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无锡市惠山华宏自动控制有限公司

WUXI HUIZHAN AUTOMATIC CONTROLLER CO., LTD



无锡市惠山华宏自动控制有限公司

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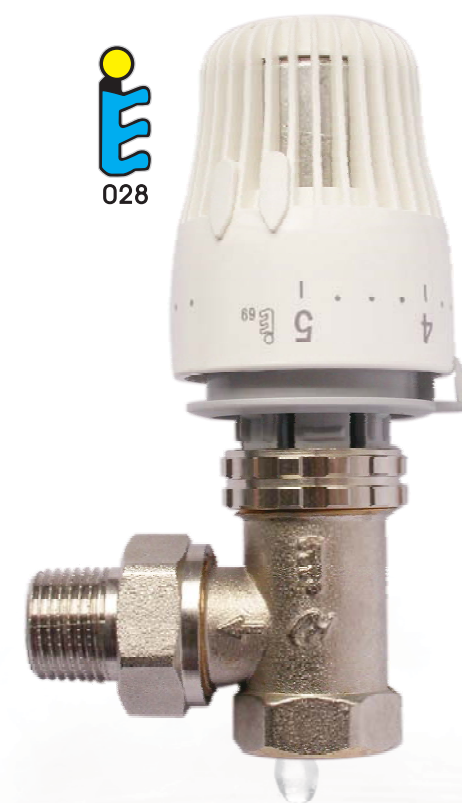
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公司简介 | Company Profile

公司创建于1988年,现厂区占地总面积为8400多平方米.目前公司的主导产品为散热器恒温阀、温度控制器。主要出口到：美国、加拿大、德国、法国、英国、意大利、俄罗斯、比利时、匈牙利等二十多个国家和地区,并为多国著名企业进行ODM\OEM。

公司已通过ISO9001质量管理体系认证;产品分别通过UL、CE、CQC认证，散热器恒温阀已通过欧洲EN215认证。恒温阀及电热执行器也获得外观设计专利和实用新型专利。

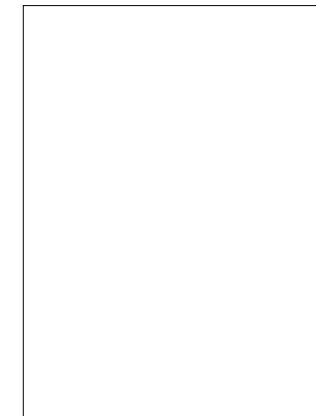
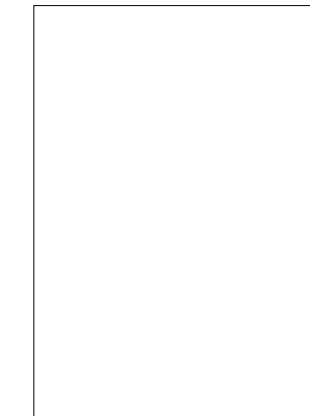
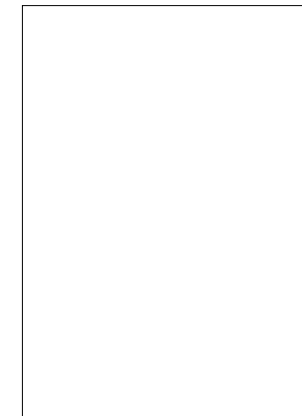
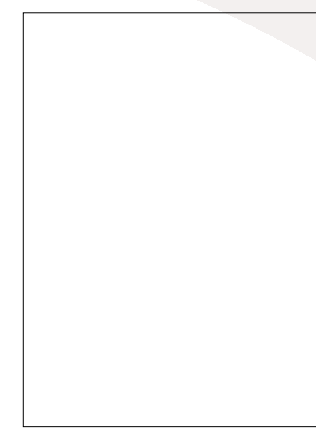
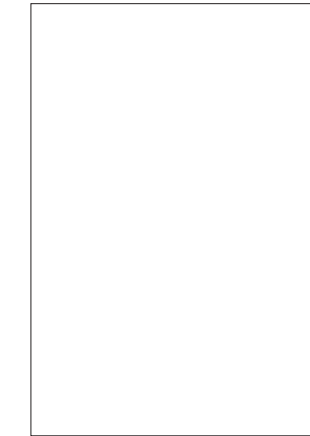
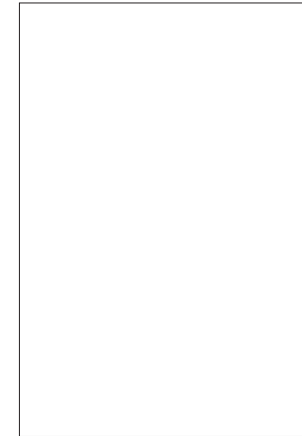
“达世界水准，创国际品牌”是我公司的长期目标;“铸就品质，诚信共赢”是我公司的宗旨，我公司将进一步致力于开发暖通、空调的新产品，为您提供优质可靠的产品,让您的生活和工作舒适而轻松。

Wuxi Huishan Automatic Controller Co.,Ltd was founded in 1988. Total area 8400 m² standard modern workshop. We are ISO9001:2008 approved.

We have been producing high quality thermostats, thermostatic radiator valves, liquid sensors, room thermostats, floor heating thermostats etc. We strictly produce according to the international standards with a result that our products are EN215,CQC,CE,UL approved. We also offer **ODM** and **OEM** service to our customers.

We look forward to developing the market and technology with our overseas partners.

认证证书 Certification certificate



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散热器恒温阀介绍

Thermostatic radiator valves introduction



028

WUXI HUAHONG
Identity Number:69
Empowered Certification Body:028

恒温阀有阀头TF-6和阀体DN15-B组成, 已经通过EN215认证。
此款为自调控制阀, 无需外部能量, 可以独立调节每个房间的温度, 维持一个恒定的室温要求。具有节能, 易使用性。
工作原理: 通过阀头TF-6中的液体感温元件感受房间温度, 从而改变水流量, 以此调节和控制房间温度。例如, 当室内温度升高时, 温度传感材料的热膨胀性将会压缩阀杆关闭阀门。相反, 阀杆将回弹打开阀门, 从而实现一个更加舒适的温度环境。同时, 如果房间内有其他辅助热源(比如阳光或其他加热器), 阀门会关小来减少散热器内的水流量, 最终实现节能的目的。

Thermostatic radiator valves in this design is composed of Model TF-6 thermostatic valve head and the Model DN15-B angle valve and passed En215 quality certification integrally.

Thermostatic radiator valve in this design is the self-adjustable control valve without needs of external energy, it can be adjusted independently for temperature in each room. And thereby maintaining a constant room temperature required. It features energy-saving and easy to use and so on.

