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苏州为山之环境技术有限公司

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Rev:202604

# WW系列

## 热泵烘干应用涡旋压缩机

Scroll Compressor for Heat Pump & Stoving Application

# R290



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## 苏州为山环境技术有限公司

成立于2018年6月，专注于开发节能环保型压缩机，是一家创新型科技企业。为山之研发的涡旋式热泵压缩机核心技术已取得重大突破，并成功应用于多个领域，包括但不限于工业制冷、商用热水、工业蒸汽、农业烘干、制冷工程、精密空调、轨道交通制冷、转轮除湿及工业余热回收等。公司拥有先进的自动化生产线和高精度检测与加工设备，创新工艺流程，产品覆盖从2匹至25匹。公司产品通过了CCC、CE、CB、ROHS & REACH和ISO 9001等多项国际认证。

公司高度重视知识产权保护，产品已获得多项专利证书，公司荣获江苏省民营科技企业和国家级高新技术企业称号。

展望未来，公司将继续加大研发投入，致力于为客户提供绿色环保的热泵及冷冻压缩机解决方案，以减少全球碳排放为使命，为构建绿色地球家园贡献力量。

## Suzhou Weishans Climate Technology Co., Ltd

was established in June 2018, and focuses on the development of energy-saving and environment protection compressors. It is an innovative technology enterprise. The core technology of the scroll heat pump compressors developed by Weishans has made significant breakthroughs and has been successfully applied in multiple fields, including but not limited to industrial refrigeration, commercial hot water, industrial steam, agricultural drying, refrigeration engineering, precision air conditioning, rail transit refrigeration, rotary wheel dehumidification and industrial waste heat recovery, etc.

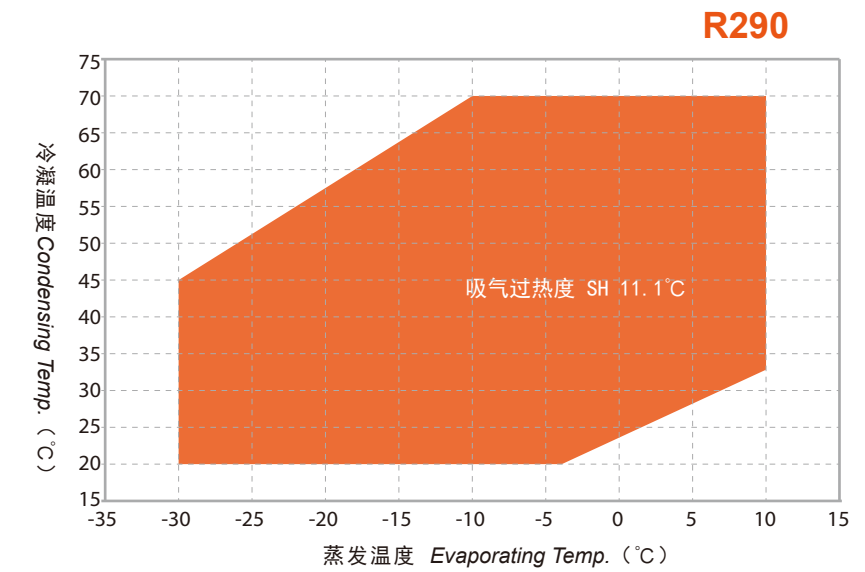
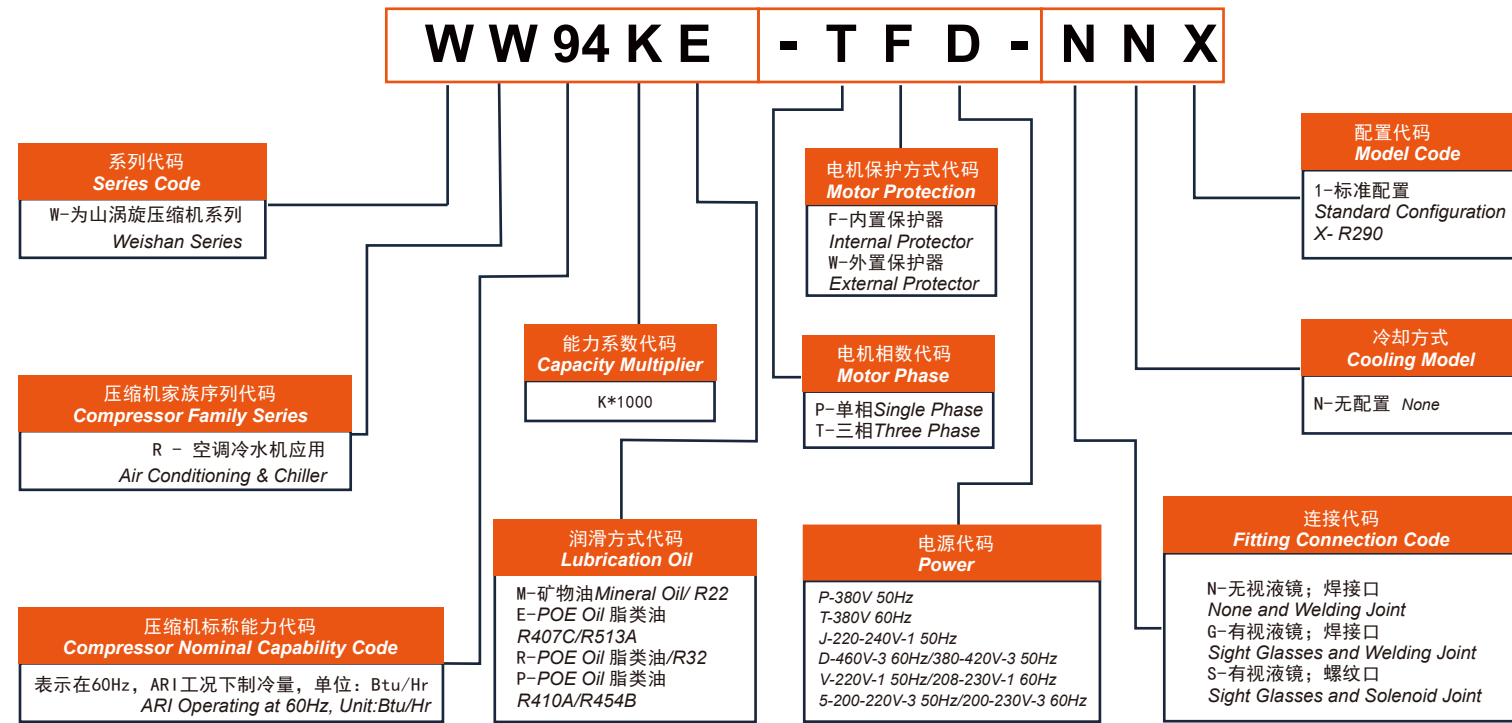
The company owns advanced automated production lines and high-precision testing and machining equipments, innovated technological process, with products covering the range from 2HP to 25HP. The company's products have passed multiple international certifications including CCC, CE, CB, ROHS & REACH and ISO 9001.

