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公司名称：苏州为山之环境技术有限公司

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Rev:202603



R513A

WRD系列空调冷水机应用数字涡旋压缩机

WRD Series Data Scroll Compressor for Air conditioning & Chiller Application



CATALOG

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OUR VISION

企业愿景 OUR VISION

为山之遵循“求精不求巧，求本不求华”的产品理念，把“为山”打造成国内外知名品牌

We aim to make “Weishan” the first-class international brand. We always follow the thinking “to achieve perfection without ingenuity, seeking for origin without refinement.”

关于我们 ABOUT US

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.



苏州为山环境技术有限公司

成立于 2018 年 6 月，是一家专注研发、生产节能环保型涡旋压缩机的创新型高新技术企业。

公司深耕涡旋压缩机核心技术研发，已实现关键技术重大突破，产品广泛适用于工业制冷、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、工业余热回收等众多领域。

企业配备先进自动化生产线及高精度检测、加工设备，依托创新生产工艺流程，产品规格覆盖 2 匹至 25 匹，先后通过 CCC、CE、CB、ROHS & REACH、ISO 9001 等多项国内外权威认证。

公司高度重视知识产权布局与保护，拥有多项自主专利技术，先后获评江苏省民营科技企业、国家级高新技术企业等荣誉资质。

面向未来，公司将持续加大科研研发投入，专注为客户提供绿色环保热泵及冷冻压缩机整体解决方案，以降低全球碳排放为企业使命，聚力赋能节能环保产业发展，共建绿色生态家园。

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



工作原理 *Working Principle*

1. 数字变频涡旋压缩机通过涡旋盘接触 / 分离实现两级状态切换：

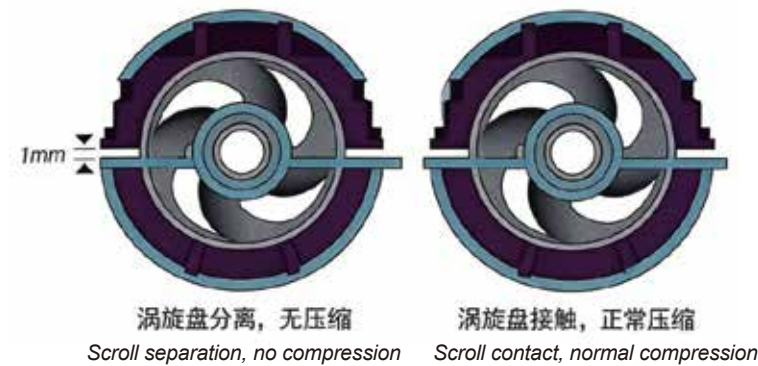
The Data inverter scroll compressor achieves a two-stage operational switch through the engagement and disengagement of its scroll discs:

2. 涡旋盘接触：正常压缩压缩机等同于标准涡旋压缩机，实现100% 冷媒压缩与能力输出

Scroll Disc Engagement: In this normal compression mode, the compressor functions identically to a standard scroll compressor, achieving 100% refrigerant compression and capacity output

3. 涡旋盘分离：无压缩涡旋盘轴向分离，无冷媒压缩，能力输出为0%

Scroll Disc Disengagement: In this non-compression mode, the scroll discs separate axially; no refrigerant compression occurs, and the capacity output is 0%.



产品特点 *Features*

1. 数字涡旋系统的变容量范围最宽，达 10-100 %

The data scroll system offers the widest variable capacity range, spanning from 10% to 100%

2. 整体结构简单，出现故障几率小

The overall structure is simple, resulting in a low probability of failure

3. 无电磁干扰问题，精准控温控湿

It is free from electromagnetic interference issues and provides precise control over both temperature and humidity

4. 涡旋技术与机械卸载系统配合，实现更加节能与可靠

The combination of scroll technology and a mechanical unloading system ensures enhanced energy efficiency and reliability.