The working principle of this design of valve is: the liquid temperature sensing element in Model TF-6 thermostatic valve head is to feel the room air temperature, and thereby changing the heating water flow, so as to regulate and control room temperature: i.e., when the indoor temperature rises, the thermal expansion of the temperature sensing material shall compress to the valve stem to close down the valve up to shut up, and on the contrary, the stem shall rebound to open up the valve. In this way, a more comfortable temperature environment for people is achieved. Meanwhile, if there is other auxiliary heat source (such as sunshine or other heater etc) in the room, the valve shall close down a little to reduce the water flow into the radiator, and achieve the target of energy-saving in the end.

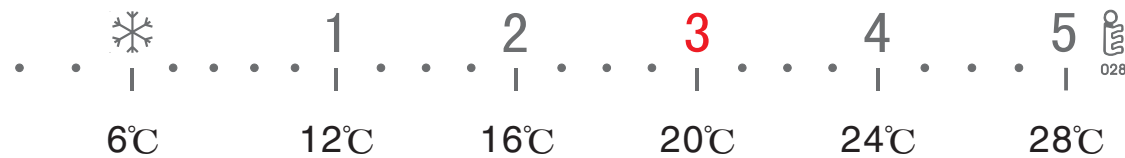
DN15-B和TF-6配套使用的主要参数

DN15 - B and TF - 6 main parameters to be used together

最大工作压力 Maximum admissible static pressure	最大压差 Maximum admissible differential pressure	最大流体温度 Maximum fluid temperature	公称流量 Nominal flow rate	滞后 Hysteresis(C)	压差的影响(D) Differential pressure influence(D)	水温度的影响(W) Water temperature influence(W)	除霜保护 Antifreeze position
1.0MPa	0.1MPa	110℃	265kg/h	0.5K	0.5K	0.8K	❄ 6℃
响应时间(Z) Response time(Z)	安装螺母 Installation size	备注 Remark					
23min	M30x1.5(M28x1.5)	水平安装 Horizontal direction		传感器为液体 The sensor with liquid			

刻度标识及对应温度

Temperature regulation scale and the corresponding temperature



详情请参阅以下网站

<http://www.heatcool.cn/Product.asp?SortID=1&ItemID=33>

<http://www.heatcool.cn/product.asp?sortid=7&itemid=82>

产品安装和注意事项

Installation and precautions

1. 安装前旋下DN15-B的蓝色保护帽, 确保是箭头方向安装在管子上。

1. Remove the protective cap from the body (DN15-B) before installation, make sure to arrow direction for installation and turn it on the pipe.

2. 安装时, 首先应将阀头旋钮转动到“5”的位置, 保持阀头水平安装到阀体上。其次应将阀头圆螺母旋到阀体外螺纹接口, 直到拧紧。

2. To facilitate the installation of thermostatic valve head (TF-6), the handle should be set at the maximum open position (ie the position of number 5) before installation, and then, turn the locking nut of the thermostatic valve head (TF-6) firmly to the threads of angle valve (DN15-B)

3. 为有效的开启和关闭阀门, 恒温阀的阀杆应处于水平位置, 故散热器恒温阀头应水平安装(如图1)。同时, 为了使阀体内用于关闭的阀杆正确动作, 阀头不能直接暴露在阳光下, 也不能太靠近窗帘等装饰物和家具, 应保持阀头周围的空气能自由流动(如图2)。

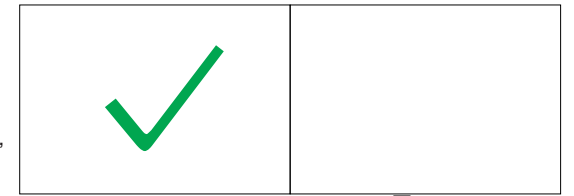


图1

图2

3. As the thermostatic is required to feel the indoor temperature, therefore, when installing, it is a must to keep the thermostatic radiator valve at a relatively open place where there is good ventilation. The thermostatic valve head (TF-6) must be installed in a level way, not in a vertically upright way, and at the same time, it must be kept away from spots where there is curtain, heating pipeline, or furniture etc, and to avoid direct exposure to the sun.

4. 在夏季, 为了避免不必要的外力作用在阀头上, 应将阀头旋钮设置到“5”的位置上。

4. In order to avoid high temperature in summer caused super-pressure acted on the thermostatic valve and hence to make it early damage, please turn the temperature indicator arrow on the valve head to number 5 of the temperature scale.

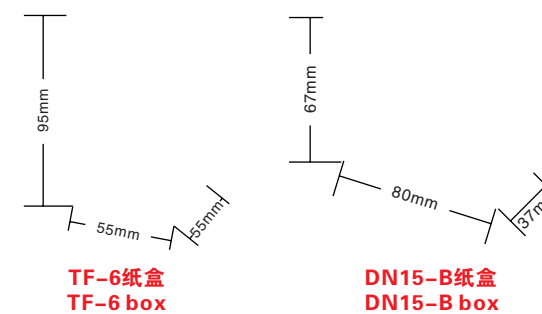
5. TF-6散热器恒温阀头具有防霜冻的功能。当环境温度在0℃, 将阀头旋钮转到“❄”处, 以保持阀门有极细小的热水流过, 防止水路系统霜冻结冰。

5. This design of thermostatic radiator valve features the function of anti-freezing; please set the temperature indicator arrow to the snow tag ❄ in winter, lest water flow frozen in the pipe when the ambient temperature is below zero.

包装规格

Packaging specifications

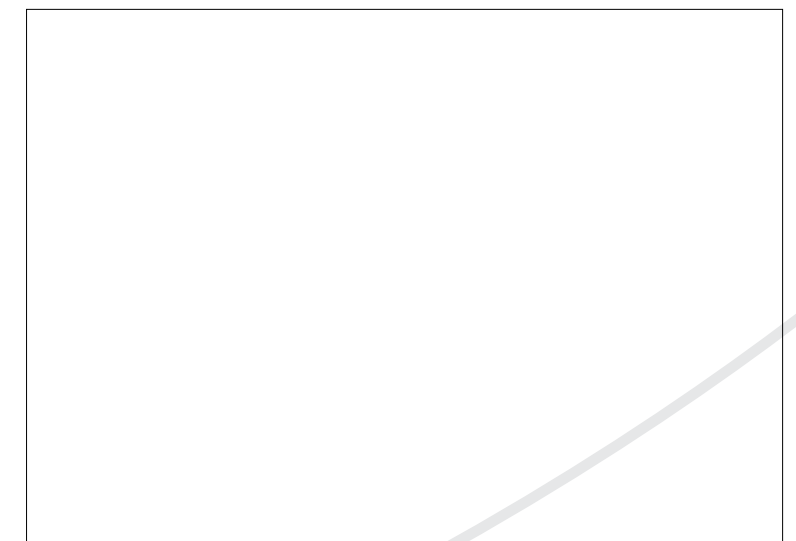
一、纸盒 Box



TF-6纸盒
TF-6 box

DN15-B纸盒
DN15-B box

二、说明书 Operating Instruction



开启或锁定 Open or lock

Open

lock

TF系列散热器恒温阀

TF series thermostatic radiator valve and thermostatic head

主要参数

- 1.温度设定范围: 6℃~28℃
- 2.除霜保护: 6℃
- 3.最大工作压力: 1.0MPa
- 4.最大压差: 0.1MPa
- 5.安装螺母: M30x1.5(M28x1.5)

