XDASH06C3

HEAT PUMP

Product Sheet ver. 2024

Product Description

R290 Air to Water Heat Pumps are environmentally friendly. Propane, which is the primary component of R290, is a natural refrigerant that has a low GWP less to 3, to meet the F-gas regulation: with a GWP of at least 150 starting in 2027, and a complete phase out in 2032. Also R290 air to water heat pumps could reach A+++ and the water outlet could be up to 80℃.

Product Features

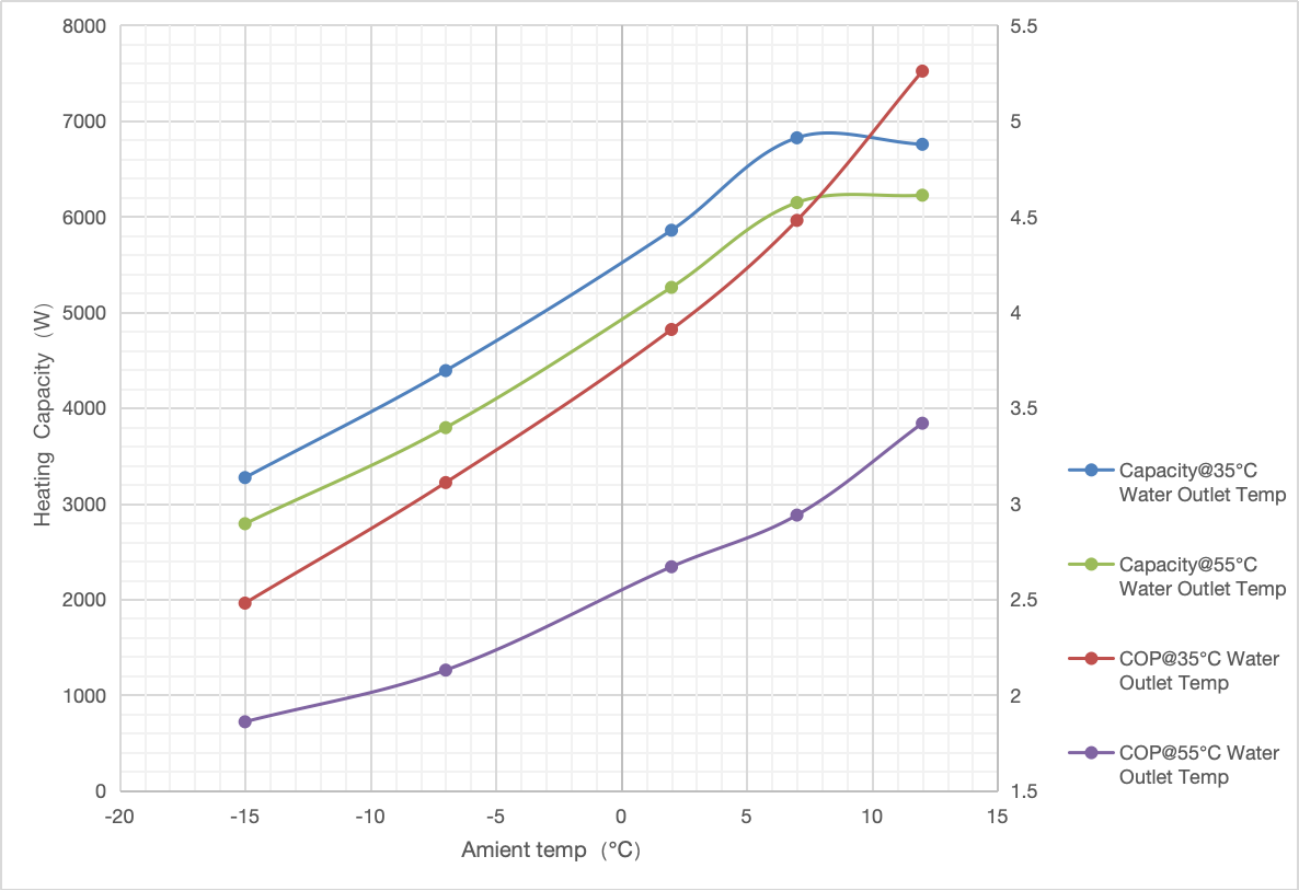
- Date and Time Setting
- WiFi Control
- LED display
- Anti-Freezing
- Electric Heating
- Intelligent Deforest Mode
- Domestic Hot Water Temperature Setting
- DC Inverter Technology
- Low Noise Mode
- Smart Control System
- Weather-Dependent Curve
- Safe Structure Inner Design
- Energy Saving Mode
- Timely Water Supply
- Failure Diagnose
- Fan Control board
- Filter PCB
- Drive PCB
- Main Controller PCB
- Finned Heat Exchanger
- Fan Blower
- Fan Motor
- Reactance
- Four-Way Valve
- Micro Bubble Valve
- Expansion Relief Valve
- Water Pump
- Water Flow Switch
- Compressor
- Plate Heat Exchanger
- Electronic Expansion Valve
- Filter
- Gas Liquid Separator
- Acoustic Cover
- Compressor Heater
- Bottom Tray Heater
- Discharge Temp.Sensor
- Suction Temp. Sensor
- Evaporating Coil Temp. Sensor
- Ambient Temp. Sensor
- Water Inlet Temp. Sensor
- Water Outlet Temp. Sensor
- Condensing Coil Temp. Sensor
- High Pressure Sensor
- Low Pressure Sensor
- Fan Guard