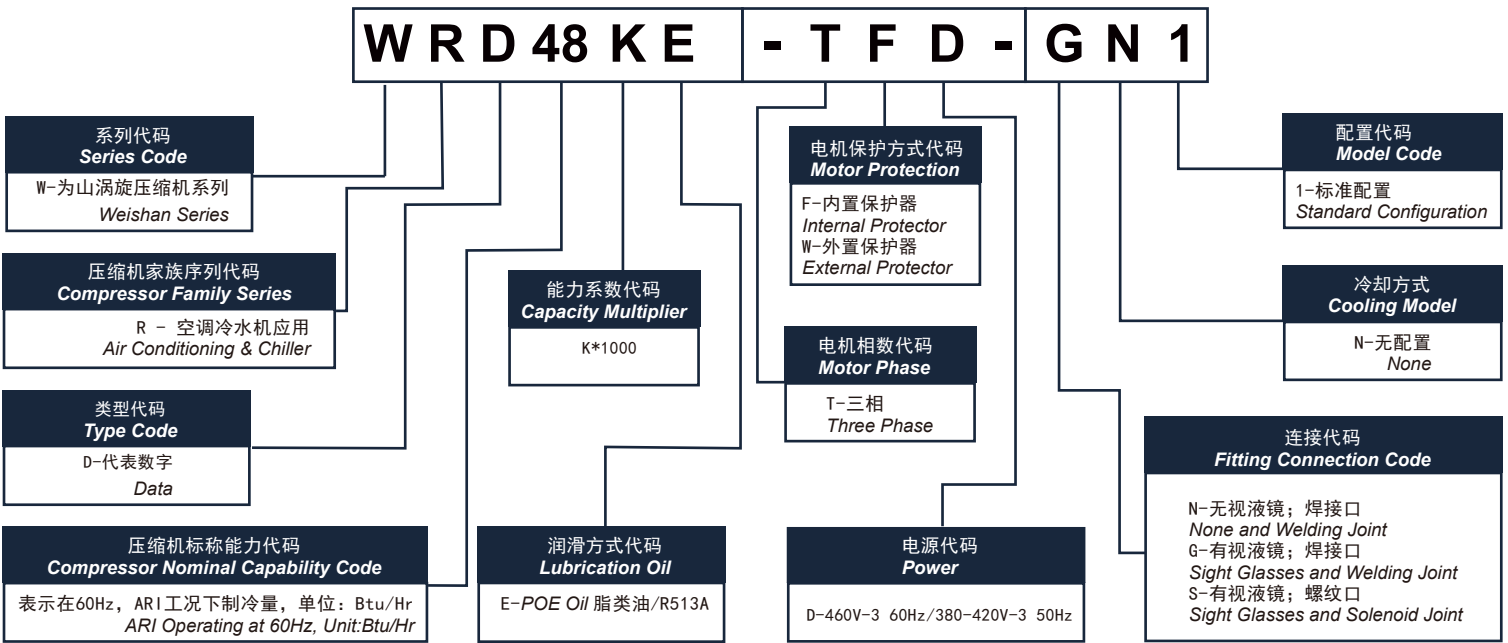
命名规则

Nomenclature

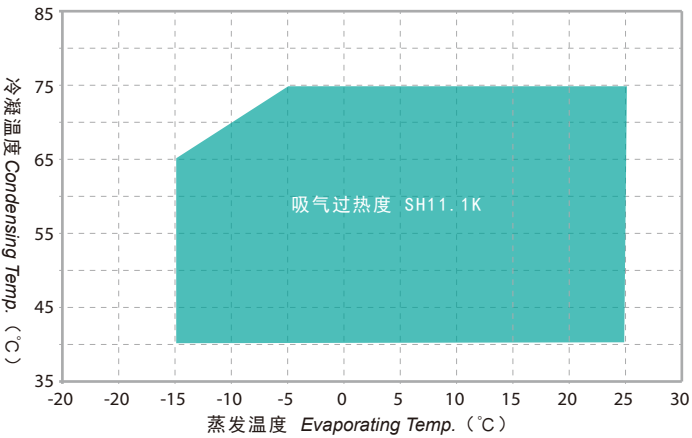


应用范围

Application Range



WRD R513A



型号 Model		WRD24KE-TFD-GN1	WRD36KE-TFD-GN1	WRD48KE-TFD-GN1	WRD61KE-TFD-GN1	WRD72KE-TFD-GN1	WRD81KE-TFD-GN1
电制 Motor Power		380-420V/3~/50Hz or 460V/3~/60Hz				380-420V/3~/50Hz or 460V/3~/60Hz	
名义功率 Nominal Power (HP)		2	3	4	5	6	7
排量 Displacement (cc/Rev)		32.3	50.6	63.9	84.5	98.9	108
制冷剂 Refrigerant		R513A				R513A	
名义制冷量 Nominal Capacity (W)		5556	8705	10993	14536	17014	18579
名义输入功率 Nominal Power (W)		1819	2849	3598	4758	5568	6081
名义工况能效比 COP (W/W)		3.05	3.06	3.06	3.06	3.06	3.06
名义工况电流 Nominal Operating Current (A)		3.5	5.0	6.4	8.4	9.8	10.7
堵转电流 LRA (A)		38.8	38.8	38.8	83.6	83.6	83.6
最大运行电流 MOC (A)		5.0	7.1	8.9	11.8	13.8	15.0
曲轴箱加热器功率 Crankcase Heater (W)		70	70	70	70	70	70
接管尺寸 Fitting ID Size (mm)	排气管Dis.Tube	12.94-13.10			12.94-13.10		
	吸气管 Suc. Tube	22.37-22.51			22.37-22.51		
外形尺寸 Dimension (mm)	长(L)	244.8			257.1		
	宽(W)	230.5			230.5		
	高(H)	444.3			481.8		
底脚安装尺寸(孔径) Mounting Dim.(Dia.) (mm)		190.5x190.5(9.0)					
润滑油类型 Lubrication Oil		POE				POE	
润滑油初次充注量 Lubrication Oil Initial Charge (L)		1.4	1.4	1.4	1.8	1.8	1.8
润滑油重新充注量 Lubrication Oil Recharge (L)		1.2	1.2	1.2	1.6	1.6	1.6
最大工作压力 Maxium Operating Pressure (MPa)	高压侧 High Pressure Side	3.0				3.0	
	低压侧 Low Pressure Side	2.0				2.0	
重量 Weight (kg)		28	28	28	38	38	38

注：蒸发温度7.2℃，冷凝温度54.4℃，回气温度18.3℃，过冷度8.3℃
Note: Evaporating Temperature 7.2℃, Condensing Temperature 54.4℃, Return Gas Temperature 18.3℃,Subcooling 8.3℃

型号 Model		WRD94KE-TFD-GN1	WRD125KE-TFD-GN1	WRD190KE-TFD-GN1	WRD250KE-TWD-GN1	WRD310KE-TWD-GN1
电制 Motor Power		380-420V/3~/50Hz or 460V/3~/60Hz				
名义功率 Nominal Power (HP)		8	10	15	20	25
排量 Displacement (cc/Rev)		127	167.2	248.9	325	400
制冷剂 Refrigerant		R513A				
名义制冷量 Nominal Capacity (W)		21848	28763	42818	55909	68811
名义输入功率 Nominal Power (W)		7151	9414	14014	18299	22521
名义工况能效比 COP (W/W)		3.06	3.06	3.06	3.06	3.06
名义工况电流 Nominal Operating Current (A)		12.6	16.6	24.8	32.3	39.8
堵转电流 LRA (A)		117	117	117	267.9	304
最大运行电流 MOC (A)		17.7	23.3	34.7	45.3	55.7
曲轴箱加热器功率 Crankcase Heater (W)		90	90	90	90	90
接管尺寸 Fitting ID Size (mm)	排气管Dis.Tube	22.37-22.51			28.81-28.95	
	吸气管 Suc. Tube	34.97-35.10			34.97-35.10	
外形尺寸 Dimension (mm)	长(L)	283.1			337.34	
	宽(W)	235.5			333.77	
	高(H)	584.5			725.5	
底脚安装尺寸(孔径) Mounting Dim.(Dia.) (mm)		190.5x190.5(8.5)				
润滑油类型 Lubrication Oil		POE				
润滑油初次充注量 Lubrication Oil Initial Charge (L)		3.0	3.0	3.2	5.0	5.0
润滑油重新充注量 Lubrication Oil Recharge (L)		2.8	2.8	3.0	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	92	92

注：蒸发温度7.2℃，冷凝温度54.4℃，回气温度18.3℃，过冷度8.3℃
Note: Evaporating Temperature 7.2℃, Condensing Temperature 54.4℃, Return Gas Temperature 18.3℃,Subcooling 8.3℃

