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智能高精度温控单元

INTELLIGENT HIGH-PRECISION TCU



WIDETHERM

坚持技术创新

Adhere to technological innovation



维特斯默品牌注册于2014年,隶属于苏州奥德高端装备股份有限公司控股子公司,是奥德品牌升级的新突破,维特斯默是奥德整合了瑞士,日本,以及国内光学成型和温度控制设备领域顶尖的人才而成立的高端温控品牌,也是一家集研发、生产、销售为一体的模压成型温度控制设备的企业,公司依托于奥德高端装备平台、技术和制造标准完全对标全球光学模温机龙头品牌,60%以上核心部件自主研发,独立开模定制完成;2025年WIDETHERM品牌完成重组,独立运营。

Registered in 2014, the Widetherm is a subsidiary of Suzhou Aode Precies Equipment Co., Ltd., representing a new breakthrough in Aode's brand upgrade. Widetherm is a high-end temperature control brand established by Aode by integrating top talents in the fields of optical molding and temperature control equipment from Switzerland, Japan, and China. It is also an enterprise integrating R&D, production, and sales of mold temperature control equipment. Relying on Aode's precies equipment platform, technology, and manufacturing standards, the company fully benchmarks against leading global optical mold temperature controller brands. More than 60% of core components are independently developed and customized. In 2025, the WIDETHERM will be restructured and operate independently.

维特斯默 核心使命

CORE MISSION

重新定义模温控制新标准 助力全球制造业高质量发展!

Redefining the new standard for mold temperature control
Contributing to the high-quality development of global manufacturing!

维特斯默智能装备(广东)有限公司

AODE 奥德

奥德简介 ABOUT AODE

21年
创新发展与沉淀
Accumulation

285+
各项专利
Technology patents

605+
员工人数
Employees

股票代码 874809

Stock Code



奥德公司2004年创立于深圳,2007年成立苏州奥德,专业从事高精密温控设备以及核心部件的研发,生产和销售,致力于为客户提供高效,安全,节能,环保的工业温度控制设备和系统解决方案,先后被认定为国家专精特新企业、高新技术企业、小巨人企业、标准化示范单位等荣誉称号,产品远销全球40多个国家,赢得了业界和用户的一致认可和尊重,真诚希望和全球各界朋友携手合作,共同发展。

Founded in Shenzhen in 2004, and establishing Suzhou Aode in 2007, Aode specializes in the research, development, production, and sales of high-precision temperature control equipment and core components. Committed to providing customers with efficient, safe, energy-saving, and environmentally friendly industrial temperature control equipment and system solutions, Aode has been recognized as a National Specialized and Innovative Enterprise, a High-Tech Enterprise, a Little Giant Enterprise, and a Standardization Demonstration Unit. Its products are exported to over 40 countries worldwide, winning unanimous recognition and respect from the industry and users. Aode sincerely hopes to cooperate with friends from all walks of life around the world for mutual development.



光学级模具温度控制机

OPTICAL GRADE MOLD TEMPERATURE CONTROL MACHINE

WLS系列

智能 精密 节能 稳定



高精度, 高效率, 低能耗

High precision, high efficiency, low energy

高安全性, 低故障率, 低维护成本

High security, low failure rate, low maintenance cost

更多拓展与选配功能

More expansion and optional

集成化/智能化/多用途

Integrated, intelligent, and versatile

INTELLIGENT / PRECISION / ENERGY SAVING / STABLE

WIDETHERM

高精度 · 高效率 · 低能耗

HIGH PRECISION, HIGH EFFICIENCY, LOW ENERGY

温度精度控制 $\pm 0.1^{\circ}\text{C}$, 采用高精度PT100温度传感器配合无触点SSR温度控制, 控温反应速度快, 计算精准。

Use high-precision PT100, fast reaction speed, temperature control $\pm 0.1^{\circ}\text{C}$.

$\pm 0.1^{\circ}\text{C}$

控温精度

无水箱设计快速的加热系统, 使用间接加热方式, 只对需要的载体进行加热, 避免了多余的能量消耗。

Indirect heating unit, long service life, saving electric energy.

间接加热

减少能耗

快速的冷却时间和精度的冷却控温, 根据不同的温度范围, 系统自动选择直接冷却/或间接冷却的冷却方式。

According to different temperature ranges, the system automatically selects direct cooling or indirect cooling.