Main parameters

- 1.Temperature range:6℃~28℃
2. Defrost protection:6℃
3. Maximum admissible static pressure:1.0MPa
4. Maximum admissible differential pressure:0.1MPa
- 5.Installation size:M30x1.5(M28x1.5)



TF-2 Lockable

TF-4

TF-5 Lockable

TF-6 Lockable

TF-9 Lockable

TF-11 Lockable

TF-11D Lockable

TF-20

TF-21 Lockable

TF-21D Lockable

TF-39

产品名称 Model	TF-2	TF-2A	TF-2-28	TF-4	TF-4-28	TF-5	TF-6	TF-9	TF-11
刻度标识 Temperature regulation scale	*~5	*~5	*~5	*~5	*~5	*~5	*~5	*~5	*~6
关闭深度 Closing dimension	12.4mm	12.4mm	9.2mm	12.4mm	9.2mm	12.4mm	12.4mm	12.4mm	12.4mm
备注 Remark	灰色端盖 The grey cover	白色端盖 The white cover	黑色调节螺套 Black thread sleeve regulator		黑色调节螺套 Black thread sleeve regulator		EN215认证 认证编号为:69 EN215 certification Licensee identity number:69		深度可根据 顾客需求调节 According to customer requirements regulating closing dimension

产品名称 Model	TF-11D	TF-20	TF-21	TF-21D	TF-39
刻度标识 Temperature regulation scale	*~6	*~5	*~MAX	*~MAX	液晶显示 LCD display
关闭深度 Closing dimension	12.4mm	12.4mm	12.4mm	12.4mm	
备注 Remark	深度可根据 顾客需求调节 According to customer requirements regulating closing dimension		深度可根据 顾客需求调节 According to customer requirements regulating closing dimension	深度可根据 顾客需求调节 According to customer requirements regulating closing dimension	全开阀深度13.5mm,全关阀深度11mm Valve full opening dimension is 13.5mm and full closing Dimension is 11 mm .

以上阀头除TF-11/11D、TF-21/21D、TF-39款外, 均可做远程传感
All above designs except TF-11、TF-11D、TF-21、TF-21D are available to produce with a remote sensor

阀体

Valves

广泛应用于房间散热器配套的温度控制, 具有节能的作用。最大工作压力为1.0MPa,最大压差为0.1MPa,最大水温为120℃,DN15-E可以双向。

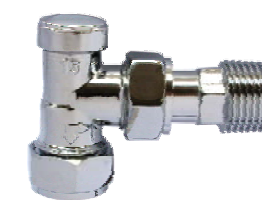
Application: control the room temperature by regulating the water flow through the radiator, energy saving.
Maximum admissible static pressure:1.0MPa. Maximum admissible differential pressure:0.1MPa.
Max. water temperature:120℃, DN15-E can be reversible.



DN15-A straight valve



DN15-B angle valve



DN15-BB lockshield



DN15-E angle valve for UK

液阀芯

Liquid Sensor

具有控温、调温的功能。一般用于温度控制器和散热器恒温阀, 符合EN215。

Application:Have the function of the temperature control, temperature regulation. Generally used for temperature controller and thermostatic radiator valve, conform to EN215.

TMS-01

TMS-03

包装规格

每度升成对比图

Model	TF-2~TF-6	TF-9	TF-20	TF-11/TF-11D	TF-21/TF-21D	TMS-01/TMS-03	TF-39	DN15-A	DN15-B	DN15-BB	DN20-A	DN20-B	DN15-E
Carton size (cm)	57.5x30x21	57.5x30x21	57.5x30x21	52.5x27x20	52.5x27x20	36x35x19.5	35X29X27	37.5x24x24	37.5x24x24	37.5x24x24	37.5x24x24	37.5x24x24	36.5x21x20.5
PCS/CTN	100	100	100	100	100	500	50	50	50	50	50	50	50
G.W.(kg)	16	16	16	16	16	27	16	14.5	14.5	14.5	14.5	14.5	13
Pallet size(cm)	92x118x104	92x118x104	92x118x104	83x108x100	83x108x100	73x107x88	92x108x118	75x75x106	75x75x106	75x75x106	75x75x106	75x75x106	75x88x113
PCS/ each pallet	2400	2400	2400	2400	2400	12000	1800	1200	1200	1200	1200	1200	2000

TF系列散热器恒温阀

TF series thermostatic radiator valve and thermostatic head

主要参数

- 1.毛细管长度: 2000mm
- 2.最大工作压力: 1.0MPa
- 3.最大压差: 0.1MPa
- 4.安装螺母: M30x1.5
- 5.适合远程传感

Main parameters

1. Capillary length: 2000mm
2. Maximum admissible static pressure: 1.0MPa
3. Maximum admissible differential pressure: 0.1MPa
4. Installation size: M30x1.5
5. Long capillary, remote distance sensing



TF-7A



TF-13/TF-14



TF-13C



TF-15



TF-16/TF-17



TF-36/TF-36A



TF-37/TF-38



外壳颜色
Shell color

白色	灰色
white	grey

CT-01

产品名称 Model	温度调节范围 Regulating range	刻度标识 Temperature regulation scale	关闭深度 Closing dimension	毛细管长度 Capillary tube length	备注 Remark
TF-7A	20℃~60℃	20℃~60℃	12.2mm	2000mm	温包 Φ9.5 长115mm Bulb Φ9.5 Length 115mm
TF-13	20℃~60℃	20℃~60℃	12.2mm	2000mm	温包 Φ9.5 长115mm Bulb Φ9.5 Length 115mm
TF-13B	20℃~60℃	20℃~60℃	12.2mm	2000mm	温包 Φ7 长190mm Bulb Φ7 Length 190mm
TF-13C	20℃~60℃	20℃~60℃	11.7mm	1000mm	温包 Φ9.5 长115mm Bulb Φ9.5 Length 115mm
TF-14	30℃~70℃	30℃~70℃	12.2mm	2000mm	温包 Φ9.5 长115mm Bulb Φ9.5 Length 115mm
TF-15	6℃~28℃	*~5	12.4mm	2000mm	温包 Φ16 长63mm Bulb Φ16 Length 63mm

包装规格

Model	TF-7	TF-13~TF-13C	TF-14	TF-15
Carton size (cm)	46.5x31x20.5	46.5x31x20.5	45.5x33.8x30	42x22x29
PCS/CTN	60	60	50	20
G.W. (Kg)	13	13	14	13
Pallet size(cm)	92x96x111	92x96x111	92x105x130	92x86x126
PCS/each pallet	1800	1800	1200	640

TF系列散热器恒温阀

TF series thermostatic radiator valve and thermostatic head

主要参数

- 1.毛细管长度: 2000mm
- 2.最大工作压力: 1.0MPa
- 3.最大压差: 0.1MPa
- 4.安装螺母: M30x1.5
- 5.适合远程传感

