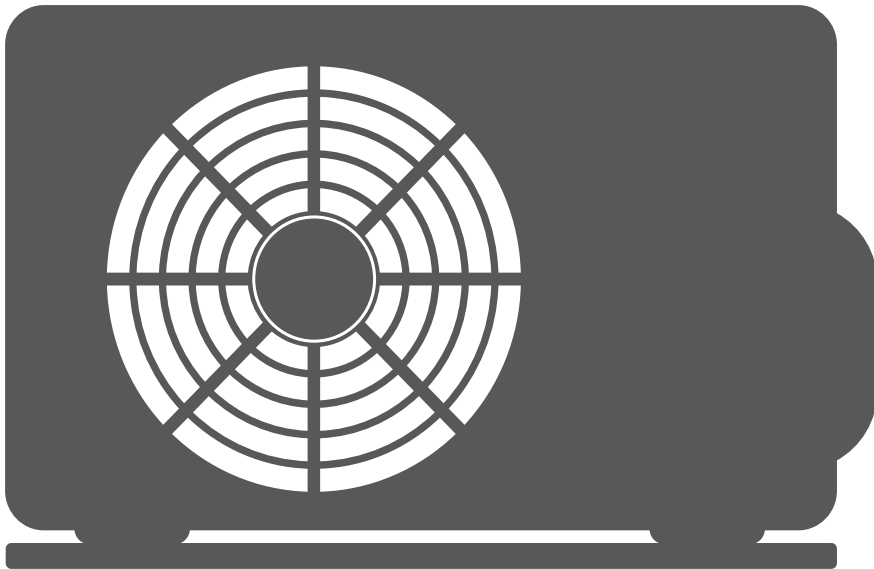


HYUNDAI

AIR CONDITIONING SYSTEMS

AIR-TO-WATER HEAT PUMP - MONOBLOCK

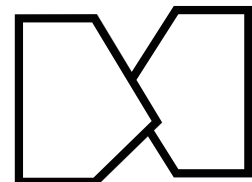
• PRODUCT FICHE



MODELS:

HY/R290-70B/EN7BP
HY/R290-100B/EN7BP
HY/R290-120B/EN7BP
HY/R290-160B/EN7BP
HY/R290-100B/EN7BP-3
HY/R290-120B/EN7BP-3
HY/R290-160B/EN7BP-3

ENGLISH



Model	For low-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
			kW	%	kWh	kW	%	kWh	kW	%	kWh
HY/R290-70B/EN7BP	A+++	61	7.0	182	3114	6.3	155	3939	7.1	196	1913
HY/R290-100B/EN7BP	A+++	63	9.2	186	4015	8.8	152	5579	9.2	214	2274
HY/R290-120B/EN7BP	A+++	64	12.0	180	5408	11.3	151	7208	12.6	239	2789
HY/R290-160B/EN7BP	A+++	68	14.7	180	6650	13.9	148	9097	16.0	196	4299
HY/R290-100B/EN7BP-3	A+++	63	9.0	183	3992	8.8	152	5579	9.2	214	2274
HY/R290-120B/EN7BP-3	A+++	64	12.3	185	5400	11.3	151	7208	12.6	239	2789
HY/R290-160B/EN7BP-3	A+++	68	14.7	182	6557	13.9	148	9097	16.0	196	4299
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
			kW	%	kWh	kW	%	kWh	kW	%	kWh
HY/R290-70B/EN7BP	A++	62	6.8	137	4007	6.2	119	5023	7.1	149	2513
HY/R290-100B/EN7BP	A++	64	9.1	141	5253	8.7	119	7011	9.0	170	2778
HY/R290-120B/EN7BP	A++	65	11.7	134	7082	11.4	120	9121	12.7	156	4250
HY/R290-160B/EN7BP	A++	69	13.8	133	8343	12.9	117	10636	15.9	155	5362
HY/R290-100B/EN7BP-3	A++	64	9.1	140	5257	8.7	119	7011	9.0	170	2778
HY/R290-120B/EN7BP-3	A++	65	11.6	132	7090	11.4	120	9121	12.7	156	4250
HY/R290-160B/EN7BP-3	A++	69	13.8	131	8507	12.9	117	10636	15.9	155	5362

Product fiche 1

Heat pump space heater

Heat pump space heater			Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3	HY/R290-160B/EN7BP-3
Unit sound power (*)	Average climate low temperature application	[dB]	61	63	64	68	63	64	68	
	Average climate medium temperature application	[dB]	62	64	65	69	64	65	69	
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	3	3	3	3	9	9	9	
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++	A++	A++	
Average climate (Design temperature = -10°C)										
Space heating 35°C	Prated (declared heating capacity) @-10°C	[kW]	7.0	9.2	12.0	14.7	9.0	12.3	14.7	
	Seasonal space heating efficiency (η)	[%]	182	186	180	180	183	185	182	
	Annual energy consumption	[kWh]	3114	4015	5408	6650	3992	5400	6557	
Space heating 55°C	Prated (declared heating capacity) @-10°C	[kW]	6.8	9.1	11.7	13.8	9.1	11.6	13.8	
	Seasonal space heating efficiency (η)	[%]	137	141	134	133	140	132	131	
	Annual energy consumption	[kWh]	4007	5253	7082	8343	5257	7090	8507	
Part load conditions space heating average climate low temperature application										
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	6.2	8.1	10.6	13.0	8.0	10.8	13.0	
	COPd (declared COP)	-	2.82	2.75	2.50	2.32	2.90	2.49	2.27	
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	3.8	4.9	6.3	7.8	4.9	6.2	7.8	
	COPd (declared COP)	-	4.76	4.50	4.49	4.51	4.32	4.52	4.51	
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.6	3.3	4.6	5.7	3.3	4.6	5.3	
	COPd (declared COP)	-	6.41	6.84	6.66	6.71	6.70	7.28	7.08	
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99	
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.6	2.7	3.6	4.5	3.5	3.5	4.6	
	COPd (declared COP)	-	5.14	8.87	8.11	9.18	9.68	8.86	10.32	
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.98	0.98	0.98	0.98	

Product fiche 2

Heat pump space heater		Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3	HY/R290-160B/EN7BP-3
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	5.6	7.5	8.5	12.8	7.4	8.2	11.8
	COPd (declared COP)	-	2.58	2.90	2.53	2.18	2.60	2.47	2.04
	WTOL (Heating water Operation Limit)	[°C]	75.00	75.00	75.00	75.00	75.00	75.00	75.00
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	6.2	8.1	10.6	13.0	8.0	10.8	13.0
	COPd (declared COP)	-	2.82	2.75	2.50	2.32	2.90	2.49	2.27
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.36	1.72	3.42	1.92	1.59	4.10	2.82
Part load conditions space heating average climate medium temperature application									
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	6.0	8.1	10.4	12.2	8.1	10.3	12.2
	COPd (declared COP)	-	2.34	2.22	2.14	1.80	2.07	1.96	1.70
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.0	5.1	6.5	7.4	5.2	6.4	7.4
	COPd (declared COP)	-	3.45	3.51	3.40	3.38	3.40	3.37	3.34
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	2.6	3.0	4.3	5.2	3.3	4.3	5.5
	COPd (declared COP)	-	4.38	4.54	4.49	4.73	5.04	4.54	4.77
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.8	2.6	2.6	4.4	3.3	2.8	4.5
	COPd (declared COP)	-	5.60	7.18	4.96	6.62	7.46	5.58	6.70
	Cdh(degradation coefficient)	-	0.99	0.99	0.99	0.99	0.99	0.99	0.99
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	5.1	7.9	8.8	12.1	7.4	8.9	12.0
	COPd (declared COP)	-	1.93	1.78	1.90	1.58	1.92	1.83	1.55
	WTOL (Heating water Operation Limit)	[°C]	75.00	75.00	75.00	75.00	75.00	75.00	75.00
(F) Tbivalent temperature	Tbiv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	6.0	8.1	10.4	12.2	8.1	10.3	12.2
	COPd (declared COP)	-	2.34	2.22	2.14	1.80	2.07	1.96	1.70
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.62	1.24	2.97	1.69	1.68	2.76	1.84