自动切换

直接/间接冷却方式

节能型不锈钢泵高效的无轴封磁力泵/达到国际认证的E2等级。

The magnetic pump reaches the E2 level of international certification.

E2等级

节能型磁力泵

自动模具排空功能, 使用泵反转方式达到系统减压与清空的功能。

Automatic mold emptying function, using pump reversal to achieve system pressure reduction and emptying.

自动排空

系统减压与清空

自研核心技术

INDEPENDENT DEVELOPED CORE TECHNOLOGIES

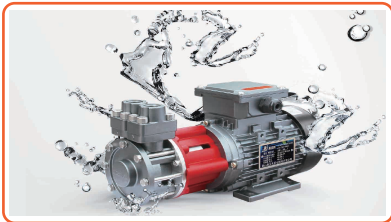
1/ 智能操作系统, 数据化监控。

Intelligent operating system, data-driven monitoring



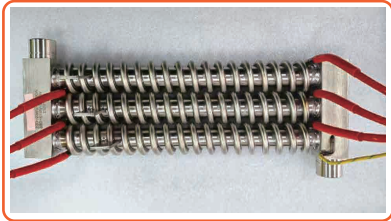
2/ 磁力驱动泵, 杜绝漏水。

Magnetic drive pump, eliminating leaks.



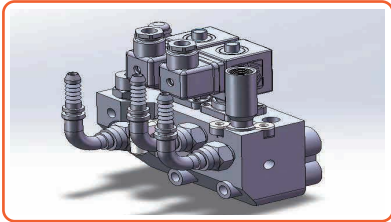
3/ 非浸液管道式节能加热器, 杜绝水垢。

Non-immersed pipeline energy-saving heater, eliminating scale buildup.



4/ 模块化设计, 接头少, 无焊接, 减少泄露风险。

Modular design, fewer joints, no welding, reducing leakage risk.



5/ 泵反转排水功能, 环境友好, 模具清洁。

Pump reverse drainage function, environmentally friendly, mold cleaning easily.



6/ USB数据拷贝, RS485/ OPCUA 通讯功能。

USB data copy, RS485/OPCUA communication function.

高安全性 · 低故障率 · 低维护成本

HIGH SECURITY, LOW FAILURE RATE, LOW MAINTENANCE COST

结构采用不锈钢304, 耐腐蚀, 保证长时间的结构强度。

Stainless steel 304, corrosion-resistant, ensuring long-term

电子式和机械式压力过高保护, 超温、短路、过载, 温度异常的安全报警保护。

High pressure protection, over temperature, short circuit, overload safety mechanism.

采用非接触式加热单元, 避免产生水垢, 温度稳定, 能耗低等优点。

Adopting non-contact heating unit to prevent scale formation

系统结构采用模块集成水路设计, 减少接头连接, 降低泄漏风险, 方便维护。

The system structure adopts a modular integrated waterway design, reducing joint connections, lowering leakage risks, and facilitating maintenance.

高精度的补水程序, 很短时间内实现精度补水。长时间温度的稳定性。

High precision water replenishment program, achieving precise water replenishment in a short period of time. Long



更多拓展与选配功能

MORE EXPANSION AND OPTIONAL FEATURES

多路支流回水温度差检测 Multi-tributary return water temperature difference detection

多路支流回水温差检测,间接性分析每组水路
的温度差数据分析与监控管路是否通畅或者
堵塞.保证每一模产品的稳定性。

Multi channel tributary return water tempera-
ture difference detection, indirect analysis of
temperature difference data for each waterway,
and monitoring of whether the pipeline is unob-
structed or blocked. Ensure the stability of each
the first mock examination product.



多路支流回水流量检测 Multi-tributary return water flow detection

多路支流回水流量检测,直接读取每组水路的
流量数据,直接监控管理是否通畅或者堵塞。
保证每一模产品的稳定性。

Multi channel tributary return water flow detec-
tion, directly reading the flow data of each
waterway, directly monitoring and managing
whether it is unobstructed or blocked. Ensure the
stability of each the first mock examination.