Main parameters

1. Capillary length: 2000mm
2. Maximum admissible static pressure: 1.0MPa
3. Maximum admissible differential pressure: 0.1MPa
4. Installation size: M30x1.5
5. Long capillary, remote distance sensing



TF-16/TF-17



TF-36/TF-36A



TF-37/TF-38



外壳颜色
Shell color

白色	灰色
white	grey

CT-01

产品名称 Model	温度调节范围 Regulating range	刻度标识 Temperature regulation scale	关闭深度 Closing dimension	毛细管长度 Capillary tube length	备注 Remark
TF-16	20℃~60℃	20℃~60℃	12.2mm	2000mm	配小压差二通反向阀DN15-FXFT With small differential pressure 2-way reversing valve DN15 - FXFT
TF-17	30℃~70℃	30℃~70℃	12.2mm	2000mm	配小压差二通反向阀DN15-FXFT With small differential pressure 2-way reversing valve DN15 - FXFT
TF-36	20℃~70℃	20℃~70℃	11.7mm	1000mm	TF-36 温包 Φ14.75 TF-36 bulb Φ14.75
TF-36A	20℃~70℃	20℃~70℃	11.7mm	1000mm	TF-36A 温包 Φ17.5 TF-36A bulb Φ17.5
TF-37	50℃~80℃	50℃~80℃	12.2mm	2000mm	配小压差二通反向阀DN15-FXFT With small differential pressure 2-way reversing valve DN15 - FXFT
TF-38	40℃~70℃	40℃~70℃	12.2mm	2000mm	配小压差二通反向阀DN15-FXFT With small differential pressure 2-way reversing valve DN15 - FXFT

包装规格

Model	TF-16	TF-17	TF-36/TF-36A	TF-37/TF-38	CT-01
Carton size (cm)	42x22x29	42x22x29	45.5x33.8x30	46.5x31x20.5	45x28x19.5
PCS/CTN	20	20	50	60	60
G.W. (Kg)	13	13	14	13	10
Pallet size(cm)	92x86x126	92x86x126	92x105x130	92x96x111	92x105x127
PCS/each pallet	640	640	1200	1800	2880

TR系列中央空调温度控制器

TR series room thermostat for central air conditioner



1. Application: control of central air conditioner or heating appliance for room temperature. The modern design perfectly matches any room design. The ergonomic control knob is detachable to avoid a change of the setting of temperature. The room temperature controller is available in different designs: simple design, with indicator lamp, ON/OFF switch and summer/winter switch.
2. Regulating range: 5°C ~ 30°C
3. Temperature differential: < 1°C
4. Contact capacity: 16A(4)/250V
5. Sensor type: gas filled sylphon

产品名称 Model	TR-90	TR-91	TR-93	TR-95	TR-96
带指示灯 With light		✓	✓	✓	✓
带开关 Switch			✓	✓	✓
带冷暖开关 Heating/cooling Switch				✓	✓
尺寸(mm) Dimension	80x80x37	80x80x37	80x80x37	80x80x37	80x80x37
线路图 Wire diagram					



1. 适用于分户 中央空调、地采暖或其他采暖方 的温度控制。有不带指示灯、无电源开关和带指示灯，有电源开关；以及冷暖转换开关等不同功能可供选择。
控温范围：10°C ~ 30°C 工作电压：220~240V/50~60Hz
负载电流：10A (电阻性) 感温元件：充气膜盒
1. Application: central air conditioner, floor heating or other heating appliance. Optional for ON/OFF switch, led, heating/cooling switch.
2. Temperature regulating range: 10°C ~ 30°C
3. Rated power supply: 220 ~ 240V/50 ~ 60Hz
4. Max load: 10A
5. Sensor: gas filled sylphon

产品名称 Model	TR-010 (T6360A)	TR-010X (T6360A)	TR-001 (T6360C)	TR-001X (T6360C)	TR-100 (T4360D)
带指示灯 With light		✓		✓	
带开关 Switch			✓	✓	
带冷暖开关 Heating/cooling Switch					✓
尺寸(mm) Dimension	83x83x38	83x83x38	83x83x38	83x83x38	83x83x38
线路图 Wire diagram					

TR系列中央空调温度控制器

TR series room thermostat for central air conditioner

1. Application: control of central air conditioner or heating appliance for room temperature.
2. work voltage: 16(4)A/250V
3. Max load: 16A
4. Sensor type: gas filled sylphon
5. With on/off switch



TR-TA2/TR-TA3/
TR-TB2/TR-TC2/TR-TC2-A



DD-01



DD-02

产品名称 Model	TR-TA2	TR-TA3	TR-TB2	TR-TC2	TR-TC2-A
温度范围 Temperature range	10°C~30°C	10°C~30°C	10°C~30°C	-5°C~15°C	-5°C~15°C
差动 differential	<1°C	<1°C	<1°C	<1°C	<1°C
带指示灯 With light	✓	✓		✓	✓
尺寸(mm) Dimension	80x80x43.5	80x80x43.5	80x80x43.5	80x80x43.5	80x80x43.5
线路图 Wire diagram					

产品名称 Model	温度范围 Temperature range	差动 Differential	电气额定值 Electrical rating	尺寸(mm) Dimension	线路图 Wire diagram	备注 Remark
DD-02	5°C~35°C	<1°C	25uA/3V	88x83x37.2		DD-02数字房间温控器是一种简单模式。只有2个按钮。"△" "▽" DD-02 digital room thermostat is a simple mode. Only two buttons "△" "▽"
DD-01	5°C~35°C	<1°C	25uA/3V	88x83x37.2		DD-01数字房间温控器是一种智能模式有5个按钮。 "△" "▽" "AUTO/MANU" "SET" "QUERY/COPIY", 7天编程功能 DD-01 digital room thermostat is a intelligence mode. There are 5 buttons, "△" "▽" "AUTO/MANU" "SET" "QUERY/COPIY", 7days programming.