The company attaches great importance to the protection of intellectual property rights and has obtained several patent certificates. The company has been awarded the titles of Jiangsu Private Technology Enterprise and National High-tech Enterprise.

Looking forward to the future, the company will continue to increase investment in research and development, and is committed to providing customers with green and environmentally heat pump and refrigeration compressor solutions. With the mission of reducing global carbon emissions, it will contribute to building a green Earth home.

Build a Nine-ren Mountain  
Forge Ahead  
为山九仞 砥砺前行





型号 Model	WW24KE-TFD- NNX	WW34KE-TFD- NNX	WW48KE-TFD- NNX	WW61KE-TFD- NNX	WW72KE-TFD- NNX	WW79KE-TFD- NNX	WW94KE-TFD- NNX	
电制 Motor Power	380-420V/3~/50Hz or 460V/3~/60Hz							
名义功率 Nominal Power (HP)	2	3	4	5	6	7	8	
排量 Displacement (cc/Rev)	32.3	50.6	63.9	84.5	98.9	108	127	
制冷剂 Refrigerant	R290							
名义制冷量 Nominal Capacity (W)	6212	8690	12523	16212	19117	20548	24594	
名义输入功率 Nominal Power (W)	1600	2197	3027	3912	4525	4974	5919	
名义工况能效比 COP (W/W)	3.88	3.96	4.14	4.14	4.22	4.13	4.16	
名义工况电流 Nominal Operating Current (A)	2.8	3.9	5.4	6.9	8.0	8.8	10.5	
堵转电流 LRA (A)	38.8	38.8	38.8	59.3	83.6	83.6	117	
最大运行电流 MOC (A)	5.4	7.3	9.4	12.0	14.3	15.6	18.4	
曲轴箱加热器功率 Crankcase Heater (W)	70						90	
接管尺寸 Fitting ID Size (mm)	排气管 Dis. Tube	12.94-13.10					22.37-22.51	
	吸气管 Suc. Tube	22.37-22.51					34.97-35.10	
外形尺寸 Dimension (mm)	长(L)	244.8			257.01		283.04	
	宽(W)	230.5			230.5		240.5	
	高(H)	402.55			442.7		522.7	
底脚安装尺寸 Mounting Dim.(Dia.) (mm)	190.5x190.5							
润滑油类型 Lubrication Oil	POE							
润滑油初次充注量 Lubrication Oil Initial Charge (L)	1.4	1.4	1.4	1.4	1.8	1.8	3	
润滑油重新充注量 Lubrication Oil Recharge (L)	1.2	1.2	1.2	1.2	1.6	1.6	2.8	
最大工作压力 Maxium Operating Pressure (MPa)	高压侧 High Pressure Side	3.0						
	低压侧 Low Pressure Side	2.0						
重量 Weight (kg)	28	28	28	31	38	38	66	