Heating Performance Data - XDASH06C3

Average Climate/Low Temperature[35℃]				
Operating Conditions		**Capacity**	**P**	**COP**
1	A7/30-35	5.112	1.045	4.89
2	A2/W35	5.134	1.302	3.84
3	A-15/W35	3.272	1.318	2.48
A	A-7/W34	5.950	1.525	3.9
B	A2/W30	3.283	0.560	5.86
C	A7/W27	2.625	0.277	9.48
D	A12/W24	2.669	0.187	14.27
E	A-10/W35	5.138	1.460	3.52
F	A-7/W34	5.950	1.525	3.9
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825：2022				
SCOPon			6.27	
SCOPnet			5.56	
SCOP			5.56	
η [%]			219.3	
Label			A+++	
Qh [kwh]			10743	
Pdesignh [kw]			5.2	
Tbivalent [℃]			-7	

Average Climate/Low Temperature[55℃]				
Operating Conditions		**Capacity**	**P**	**COP**
1	A7/W47-55	5.168	1.651	3.13
2	A2/W55	4.564	1.690	2.7
3	A-15/W55	2.970	1.596	1.86
A	A-7/W52	5.163	2.018	2.56
B	A2/W42	2.823	0.754	3.74
C	A7/W36	1.925	0.388	4.96
D	A12/W30	1.484	0.198	7.49
E	A-10/W55	4.415	1.958	2.25
F	A-7/W52	5.163	2.018	2.56
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825：2022				
SCOPon			3.91	
SCOPnet			3.6	
SCOP			3.6	
η [%]			141.1	
Label			A++	
Qh [kwh]			10537	
Pdesignh [kw]			5.2	
Tbivalent [℃]			-7	