Product fiche 3

Heat pump space heater

Heat pump space heater			Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3	HY/R290-160B/EN7BP-3
Colder climate (Design temperature = -22°C)										
Space heating 35°C	Prated (declared heating capacity) @-22°C	[kW]	6.3	8.8	11.3	13.9	8.8	11.3	13.9	
	Seasonal space heating efficiency (η)	[%]	155	152	151	148	152	151	148	
	Annual energy consumption	[kWh]	3939	5579	7208	9097	5579	7208	9097	
Space heating 55°C	Prated(declared heating capacity)@-22°C	[kW]	6.2	8.7	11.4	12.9	8.7	11.4	12.9	
	Seasonal space heating efficiency (η)	[%]	119	119	120	117	119	120	117	
	Annual energy consumption	[kWh]	5023	7011	9121	10636	7011	9121	10636	
Part load conditions space heating colder climate low temperature application										
(A) condition (-7°C)	Pdh (declared heating capacity)@-22°C	[kW]	4.38	5.6	7.8	7.5	5.6	7.8	7.5	
	COPd (declared COP)	-	3.55	3.30	3.31	3.28	3.30	3.31	3.28	
	Cdh(degradation coefficient)	-	0.9	0.90	0.90	0.90	0.90	0.90	0.90	
(B) condition (2°C)	Pdh (declared heating capacity)@-22°C	[kW]	2.78	3.4	4.9	4.7	3.4	4.9	4.7	
	COPd (declared COP)	-	4.60	4.31	4.88	4.32	4.31	4.88	4.32	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	Pdh (declared heating capacity)@-22°C	[kW]	1.8	2.2	3.2	3.3	2.2	3.2	3.3	
	COPd (declared COP)	-	5.83	7.89	5.62	5.55	7.89	5.62	5.55	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	Pdh (declared heating capacity)@-22°C	[kW]	1.73	2.5	3.5	3.7	2.5	3.5	3.7	
	COPd (declared COP)	-	7.3	11.18	7.51	7.40	11.18	7.51	7.40	
	Cdh(degradation coefficient)	-	0.90	0.90	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	-22.00	-22.00	
	Pdh (declared heating capacity)@-22°C	[kW]	4.25	6.0	8.4	10.1	6.0	8.4	10.1	
	COPd (declared COP)	-	1.9	2.03	2.00	2.01	2.03	2.00	2.01	
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00	60.00	
(F) Tbivalent temperature	Tbiv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	
	Pdh (declared heating capacity)@-22°C	[kW]	5.15	7.1	9.2	11.4	7.1	9.2	11.4	
	COPd (declared COP)	-	2.65	2.38	2.13	2.31	2.38	2.13	2.31	
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	2.06	2.77	2.88	3.78	2.77	2.88	3.78	

Product fiche 4									
Heat pump space heater			Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3
Part load conditions space heating colder climate medium temperature application									
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	4.4	5.5	7.6	7.5	5.5	7.6	7.5
	COPd (declared COP)	-	2.79	2.58	2.66	2.51	2.58	2.66	2.51
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	2.7	3.5	4.3	4.6	3.5	4.3	4.6
	COPd (declared COP)	-	3.44	3.37	3.68	3.64	3.37	3.68	3.64
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	1.7	2.2	3.0	2.9	2.2	3.0	2.9
	COPd (declared COP)	-	4.33	5.80	4.51	4.27	5.80	4.51	4.27
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.7	2.5	3.4	4.1	2.5	3.4	4.1
	COPd (declared COP)	-	6.03	7.59	6.34	7.09	7.59	6.34	7.09
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)		-22.0	-22.0	-22.0	-22.00	-22.0	-22.00	-22.0
	Pdh (declared heating capacity)	[kW]	4.0	5.6	6.8	9.0	5.6	6.8	9.0
	COPd (declared COP)	-	1.71	1.59	1.32	1.45	1.59	1.32	1.45
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	60.00	60.00
(F) Tbivalent temperature	Tbiv	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00	-15.00
	Pdh (declared heating capacity)	[kW]	5.1	7.1	9.3	10.5	7.1	9.3	10.5
	COPd (declared COP)	-	2.11	1.96	1.86	1.65	1.96	1.86	1.65
Supplementary capacity at P_design	Psup (@Tdesignh: -22°C)	[kW]	2.27	3.02	4.59	3.94	3.02	4.59	3.94
Warmer climate (Design temperature = 2°C)									
Space heating 35°C	Prated (declared heating capacity) @ 2°C	[kW]	7.1	9.2	12.6	16.0	9.2	12.6	16.0
	Seasonalspaceheating efficiency(η)	[%]	196	214	239	196	214	239	196
	Annual energy consumption	[kWh]	1913	2274	2789	4299	2274	2789	4299
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]	7.1	9.0	12.7	15.9	9.0	12.7	15.9
	Seasonalspaceheating efficiency(η)	[%]	149	170	156	155	170	156	155
	Annual energy consumption	[kWh]	2513	2778	4250	5362	2778	4250	5362