注: 蒸发5.0°C, 冷凝55.0°C, 过热11.1K, 过冷8.3K, 环温35.0°C  
Note: Evaporating Temperature 5.0°C, Condensing Temperating 55.0°C, Superheating 11.1K, Subcooling 8.3K, Ambient Temperating 35.0°C

型号 Model	WW108KE-TFD- NNX	WW125KE-TFD- NNX	WW138KE-TFD- NNX	WW154KE-TFD- NNX	WW170KE-TFD- NNX	WW250KE-TWD- GNX	WW300KE-TWD- GNX	
电制 Motor Power	380-420V/3~/50Hz or 460V/3~/60Hz							
名义功率 Nominal Power (HP)	9	10	12	13	15	20	25	
排量 Displacement (cc/Rev)	147.7	166.1	190.8	209	248.9	325	400	
制冷剂 Refrigerant	R290							
名义制冷量 Nominal Capacity (W)	28788	32631	37198	40816	48870	63812	78538	
名义输入功率 Nominal Power (W)	6985	7893	8556	9702	11800	15407	18963	
名义工况能效比 COP (W/W)	4.12	4.13	4.35	4.21	4.14	4.14	4.14	
名义工况电流 Nominal Operating Current (A)	12.3	13.9	15.1	17.1	20.9	27.2	33.5	
堵转电流 LRA (A)	117	117	117	117	117	267.9	304	
最大运行电流 MOC (A)	21.3	24.0	27.6	30.2	36.0	47.0	57.8	
曲轴箱加热器功率 Crankcase Heater (W)	90							
接管尺寸 Fitting ID Size (mm)	排气管 Dis. Tube	22.37-22.51		22.37-22.51			28.81-28.95	
	吸气管 Suc. Tube	34.97-35.10		34.97-35.10			34.97-35.10	
外形尺寸 Dimension (mm)	长(L)	283.04		283.04			296.05	
	宽(W)	240.5		235.5			286.05	
	高(H)	522.7		522.7			653.7	
底脚安装尺寸 Mounting Dim.(Dia.) (mm)	190.5x190.5							
润滑油类型 Lubrication Oil	POE							
润滑油初次充注量 Lubrication Oil Initial Charge (L)	3	3	3.2	3.2	3.2	5	5	
润滑油重新充注量 Lubrication Oil Recharge (L)	2.8	2.8	3	3	3	4.8	4.8	
最大工作压力 Maxium Operating Pressure (MPa)	高压侧 High Pressure Side	3.0						
	低压侧 Low Pressure Side	2.0						
重量 Weight (kg)	66	66	66	66	66	92	92	

注: 蒸发5.0°C, 冷凝55.0°C, 过热11.1K, 过冷8.3K, 环温35.0°C  
Note: Evaporating Temperature 5.0°C, Condensing Temperating 55.0°C, Superheating 11.1K, Subcooling 8.3K, Ambient Temperating 35.0°C