Capacity Efficiency Curve - XDASH06C3



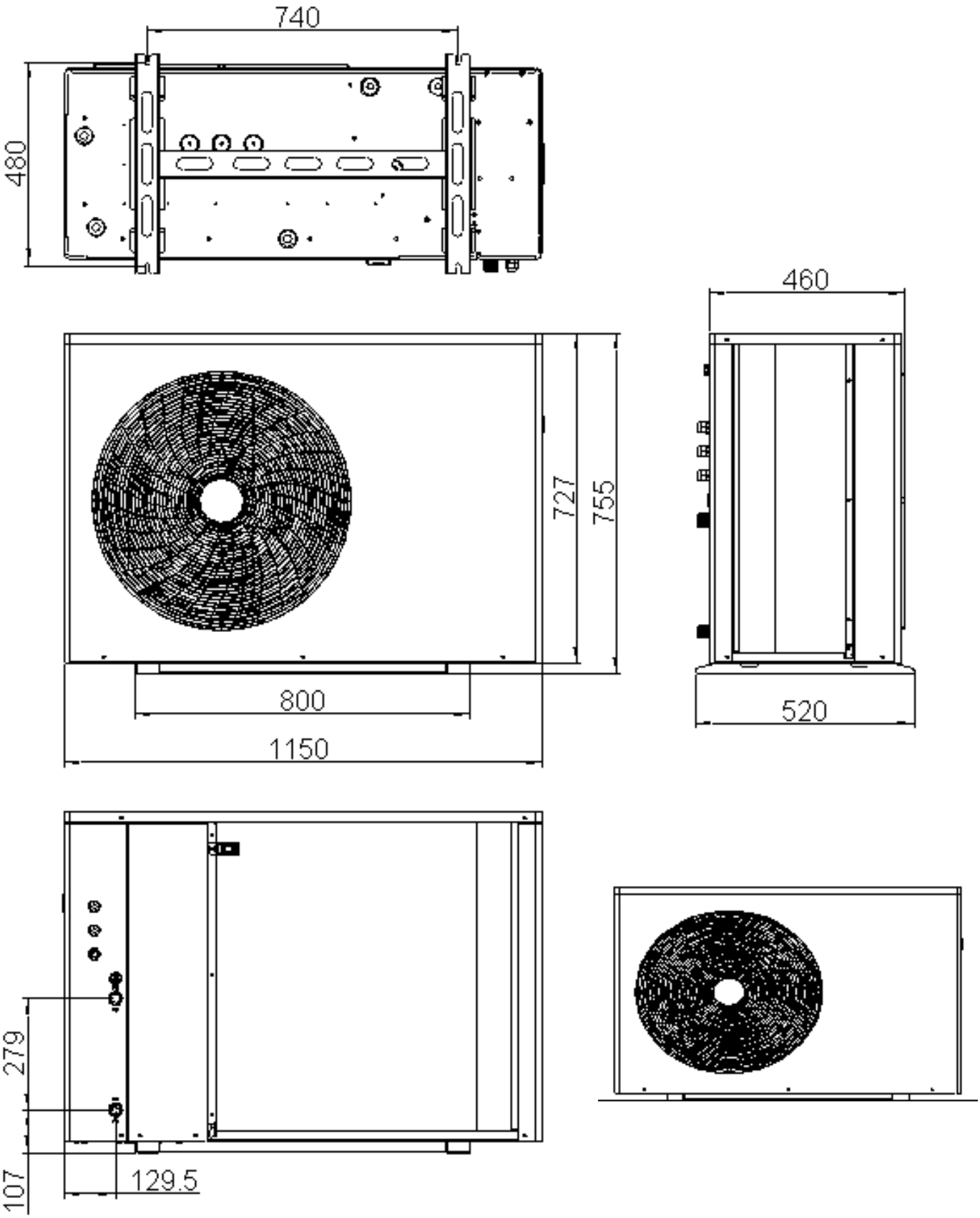
XDASH06C3 - Capacity Efficiency Curve

	Capacity@35℃ Water Outlet Temp	COP@35℃ Water Outlet Temp	Capacity@55℃ Water Outlet Temp	COP@55℃ Water Outlet Temp
-15	3272	2.48	2790	1.86
-7	4390	3.11	3794	2.13
2	5857	3.91	5260	2.67
7	6823	4.48	6146	2.94
12	6755	5.26	6223	3.42