Product fiche 5

Heat pump space heater

Heat pump space heater			Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3	HY/R290-160B/EN7BP-3
Part load conditions space heating warmer climate low temperature application										
(B) condition (2°C)	Pdh(declared heating capacity)	[kW]	4.4	5.5	11.7	9.6	5.5	11.7	9.6	
	COPd (declared COP)	-	4.21	3.37	2.48	2.87	3.37	2.48	2.87	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
C) condition (7°C)	Pdh(declared heating capacity)	[kW]	4.6	5.9	8.1	10.3	5.9	8.1	10.3	
	COPd (declared COP)	-	4.93	5.02	5.32	4.88	5.02	5.32	4.88	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	Pdh(declared heating capacity)	[kW]	2.1	3.3	3.6	4.8	3.3	3.6	4.8	
	COPd (declared COP)	-	7.06	9.17	8.42	7.43	9.17	8.42	7.43	
	Cdh(degradation coefficient)	-	0.90	0.90	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	2.00	2.00	
	Pdh(declared heating capacity)	[kW]	4.4	5.5	11.7	9.6	5.5	11.7	9.6	
	COPd (declared COP)	-	4.21	3.37	2.48	2.87	3.37	2.48	2.87	
	WTOL (Heating water Operation Limit)	[°C]	75.00	75.00	75.00	75.00	75.00	75.00	75.00	
(F) Tbivalent temperature	Tbiv	[°C]	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
	Pdh(declared heating capacity)	[kW]	4.6	5.9	8.1	10.3	5.9	8.1	10.3	
	COPd (declared COP)	-	4.93	5.02	5.32	4.88	5.02	5.32	4.88	
Supplementary capacity at P_design	Psup (@Tdesignh: 2°C)	[kW]	2.77	3.74	0.89	6.39	0.00	0.89	0.00	
Part load conditions space heating warmer climate medium temperature application										
(B) condition (2°C)	Pdh(declared heating capacity)	[kW]	4.1	5.9	10.9	9.7	5.9	10.9	9.7	
	COPd (declared COP)	-	2.75	2.33	2.01	2.12	2.33	2.01	2.12	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(C) condition (7°C)	Pdh(declared heating capacity)	[kW]	4.6	5.8	8.2	10.2	5.8	8.2	10.2	
	COPd (declared COP)	-	3.49	3.80	3.71	3.59	3.80	3.71	3.59	
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
(D) condition (12°C)	Pdh(declared heating capacity)	[kW]	2.3	3.2	3.5	4.7	3.2	3.5	4.7	
	COPd (declared COP)	-	5.44	6.82	5.06	5.86	6.82	5.06	5.86	
	Cdh(degradation coefficient)	-	3.03	3.11	1.77	6.17	3.11	1.77	6.17	

Product fiche 6

Heat pump space heater

	Model	HY/R290-70B/EN7BP	HY/R290-100B/EN7BP	HY/R290-120B/EN7BP	HY/R290-160B/EN7BP	HY/R290-100B/EN7BP-3	HY/R290-120B/EN7BP-3	HY/R290-160B/EN7BP-3
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	4.1	5.9	10.9	9.7	5.9	10.9	9.7
	COPd (declared COP)	2.75	2.33	2.01	2.12	2.33	2.01	2.12
	WTOL (Heating water Operation Limit)	75.00	75.00	75.00	75.00	75.00	75.00	75.00
(F) Tivalent temperature	Tbiv	7.00	7.00	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	4.6	5.8	8.2	8.1	5.8	8.1	10.2
	COPd (declared COP)	3.49	3.80	3.71	3.59	3.80	3.71	3.59
	Psup (@Tdesign: 2°C)	3.03	3.11	1.77	2.88	3.11	1.68	6.17
Product description	Air-to-water heat pump	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	No	No	No	No	No	No	No
	Brine-to-water heat pump	No	No	No	No	No	No	No
	Low-temperature heat pump	No	No	No	No	No	No	No
	Equipped with a supplementary heater	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	No	No	No	No	No	No	No
	Rated airflow	2650	3350	4050	4050	3350	4050	4050
	Rated water/brine flow (outdoor H/E)	/	/	/	/	/	/	/
	Capacity control	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
Other	P(Power consumption Off mode)	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	P (Power consumption Thermostat off mode)	0.021	0.025	0.027	0.027	0.025	0.027	0.027
	P(Power consumption Standby mode)	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	P(Power crankcase heater model)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Q(Daily electricity consumption)	/	/	/	/	/	/	/
	Q(Daily fuel consumption)	/	/	/	/	/	/	/