包装规格

Model	TR-90/TR-91	TR-93/TR-95/TR-96	TR-010/ TR-010X/TR-100	TR-001/TR-001X	TR-TA2/TR-TA3	TR-TB2/ TR-TC2/TR-TC2-A	DD-01/DD-02
Carton size (cm)	45x25x19.5	45x25x19.5	45x25x19.5	45x25x19.5	45x25x19.5	45x25x19.5	28x21x20
PCS/CTN	50	50	50	50	50	50	20
G.W. (Kg)	8.5	8.5	10	10	10	10	10
Pallet size(cm)	92x95x127	92x95x127	92x95x127	92x95x127	92x95x127	92x95x127	90x110x115
PCS/each pallet	2400	2400	2400	2400	2400	2400	1500

TR系列中央空调温度控制器

TR series room thermostat for central air conditioner



- 1.适用于宾馆或户 中央空调冷暖的温度控制。有各种不同接线方 和多种工作控制模 可供选择。
2.控温范围：10℃~30℃ 3.工作电压：220~240V/50~60Hz
4.负载电流：6A(电阻性) 5.感温与元件：充气膜盒
1.Application: central air conditioner, heating and cooling temperature control, with different wire connection option and operation mode.
2. Temperature control range: 10℃~30℃
3. Rated power supply: 220~240V/50~60Hz
4. Max load: 6A
5. Sensor: gas filled sylphon

TR-110A/TR-110B/TR-110C
/TR-110D/TR-110M/TR-110G

产品名称 Model	TR-110A T6373B 1130	TR-110B T6373B 1138	TR-110C T6373B 1064	TR-110D T6373B 1068	TR-110M	TR-110G
温度范围 Temperature range	10℃~30℃	10℃~30℃	10℃~30℃	10℃~30℃	10℃~30℃	10℃~30℃
差动 Differential	<1℃	<1℃	<1℃	<1℃	<1℃	<1℃
尺寸(mm) Dimension	130X85X40	130X85X40	130X85X40	130X85X40	130X85X40	130X85X40
线路图 Wire diagram						

主要功能 The main function

- TR-110A TR-110M
T6373B 1130
- 1.有独立的系统控制开关 2.手动三档风速转换 3.自动控制电动阀, 风机不受温度开关控制 4.有冷暖切换开关
1. Have an independent system of control switch 2. 3-speed switch
3. Automatic control of electric valve, Fan is not controlled by the temperature switch 4. Heating-cooling switch

- TR-110B TR-110C TR-110D
T6373B 1138 T6373B 1064 T6373B 1068
- 1.有独立的系统控制开关 2.手动三档风速转换 3.自动控制电动阀和风机, 适合于控制风机 4.有冷暖切换开关
1. Have an independent system of control switch 2. 3-speed switch
3. Electric valve and fan are both controlled by thermostat, suitable to the control of fan 4. Heating-cooling switch

- TR-110F
- 1.手动三档风速转换 2.由同一拨动开关控制系统与冷暖功能转换
1. 3-speed switch 2. Heat-fan-cool controlled by a single switch

包装规格

Model	TR-110A /TR-110B/TR-110K	TR-110C /TR-110D/TR-110M	TR-110E/TR-110H	TR-110F
Carton size (cm)	45x27.5x29	45x27.5x29	45x27.5x29	53x27x33
PCS/CTN	50	50	50	50
G.W. (Kg)	12	12	12	13
Pallet size(cm)	92x115x126	92x115x126	92x115x126	85x108x132
PCS/each pallet	1600	1600	1600	1200

TR系列中央空调温度控制器

TR series room thermostat for central air conditioner

- 1.适用于宾馆或户 中央空调冷暖的温度控制。有各种不同接线方 和多种工作控制模 可供选择。
2.控温范围：10℃~30℃ 3.工作电压：220~240V/50~60Hz 4.负载电流：6A(电阻性)
5.感温与元件：充气膜盒
1.Application: central air conditioner, heating and cooling temperature control, with different wire connection option and operation mode.
2. Temperature control range: 10℃~30℃ 3. Rated power supply: 220~240V/50~60Hz 4. Max load: 6A
5. Sensor: gas filled sylphon



TR-110H



TR-110E



TR-110K



TR-110F

产品名称 Model	TR-110H	TR-110K	TR-110E	TR-110F
温度范围 Temperature range	10℃~30℃	10℃~30℃	10℃~30℃	10℃~30℃
差动 Differential	<1℃	<1℃	<1℃	<1℃
尺寸(mm) Dimension	130X85X40	130X85X40	130X85X40	133X88X43
线路图 Wire diagram				

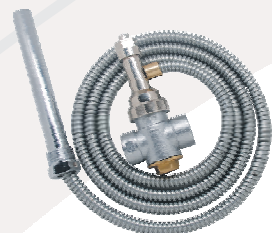
主要功能 The main function

- TR-110H TR-110E
T6375B 1286
- 1.有独立的系统控制开关 2.手动三档风速转换 3.将风机控制与冷暖功能转换组合在同一拨动体上
1. Have an independent system of control switch 2. 3-speed switch 3. Heat-fan-cool controlled by a single switch

- TR-110E TR-110F
T6373A 1108
- 1.有独立的系统控制开关 2.手动三档风速转换 3.一般适用于单制 温度控制 4.自动控制电动阀, 风机不受温度开关控制
1. Have an independent system of control switch 2. 3-speed switch 3. Generally applies to the single pole control system
4. Automatic control of electric valve, and the fan is not controlled by the temperature switch

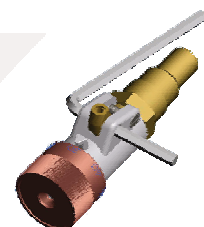
- TR-110K
- 1.有独立的系统控制开关 2.风机由温度开关自动控制 3.两组加热器可独立控制
1. Have an independent system of control switch 2. The fan is controlled by the temperature switch
3. Individual control for two heating elements

水采暖控制 Heating system accessory



YC-1超温保护泄压阀
Temperature relief valve

主要适用于锅炉等温度过热器具的保护 最大泄压流量: 93KW 连接阀: 1/2" 传感线:1500mm
泄压温度: 95℃
With double sensor and test facility for boiler with intergrated heater in enclosed solid fuel heating system up to max 93kw.
Valve size:1/2"
Relief temperature:95℃
Capillary length:1500mm



炉门温控
Draught regulator

主要适用于煤炉及柴炉的炉门温度控制。当温度升高时炉门关闭。
温度调节范围: 30~90℃
工作范围: 0~100℃
Application: control the temperature of cast iron boiler. when reach the setting temperature, close the door of the cast iron boiler.
Temperature range:30~90℃
Working temperature:0~100℃

FM流量计
FM flow meter



FM-B FM-A

配套于分水阀在暖通工程中各室内的流量调节,通过该产品可调节流量使各水流达到一致。
Application: installed on manifold for heating system, to control the flow rate for different rooms. The regulating of the flow meter helps to balance the flow rate of different rooms.(the indication of flow rate is only for reference, it may have tolerance)

FM-A范围: 0.6 ~ 2.4L/min
Range of FM-A: 0.6 ~ 2.4L/min

FM-B范围: 5 ~ 0.5 L/min
Range of FM-B: 5 ~ 0.5 L/min



流量调控阀
Flow control valve

作用: 用于风机盘管、太阳能等水系统管道流量的调节与控制。
Application: Use to regulate and control the flow of pipeline ,fan coil units ,solar energy ,etc.

技术参数:

Technical parameters:

1.流量范围: 0.5~5L/min
1.Flow range: 0.5 ~ 5L/min

2.接口螺纹: G1A

2. Interface thread: G1A

特点:

Features:

1.经济适用

2.小巧灵便

3.操作方便

1.The economy applicable

2. Small facility

3. Easy to operate

水采暖控制 Heating system accessory

电热执行器 Electrical actuator

电热执行器广泛应用于风机盘管、地暖散热器的采暖控制。
Application: central air conditioner, radiator control or floor heating control.