型号Model	项目Item (kW)	Tc/Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
WW24KE-TFD-NNX	Q	70°C					3.87	4.36	4.92	5.56	6.29
	P						1.71	1.78	1.85	1.91	1.95
	Q	65°C					3.99	4.51	5.11	5.78	6.56
	P						1.64	1.71	1.76	1.81	1.85
	Q	60°C				3.62	4.1	4.65	5.28	6	6.83
	P					1.51	1.57	1.62	1.67	1.71	1.74
	Q	55°C			3.25	3.69	4.2	4.78	5.45	6.21	7.09
	P				1.37	1.43	1.48	1.52	1.57	1.6	1.63
	Q	50°C		2.87	3.28	3.75	4.28	4.9	5.61	6.42	7.35
	P			1.24	1.29	1.33	1.38	1.42	1.46	1.49	1.51
	Q	45°C	2.5	2.87	3.3	3.79	4.36	5.01	5.76	6.63	7.61
	P			1.1	1.14	1.19	1.23	1.27	1.31	1.34	1.37
	Q	40°C	2.47	2.86	3.31	3.83	4.43	5.12	5.92	6.83	7.87
	P			1	1.04	1.07	1.11	1.15	1.19	1.22	1.25
	Q	35°C	2.43	2.84	3.31	3.86	4.5	5.23	6.07	7.04	8.14
	P			0.88	0.91	0.95	0.98	1.02	1.06	1.09	1.13
	Q	30°C	2.38	2.81	3.31	3.89	4.56	5.34	6.23	7.25	
	P			0.74	0.77	0.81	0.85	0.88	0.92	0.96	1
Q	25°C	2.32	2.77	3.3	3.91	4.62	5.45	6.39			
P			0.59	0.62	0.66	0.7	0.74	0.78	0.83		
Q	20°C	2.25	2.72	3.28	3.93	4.69	5.56				
P			0.42	0.45	0.49	0.54	0.59	0.64			
WW34KE-TFD-NNX	Q	70°C					5.39	6.08	6.87	7.76	8.79
	P						2.34	2.45	2.54	2.62	2.68
	Q	65°C					5.57	6.29	7.13	8.08	9.17
	P						2.25	2.34	2.42	2.49	2.54
	Q	60°C			5.05	5.72	6.49	7.37	8.39	9.55	
	P				2.07	2.15	2.22	2.29	2.34	2.39	
	Q	55°C			4.52	5.15	5.86	6.67	7.61	8.69	9.92
	P				1.88	1.96	2.03	2.09	2.15	2.2	2.24
	Q	50°C		4	4.57	5.23	5.98	6.85	7.84	8.99	10.29
	P			1.7	1.77	1.83	1.89	1.95	2	2.04	2.08
	Q	45°C	3.47	4.01	4.61	5.3	6.1	7.01	8.07	9.28	10.67
	P			1.51	1.57	1.63	1.69	1.74	1.79	1.84	1.88
	Q	40°C	3.44	4	4.63	5.36	6.2	7.17	8.29	9.58	11.04
	P			1.37	1.42	1.48	1.53	1.58	1.67	1.72	1.76
	Q	35°C	3.39	3.97	4.63	5.4	6.3	7.33	8.52	9.88	11.42
	P			1.2	1.25	1.3	1.35	1.4	1.45	1.5	1.55
	Q	30°C	3.32	3.93	4.63	5.45	6.39	7.48	8.74	10.18	
	P			1.02	1.06	1.11	1.16	1.21	1.27	1.32	1.38
Q	25°C	3.24	3.88	4.62	5.48	6.48	7.64	8.97			
P			0.81	0.85	0.9	0.96	1.01	1.07	1.14		
Q	20°C	3.15	3.82	4.6	5.52	6.58	7.8				
P			0.58	0.62	0.68	0.74	0.81	0.88			
WW48KE-TFD-NNX	Q	70°C					7.7	8.69	9.82	11.13	12.63
	P						3.23	3.37	3.5	3.61	3.7
	Q	65°C					7.95	9.01	10.22	11.61	13.2
	P						3.11	3.23	3.33	3.43	3.5
	Q	60°C			7.21	8.19	9.31	10.59	12.07	13.77	
	P				2.85	2.96	3.07	3.15	3.23	3.29	
	Q	55°C			6.46	7.37	8.4	9.58	10.95	12.52	14.32
	P				2.59	2.7	2.8	2.88	2.96	3.03	3.08
	Q	50°C		5.71	6.55	7.5	8.59	9.85	11.3	12.97	14.88
	P			2.34	2.43	2.53	2.61	2.69	2.75	2.81	2.87
	Q	45°C	4.96	5.73	6.6	7.61	8.77	10.1	11.64	13.41	15.44
	P			2.08	2.16	2.25	2.33	2.4	2.47	2.54	2.59
	Q	40°C	4.92	5.72	6.64	7.7	8.93	10.35	11.98	13.86	16
	P			1.89	1.96	2.03	2.11	2.17	2.24	2.31	2.37
	Q	35°C	4.86	5.7	6.67	7.79	9.09	10.59	12.33	14.31	16.57
	P			1.66	1.73	1.79	1.86	1.93	2	2.07	2.14
	Q	30°C	4.77	5.65	6.68	7.86	9.24	10.84	12.67	14.77	
	P			1.4	1.46	1.53	1.6	1.67	1.75	1.82	1.9
Q	25°C	4.67	5.6	6.68	7.94	9.4	11.08	13.02			
P			1.11	1.17	1.24	1.32	1.4	1.48	1.57		
Q	20°C	4.56	5.53	6.67	8.01	9.55	11.34				
P			0.79	0.86	0.93	1.02	1.11	1.21			

注：以上数据基于 11.1K 吸气过热度，8.3K 过冷度  
Note: The above data are based on 11.1k supheating and 8.3k subcooling.