Technical parameters							
Model(s):		HY/R290-70B/EN7BP					
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/YES					
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	6.8	kW	Seasonal space heating energy efficiency	η_s	137	%
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	6.0	kW	Tj = -7°C	COPd	2.34	-
Tj = 2°C	Pdh	4.0	kW	Tj = 2°C	COPd	3.45	-
Tj = 7°C	Pdh	2.6	kW	Tj = 7°C	COPd	4.38	-
Tj = 12°C	Pdh	1.8	kW	Tj = 12°C	COPd	5.60	-
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2.34	-
Tj = operating limit	Pdh	5.1	kW	Tj = operating limit	COPd	1.93	-
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	0.99	--	Heating water operating limit temperature	W _{tol}	75	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.007	kW	Rated heat output (**)	P _{sup}	1.4	kW
Standby mode	P _{sb}	0.007	kW				
Thermostat-off mode	P _{to}	0.021	kW				
Crankcase heater mode	P _{ck}	0.000	kW	Type of energy input	Electrical		
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2650	m³/h
Sound power level, indoors/outdoors	L _{WA}	62	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}	4007	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							
(*) 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):		HY/R290-70B/EN7BP							
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/YES							
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	6.2	kW	Seasonal space heating energy efficiency		η s	119	%
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	4.4	kW	Tj = -7°C		COPd	2.79	-
Tj = 2°C		Pdh	2.7	kW	Tj = 2°C		COPd	3.44	-
Tj = 7°C		Pdh	1.7	kW	Tj = 7°C		COPd	4.33	-
Tj = 12°C		Pdh	1.7	kW	Tj = 12°C		COPd	6.03	-
Tj = bivalent temperature		Pdh	5.1	kW	Tj = bivalent temperature		COPd	2.11	-
Tj = operating limit		Pdh	4.0	kW	Tj = operating limit		COPd	1.71	-
For air-to-water heat pumps: Tj = -15°C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C		COPd	-	-
Bivalent temperature		Tbiv	-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	0.90	--	Heating water operating limit temperature		WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	2.3	kW
Standby mode		Psb	0.007	kW	Type of energy input				
Thermostat-off mode		Pto	0.021	kW					
Crankcase heater mode		Pck	0.000	kW	Electrical				
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	2650	m³/h	
Sound power level, indoors/outdoors		LWA	62	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	5023	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):				HY/R290-70B/EN7BP					
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/YES					
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	7.1	kW	Seasonal space heating energy efficiency		η s	149	%
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	4.1	kW	Tj = 2°C		COPd	2.75	-
Tj = 7°C		Pdh	4.6	kW	Tj = 7°C		COPd	3.49	-
Tj = 12°C		Pdh	2.3	kW	Tj = 12°C		COPd	5.44	-
Tj = bivalent temperature		Pdh	4.6	kW	Tj = bivalent temperature		COPd	3.49	-
Tj = operating limit		Pdh	4.1	kW	Tj = operating limit		COPd	2.75	-
For air-to-water heat pumps: Tj = -15°C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C		COPd	-	-
Bivalent temperature		Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature		TOL	2	°C
Cycling interval capacity for heating		Pcych	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.90	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode					Supplementary heater				
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.0	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.021	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		-	2650	m³/h
Sound power level, indoors/outdoors		LWA	62	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	2513	kWh					
For heat pump combination heater:									
Declared load profile		-			Water heating energyefficiency		ηwh	-	%
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):			HY/R290-100B/EN7BP								
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/YES								
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	9.1	kW	Seasonal space heating energy efficiency		η s	141	%		
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	8.1	kW	Tj = -7°C		COPd	2.22	-		
Tj = 2°C		Pdh	5.1	kW	Tj = 2°C		COPd	3.51	-		
Tj = 7°C		Pdh	3.0	kW	Tj = 7°C		COPd	4.54	-		
Tj = 12°C		Pdh	2.6	kW	Tj = 12°C		COPd	7.18	-		
Tj = bivalent temperature		Pdh	8.1	kW	Tj = bivalent temperature		COPd	2.22	-		
Tj = operating limit		Pdh	7.9	kW	Tj = operating limit		COPd	1.78	-		
For air-to-water heat pumps: Tj = -15°C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C		COPd	-	-		
Bivalent temperature		Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature		TOL	-10	°C		
Cycling interval capacity for heating		Pcyh	-	kW	Cycling interval efficiency		COPcyc	-	-		
Degradation co-efficient (**)		Cdh	0.99	--	Heating water operating limit temperature		WTOL	75	°C		
Power consumption in modes other than active mode				Supplementary heater							
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	1.6	kW		
Standby mode		Psb	0.007	kW	Type of energy input		Electrical				
Thermostat-off mode		Pto	0.025	kW							
Crankcase heater mode		Pck	0.000	kW							
Other items											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors				-	3350	m³/h	
Sound power level, indoors/outdoors		LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption		QHE	5253	kWh							
For heat pump combination heater:											
Declared load profile		-		Water heating energyefficiency		ηwh	-	%			
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh		
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ		
Contact details											
(*) 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):				HY/R290-100B/EN7BP					
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/YES					
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	8.7	kW	Seasonal space heating energy efficiency		η s	119	%
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	5.5	kW	Tj = -7°C		COPd	2.58	-
Tj = 2°C		Pdh	3.5	kW	Tj = 2°C		COPd	3.37	-
Tj = 7°C		Pdh	2.2	kW	Tj = 7°C		COPd	5.80	-
Tj = 12°C		Pdh	2.5	kW	Tj = 12°C		COPd	7.59	-
Tj = bivalent temperature		Pdh	7.1	kW	Tj = bivalent temperature		COPd	1.96	-
Tj = operating limit		Pdh	5.6	kW	Tj = operating limit		COPd	1.59	-
For air-to-water heat pumps: Tj = -15°C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C		COPd	-	-
Bivalent temperature		Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature		TOL	-22	°C
Cycling interval capacity for heating		Pcyh	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.90	--	Heating water operating limit temperature		WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.0	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.025	kW	Type of energy input				
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	3350	m³/h	
Sound power level, indoors/outdoors		LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	7011	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):			HY/R290-100B/EN7BP						
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/YES						
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	9.0	kW	Seasonal space heating energy efficiency		η s	170	%
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	5.9	kW	Tj = 2°C		COPd	2.33	-
Tj = 7°C		Pdh	5.8	kW	Tj = 7°C		COPd	3.80	-
Tj = 12°C		Pdh	3.2	kW	Tj = 12°C		COPd	6.82	-
Tj = bivalent temperature		Pdh	5.8	kW	Tj = bivalent temperature		COPd	3.80	-
Tj = operating limit		Pdh	5.9	kW	Tj = operating limit		COPd	2.33	-
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		Pcyh	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.90	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.1	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.025	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		-	3350	m³/h	
Sound power level, indoors/outdoors		LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	2778	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):			HY/R290-120B/EN7BP				
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/YES				
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	11.7	kW	Seasonal space heating energy efficiency	η s	134	%
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	10.4	kW	Tj = -7°C	COPd	2.14	-
Tj = 2°C	Pdh	6.5	kW	Tj = 2°C	COPd	3.40	-
Tj = 7°C	Pdh	4.3	kW	Tj = 7°C	COPd	4.49	-
Tj = 12°C	Pdh	2.6	kW	Tj = 12°C	COPd	4.96	-
Tj = bivalent temperature	Pdh	10.4	kW	Tj = bivalent temperature	COPd	2.14	-
Tj = operating limit	Pdh	8.8	kW	Tj = operating limit	COPd	1.90	-
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	Pcyh	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.99	--	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.007	kW	Rated heat output (**)	Psup	3.0	kW
Standby mode	Psb	0.007	kW				
Thermostat-off mode	Pto	0.027	kW				
Crankcase heater mode	Pck	0.000	kW	Type of energy input	Electrical		
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4050	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	7082	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energyefficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details							
(*) 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):	HY/R290-120B/EN7BP						
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/YES						
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	11.4	kW	Seasonal space heating energy efficiency	η_s	120	%
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	7.6	kW	Tj = -7°C	COPd	2.66	-
Tj = 2°C	Pdh	4.3	kW	Tj = 2°C	COPd	3.68	-
Tj = 7°C	Pdh	3.0	kW	Tj = 7°C	COPd	4.51	-
Tj = 12°C	Pdh	3.4	kW	Tj = 12°C	COPd	6.34	-
Tj = bivalent temperature	Pdh	9.3	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	6.8	kW	Tj = operating limit	COPd	1.32	-
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	0.90	--	Heating water operating limit temperature	Wtol	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.007	kW	Rated heat output (**)	Psup	4.6	kW
Standby mode	Psb	0.007	kW				
Thermostat-off mode	Pto	0.027	kW				
Crankcase heater mode	Pck	0.000	kW				
				Type of energy input	Electrical		
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4050	m³/h
Sound power level, indoors/outdoors	L _{WA}	65	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}	9121	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energyefficiency	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							
(*) 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):		HY/R290-120B/EN7BP							
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/YES							
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	12.7	kW	Seasonal space heating energy efficiency		η s	156	%
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	10.91	kW	Tj = 2°C		COPd	2.01	-
Tj = 7°C		Pdh	8.15	kW	Tj = 7°C		COPd	3.71	-
Tj = 12°C		Pdh	3.49	kW	Tj = 12°C		COPd	5.06	-
Tj = bivalent temperature		Pdh	8.15	kW	Tj = bivalent temperature		COPd	3.71	-
Tj = operating limit		Pdh	10.91	kW	Tj = operating limit		COPd	2.01	-
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	0.90	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	1.8	kW
Standby mode		Psb	0.007	kW	Type of energy input		Electrical		
Thermostat-off mode		Pto	0.027	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	4050	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	4250	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):			HY/R290-160B/EN7BP						
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/YES						
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	13.8	kW	Seasonal space heating energy efficiency		η s	133	%
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	12.2	kW	Tj = -7°C		COPd	1.80	-
Tj = 2°C		Pdh	7.4	kW	Tj = 2°C		COPd	3.38	-
Tj = 7°C		Pdh	5.2	kW	Tj = 7°C		COPd	4.73	-
Tj = 12°C		Pdh	4.4	kW	Tj = 12°C		COPd	6.62	-
Tj = bivalent temperature		Pdh	12.2	kW	Tj = bivalent temperature		COPd	1.80	-
Tj = operating limit		Pdh	12.1	kW	Tj = operating limit		COPd	1.58	-
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		Pcyh	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.99	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	1.7	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.027	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		-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	8343	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):				HY/R290-160B/EN7BP					
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/YES					
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	12.9	kW	Seasonal space heating energy efficiency		η s	117	%
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	7.5	kW	Tj = -7°C		COPd	2.51	-
Tj = 2°C		Pdh	4.6	kW	Tj = 2°C		COPd	3.64	-
Tj = 7°C		Pdh	2.9	kW	Tj = 7°C		COPd	4.27	-
Tj = 12°C		Pdh	4.1	kW	Tj = 12°C		COPd	7.09	-
Tj = bivalent temperature		Pdh	10.5	kW	Tj = bivalent temperature		COPd	1.65	-