型号Model	项目Item (KW)	Tc\Te	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃
WRD24KE-TFD-GN1	Q	75℃			3.07	3.53	4.06	4.74	5.63	6.82	8.36
	P				2.47	2.54	2.60	2.67	2.74	2.81	2.88
	Q	70℃		2.72	3.18	3.67	4.26	5.03	6.04	7.37	9.09
	P			2.22	2.27	2.33	2.39	2.44	2.50	2.56	2.63
	Q	65℃	2.34	2.82	3.30	3.83	4.50	5.36	6.50	7.98	9.88
	P		2.00	2.04	2.09	2.13	2.18	2.23	2.28	2.34	2.39
	Q	60℃	2.44	2.93	3.43	4.02	4.76	5.74	7.02	8.66	10.75
	P		1.84	1.88	1.91	1.95	2.00	2.04	2.08	2.12	2.17
	Q	55℃	2.54	3.03	3.57	4.23	5.07	6.16	7.58	9.40	11.69
	P		1.69	1.72	1.76	1.79	1.82	1.86	1.90	1.93	1.97
	Q	50℃	2.63	3.14	3.73	4.46	5.40	6.63	8.21	10.21	12.71
	P		1.56	1.58	1.61	1.64	1.67	1.70	1.73	1.76	1.79
	Q	45℃	2.71	3.26	3.90	4.72	5.77	7.14	8.89	11.09	13.81
	P		1.43	1.45	1.48	1.50	1.53	1.55	1.58	1.60	1.63
	Q	40℃	2.79	3.38	4.10	5.01	6.18	7.70	9.63	12.03	14.99
	P		1.32	1.34	1.36	1.38	1.40	1.42	1.44	1.47	1.49
WRD36KE-TFD-GN1	Q	75℃			4.81	5.52	6.36	7.42	8.82	10.68	13.10
	P				3.88	3.98	4.08	4.18	4.29	4.40	4.51
	Q	70℃		4.26	4.98	5.75	6.68	7.88	9.46	11.55	14.23
	P			3.48	3.56	3.65	3.74	3.83	3.92	4.02	4.11
	Q	65℃	3.66	4.42	5.17	6.00	7.04	8.40	10.19	12.51	15.48
	P		3.13	3.20	3.27	3.34	3.42	3.50	3.58	3.66	3.74
	Q	60℃	3.82	4.58	5.37	6.29	7.46	8.99	10.99	13.57	16.84
	P		2.88	2.94	3.00	3.06	3.13	3.19	3.26	3.33	3.40
	Q	55℃	3.97	4.75	5.60	6.62	7.94	9.65	11.88	14.73	18.32
	P		2.65	2.70	2.75	2.80	2.86	2.91	2.97	3.03	3.09
	Q	50℃	4.11	4.92	5.84	6.99	8.46	10.38	12.86	16.00	19.92
	P		2.44	2.48	2.52	2.57	2.61	2.66	2.71	2.76	2.81
	Q	45℃	4.25	5.10	6.12	7.39	9.05	11.19	13.92	17.37	21.63
	P		2.24	2.28	2.32	2.35	2.39	2.43	2.47	2.51	2.56
	Q	40℃	4.37	5.30	6.42	7.84	9.69	12.06	15.08	18.85	23.48
	P		2.07	2.10	2.13	2.16	2.20	2.23	2.26	2.30	2.34
WRD48KE-TFD-GN1	Q	75℃			6.07	6.97	8.03	9.37	11.14	13.49	16.54
	P				4.89	5.02	5.15	5.28	5.42	5.56	5.70
	Q	70℃		5.39	6.29	7.26	8.43	9.95	11.95	14.58	17.98
	P			4.39	4.50	4.61	4.72	4.83	4.95	5.07	5.19
	Q	65℃	4.63	5.59	6.52	7.58	8.90	10.61	12.86	15.80	19.55
	P		3.95	4.04	4.13	4.22	4.32	4.42	4.52	4.62	4.73
	Q	60℃	4.83	5.79	6.78	7.95	9.43	11.36	13.88	17.14	21.27
	P		3.64	3.71	3.79	3.87	3.95	4.03	4.12	4.20	4.29
	Q	55℃	5.02	6.00	7.07	8.36	10.02	12.19	15.00	18.60	23.13
	P		3.34	3.41	3.47	3.54	3.61	3.68	3.75	3.82	3.90
	Q	50℃	5.19	6.22	7.38	8.82	10.69	13.11	16.24	20.20	25.15
	P		3.08	3.13	3.18	3.24	3.30	3.36	3.42	3.48	3.54
	Q	45℃	5.36	6.45	7.72	9.34	11.42	14.13	17.58	21.93	27.32
	P		2.83	2.88	2.92	2.97	3.02	3.07	3.12	3.17	3.23
	Q	40℃	5.52	6.69	8.10	9.91	12.24	15.23	19.04	23.80	29.65
	P		2.61	2.65	2.69	2.73	2.77	2.81	2.86	2.90	2.95