型号Model	项目Item (kW)	Tc/Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
WW61KE-TFD-NNX	Q	70°C					9.96	11.24	12.72	14.41	16.34
	P						4.17	4.36	4.52	4.66	4.78
	Q	65°C					10.29	11.66	13.22	15.02	17.09
	P						4.01	4.17	4.31	4.43	4.52
	Q	60°C				9.33	10.6	12.04	13.71	15.62	17.82
	P					3.68	3.83	3.96	4.08	4.18	4.26
	Q	55°C			8.36	9.53	10.87	12.41	14.18	16.21	18.54
	P				3.35	3.49	3.61	3.73	3.83	3.91	3.98
	Q	50°C		7.39	8.47	9.7	11.12	12.75	14.63	16.79	19.27
	P			3.02	3.15	3.26	3.37	3.47	3.56	3.64	3.7
	Q	45°C	6.42	7.42	8.55	9.85	11.35	13.08	15.08	17.37	19.99
	P			2.69	2.8	2.9	3.01	3.1	3.19	3.28	3.35
	Q	40°C	6.37	7.41	8.6	9.97	11.56	13.4	15.52	17.95	20.72
	P			2.44	2.53	2.63	2.72	2.81	2.9	2.98	3.06
	Q	35°C	6.29	7.37	8.63	10.08	11.77	13.72	15.96	18.53	21.46
	P			2.15	2.23	2.32	2.41	2.5	2.58	2.67	2.76
	Q	30°C	6.18	7.32	8.64	10.18	11.97	14.03	16.41	19.12	
	P			1.81	1.89	1.98	2.07	2.16	2.26	2.35	2.46
Q	25°C	6.05	7.25	8.65	10.28	12.17	14.35	16.86			
P			1.44	1.52	1.61	1.7	1.81	1.91	2.03		
Q	20°C	5.9	7.17	8.64	10.37	12.37	14.68				
P			1.02	1.11	1.21	1.32	1.43	1.56			
WW72KE-TFD-NNX	Q	70°C					11.69	13.21	14.95	16.95	19.25
	P						4.82	5.04	5.23	5.39	5.53
	Q	65°C					12.09	13.71	15.56	17.69	20.14
	P						4.64	4.82	4.98	5.12	5.23
	Q	60°C			10.96	12.46	14.17	16.14	18.41	21.01	
	P				4.26	4.43	4.58	4.72	4.83	4.92	
	Q	55°C			9.82	11.21	12.79	14.61	16.71	19.12	21.88
	P				3.88	4.03	4.18	4.31	4.43	4.52	4.61
	Q	50°C		8.68	9.96	11.41	13.09	15.02	17.25	19.81	22.75
	P			3.49	3.64	3.77	3.9	4.01	4.12	4.21	4.28
	Q	45°C	7.54	8.71	10.05	11.59	13.37	15.42	17.79	20.51	23.61
	P			3.11	3.24	3.36	3.48	3.59	3.69	3.79	3.88
	Q	40°C	7.48	8.71	10.12	11.75	13.63	15.81	18.32	21.2	24.49
	P			2.82	2.93	3.04	3.15	3.25	3.35	3.45	3.54
	Q	35°C	7.4	8.68	10.17	11.89	13.89	16.19	18.85	21.9	25.37
	P			2.48	2.58	2.68	2.78	2.89	2.99	3.09	3.19
	Q	30°C	7.28	8.63	10.2	12.02	14.13	16.58	19.39	22.61	
	P			2.1	2.19	2.29	2.39	2.5	2.61	2.72	2.84
Q	25°C	7.13	8.55	10.21	12.14	14.38	16.97	19.94			
P			1.66	1.76	1.86	1.97	2.09	2.21	2.35		
Q	20°C	6.97	8.47	10.22	12.26	14.63	17.37				
P			1.18	1.28	1.4	1.52	1.66	1.81			
WW79KE-TFD-NNX	Q	70°C					12.63	14.26	16.12	18.26	20.72
	P						5.3	5.54	5.75	5.93	6.08
	Q	65°C					13.06	14.78	16.77	19.05	21.66
	P						5.1	5.3	5.48	5.63	5.75
	Q	60°C			11.84	13.44	15.27	17.38	19.81	22.59	
	P				4.68	4.87	5.04	5.18	5.31	5.41	
	Q	55°C			10.61	12.09	13.78	15.73	17.97	20.55	23.5
	P				4.26	4.44	4.59	4.74	4.86	4.97	5.07
	Q	50°C		9.38	10.74	12.3	14.1	16.16	18.54	21.28	24.41
	P			3.84	4	4.15	4.29	4.41	4.52	4.62	4.71
	Q	45°C	8.14	9.4	10.84	12.49	14.39	16.58	19.11	22.01	25.33
	P			3.41	3.56	3.69	3.82	3.95	4.06	4.17	4.26
	Q	40°C	8.08	9.39	10.9	12.64	14.66	16.98	19.66	22.74	26.25
	P			3.1	3.22	3.34	3.46	3.57	3.68	3.79	3.89
	Q	35°C	7.97	9.35	10.94	12.78	14.91	17.38	20.22	23.48	27.19
	P			2.73	2.84	2.95	3.06	3.17	3.29	3.4	3.51