Test report of XDASH06C3(R290)-Heating(Defrost included) 35℃ SCOP:5.56 kWh/kWh Pdesignh:5.2kW							
Amient temp(℃)	**Water OutletTemp(℃)**	**Compressor Speed (Hz)**	**Heating Capacity(W)**	**Input Power (W)**	**COP(W/W)**	**I(A)**	**Note**
DB12/WB11	55.0	79	6223	1819	3.42	7.91	
		67	5305	1513	3.51	6.58	
		55	4276	1210	3.53	5.26	
		43	3377	939	3.60	4.08	
	45.0	79	6526	1540	4.24	6.70	
		67	5605	1289	4.35	5.60	
		55	4591	1018	4.51	4.42	
		43	3687	812	4.54	3.53	
	35.0	79	6755	1283	5.26	5.58	
		67	5584	1047	5.33	4.55	
		55	4785	890	5.38	3.87	
		43	3710	666	5.57	2.90	
	24.0	30	2808	320	8.77	1.39	
DB7/WB6	55.0	90	6146	2089	2.94	9.08	
		79	5372	1783	3.01	7.75	
		67	4566	1487	3.07	6.47	No Ice
		55	3750	1199	3.13	5.21	
		43	2992	927	3.23	4.03	
	45.0	90	6633	1815	3.65	7.89	
		79	5850	1542	3.79	6.70	
		67	4979	1295	3.85	5.63	
		55	4018	1030	3.90	4.48	
		43	3195	801	3.99	3.48	
		30	1985	454	4.37	1.97	
	35.0	90	6823	1522	4.48	6.62	
		79	5999	1312	4.57	5.70	
		67	5136	1067	4.82	4.64	
		55	4209	862	4.88	3.75	
		43	3388	682	4.97	2.96	
		30	2125	401	5.30	1.74	
	27.0	30	2343	370	6.33	1.61	
DB2/WB1	55.0	90	5260	1970	2.67	8.57	
		79	4564	1690	2.70	7.35	Ice and defrosted
		67	3820	1408	2.71	6.12	
		55	3229	1176	2.75	5.11	Small ice
		43	2590	900	2.88	3.91	
	45.0	90	5565	1695	3.28	7.37	
		79	4897	1432	3.42	6.23	Ice and defrosted
		67	4155	1207	3.44	5.25	
		55	3552	994	3.57	4.32	Small ice
		43	2781	755	3.68	3.28	
	35.0	90	5857	1500	3.91	6.52	
		79	5134	1302	3.94	5.66	Ice and defrosted
		67	4285	1071	4.00	4.66	
		55	3551	826	4.30	3.59	Small ice
		43	2882	662	4.35	2.88	
	30.0	43	3070	639	4.81	2.78	Small ice

Test report of XDASH06C3(R290)-Heating(Defrost included) 35℃ SCOP:5.56 kWh/kWh Pdesignh:5.2kW							
Amient temp(℃)	**Water OutletTemp(℃)**	**Compressor Speed (Hz)**	**Heating Capacity(W)**	**Input Power (W)**	**COP(W/W)**	**I(A)**	**Note**
DB-7/WB-8	55.0	90	3794	1785	2.13	7.76	Small ice
		79	3329	1529	2.18	6.65	
		67	2961	1343	2.21	5.84	
		55	2323	1042	2.23	4.53	
		43	1937	834	2.32	3.63	
	45.0	90	4168	1575	2.65	6.85	
		79	3651	1358	2.69	5.90	
		67	3046	1119	2.72	4.87	
		55	2524	909	2.78	3.95	
		43	1915	670	2.86	2.91	
	35.0	90	4390	1414	3.11	6.15	
		79	3865	1233	3.13	5.36	
		67	3268	1035	3.16	4.50	
		55	2748	848	3.24	3.69	
		43	1995	600	3.33	2.61	
	34.0	90	4466	1386	3.22	6.03	
DB-10/WB-11	35.3	90	4089	1391	2.94	6.05	
DB-15/WB-16	55.0	90	2970	1596	1.86	6.94	Small ice
		79	2649	1394	1.90	6.06	
		67	2308	1182	1.95	5.14	
		55	1992	985	2.02	4.28	
		43	1610	771	2.09	3.35	
	45.0	90	3066	1452	2.11	6.31	
		79	2760	1283	2.15	5.58	
		67	2375	1076	2.21	4.68	
		55	2011	893	2.25	3.88	
		43	1535	655	2.34	2.85	
	35.0	90	3272	1318	2.48	5.73	
		79	2964	1163	2.55	5.06	
		67	2523	983	2.57	4.27	
		55	2105	809	2.60	3.52	
		43	1620	616	2.63	2.68	

XDASH06C3



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