Tj = operating limit		Pdh	9.0	kW	Tj = operating limit		COPd	1.45	-
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	0.90	--	Heating water operating limit temperature		WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.9	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.027	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		-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	10636	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):				HY/R290-160B/EN7BP							
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/YES							
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	15.9	kW	Seasonal space heating energy efficiency		η s	155	%		
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℃		Pdh	-	kW	Tj = -7℃		COPd	-	-		
Tj = 2℃		Pdh	9.7	kW	Tj = 2℃		COPd	2.12	-		
Tj = 7℃		Pdh	10.2	kW	Tj = 7℃		COPd	3.59	-		
Tj = 12℃		Pdh	4.7	kW	Tj = 12℃		COPd	5.86	-		
Tj = bivalent temperature		Pdh	10.2	kW	Tj = bivalent temperature		COPd	3.59	-		
Tj = operating limit		Pdh	9.7	kW	Tj = operating limit		COPd	2.12	-		
For air-to-water heat pumps: Tj = -15℃		Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃		COPd	-	-		
Bivalent temperature		Tbiv	7	℃	For air-to-water heat pumps: Operation limit temperature		TOL	2	℃		
Cycling interval capacity for heating		Pcych	-	kW	Cycling interval efficiency		COPcyc	-	-		
Degradation co-efficient (**)		Cdh	0.90	--	Heating water operating limit temperature		WTOL	65	℃		
Power consumption in modes other than active mode				Supplementary heater							
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	2.9	kW		
Standby mode		Psb	0.007	kW							
Thermostat-off mode		Pto	0.027	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				-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption		QHE	5362	kWh							
For heat pump combination heater:											
Declared load profile		-		Water heating energyefficiency		ηwh	-	-	%		
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh		
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ		
Contact details											
(*) 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):			HY/R290-100B/EN7BP-3						
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/YES						
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	9.1	kW	Seasonal space heating energy efficiency		η s	140	%
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℃		Pdh	8.1	kW	Tj = -7℃		COPd	2.07	-
Tj = 2℃		Pdh	5.2	kW	Tj = 2℃		COPd	3.40	-
Tj = 7℃		Pdh	3.3	kW	Tj = 7℃		COPd	5.04	-
Tj = 12℃		Pdh	3.3	kW	Tj = 12℃		COPd	7.46	-
Tj = bivalent temperature		Pdh	8.1	kW	Tj = bivalent temperature		COPd	2.07	-
Tj = operating limit		Pdh	7.4	kW	Tj = operating limit		COPd	1.92	-
For air-to-water heat pumps: Tj = -15℃		Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃		COPd	-	-
Bivalent temperature		Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature		TOL	-10	℃
Cycling interval capacity for heating		Pcyc	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.99	--	Heating water operating limit temperature		WTOL	75	℃
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	1.7	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.025	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		-	3350	m³/h	
Sound power level, indoors/outdoors		LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	5257	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):			HY/R290-100B/EN7BP-3				
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/YES				
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	8.7	kW	Seasonal space heating energy efficiency	η s	119	%
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℃	Pdh	5.5	kW	Tj = -7℃	COPd	2.58	-
Tj = 2℃	Pdh	3.5	kW	Tj = 2℃	COPd	3.37	-
Tj = 7℃	Pdh	2.2	kW	Tj = 7℃	COPd	5.80	-
Tj = 12℃	Pdh	2.5	kW	Tj = 12℃	COPd	7.59	-
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	1.96	-
Tj = operating limit	Pdh	5.6	kW	Tj = operating limit	COPd	1.59	-
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃	COPd	-	-
Bivalent temperature	Tbiv	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.90	--	Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.007	kW	Rated heat output (**)	Psup	3.0	kW
Standby mode	Psb	0.007	kW				
Thermostat-off mode	Pto	0.025	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	-	3350	m³/h
Sound power level, indoors/outdoors	LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	7011	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energyefficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details							
(*) 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):			HY/R290-100B/EN7BP-3						
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/YES						
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	9.0	kW	Seasonal space heating energy efficiency		η s	170	%
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	5.9	kW	Tj = 2°C		COPd	2.33	-
Tj = 7°C		Pdh	5.8	kW	Tj = 7°C		COPd	3.80	-
Tj = 12°C		Pdh	3.2	kW	Tj = 12°C		COPd	6.82	-
Tj = bivalent temperature		Pdh	5.8	kW	Tj = bivalent temperature		COPd	3.80	-
Tj = operating limit		Pdh	5.9	kW	Tj = operating limit		COPd	2.33	-
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	0.90	--	Heating water operating limit temperature		WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.1	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.025	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		-	3350	m³/h	
Sound power level, indoors/outdoors		LWA	64	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	2778	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):				HY/R290-120B/EN7BP-3					
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/YES					
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	132	%
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℃		Pdh	10.3	kW	Tj = -7℃		COPd	1.96	-
Tj = 2℃		Pdh	6.4	kW	Tj = 2℃		COPd	3.37	-
Tj = 7℃		Pdh	4.3	kW	Tj = 7℃		COPd	4.54	-
Tj = 12℃		Pdh	2.8	kW	Tj = 12℃		COPd	5.58	-
Tj = bivalent temperature		Pdh	10.3	kW	Tj = bivalent temperature		COPd	1.96	-
Tj = operating limit		Pdh	8.9	kW	Tj = operating limit		COPd	1.83	-
For air-to-water heat pumps: Tj = -15℃		Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃		COPd	-	-
Bivalent temperature		Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature		TOL	-10	℃
Cycling interval capacity for heating		Pcyc	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.99	--	Heating water operating limit temperature		WTOL	75	℃
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	2.8	kW
Standby mode		Psb	0.007	kW	Electrical				
Thermostat-off mode		Pto	0.027	kW					
Crankcase heater mode		Pck	0.000	kW	Type of energy input				
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors		-	4050	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	7090	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):	HY/R290-120B/EN7BP-3						
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/YES						
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	11.4	kW	Seasonal space heating energy efficiency	η s	120	%
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℃	Pdh	7.6	kW	Tj = -7℃	COPd	2.66	-
Tj = 2℃	Pdh	4.3	kW	Tj = 2℃	COPd	3.68	-
Tj = 7℃	Pdh	3.0	kW	Tj = 7℃	COPd	4.51	-
Tj = 12℃	Pdh	3.4	kW	Tj = 12℃	COPd	6.34	-
Tj = bivalent temperature	Pdh	9.3	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	6.8	kW	Tj = operating limit	COPd	1.32	-
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃	COPd	-	-
Bivalent temperature	Tbiv	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.90	--	Heating water operating limit temperature	WTOL	60	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.007	kW	Rated heat output (**)	Psup	4.6	kW
Standby mode	Psb	0.007	kW				
Thermostat-off mode	Pto	0.027	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	-	4050	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	9121	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energyefficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details							
(*) 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):		HY/R290-120B/EN7BP-3					
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/YES					
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	12.7	kW	Seasonal space heating energy efficiency	η_s	156	%
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	10.91	kW	Tj = 2°C	COPd	2.01	-
Tj = 7°C	Pdh	8.15	kW	Tj = 7°C	COPd	3.71	-
Tj = 12°C	Pdh	3.49	kW	Tj = 12°C	COPd	5.06	-
Tj = bivalent temperature	Pdh	8.15	kW	Tj = bivalent temperature	COPd	3.71	-
Tj = operating limit	Pdh	10.91	kW	Tj = operating limit	COPd	2.01	-
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	P _{psych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.90	--	Heating water operating limit temperature	W _{TOL}	75	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.007	kW	Rated heat output (**)	P _{sup}	1.7	kW
Standby mode	P _{sb}	0.007	kW				
Thermostat-off mode	P _{to}	0.027	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	-	4050	m³/h
Sound power level, indoors/outdoors	L _{WA}	65	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}	4250	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energyefficiency	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							
(*) 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):				HY/R290-160B/EN7BP-3					
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/YES					
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	13.8	kW	Seasonal space heating energy efficiency		η s	131	%
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	12.2	kW	Tj = -7°C		COPd	1.70	-
Tj = 2°C		Pdh	7.4	kW	Tj = 2°C		COPd	3.34	-
Tj = 7°C		Pdh	5.5	kW	Tj = 7°C		COPd	4.77	-
Tj = 12°C		Pdh	4.5	kW	Tj = 12°C		COPd	6.70	-
Tj = bivalent temperature		Pdh	12.2	kW	Tj = bivalent temperature		COPd	1.70	-
Tj = operating limit		Pdh	12.0	kW	Tj = operating limit		COPd	1.55	-
For air-to-water heat pumps: Tj = -15°C		Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C		COPd	-	-
Bivalent temperature		Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature		TOL	-10	°C
Cycling interval capacity for heating		Pcych	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.99	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	1.8	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.027	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		-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	8507	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):		HY/R290-160B/EN7BP-3							
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/YES							
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	12.9	kW	Seasonal space heating energy efficiency		η s	117	%
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	7.5	kW	Tj = -7°C		COPd	2.51	-
Tj = 2°C		Pdh	4.6	kW	Tj = 2°C		COPd	3.64	-
Tj = 7°C		Pdh	2.9	kW	Tj = 7°C		COPd	4.27	-
Tj = 12°C		Pdh	4.1	kW	Tj = 12°C		COPd	7.09	-
Tj = bivalent temperature		Pdh	10.5	kW	Tj = bivalent temperature		COPd	1.65	-
Tj = operating limit		Pdh	9.0	kW	Tj = operating limit		COPd	1.45	-
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	0.90	--	Heating water operating limit temperature		WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	3.9	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.027	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		-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	10636	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		ηwh	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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):		HY/R290-160B/EN7BP-3							
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/YES							
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	15.9	kW	Seasonal space heating energy efficiency		η_s	155	%
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	9.7	kW	Tj = 2°C		COPd	2.12	-
Tj = 7°C		Pdh	10.2	kW	Tj = 7°C		COPd	3.59	-
Tj = 12°C		Pdh	4.7	kW	Tj = 12°C		COPd	5.86	-
Tj = bivalent temperature		Pdh	10.2	kW	Tj = bivalent temperature		COPd	3.59	-
Tj = operating limit		Pdh	9.7	kW	Tj = operating limit		COPd	2.12	-
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	0.90	--	Heating water operating limit temperature		WTOL	75	°C
Power consumption in modes other than active mode				Supplementary heater					
Off mode		Poff	0.007	kW	Rated heat output (**)		Psup	6.2	kW
Standby mode		Psb	0.007	kW					
Thermostat-off mode		Pto	0.027	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		-	4050	m³/h	
Sound power level, indoors/outdoors		LWA	69	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	5362	kWh					
For heat pump combination heater:									
Declared load profile		-		Water heating energyefficiency		η_{wh}	-	%	
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details									
(*) 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