型号Model	项目Item (kW)	Tc/Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
WW94KE-TFD-NNX	Q	70°C					15.1	17.05	19.28	21.85	24.79
	P						6.31	6.59	6.84	7.05	7.23
	Q	65°C					15.61	17.68	20.06	22.79	25.92
	P						6.07	6.31	6.52	6.7	6.84
	Q	60°C				14.15	16.07	18.27	20.79	23.7	27.03
	P					5.57	5.79	5.99	6.17	6.32	6.44
	Q	55°C			12.68	14.45	16.48	18.82	21.5	24.59	28.13
	P				5.07	5.28	5.47	5.64	5.79	5.92	6.03
	Q	50°C		11.21	12.85	14.71	16.86	19.34	22.2	25.48	29.23
	P			4.57	4.76	4.94	5.1	5.25	5.38	5.5	5.6
	Q	45°C	9.73	11.24	12.96	14.94	17.21	19.84	22.87	26.35	30.33
	P		4.06	4.23	4.39	4.55	4.69	4.83	4.96	5.07	5.17
	Q	40°C	9.66	11.23	13.04	15.13	17.54	20.33	23.54	27.23	31.44
	P		3.69	3.83	3.98	4.12	4.25	4.38	4.51	4.63	4.74
	Q	35°C	9.53	11.19	13.09	15.3	17.85	20.81	24.22	28.12	32.57
	P		3.25	3.38	3.51	3.64	3.78	3.91	4.04	4.18	4.3
	Q	30°C	9.37	11.1	13.11	15.45	18.16	21.29	24.9	29.02	
	P		2.74	2.86	2.99	3.13	3.27	3.41	3.56	3.72	
Q	25°C	9.18	11	13.12	15.59	18.46	21.78	25.59			
P		2.17	2.3	2.43	2.58	2.73	2.9	3.07			
Q	20°C	8.95	10.87	13.12	15.73	18.77	22.28				
P		1.55	1.68	1.83	1.99	2.17	2.36				
WW108KE-TFD-NNX	Q	70°C					17.71	19.99	22.6	25.59	29.03
	P						7.44	7.78	8.07	8.32	8.53
	Q	65°C					18.3	20.72	23.5	26.69	30.35
	P						7.17	7.45	7.69	7.9	8.08
	Q	60°C				16.59	18.83	21.4	24.35	27.75	31.64
	P					6.57	6.84	7.07	7.28	7.46	7.6
	Q	55°C			14.87	16.94	19.31	22.04	25.18	28.79	32.92
	P				5.98	6.23	6.45	6.65	6.83	6.99	7.11
	Q	50°C		13.14	15.06	17.24	19.75	22.65	25.98	29.81	34.2
	P			5.39	5.62	5.83	6.02	6.2	6.35	6.49	6.61
	Q	45°C	11.41	13.18	15.19	17.5	20.16	23.23	26.77	30.83	35.48
	P		4.8	4.99	5.19	5.37	5.54	5.7	5.85	5.99	6.11
	Q	40°C	11.32	13.16	15.28	17.71	20.53	23.79	27.54	31.85	36.77
	P		4.35	4.52	4.69	4.86	5.02	5.17	5.32	5.46	5.59
	Q	35°C	11.17	13.1	15.33	17.9	20.89	24.35	28.32	32.88	38.07
	P		3.83	3.98	4.14	4.3	4.46	4.61	4.77	4.93	5.08
	Q	30°C	10.98	13	15.35	18.08	21.24	24.9	29.11	33.93	
	P		3.23	3.38	3.53	3.69	3.86	4.03	4.2	4.38	
Q	25°C	10.74	12.87	15.35	18.24	21.59	25.46	29.92			
P		2.57	2.71	2.87	3.04	3.22	3.42	3.62			
Q	20°C	10.47	12.72	15.34	18.39	21.94	26.04				
P		1.83	1.98	2.16	2.35	2.56	2.79				
WW125KE-TFD-NNX	Q	70°C					20.06	22.64	25.6	29	32.9
	P						8.41	8.79	9.12	9.4	9.64
	Q	65°C					20.73	23.47	26.62	30.24	34.4
	P						8.1	8.42	8.69	8.93	9.13
	Q	60°C				18.79	21.34	24.25	27.6	31.45	35.87
	P					7.43	7.72	7.99	8.23	8.42	8.59
	Q	55°C			16.84	19.19	21.88	24.98	28.54	32.63	37.32
	P				6.76	7.04	7.29	7.52	7.72	7.89	8.04
	Q	50°C		14.89	17.06	19.54	22.38	25.67	29.45	33.8	38.77
	P			6.1	6.35	6.58	6.8	7	7.18	7.34	7.47
	Q	45°C	12.93	14.93	17.21	19.83	22.84	26.33	30.34	34.95	39.22
	P		5.42	5.64	5.86	6.07	6.26	6.44	6.61	6.76	6.9
	Q	40°C	12.82	14.92	17.31	20.08	23.27	26.97	31.23	36.11	41.69
	P		4.92	5.11	5.3	5.49	5.67	5.85	6.01	6.17	6.32
	Q	35°C	12.66	14.85	17.37	20.29	23.68	27.6	32.11	37.28	43.18
	P		4.33	4.5	4.68	4.86	5.03	5.21	5.39	5.57	5.74
	Q	30°C	12.44	14.73	17.4	20.49	24.08	28.23	33.01	38.48	
	P		3.66	3.82	3.99	4.17	4.36	4.55	4.75	4.95	
Q	25°C	12.17	14.59	17.4	20.68	24.48	28.87	33.93			
P		2.9	3.06	3.24	3.43	3.64	3.86	4.09			
Q	20°C	11.88	14.42	17.39	20.86	24.88	29.53				
P		2.07	2.24	2.44	2.65	2.89	3.15				

注：以上数据基于 11.1K 吸气过热度，8.3K 过冷度  
Note: The above data are based on 11.1k supheating and 8.3k subcooling.