DF-110E



DR-09



DR-12



DR-10

Model	DF-110E	DR-9	DR-12	DR-10
U	230VAC/24V	230VAC/24V	230VAC/24V	230VAC/24V
T	<4.5min	<4.5min	<4.5min	<4.5min
H	3.0mm	3.0mm	3.0mm	3.0mm
F	90~120N	90~125N	90~125N	90~125N
P	2.5W/3W	2.5W/3W	2.5W/3W	2.5W/3W
I MAX	150mA/250mA	150mA/250mA	150mA/250mA	150mA/250mA
安装螺母 Installation size	M30x1.5	M30x1.5	M30x1.5	M30x1.5
备注 Remark	通电打开或通电关闭 Power on or power off	手动打开, 常闭状态 Manual open, normally closed		四线, 带开关反馈 4-wire, switch quantity feedback

包装规格

Model	DR-09	DR-10	DF-110E	YC-1	FM-A	FM-B
Carton size (cm)	45x25x19.5	45x25x19.5	45x25x19.5	44x40x22	47x41x24	38x35x25
PCS/CTN	50	50	50	20	300	200
G.W.(kg)	8.3	8.3	8.3	14.4	15	15
Pallet size(cm)	92x105x127	92x105x127	92x105x127	92x120x120	85x95x130	80x108x135
PCS/ each pallet	2400	2400	2400	600	6000	6000

水采暖控制 Heating system accessory

FS流量开关 适用于制冷、供暖以及感应经过管道的液体流量变化等。

FS flow switch Application: switch on or switch off of the flow by measuring the variation of fluid pressure in the heating or cooling system.

主要参数

The main parameters

电器额定值: 16A/220V ~ 250V 使用温度范围: 1 ~ 100°C 最大压力: 10bar 接口: 1" 最大管径: 3"
Electrical rating: 16A/220v ~ 250V Using temperature range: 1 ~ 100°C Maximum admissible static pressure: 10bar
installation size: 1" The largest diameter: 3"



FS-25



FS-25B

配管尺寸	流量调整范围 (L/min)			
	最小min		最大max	
	流量减少 flow decrease	流量增加 flow increase	流量减少 flow decrease	流量增加 flow increase
1"	18	21	45	50
2"	50	58	150	155
3"	100	115	225	260



FS-25A

这款开关适用于制冷、供暖系统，主要用于监测管道里的液体流量，最大工作压力为1.0MPa

This switch is suitable for refrigeration, heating system, mainly used for monitoring the liquid flow in the pipeline

Maximum admissible static pressure: 1.0MPa



FS-25C

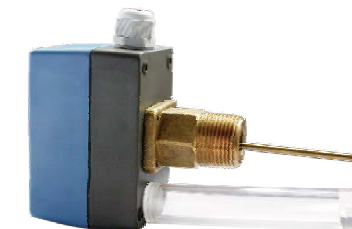
这款开关用于监测管道里的空气流量。

This paddle switch is intended to monitor air flow within a duct and provides a switched output on detection of either a specific air velocity or flow failure.

水采暖控制 Heating system accessory

LS液位开关

Float switch



LS-25A

这款开关主要用于控制液体位置,最大工作压力为0.5MPa

This switch is mainly used to control liquid level in a tank or vessel, to provide a switched output to provide local alarm pump or valve control.

Maximum admissible static pressure: 0.5MPa

Model	Operating temp		Materials			Switch rating	Protection	Dimensions		wiring diagram
	Ambient	Media	Paddle	Rod	Enclosure			Paddle	Housing	
FS-25A	-40°C~90°C	-20°C~150°C	Stainless steel	Brass	ABS flame retardant	250VAC 16(6)A	IP65		133x70x70mm	
FS-25C	-20°C~70°C	-20°C~120°C	Stainless steel	Brass	ABS flame retardant	250VAC 16(6)A	IP60	80x175mm	133x70x70mm	
LS-25A	-40°C~85°C	85°C (max)	Organicglass	Brass	ABS flame retardant	250VAC 16(6)A	IP65	Φ25x130mm	133x70x70mm	

回水温控阀

Return water temperature control valve



DN20-AG with TF-23

DN20-AG和TF-23配套使用的主要参数

DN20-A and TF-23 main parameters to be used together

产品名称 Model	温度设定范围 Temperature range	刻度标识 Temperature regulation scale	最大工作压力 Maximum admissible static pressure	最大压差 Maximum admissible differential pressure	安装螺母 Installation size	备注 Remark
DN20-AG with TF-23	10°C~50°C	1~5	1.0MPa	0.1MPa	M30X1.5	阀芯为蜡阀芯 wax sensor

包装规格

Model	FS-25	FS-25A	FS-25B	FS-25C	LS-25A
Carton size (cm)	47x29.5x21.5	48x42x29	46x43x26.5	57x42x29	48x42x29
PCS/CTN	20	20	20	20	20
G.W.(kg)	12	15	14.4	15	15
Pallet size(cm)	90x95x106	86x100x136	95x88x101	86x116x136	86x100x136
PCS/ each pallet	480	320	240	320	320

采暖控制 Heating system accessory

回水恒温箱 TCB series multibox



TCB-1

应用于采暖的加热控制;
Application: heating control for water heating system



TCB-2

应用于采暖的回水温度控制;
Application: control the temperature of water flow back, heating control for water heating system



TCB-3

应用于采暖的回水温度控制及单人间采暖的加热控制;
Application: control the temperature of water flow back



TCB-4

应用于采暖的回水温度控制, 并带有可以配合房间温控器用于房间控温的电热头。
Application: control the temperature of water flow back, installed with electric thermo actuator which is controlled by room thermostat.

产品名称 Model	温度设定范围 Temperature range	最大工作压力 Maximum admissible static pressure	最大压差 Maximum admissible differential pressure	连接头螺纹 Adaptor size	安装深度 Installation depth	备注 Remark
TCB-1	6°C~28°C (TF-6)	1.0MPa	0.1MPa	R1/2"	60mm	整个产品由带有温控阀的安装盒、框架、上盖及黑色安装轨组成 Elements: a box with thermostatic valve installed, frame, front cover and black slide rail
TCB-2	10°C~50°C (TF-23)	1.0MPa	0.1MPa	R1/2"	60mm	整个产品由带有温控阀的安装盒、框架、上盖及黑色安装轨组成 Elements: a box with thermostatic valve installed, frame, front cover and black slide rail
TCB-3	10°C~50°C (TF-23) 6°C~28°C (TF-6)	1.0MPa	0.1MPa	R1/2"	60mm	整个产品由带有温控阀的安装盒、框架、上盖及黑色安装轨组成 Elements: a box with thermostatic valve installed, frame, front cover and black slide rail
TCB-4	10°C~50°C (TF-23) (DF-110E)	1.0MPa	0.1MPa	R1/2"	60mm	整个产品由带有温控阀的安装盒、框架、上盖及黑色安装轨组成 Elements: a box with thermostatic valve installed, frame, front cover and black slide rail

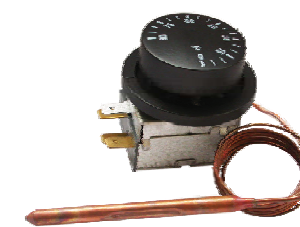
C、CA、G、GF、HE款式加热器具温控器 C、CA、G、GF、HE style thermostat for heating equipment

C系列/G系列/HE系列 C Series/G Series/HE Series

适用于热水器及类似用途器具的温度控制
Application: temperature control of boilers and other similar equipments.

