9	3.53	4.50
Ambient Temperature: 2/1 Water temperature: 30/35	HYHC-V4W/D2N8-B	4.40	1.10	4.00
	HYHC-V6W/D2N8-B	5.50	1.41	3.90
	HYHC-V8W/D2N8-B	7.10	1.73	4.10
	HYHC-V10W/D2N8-B	8.20	2.05	4.00
	HYHC-V12W/D2N8-B	9.2	2.36	3.90
	HYHC-V14W/D2N8-B	11.0	3.06	3.60
	HYHC-V16W/D2N8-B	13.0	3.77	3.45
	HYHC-V12W/D2RN8-B	9.2	2.36	3.90
	HYHC-V14W/D2RN8-B	11.0	3.06	3.60
	HYHC-V16W/D2RN8-B	13.0	3.77	3.45

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: -7/-8 Water temperature: 30/35	HYHC-V4W/D2N8-B	4.70	1.52	3.10
	HYHC-V6W/D2N8-B	6.00	2.00	3.00
	HYHC-V8W/D2N8-B	7.00	2.19	3.20
	HYHC-V10W/D2N8-B	8.00	2.62	3.05
	HYHC-V12W/D2N8-B	10.00	3.33	3.00
	HYHC-V14W/D2N8-B	12.00	4.21	2.85
	HYHC-V16W/D2N8-B	13.10	4.85	2.70
	HYHC-V12W/D2RN8-B	10.00	3.33	3.00
	HYHC-V14W/D2RN8-B	12.00	4.21	2.85
	HYHC-V16W/D2RN8-B	13.10	4.85	2.70
Ambient Temperature: 7/6 Water temperature: 40/45	HYHC-V4W/D2N8-B	4.30	1.13	3.80
	HYHC-V6W/D2N8-B	6.30	1.70	3.70
	HYHC-V8W/D2N8-B	8.10	2.10	3.85
	HYHC-V10W/D2N8-B	10.0	2.67	3.75
	HYHC-V12W/D2N8-B	12.3	3.32	3.70
	HYHC-V14W/D2N8-B	14.1	3.92	3.60
	HYHC-V16W/D2N8-B	16.0	4.57	3.50
	HYHC-V12W/D2RN8-B	12.3	3.32	3.70
	HYHC-V14W/D2RN8-B	14.1	3.92	3.60
	HYHC-V16W/D2RN8-B	16.0	4.57	3.50
Ambient Temperature: 2/1 Water temperature: 40/45	HYHC-V4W/D2N8-B	5.10	1.70	3.00
	HYHC-V6W/D2N8-B	5.80	1.93	3.00
	HYHC-V8W/D2N8-B	7.40	2.28	3.25
	HYHC-V10W/D2N8-B	7.85	2.45	3.20
	HYHC-V12W/D2N8-B	10.60	3.53	3.00
	HYHC-V14W/D2N8-B	11.50	4.04	2.85
	HYHC-V16W/D2N8-B	12.70	4.46	2.85
	HYHC-V12W/D2RN8-B	10.60	3.53	3.00
	HYHC-V14W/D2RN8-B	11.50	4.04	2.85
	HYHC-V16W/D2RN8-B	12.70	4.46	2.85
Ambient Temperature: -7/-8 Water temperature: 40/45	HYHC-V4W/D2N8-B	4.30	1.83	2.35
	HYHC-V6W/D2N8-B	5.40	2.25	2.40
	HYHC-V8W/D2N8-B	6.60	2.59	2.55
	HYHC-V10W/D2N8-B	7.35	2.88	2.55
	HYHC-V12W/D2N8-B	10.20	4.25	2.40
	HYHC-V14W/D2N8-B	11.70	4.98	2.35
	HYHC-V16W/D2N8-B	12.80	5.69	2.25
	HYHC-V12W/D2RN8-B	10.20	4.25	2.40
	HYHC-V14W/D2RN8-B	11.70	4.98	2.35
	HYHC-V16W/D2RN8-B	12.80	5.69	2.25

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 7/6 Water temperature: 47/55	HYHC-V4W/D2N8-B	4.40	1.49	2.95
	HYHC-V6W/D2N8-B	6.00	2.03	2.95
	HYHC-V8W/D2N8-B	7.50	2.36	3.18
	HYHC-V10W/D2N8-B	9.50	3.06	3.10
	HYHC-V12W/D2N8-B	11.9	3.90	3.05
	HYHC-V14W/D2N8-B	13.8	4.68	2.95
	HYHC-V16W/D2N8-B	16.0	5.61	2.85
	HYHC-V12W/D2RN8-B	11.9	3.90	3.05
	HYHC-V14W/D2RN8-B	13.8	4.68	2.95
	HYHC-V16W/D2RN8-B	16.0	5.61	2.85
Ambient Temperature: 2/1 Water temperature: 47/55	HYHC-V4W/D2N8-B	5.10	2.08	2.45
	HYHC-V6W/D2N8-B	5.65	2.31	2.45
	HYHC-V8W/D2N8-B	7.10	2.73	2.60
	HYHC-V10W/D2N8-B	8.10	3.16	2.56
	HYHC-V12W/D2N8-B	11.30	4.52	2.50
	HYHC-V14W/D2N8-B	12.40	5.06	2.45
	HYHC-V16W/D2N8-B	13.30	5.54	2.40
	HYHC-V12W/D2RN8-B	11.30	4.52	2.50
	HYHC-V14W/D2RN8-B	12.40	5.06	2.45
	HYHC-V16W/D2RN8-B	13.30	5.54	2.40
Ambient Temperature: -7/-8 Water temperature: 47/55	HYHC-V4W/D2N8-B	4.00	2.05	1.95
	HYHC-V6W/D2N8-B	5.15	2.58	2.00
	HYHC-V8W/D2N8-B	6.15	3.00	2.05
	HYHC-V10W/D2N8-B	6.85	3.43	2.00
	HYHC-V12W/D2N8-B	9.80	4.78	2.05
	HYHC-V14W/D2N8-B	11.00	5.37	2.05
	HYHC-V16W/D2N8-B	12.50	6.25	2.00
	HYHC-V12W/D2RN8-B	9.80	4.78	2.05
	HYHC-V14W/D2RN8-B	11.00	5.37	2.05
	HYHC-V16W/D2RN8-B	12.50	6.25	2.00

NOTE

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材料；双胶纸80g

大小；A4

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