型号Model	项目Item (kW)	Tc/Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
WW138KE-TFD-NNX	Q	70°C					22.6	25.57	28.97	32.88	37.38
	P						9.12	9.53	9.89	10.19	10.45
	Q	65°C					23.4	26.56	30.18	34.36	39.15
	P						8.78	9.12	9.42	9.68	9.89
	Q	60°C				21.21	24.13	27.49	31.35	35.79	40.89
	P					8.05	8.37	8.66	8.92	9.13	9.31
	Q	55°C			19	21.7	24.8	28.36	32.47	37.2	42.62
	P				7.33	7.63	7.9	8.15	8.37	8.56	8.71
	Q	50°C		16.79	19.28	22.13	25.41	29.2	33.57	38.59	44.34
	P			6.61	6.88	7.14	7.37	7.59	7.78	7.95	8.1
	Q	45°C	14.57	16.87	19.49	22.51	25.99	30.01	34.64	39.97	46.06
	P		5.87	6.12	6.35	6.58	6.79	6.98	7.16	7.33	7.48
	Q	40°C	14.49	16.89	19.65	22.84	26.53	30.79	35.71	41.36	47.8
	P		5.33	5.54	5.75	5.95	6.15	6.34	6.52	6.69	6.85
	Q	35°C	14.34	16.86	19.77	23.14	27.05	31.57	36.78	42.76	49.57
	P		4.69	4.88	5.07	5.26	5.46	5.65	5.84	6.04	6.22
	Q	30°C	14.13	16.78	19.85	23.42	27.56	32.35	37.87	44.18	
	P		3.96	4.14	4.32	4.52	4.72	4.93	5.15	5.37	
Q	25°C	13.88	16.66	19.91	23.69	28.07	33.15	38.98			
P		3.14	3.32	3.51	3.72	3.95	4.19	4.44			
Q	20°C	13.6	16.53	19.96	23.95	28.6	33.96				
P		2.24	2.43	2.64	2.88	3.14	3.41				
WW154KE-TFD-NNX	Q	70°C					24.98	28.23	31.94	36.21	41.11
	P						10.34	10.8	11.21	11.56	11.85
	Q	65°C					25.84	29.28	33.24	37.78	43
	P						9.96	10.34	10.69	10.98	11.22
	Q	60°C				23.43	26.61	30.27	34.48	39.32	44.87
	P					9.13	9.5	9.82	10.11	10.36	10.56
	Q	55°C			20.99	23.94	27.32	31.2	35.67	40.82	46.71
	P				8.31	8.65	8.96	9.24	9.49	9.7	9.88
	Q	50°C		18.55	21.27	24.38	27.96	32.08	36.83	42.3	48.55
	P			7.49	7.8	8.09	8.36	8.61	8.83	9.02	9.19
	Q	45°C	16.1	18.62	21.48	24.76	28.55	32.93	37.97	43.77	50.39
	P		6.66	6.94	7.2	7.46	7.7	7.92	8.12	8.31	8.48
	Q	40°C	15.99	18.61	21.62	25.09	29.11	33.75	39.1	45.24	52.25
	P		6.05	6.28	6.52	6.75	6.97	7.18	7.39	7.59	7.77
	Q	35°C	15.8	18.54	21.71	25.39	29.64	34.57	40.24	46.73	54.14
	P		5.32	5.53	5.75	5.97	6.19	6.41	6.63	6.84	7.06
	Q	30°C	15.54	18.42	21.77	25.65	30.16	35.38	41.38	48.25	
	P		4.49	4.69	4.9	5.13	5.36	5.6	5.84	6.09	
Q	25°C	15.23	18.26	21.79	25.91	30.68	36.21	42.55			
P		3.56	3.76	3.98	4.22	4.48	4.75	5.03			
Q	20°C	14.88	18.07	21.8	26.16	31.22	37.06				
P		2.54	2.75	3	3.26	3.56	3.87				
WW170KE-TFD-NNX	Q	70°C					30.02	33.9	38.33	43.43	49.27
	P						12.57	13.14	13.63	14.06	14.41
	Q	65°C					31.03	35.15	39.87	45.29	51.51
	P						12.11	12.58	13	13.35	13.64
	Q	60°C				28.14	31.94	36.31	41.33	47.1	53.72
	P					11.1	11.55	11.95	12.3	12.59	12.84
	Q	55°C			25.22	28.74	32.77	37.4	42.74	48.87	55.9
	P				10.11	10.52	10.9	11.24	11.54	11.8	12.02
	Q	50°C		22.29	25.54	29.25	33.52	38.44	44.1	50.62	58.07
	P			9.11	9.49	9.84	10.17	10.47	10.73	10.97	11.17
	Q	45°C	19.35	22.36	25.77	29.69	34.21	39.43	45.44	52.35	60.25
	P		8.1	8.44	8.76	9.07	9.36	9.63	9.88	10.11	10.31
	Q	40°C	19.2	22.33	25.92	30.06	34.86	40.39	46.77	54.09	62.45
	P		7.35	7.64	7.93	8.2	8.48	8.74	8.99	9.23	9.45
	Q	35°C	18.95	22.23	26.01	30.39	35.47	41.34	48.1	55.85	64.68
	P		6.47	6.73	6.99	7.26	7.53	7.79	8.06	8.32	8.58
	Q	30°C	18.63	22.07	26.06	30.69	36.07	42.29	49.45	57.64	
	P		5.46	5.71	5.96	6.23	6.51	6.8	7.1	7	