Model(s):				HY/R290-70B/EN7BP			
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	$P_{rated,c}$	7.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	287	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	7.0	kW	$T_j=+35^{\circ}\text{C}$	EER_d	4.19	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	5.2	kW	$T_j=+30^{\circ}\text{C}$	EER_d	6.06	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	3.4	kW	$T_j=+25^{\circ}\text{C}$	EER_d	8.88	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	2.0	kW	$T_j=+20^{\circ}\text{C}$	EER_d	9.99	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.007	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.021	kW	Standby mode	P_{SB}	0.007	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2650	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	62	dB	For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV				
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)				
Standard rating conditions used		Low temperature application					
Contact details							
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.							

Information requirements

Model(s):	HY/R290-70B/EN7BP							
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	$P_{rated,c}$	7.0	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	209	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	7.0	kW		$T_j=+35^{\circ}\text{C}$	EER _d	2.88	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	5.2	kW		$T_j=+30^{\circ}\text{C}$	EER _d	4.32	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	3.3	kW		$T_j=+25^{\circ}\text{C}$	EER _d	6.06	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.7	kW		$T_j=+20^{\circ}\text{C}$	EER _d	8.18	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.021	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	2650	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	62	dB		For water / brine-to-water chillers:Ratedbrine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-100B/EN7BP							
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	$P_{rated,c}$	9.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	244	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	9.5	kW		$T_j=+35^{\circ}\text{C}$	EER _d	3.99	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	7.3	kW		$T_j=+30^{\circ}\text{C}$	EER _d	5.31	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.6	kW		$T_j=+25^{\circ}\text{C}$	EER _d	6.99	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.2	kW		$T_j=+20^{\circ}\text{C}$	EER _d	8.15	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.025	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	3350	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	64	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-100B/EN7BP							
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	$P_{rated,c}$	9.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	189	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	9.5	kW		$T_j=+35^{\circ}\text{C}$	EER _d	2.55	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	7.2	kW		$T_j=+30^{\circ}\text{C}$	EER _d	3.74	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.6	kW		$T_j=+25^{\circ}\text{C}$	EER _d	5.31	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	2.9	kW		$T_j=+20^{\circ}\text{C}$	EER _d	8.09	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.025	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	3350	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	64	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):				HY/R290-120B/EN7BP			
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	$P_{rated,c}$	12.3	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	317	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	12.3	kW		$T_j=+35^{\circ}\text{C}$	EER_d	4.58	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	8.9	kW		$T_j=+30^{\circ}\text{C}$	EER_d	6.66	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.7	kW		$T_j=+25^{\circ}\text{C}$	EER_d	9.21	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	4.5	kW		$T_j=+20^{\circ}\text{C}$	EER_d	11.35	-

Degradationco-efficient for chillers(*)				C_{dc}	0.9	-				
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Power consumption in modes other than "active mode"									
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW	
Thermosat-off mode	P_{TO}	0.027	kW		Standby mode	P_{SB}	0.007	kW	