CA系列/GF系列 CA Series/GF Series

适用于热水、洗衣机、电烤箱及类似用途器具的温度控制,带漏液保护、手动复位功能。
Application: temperature control of washing machine, water heater, electric oven and other similar equipment with manual reset function and sensor leakage protection.



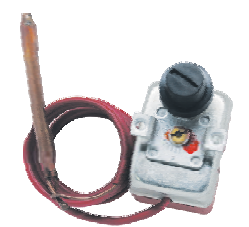
C系列
C Series



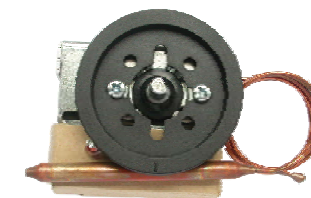
G系列
G Series



CA系列
CA Series



GF系列
GF Series



HE系列
HE Series

产品名称 Model	C系列 C Series	G系列 G Series	CA系列 CA Series	GF系列 GF Series	HE系列 HE Series		
					HE-0/90A	HE-F35/35A	HE-0/40A
电气额定值 Electrical rating	16A/110V~250V	16A/110V~250V	16A/110V~250V	16A/110V~250V	22A/230V 1 0%	22A/230V 1 0%	22A/230V 1 0%
工作温度范围 Temperature range	0°C~90°C/0°C~120°C/ 0°C~210°C/50°C~300°C	0°C~90°C/0°C~120°C/ 50°C~300°C	80°C/90°C~110°C/ 120°C/300°C	70°C~90°C/ 90°C~110°C	0°C~90°C	-35°C~+35°C	0°C~40°C
差动 Switching differential	2°C~10°C	2°C~10°C			<3.5°C	<3.0°C	<2.5°C
毛细管长度 Capillary tube length	1000/1500mm	1000/1500mm	1000/1500mm	1000/1500mm	1000/1500mm	1000/1500mm	1000/1500mm
备注 Remark	上下外壳为镀锌铁板 Base material: SGLC	毛细管裹红色PVC塑管 Capillary tube in red PVC	毛细管裹红色PVC塑管 手动复位 Capillary tube in red PVC, Manual reset	毛细管裹红色PVC塑管 手动复位 Capillary tube in red PVC, Manual reset	大电流温控器 Large current thermostat 温包如图 Bulb as shown in figure	大电流温控器 Large current thermostat 温包如图 Bulb as shown in figure	大电流温控器 Large current thermostat 温包如图 Bulb as shown in figure

包装规格

Model	C系列 C Series	G系列 G Series	CA系列 CA Series	GF系列 GF Series	HE-0/90A	HE-F35/35A	HE-0/40A
Carton size (cm)	34.5x29.5x27	34.5x29.5x27	34.5x29.5x27	38x34x32.5	35X29.5X27	35X29.5X27	53X30X32
PCS/CTN	50	50	50	100	50	50	100
G.W. (kg)	7	7	5	12	7	7	14
Pallet size(cm)	92x108x118	92x108x118	92x108x118	80x105x113	92x108x118	92x108x118	92x108x106
PCS/each pallet	1800	1800	1800	1800	1800	1800	1800

WPR系列暖通器具用温控器

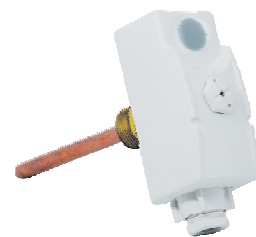
WPR series liquid expansion contact/immersion thermostat

应用于管道、锅炉的温度控制

Application: control the temperature of piping and boiler, immersion thermostat with immersion rod and immersion sleeve, temperature set by knob or internal adjustable by screw driver.



WPR-90GA



WPR-90GA-2



WPR-90GB



WPR-90GB-2



WPR-80GB



WPR-90GC



WPR-90GD

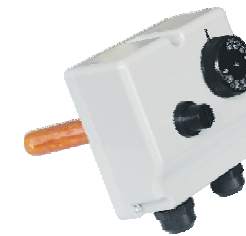


WPR-90GE

产品名称 Model	WPR-90GA	WPR-90GA-2	WPR-90GB	WPR-90GB-2	WPR-80GB	WPR-90GC	WPR-90GD	WPR-90GE
电气额定值 Electrical rating	16(A)250V	16(A)250V	16(A)250V	16(A)250V	16(A)250V	16(A)250V	16(A)250V	16(A)250V
工作温度范围 Temperature range	0~90℃	0~90℃	0~90℃	0~90℃	0~80℃	0~90℃	0~90℃	0~90℃
差动 Switching differential	5℃	5℃	6℃ 3	6℃ 3	5℃ 3	4℃ 2	9℃	5℃
感温部 MAX Temperature sensing part (MAX)	110℃	110℃	110℃	110℃	110℃	110℃	110℃	120℃
铜管尺寸 Pocket size	φ 8x100mm,ZG1/2"	φ 8x100mm,ZG1/2"						φ 8x100mm,ZG1/2"
备注 Remark		内调节 Internal adjust		手动复位/内调节 Manual reset/ Internal adjust	配1500mm白色 弹簧线 With 1500mm clamping spring	1000mm毛细管 裹红色塑管 1000 mm capillary tube in red PVC	外壳颜色有白色、 桔红色 Plastic cover can be white or orange	外壳颜色有白色、 桔红色 Plastic cover can be white or orange

WPR系列暖通器具用温控器

WPR series liquid expansion contact/immersion thermostat



WPR-90CK

双开关,结合了一个温度控制器与一个安全温度限制器,特别适用于控制管道或液体的温度,可以防止温度过高。

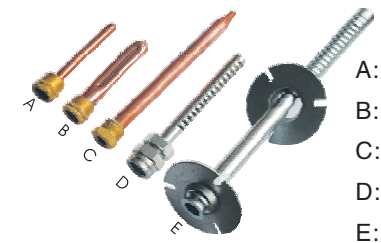
The double thermostat combines a temperature controller with a safety temperature limiter and is especially suitable for controlling the liquid or the pipe temperature and the protecting against overtemperature.



WPR-40G

应用于仓库、温室等的房间温度控制,从外部可调节。

Application: room thermostat in housing for greenhouses, warehouse, ect, adjustable from the outside.