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

型号Model	项目Item (KW)	Tc\Te	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃
WRD61KE-TFD-GN1	Q	75℃			8.03	9.22	10.61	12.39	14.73	17.83	21.88
	P				6.47	6.64	6.81	6.99	7.17	7.35	7.54
	Q	70℃		7.12	8.32	9.60	11.15	13.16	15.80	19.28	23.77
	P			5.81	5.95	6.09	6.24	6.39	6.55	6.71	6.87
	Q	65℃	6.12	7.39	8.63	10.02	11.76	14.03	17.01	20.89	25.85
	P		5.23	5.34	5.46	5.58	5.71	5.84	5.97	6.11	6.25
	Q	60℃	6.39	7.66	8.97	10.51	12.46	15.02	18.35	22.66	28.12
	P		4.81	4.91	5.01	5.11	5.22	5.33	5.44	5.56	5.68
	Q	55℃	6.63	7.93	9.34	11.06	13.25	16.12	19.84	24.60	30.59
	P		4.42	4.51	4.59	4.68	4.77	4.86	4.96	5.06	5.16
	Q	50℃	6.87	8.22	9.76	11.67	14.13	17.34	21.47	26.72	33.26
	P		4.07	4.14	4.21	4.28	4.36	4.44	4.52	4.60	4.69
	Q	45℃	7.09	8.52	10.22	12.35	15.11	18.68	23.25	29.00	36.13
	P		3.75	3.81	3.87	3.93	3.99	4.06	4.13	4.20	4.27
	Q	40℃	7.30	8.85	10.72	13.10	16.18	20.15	25.18	31.47	39.20
	P		3.46	3.51	3.56	3.61	3.67	3.72	3.78	3.84	3.90
WRD72KE-TFD-GN1	Q	75℃			9.40	10.80	12.42	14.50	17.24	20.87	25.60
	P				7.58	7.77	7.97	8.18	8.39	8.60	8.82
	Q	70℃		8.33	9.73	11.23	13.05	15.40	18.50	22.57	27.82
	P			6.80	6.96	7.13	7.30	7.48	7.66	7.85	8.04
	Q	65℃	7.16	8.65	10.10	11.73	13.77	16.42	19.91	24.45	30.26
	P		6.12	6.25	6.39	6.54	6.68	6.84	6.99	7.15	7.31
	Q	60℃	7.47	8.96	10.50	12.30	14.59	17.58	21.48	26.52	32.92
	P		5.63	5.74	5.86	5.98	6.11	6.24	6.37	6.51	6.65
	Q	55℃	7.77	9.29	10.94	12.94	15.51	18.86	23.22	28.80	35.81
	P		5.18	5.27	5.37	5.48	5.58	5.69	5.80	5.92	6.04
	Q	50℃	8.04	9.62	11.42	13.66	16.54	20.29	25.13	31.27	38.93
	P		4.76	4.84	4.93	5.01	5.10	5.19	5.29	5.39	5.49
	Q	45℃	8.30	9.98	11.96	14.45	17.68	21.86	27.21	33.95	42.28
	P		4.38	4.45	4.53	4.60	4.67	4.75	4.83	4.91	4.99
	Q	40℃	8.55	10.35	12.54	15.33	18.94	23.58	29.47	36.83	45.88
	P		4.05	4.11	4.17	4.23	4.29	4.36	4.42	4.49	4.56
WRD81KE-TFD-GN1	Q	75℃			10.27	11.79	13.56	15.83	18.83	22.79	27.96
	P				8.27	8.49	8.71	8.93	9.16	9.39	9.63
	Q	70℃		9.10	10.63	12.27	14.25	16.81	20.20	24.64	30.38
	P			7.43	7.60	7.79	7.98	8.17	8.37	8.57	8.78
	Q	65℃	7.82	9.44	11.03	12.81	15.04	17.93	21.74	26.70	33.04
	P		6.68	6.83	6.98	7.14	7.30	7.46	7.63	7.81	7.99
	Q	60℃	8.16	9.79	11.46	13.43	15.93	19.19	23.46	28.96	35.95
	P		6.15	6.27	6.40	6.53	6.67	6.81	6.96	7.10	7.26
	Q	55℃	8.48	10.14	11.94	14.13	16.94	20.60	25.36	31.44	39.10
	P		5.65	5.76	5.87	5.98	6.10	6.21	6.34	6.46	6.59
	Q	50℃	8.78	10.51	12.47	14.91	18.06	22.16	27.44	34.15	42.51
	P		5.20	5.29	5.38	5.48	5.57	5.67	5.77	5.88	5.99
	Q	45℃	9.06	10.90	13.06	15.78	19.31	23.87	29.72	37.07	46.18
	P		4.79	4.86	4.94	5.02	5.10	5.19	5.27	5.36	5.45
	Q	40℃	9.34	11.31	13.70	16.74	20.68	25.75	32.18	40.22	50.11
	P		4.42	4.48	4.55	4.62	4.69	4.76	4.83	4.91	4.98