# 制热量

Heating Capacity  
R290

型号Model	项目Item (kW)	Tc Te	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	
WW250KE-TWD-GNX	Q	70°C					39.2	44.26	50.05	56.7	64.34	
	P						16.42	17.15	17.8	18.36	18.82	
	Q	65°C					40.52	45.89	52.05	59.14	67.26	
	P						15.81	16.43	16.97	17.43	17.81	
	Q	60°C					36.74	41.71	47.41	53.96	61.5	70.14
	P						14.5	15.08	15.6	16.06	16.45	16.77
	Q	55°C			32.93	37.52	42.79	48.84	55.8	63.81	72.99	
	P				13.2	13.74	14.23	14.68	15.07	15.41	15.69	
	Q	50°C		29.1	33.35	38.19	43.76	50.19	57.59	66.09	75.83	
	P			11.9	12.39	12.85	13.28	13.67	14.02	14.32	14.59	
	Q	45°C	25.27	29.19	33.65	38.76	44.67	51.48	59.34	68.36	78.67	
	P		10.58	11.02	11.44	11.84	12.22	12.57	12.9	13.2	13.47	
	Q	40°C	25.07	29.16	33.85	39.26	45.51	52.74	61.07	70.63	81.54	
	P		9.6	9.98	10.35	10.71	11.07	11.41	11.74	12.05	12.34	
	Q	35°C	24.75	29.03	33.97	39.69	46.32	53.98	62.81	72.93	84.46	
	P		8.45	8.79	9.13	9.48	9.83	10.18	10.53	10.87	11.2	
	Q	30°C	24.32	28.81	34.02	40.08	47.1	55.22	64.57	75.26		
	P		7.14	7.45	7.79	8.14	8.51	8.89	9.27	9.67		
	Q	25°C	23.81	28.53	34.03	40.44	47.88	56.48	66.36			
	P		5.66	5.98	6.33	6.7	7.11	7.54	7.99			
Q	20°C	23.23	28.2	34.02	40.8	48.68	57.77					
P		4.03	4.37	4.76	5.18	5.65	6.15					
WW300KE-TWD-GNX	Q	70°C					48.25	54.48	61.61	69.79	79.18	
	P						20.21	21.11	21.91	22.59	23.16	
	Q	65°C					49.87	56.48	64.07	72.78	82.79	
	P						19.46	20.22	20.88	21.45	21.92	
	Q	60°C				45.22	51.34	58.35	66.42	75.69	86.33	
	P					17.84	18.56	19.2	19.76	20.24	20.64	
	Q	55°C			40.53	46.18	52.66	60.11	68.68	78.54	89.83	
	P				16.24	16.91	17.52	18.06	18.55	18.96	19.31	
	Q	50°C		35.81	41.04	47.01	53.86	61.77	70.88	81.35	93.33	
	P			14.64	15.25	15.82	16.34	16.82	17.25	17.63	17.95	
	Q	45°C	31.1	35.93	41.41	47.71	54.98	63.36	73.03	84.14	96.83	
	P		13.02	13.56	14.08	14.57	15.04	15.48	15.88	16.25	16.58	
	Q	40°C	30.86	35.89	41.66	48.31	56.01	64.91	75.17	86.93	100.36	
	P		11.82	12.28	12.74	13.19	13.62	14.04	14.45	14.83	15.18	
	Q	35°C	30.46	35.73	41.8	48.85	57.01	66.44	77.31	89.76	103.95	
	P		10.4	10.81	11.24	11.66	12.1	12.53	12.95	13.38	13.79	
	Q	30°C	29.94	35.46	41.87	49.32	57.97	67.97	79.47	92.63		
	P		8.78	9.17	9.58	10.02	10.47	10.94	11.41	11.9		
	Q	25°C	29.3	35.11	41.89	49.77	58.93	69.51	81.68			
	P		6.97	7.36	7.79	8.25	8.75	9.28	9.84			
Q	20°C	28.59	34.71	41.87	50.22	59.91	71.11					
P		4.97	5.38	5.86	6.38	6.95	7.57					

注：以上数据基于 11.1K 吸气过热度，8.3K 过冷度  
Note: The above data are based on 11.1k superheating and 8.3k subcooling.



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