集成化·智能化·多用途

INTEGRATED, INTELLIGENT, AND VERSATILE

优点 Advantage

- 泵反转自动清空模具水路,方便快捷。
- 自动关机冷却停机。
- 温度记忆,可以编辑代码编号对应历史温度设定。
- 断电记忆,智能检测异常停机,自动启动运行恒温。
- 预计升温时间,智能计算升温所需时间。
- 可选用1路或2路水功能,并设计集成模块的水路清洁。
- USB数据拷贝功能。
- RS485/ OPCUA 通讯功能。
- 温度曲线,压力曲线,流量曲线实时监控。
- 外部控温模式,探头可安装模具进行温度控制。
- The pump reverses to automatically empty the mold water circuit, which is convenient and quick.
- Automatic shutdown and cooling stop.
- Temperature memory: editable code numbers corresponding to historical temperature settings.
- Power failure memory: intelligent detection of abnormal shutdown, automatic restart for constant temperature operation.
- Estimated heating time: Intelligent calculation of the required heating time.
- Optional 1-channel or 2-channel water function, with integrated water circuit cleaning module design.
- USB data copy function.
- RS485/OPCUA communication function.
- Real-time monitoring of temperature curves, pressure curves, and flow curves.
- External temperature control mode: Probes can be installed in molds for temperature control.

监控/安全 Monitoring/Security

- 综合数据检测与监控。
- 泵状态数据监控。
- 出水,回水温度监控。
- 系统压力,泵压力数据监控。
- 回水流量监控。
- 加热器配置3组过温保护装置。
- 防干烧综合数据监控。
- 带有电子式和机械式双重防爆保护。
- 综合数据极限值监控与报警机制。
- Comprehensive data detection and monitoring.
- Pump status data monitoring.
- Monitoring of outflow and return water temperatures.
- System pressure and pump pressure data monitoring.
- Return water flow monitoring.
- The heater is equipped with 3 sets of over-temperature protection devices.
- Comprehensive data monitoring for preventing dry burning.
- Equipped with both electronic and mechanical explosion-proof protection.
- Comprehensive data limit value monitoring and alarm mechanism.

液压系统 Hydraulic system

- 模块化设计,减少接头连接。
- 不锈钢磁力泵,防止泄露,寿命长。
- 采用间接式加热模块,不产生水垢。
- 采用板换冷热交换器,控温精度高。
- 可叠加的系统压力精度控制,保证精度补水温度稳定。
- 系统自动排空功能。
- 使用德国威卡高精度压力传感器。
- 使用PT100高精度温度传感器。
- Modular design reduces the number of connectors.
- Stainless steel magnetic pump, leak-proof, long service life.
- The use of an indirect heating module eliminates the formation of scale.
- It adopts a plate heat exchanger, which has high temperature control accuracy.
- The system features superimposed pressure precision control, ensuring stable and precise water replenishment temperature.
- Automatic system drain function.
- Uses a high-precision pressure sensor from WIKA, Germany.
- Using a PT100 high-precision temperature sensor.

操作系统简洁 · 直观 · 清晰

THE CONTROL SYSTEM IS SIMPLE, STRAIGHT, AND CLEAR

界面能直接体现回流温度, 系统压力, 水泵压力, 流量等核心数据, 实时观察运行状态。

The interface can directly reflect core data such as reflux temperature, system pressure, water pump pressure, flow rate, etc., and observe the operating status in real time.

- 7 英寸触摸屏 7-inch touchscreen
- 多国语言选择 Multilingual options
- 仪表盘数据化 Dashboard Data
- 趋势图/曲线图 Trend chart/line chart
- 优化的人机操作 Optimized human-computer interaction