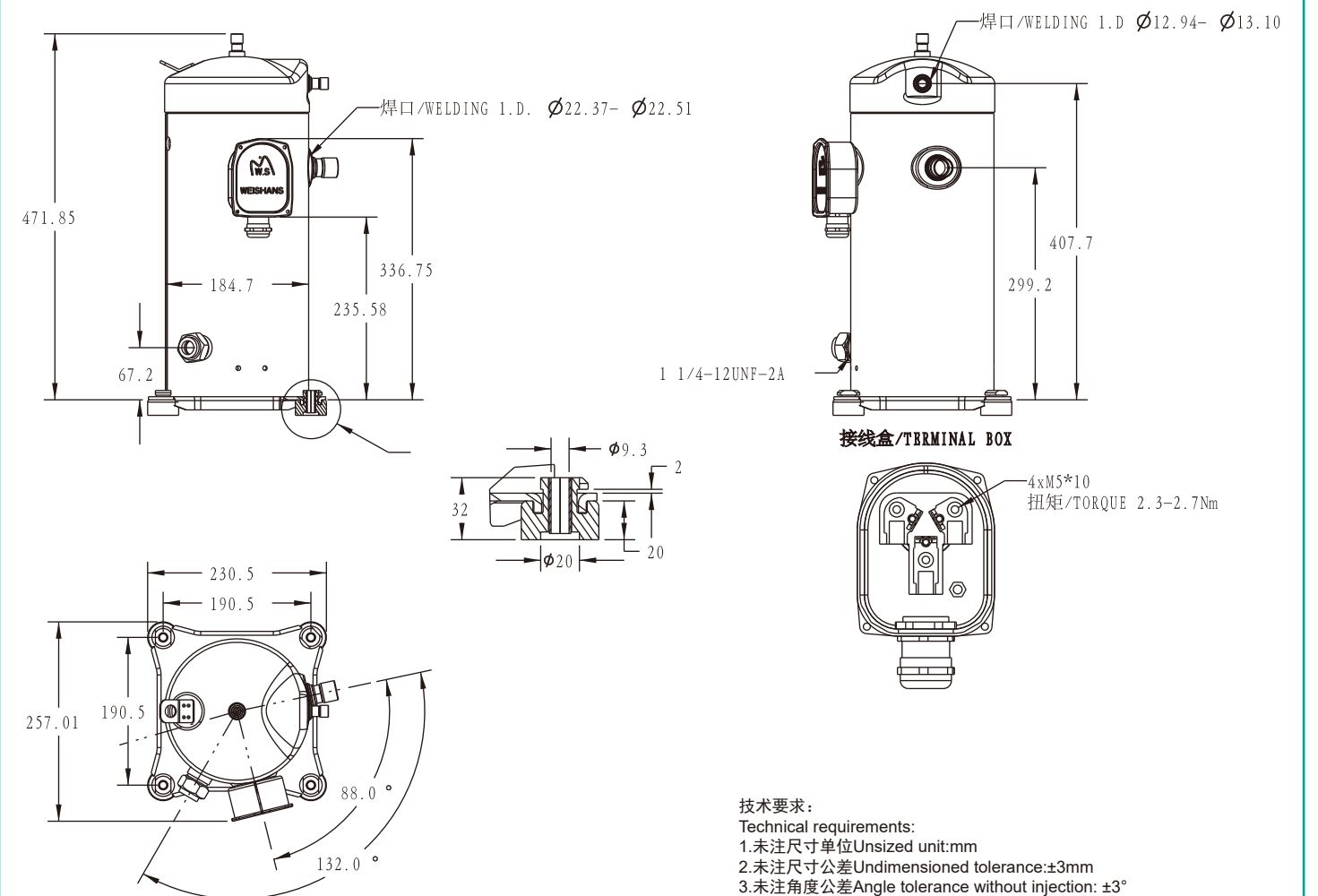
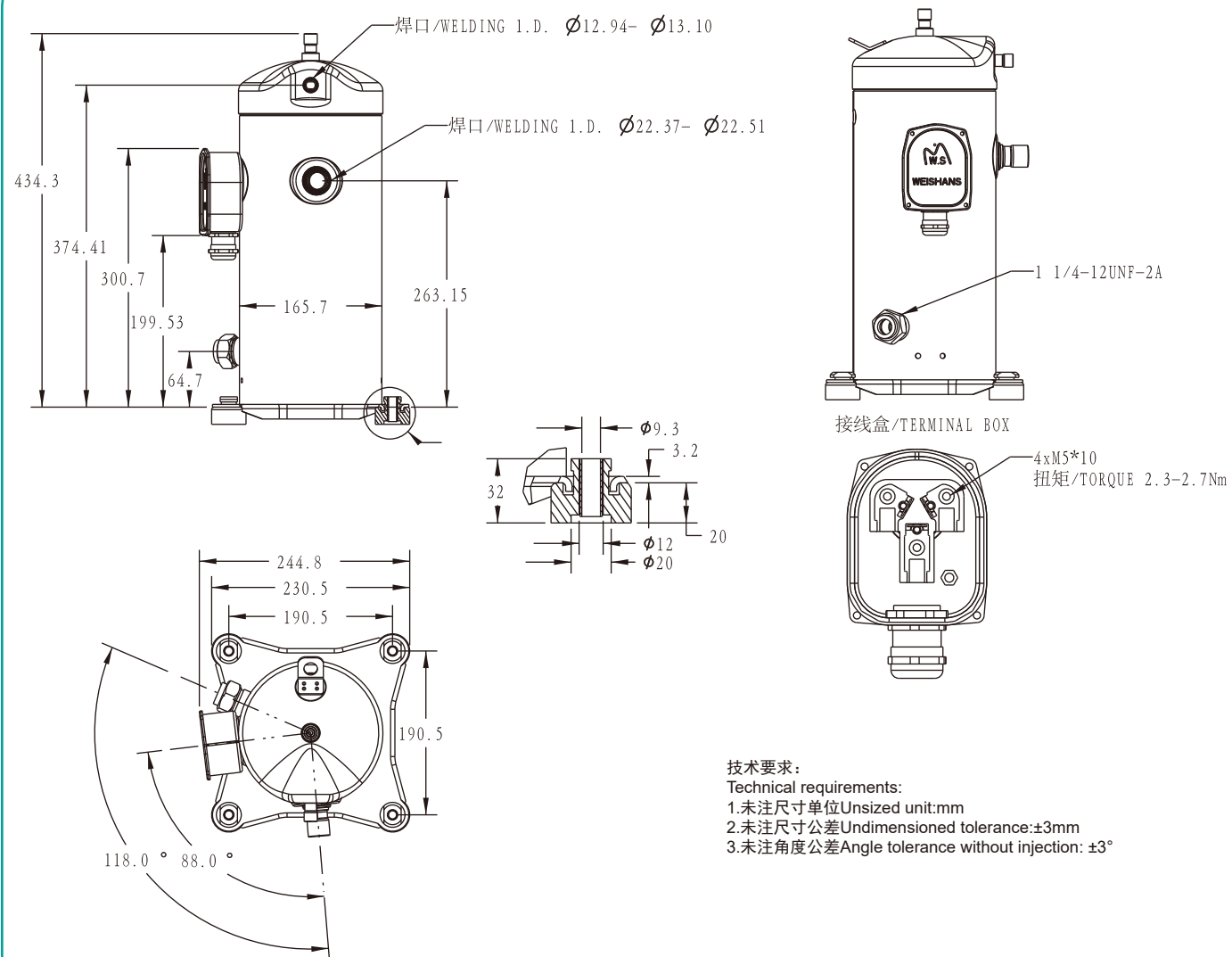
注：以上数据基于 11.1K 吸气过热度，8.3K 过冷度
The above data are based on 11.1K superheating and 8.3K subcooling