Immersion sleeve

A: φ 8x100mm
B: φ 16x100mm
C: φ 13x185mm
D: φ 12.3x135mm
E: φ 16x225mm

产品名称 Model	电气额定值 Electrical rating	工作温度范围 Temperature range	差动 Switching differential	感温部 MAX Temperature sensing part (MAX)	铜管尺寸 Pocket size	防尘等级 Protection
WPR-40G	16A(4)250V	0~40℃	2℃	65℃		IP55
WPR-90CK	16(A)250V	0~90℃	4℃ 2	130℃	φ 16x100mm,1/2"BSP	IP40



位移传感器
Element

充注体按一定规律膨胀,并引起波纹管位移,这种位移的变化与电气或电气机械零件结合后,可以起调节或传动作用。

Application: Filling body expansion according to certain rule, and causes the displacement of corrugated pipe, electrical, or electrical mechanical parts with the change of the displacement after combination, can adjust or drive.

包装规格

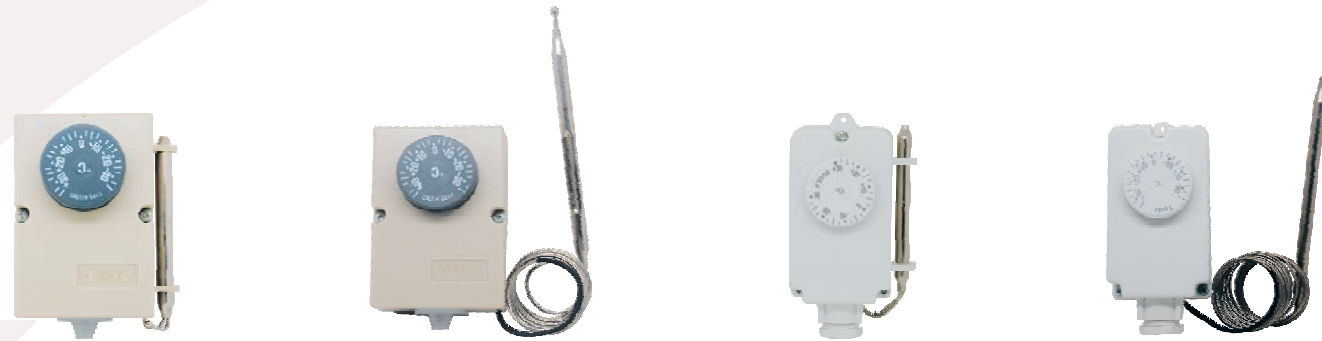
Model	WPR-90GA/ WPR-90GA-2	WPR-90GB/ WPR-90GB-2	WPR-80GB/ WPR-90GC	WPR-90GD	WPR-90GE	WPR-40G	WPR-90CK
Carton size (cm)	57x24.5x34	30x27x24	35x29.5x27	35x29.5x27	48x29.5x20	40x26.5x22	58x29x23
PCS/CTN	50	50	50	50	20	20	20
G.W. (kg)	11.5	9	14	9	6	8.6	10.4
Pallet size(cm)	100x105x112	93x85x130	92x108x118	92x108x118	92x108x110	82x110x120	80x118x125
PCS/each pallet	1200	2250	1800	1800	600	800	400

L款式温控器

L style thermostat

适用于冷藏、冷冻柜（箱）及类似用途器具的温度控制

Application: temperature control of refrigerator, freezer and other similar equipments.

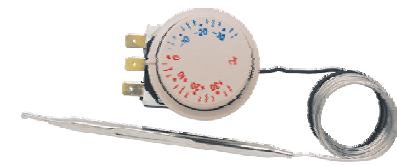


A2000(WPR-35LB)

F2000(WPR-35L)

F3000

F3000C



711(WPR-35LA)

产品名称 Model	A2000(WPR-35LB)	F3000	F3000C	F2000(WPR-35L)	711(WPR-35LA)
电气额定值 Electrical rating	16A(4)/250V	16A/230V	16A/230V	16A(4)/250V	16A(4)/110V~250V
工作温度范围 Temperature range	-35℃~+35℃	-35℃~+35℃	-35℃~+35℃	-35℃~+35℃	-35℃~+35℃/0℃~40℃
差动 Switching differential	≤3.5℃	≤3.5℃	2℃ 1.5℃	2℃ 1.5℃	2℃~5℃
毛细管长度 Capillary tube length	180mm	180mm	1750mm	2000mm	1800mm
备注 Remark					

包装规格

Model	A2000(WPR-35LB)	F2000(WPR-35L)	F3000	F3000C	711(WPR-35LA)
Carton size (cm)	39.5x27x24	53x30x32	25x35x27	33.5x32.5x26.5	38x34x32.5
PCS/CTN	50	100	50	50	100
G.W. (kg)	9	17.5	13.5	14	17
Pallet size(cm)	92x120x106	92x108x106	80x108x118	100x105x116	80x105x113
PCS/ each pallet	1800	1800	1800	1800	1800

其他类型温控器

Thermostats for refrigerating and automobile



Y108563A

WL-0.5

WL-OE

WL-1A



WL-OC

WL-4A

WL-0.5KB

WPF21I



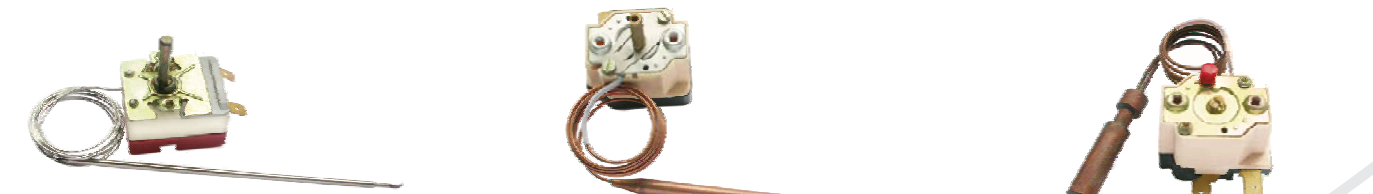
DWL-2

DWLF-2D

33D907543

加热器具用温控器

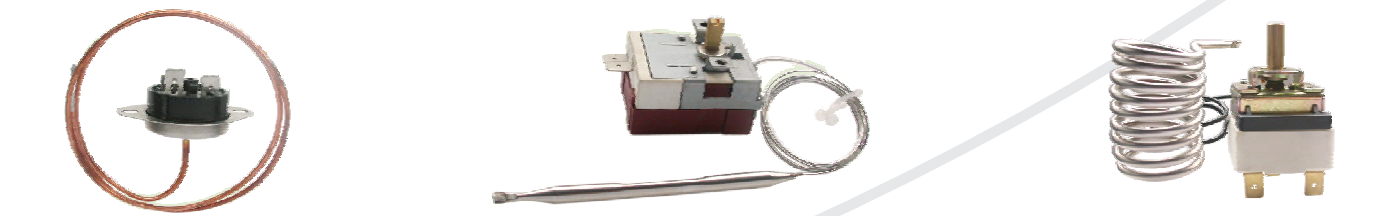
Thermostats for heating appliance



E 系列
E Series

WPR-90F

WPR-275F



FT-75

WPR-120V

Z 系列
Z Series