Other items									
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m^3/h	
Soundpowerlevel, indoors /outdoors	L_{WA}	65	dB						
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m^3/h	
GWP of the refrigerant	-	3	kg CO_2 eq (100years)						

Standard rating conditions used	Low temperature application								
Contact details									

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

Model(s):				HY/R290-120B/EN7BP				
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}	209	%
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}	12.2	kW		T _j =+35℃	EER _d	2.88	-
T _j =+30℃	P _{dc}	9.0	kW		T _j =+30℃	EER _d	3.77	-
T _j =+25℃	P _{dc}	6.0	kW		T _j =+25℃	EER _d	6.05	-
T _j =+20℃	P _{dc}	3.6	kW		T _j =+20℃	EER _d	9.16	-
Degradationco-efficient for chillers(*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.007	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.027	kW		Standby mode	P _{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L _{WA}	65	dB					
Emissions of nitrogen oxides(ifapplicable)	NO _x	-	mg/kWh input GCV		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-160B/EN7BP							
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	$P_{rated,c}$	16.1	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	318	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	16.1	kW		$T_j=+35^{\circ}\text{C}$	EER_d	4.14	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	11.8	kW		$T_j=+30^{\circ}\text{C}$	EER_d	6.33	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.6	kW		$T_j=+25^{\circ}\text{C}$	EER_d	9.59	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	5.9	kW		$T_j=+20^{\circ}\text{C}$	EER_d	11.66	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.027	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	69	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-160B/EN7BP			
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	
Rated cooling capacity	$P_{rated,c}$	16.1	kW	Seasonal space cooling energy efficiency
				$\eta_{s,c}$
				207
				%
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
$T_j=+35^{\circ}\text{C}$	P_{dc}	16.1	kW	$T_j=+35^{\circ}\text{C}$
$T_j=+30^{\circ}\text{C}$	P_{dc}	12.3	kW	$T_j=+30^{\circ}\text{C}$
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.6	kW	$T_j=+25^{\circ}\text{C}$
$T_j=+20^{\circ}\text{C}$	P_{dc}	4.2	kW	$T_j=+20^{\circ}\text{C}$
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-	
Power consumption in modes other than "active mode"				
Off mode	P_{OFF}	0.007	kW	Crankcase heater mode
Thermosat-off mode	P_{TO}	0.027	kW	Standby mode
Other items				
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured
Soundpowerlevel, indoors /outdoors	L_{WA}	69	dB	-
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV	4050
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)	m ³ /h
Standard rating conditions used		Medium temperature application		
Contact details				
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.				

Information requirements

Model(s):	HY/R290-100B/EN7BP-3							
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	$P_{rated,c}$	9.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	244	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	9.5	kW		$T_j=+35^{\circ}\text{C}$	EER_d	3.99	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	7.3	kW		$T_j=+30^{\circ}\text{C}$	EER_d	5.31	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.6	kW		$T_j=+25^{\circ}\text{C}$	EER_d	6.99	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.2	kW		$T_j=+20^{\circ}\text{C}$	EER_d	8.15	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.025	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	3350	m ³ /h
Soundpowerlevel, indoors /outdoors	L_{WA}	64	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m ³ /h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):				HY/R290-100B/EN7BP-3				
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}	9.5	kW		Seasonal space cooling energy efficiency	η _{s,c}	189	%
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}	9.5	kW		T _j =+35℃	EER _d	2.55	-
T _j =+30℃	P _{dc}	7.2	kW		T _j =+30℃	EER _d	3.74	-
T _j =+25℃	P _{dc}	4.6	kW		T _j =+25℃	EER _d	5.31	-
T _j =+20℃	P _{dc}	2.9	kW		T _j =+20℃	EER _d	8.09	-
Degradationco-efficient for chillers(*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.007	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.025	kW		Standby mode	P _{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	3350	m³/h
Soundpowerlevel, indoors /outdoors	L _{WA}	64	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO _x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-120B/EN7BP-3							
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	$P_{rated,c}$	12.3	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	317	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	12.3	kW		$T_j=+35^{\circ}\text{C}$	EER _d	4.58	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	8.9	kW		$T_j=+30^{\circ}\text{C}$	EER _d	6.66	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.7	kW		$T_j=+25^{\circ}\text{C}$	EER _d	9.21	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	4.5	kW		$T_j=+20^{\circ}\text{C}$	EER _d	11.35	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.027	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	65	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Low temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-120B/EN7BP-3							
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	$\eta_{s,c}$	209	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	12.2	kW		$T_j=+35^{\circ}\text{C}$	EER _d	2.88	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	9.0	kW		$T_j=+30^{\circ}\text{C}$	EER _d	3.77	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	6.0	kW		$T_j=+25^{\circ}\text{C}$	EER _d	6.05	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.6	kW		$T_j=+20^{\circ}\text{C}$	EER _d	9.16	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.027	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	65	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Information requirements

Model(s):	HY/R290-160B/EN7BP-3
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	$P_{rated,c}$	16.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	318	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	16.1	kW	$T_j=+35^{\circ}\text{C}$	EER_d	4.14	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	11.8	kW	$T_j=+30^{\circ}\text{C}$	EER_d	6.33	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.6	kW	$T_j=+25^{\circ}\text{C}$	EER_d	9.59	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	5.9	kW	$T_j=+20^{\circ}\text{C}$	EER_d	11.66	-

Degradationco-efficient for chillers(*)	C_{dc}	0.9	-				
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Power consumption in modes other than "active mode"

Off mode	P_{OFF}	0.007	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.027	kW	Standby mode	P_{SB}	0.007	kW

Other items

Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	69	dB	For water / brine-to-water chillers:Ratedbrine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV				
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)				

Standard rating conditions used	Low temperature application
Contact details	

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.

Information requirements

Model(s):	HY/R290-160B/EN7BP-3							
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	$P_{rated,c}$	16.1	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	207	%
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			
$T_j=+35^{\circ}\text{C}$	P_{dc}	16.1	kW		$T_j=+35^{\circ}\text{C}$	EER_d	2.51	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	12.3	kW		$T_j=+30^{\circ}\text{C}$	EER_d	3.86	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.6	kW		$T_j=+25^{\circ}\text{C}$	EER_d	6.12	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	4.2	kW		$T_j=+20^{\circ}\text{C}$	EER_d	8.88	-
Degradationco-efficient for chillers(*)	C_{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P_{OFF}	0.007	kW		Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.027	kW		Standby mode	P_{SB}	0.007	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	4050	m³/h
Soundpowerlevel, indoors /outdoors	L_{WA}	69	dB		For water / brine-to-water chillers:Ratedbrineor water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides(ifapplicable)	NO_x	-	mg/kWh input GCV					
GWP of the refrigerant	-	3	kg CO ₂ eq (100years)					
Standard rating conditions used		Medium temperature application						
Contact details								
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.								