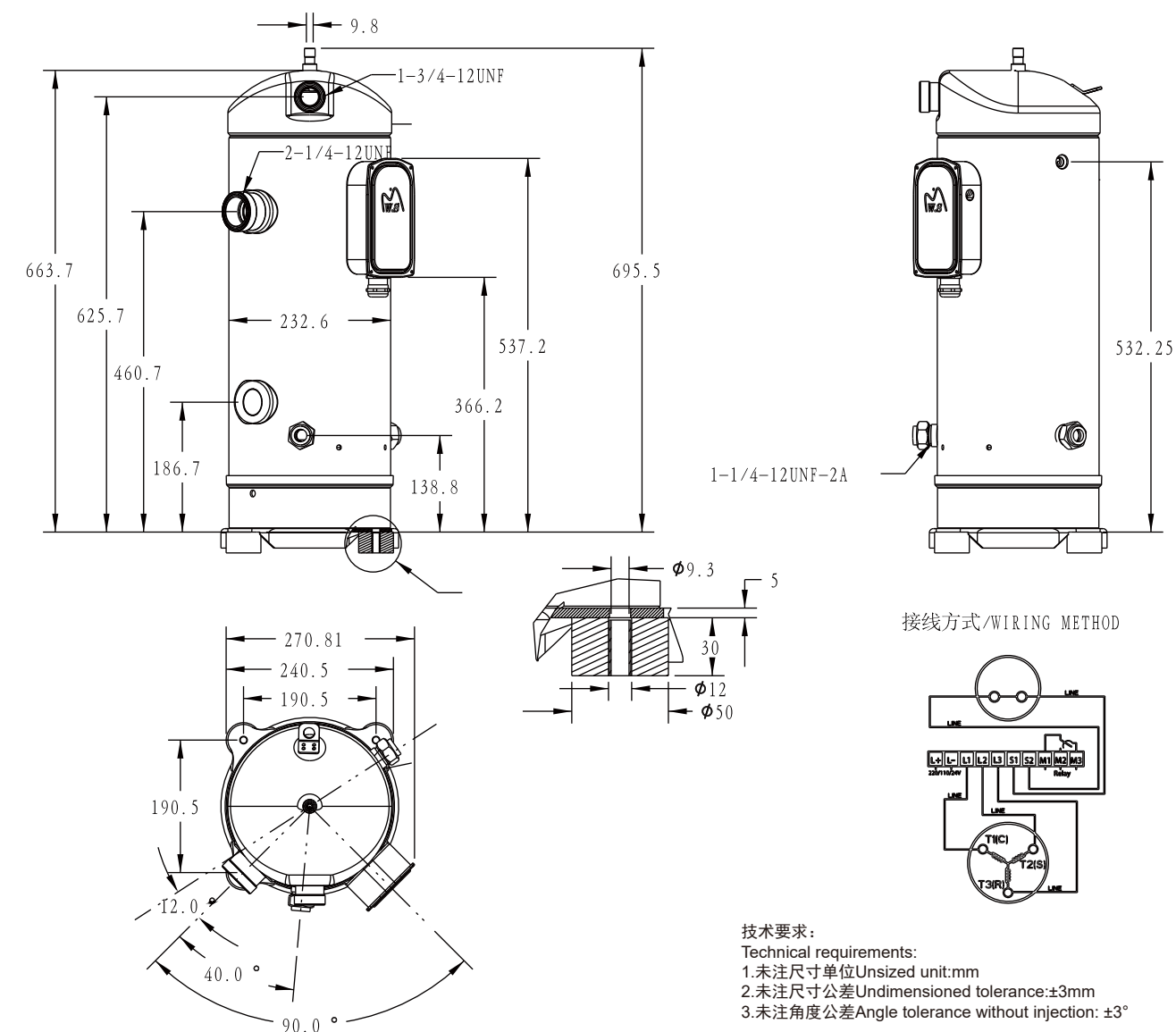
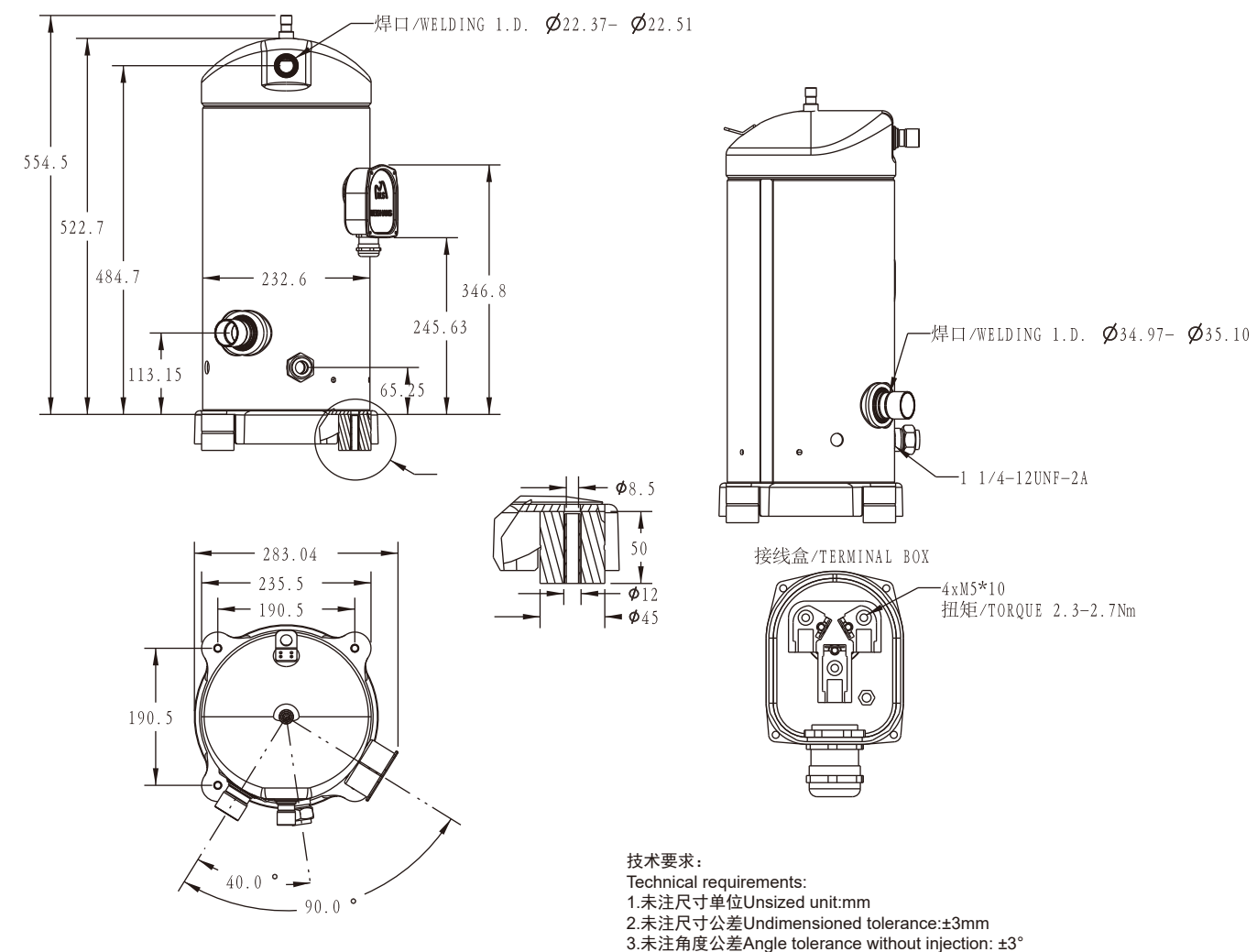
型号Model	项目Item (KW)	Tc\Te	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃
WRD94KE-TFD-GN1	Q	75℃			12.07	13.86	15.95	18.62	22.14	26.80	32.88
	P				9.73	9.98	10.24	10.50	10.77	11.05	11.33
	Q	70℃		10.70	12.50	14.42	16.75	19.77	23.75	28.98	35.73
	P			8.73	8.94	9.16	9.38	9.61	9.84	10.08	10.32
	Q	65℃	9.19	11.10	12.97	15.07	17.68	21.09	25.57	31.40	38.85
	P		7.85	8.03	8.21	8.39	8.58	8.78	8.98	9.18	9.39
	Q	60℃	9.60	11.51	13.48	15.80	18.73	22.57	27.59	34.06	42.27
	P		7.23	7.38	7.53	7.68	7.85	8.01	8.18	8.35	8.53
	Q	55℃	9.97	11.92	14.05	16.62	19.92	24.22	29.82	36.98	45.98
	P		6.65	6.77	6.90	7.03	7.17	7.31	7.45	7.60	7.75
	Q	50℃	10.32	12.36	14.67	17.54	21.24	26.06	32.27	40.15	49.99
	P		6.12	6.22	6.33	6.44	6.55	6.67	6.79	6.92	7.04
	Q	45℃	10.66	12.81	15.35	18.56	22.70	28.07	34.94	43.59	54.30
	P		5.63	5.72	5.81	5.90	6.00	6.10	6.20	6.31	6.41
	Q	40℃	10.98	13.30	16.11	19.69	24.32	30.28	37.85	47.30	58.92
	P		5.20	5.27	5.35	5.43	5.51	5.59	5.68	5.77	5.86
WRD125KE-TFD-GN1	Q	75℃			15.89	18.25	21.00	24.51	29.15	35.29	43.29
	P				12.81	13.14	13.48	13.82	14.18	14.54	14.92
	Q	70℃		14.09	16.46	18.99	22.06	26.03	31.27	38.15	47.03
	P			11.50	11.77	12.06	12.35	12.65	12.96	13.27	13.59
	Q	65℃	12.10	14.62	17.07	19.84	23.28	27.76	33.66	41.33	51.15
	P		10.34	10.57	10.81	11.05	11.30	11.56	11.82	12.09	12.37
	Q	60℃	12.63	15.15	17.75	20.80	24.66	29.71	36.32	44.84	55.65
	P		9.51	9.71	9.91	10.12	10.33	10.55	10.77	11.00	11.24
	Q	55℃	13.13	15.70	18.49	21.88	26.22	31.89	39.26	48.68	60.53
	P		8.75	8.92	9.09	9.26	9.44	9.62	9.81	10.00	10.21
	Q	50℃	13.59	16.27	19.31	23.09	27.96	34.31	42.48	52.86	65.81
	P		8.05	8.19	8.33	8.48	8.63	8.78	8.94	9.10	9.27
	Q	45℃	14.03	16.87	20.21	24.43	29.89	36.96	46.00	57.39	71.49
	P		7.41	7.53	7.65	7.77	7.90	8.03	8.16	8.30	8.44
	Q	40℃	14.45	17.50	21.20	25.92	32.02	39.86	49.83	62.27	77.57
	P		6.84	6.94	7.04	7.15	7.25	7.36	7.48	7.59	7.72
WRD190KE-TFD-GN1	Q	75℃			23.66	27.17	31.26	36.49	43.40	52.53	64.44
	P				19.07	19.56	20.06	20.58	21.11	21.65	22.21
	Q	70℃		20.98	24.50	28.27	32.84	38.75	46.55	56.79	70.02
	P			17.11	17.53	17.95	18.38	18.83	19.29	19.75	20.23
	Q	65℃	18.02	21.76	25.41	29.53	34.65	41.33	50.11	61.53	76.15
	P		15.39	15.74	16.09	16.45	16.82	17.20	17.59	17.99	18.41
	Q	60℃	18.81	22.55	26.42	30.96	36.71	44.23	54.06	66.75	82.84
	P		14.16	14.46	14.75	15.06	15.38	15.70	16.03	16.37	16.73
	Q	55℃	19.54	23.37	27.53	32.57	39.03	47.48	58.44	72.47	90.11
	P		13.03	13.27	13.52	13.78	14.05	14.32	14.60	14.89	15.19
	Q	50℃	20.23	24.22	28.75	34.37	41.63	51.07	63.24	78.69	97.97
	P		11.98	12.19	12.40	12.62	12.84	13.07	13.31	13.55	13.81
	Q	45℃	20.89	25.11	30.09	36.37	44.50	55.02	68.48	85.43	106.42
	P		11.04	11.21	11.39	11.57	11.76	11.95	12.15	12.36	12.57
	Q	40℃	21.52	26.06	31.56	38.58	47.66	59.34	74.17	92.70	115.47
	P		10.18	10.33	10.48	10.64	10.80	10.96	11.13	11.31	11.49

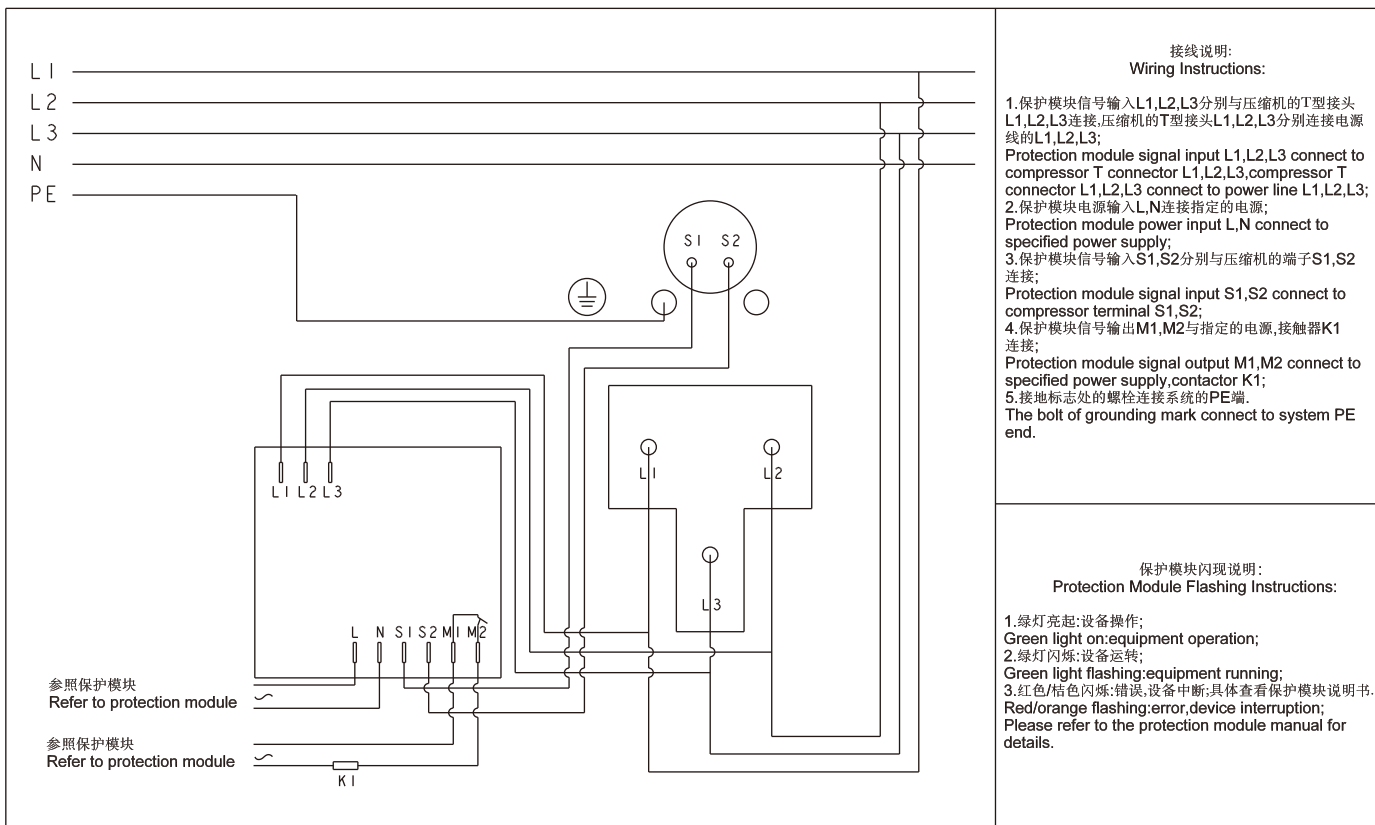
注：以上数据基于 11.1K 吸气过热度，8.3K 过冷度
The above data are based on 11.1K superheating and 8.3K subcooling