Condition (°C)	Model	Capacity (kW)	Power input(kW)	EER/COP
Ambient Temperature: 35/24 Water Temperature: 12/7	HY/R290-70B/EN7BP	7.0	2.44	2.88
	HY/R290-100B/EN7BP	9.5	3.73	2.55
	HY/R290-120B/EN7BP	12.2	4.24	2.88
	HY/R290-160B/EN7BP	16.1	6.41	2.51
	HY/R290-100B/EN7BP-3	9.5	3.73	2.55
	HY/R290-120B/EN7BP-3	12.2	4.24	2.88
Ambient Temperature: 35/24 Water Temperature: 23/18	HY/R290-70B/EN7BP	7.0	1.67	4.19
	HY/R290-100B/EN7BP	9.5	2.38	3.99
	HY/R290-120B/EN7BP	12.3	2.68	4.58
	HY/R290-160B/EN7BP	16.1	3.88	4.14
	HY/R290-100B/EN7BP-3	9.5	2.38	3.99
	HY/R290-120B/EN7BP-3	12.3	2.68	4.58
Ambient Temperature: 35/24 Water Temperature: 23/18	HY/R290-160B/EN7BP-3	16.1	3.88	4.14
Ambient Temperature: 7/6 Water Temperature: 30/35	HY/R290-70B/EN7BP	7.0	1.58	4.45
	HY/R290-100B/EN7BP	9.5	2.14	4.43
	HY/R290-120B/EN7BP	12.0	2.66	4.52
	HY/R290-160B/EN7BP	15.4	3.67	4.20
	HY/R290-100B/EN7BP-3	9.5	2.14	4.43
	HY/R290-120B/EN7BP-3	12.0	2.66	4.52
Ambient Temperature: 7/6 Water Temperature: 30/35	HY/R290-160B/EN7BP-3	15.4	3.67	4.20
Ambient Temperature: 2/1 Water Temperature: 30/35	HY/R290-70B/EN7BP	7.0	2.40	2.93
	HY/R290-100B/EN7BP	9.0	3.16	2.86
	HY/R290-120B/EN7BP	11.2	3.82	2.92
	HY/R290-160B/EN7BP	16.0	6.34	2.52
	HY/R290-100B/EN7BP-3	9.0	3.16	2.86
Ambient Temperature: 2/1 Water Temperature: 30/35	HY/R290-120B/EN7BP-3	11.2	3.82	2.92
	HY/R290-160B/EN7BP-3	16.0	6.34	2.52
Ambient Temperature: -7/-8 Water Temperature: 30/35	HY/R290-70B/EN7BP	6.2	2.31	2.68
	HY/R290-100B/EN7BP	7.7	3.32	2.32
	HY/R290-120B/EN7BP	10.2	4.05	2.52
	HY/R290-160B/EN7BP	13.0	6.17	2.11
	HY/R290-100B/EN7BP-3	7.7	3.32	2.32
	HY/R290-120B/EN7BP-3	10.2	4.05	2.52
Ambient Temperature: -7/-8 Water Temperature: 30/35	HY/R290-160B/EN7BP-3	13.0	6.17	2.11
Ambient Temperature: 7/6 Water Temperature: 40/45	HY/R290-70B/EN7BP	7.0	2.11	3.32
	HY/R290-100B/EN7BP	9.5	2.86	3.31
	HY/R290-120B/EN7BP	12.0	3.59	3.35
	HY/R290-160B/EN7BP	15.1	4.82	3.13
	HY/R290-100B/EN7BP-3	9.5	2.86	3.31
	HY/R290-120B/EN7BP-3	12.0	3.59	3.35
Ambient Temperature: 7/6 Water Temperature: 40/45	HY/R290-160B/EN7BP-3	15.1	4.82	3.13
Ambient Temperature: 2/1 Water Temperature: 40/45	HY/R290-70B/EN7BP	7.1	2.70	2.63
	HY/R290-100B/EN7BP	8.8	3.65	2.41
	HY/R290-120B/EN7BP	11.2	4.59	2.45
	HY/R290-160B/EN7BP	15.5	7.01	2.21
	HY/R290-100B/EN7BP-3	8.8	3.65	2.41
Ambient Temperature: 2/1 Water Temperature: 40/45	HY/R290-120B/EN7BP-3	11.2	4.59	2.45
	HY/R290-160B/EN7BP-3	15.5	7.01	2.21
Ambient Temperature: -7/-8 Water Temperature: 40/45	HY/R290-70B/EN7BP	6.0	2.39	2.51
	HY/R290-100B/EN7BP	7.6	3.60	2.11
	HY/R290-120B/EN7BP	10.7	5.19	2.06
	HY/R290-160B/EN7BP	13.1	6.79	1.93
	HY/R290-100B/EN7BP-3	7.6	3.60	2.11
	HY/R290-120B/EN7BP-3	10.7	5.19	2.06
Ambient Temperature: -7/-8 Water Temperature: 40/45	HY/R290-160B/EN7BP-3	13.1	6.79	1.93
Ambient Temperature: 7/6 Water Temperature: 47/55	HY/R290-70B/EN7BP	7.0	2.64	2.65
	HY/R290-100B/EN7BP	9.5	3.64	2.61
	HY/R290-120B/EN7BP	12.0	4.38	2.74
	HY/R290-160B/EN7BP	15.0	5.94	2.53
	HY/R290-100B/EN7BP-3	9.6	3.66	2.61
	HY/R290-120B/EN7BP-3	12.0	4.38	2.74
Ambient Temperature: 7/6 Water Temperature: 47/55	HY/R290-160B/EN7BP-3	16.7	6.58	2.53
Ambient Temperature: 2/1 Water Temperature: 47/55	HY/R290-70B/EN7BP	6.9	2.89	2.39
	HY/R290-100B/EN7BP	8.3	4.15	2.00
	HY/R290-120B/EN7BP	11.3	5.15	2.20
	HY/R290-160B/EN7BP	12.8	7.17	1.79
	HY/R290-100B/EN7BP-3	8.3	4.15	2.00
Ambient Temperature: 2/1 Water Temperature: 47/55	HY/R290-120B/EN7BP-3	11.3	5.15	2.20
	HY/R290-160B/EN7BP-3	12.8	7.17	1.79
Ambient Temperature: -7/-8 Water Temperature: 47/55	HY/R290-70B/EN7BP	5.9	2.62	2.26
	HY/R290-100B/EN7BP	7.8	4.11	1.90
	HY/R290-120B/EN7BP	9.9	5.25	1.88
	HY/R290-160B/EN7BP	12.1	7.14	1.70
	HY/R290-100B/EN7BP-3	7.8	4.11	1.90
	HY/R290-120B/EN7BP-3	9.9	5.25	1.88
Ambient Temperature: -7/-8 Water Temperature: 47/55	HY/R290-160B/EN7BP-3	12.1	7.14	1.70

NOTE

NOTE

HYUNDAI

AIR CONDITIONING SYSTEMS

AIR-TO-WATER HEAT PUMP - MONOBLOCK

Please check the applicable models, F-GAS and manufacturer information from the "Owner's Manual - Product Fiche" in the packaging of the outdoor unit. (European Union products only).

Imported/distributed by Metalica S.A
Add: 12km Old National Road Thessaloniki – Kilkis
57008 Ionia Greece
Tel: +30 2310782962
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CPXXK-ZX-KS-W/N7BP-DPTY-01

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注意：本页不用印刷，仅对印刷颜色做要求。