型号Model	项目Item (KW)	Tc\Te	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃
WRD250KE-TWD-GN1	Q	75℃			30.90	35.47	40.82	47.65	56.67	68.59	84.14
	P				24.90	25.54	26.20	26.87	27.56	28.27	28.99
	Q	70℃		27.39	31.99	36.91	42.88	50.60	60.79	74.16	91.42
	P			22.34	22.89	23.44	24.01	24.59	25.18	25.79	26.42
	Q	65℃	23.53	28.41	33.18	38.55	45.24	53.96	65.42	80.34	99.43
	P		20.10	20.55	21.01	21.48	21.96	22.46	22.97	23.50	24.04
	Q	60℃	24.56	29.45	34.50	40.42	47.94	57.76	70.59	87.16	108.17
	P		18.49	18.88	19.27	19.67	20.08	20.50	20.93	21.38	21.84
	Q	55℃	25.52	30.51	35.94	42.52	50.97	61.99	76.31	94.63	117.66
	P		17.01	17.33	17.66	18.00	18.34	18.70	19.07	19.45	19.84
	Q	50℃	26.42	31.62	37.54	44.87	54.35	66.68	82.58	102.75	127.92
	P		15.65	15.92	16.19	16.48	16.77	17.07	17.38	17.70	18.03
	Q	45℃	27.27	32.79	39.29	47.49	58.10	71.84	89.42	111.55	138.95
	P		14.41	14.64	14.87	15.11	15.35	15.61	15.87	16.14	16.41
	Q	40℃	28.10	34.03	41.22	50.38	62.23	77.48	96.85	121.04	150.78
	P		13.30	13.49	13.69	13.89	14.10	14.31	14.54	14.76	15.00
WRD310KE-TWD-GN1	Q	75℃			38.03	43.66	50.24	58.64	69.74	84.42	103.56
	P				30.64	31.43	32.24	33.07	33.92	34.79	35.69
	Q	70℃		33.71	39.37	45.43	52.77	62.27	74.81	91.27	112.52
	P			27.50	28.17	28.85	29.54	30.26	30.99	31.75	32.52
	Q	65℃	28.95	34.96	40.84	47.45	55.69	66.42	80.52	98.88	122.37
	P		24.74	25.29	25.86	26.44	27.03	27.64	28.27	28.92	29.58
	Q	60℃	30.23	36.24	42.46	49.75	59.00	71.09	86.88	107.27	133.13
	P		22.76	23.23	23.71	24.20	24.71	25.23	25.76	26.31	26.88
	Q	55℃	31.41	37.55	44.24	52.34	62.73	76.30	93.92	116.46	144.82
	P		20.94	21.33	21.74	22.15	22.58	23.02	23.47	23.93	24.41
	Q	50℃	32.52	38.92	46.20	55.23	66.90	82.07	101.63	126.47	157.44
	P		19.26	19.59	19.93	20.28	20.64	21.01	21.39	21.78	22.19
	Q	45℃	33.57	40.35	48.36	58.45	71.51	88.42	110.06	137.30	171.02
	P		17.74	18.02	18.30	18.60	18.90	19.21	19.53	19.86	20.20
	Q	40℃	34.58	41.88	50.73	62.01	76.59	95.36	119.20	148.98	185.57
	P		16.36	16.60	16.85	17.10	17.35	17.62	17.89	18.17	18.46

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







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