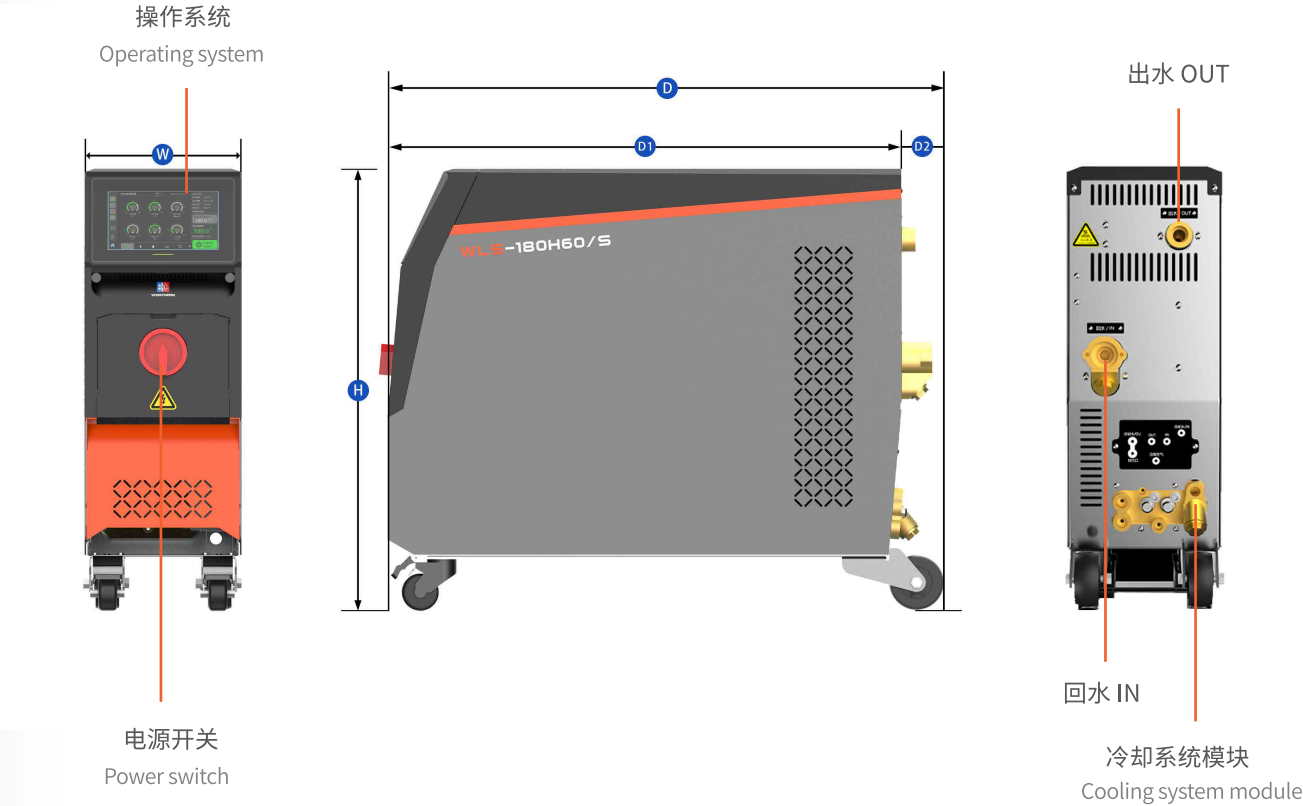


尺寸/结构

SIZE / STRUCTURE

外形尺寸 Outer Dimensions

型号 Model	WLS-160H60-S WLS-180H60-S	WLS-160H90-S WLS-180H90-S	mm	WLS-160H60-S WLS-180H60-S	WLS-160H90-S WLS-180H90-S
供水口 water ingress	DN10+Y型过滤器 Y-type filter		W	210	260
排水口 drainage	DN10内牙		D	750	860
出水口 outlet	DN20内牙		D1	690	800
回水口 backwater	DN20内牙		D2	60	60
排污口 outfall	DN10堵头		H	590	750



选型

SELECTION

温度 max：160℃/180℃
Temperature max

流量 max：60L/min 、90L/min
Flow Rate max

标准规格 Specifications

使用温度范围 Operational Temperature Range			SV设定温度 Above Cooling Water 给水温度+20℃~+160℃		SV设定温度 Above Cooling Water 给水温度+20℃~+180℃	
型号 Model		单位	WLS-160H60-8	WLS-160H90-12	WLS-180H60-8	WLS-180H90-12
电源 Power Supply	电压 Voltage	V	AC380/220V 50Hz 3P			
	空气开关容量Breaker	A	32/40	40/50	32/40	40/50
一次侧给水 Cooling Water	水量 Flow Rate	L/min	20+			
	压力 Pressure	bar	2bar~3bar			
媒体 Medium		/	清水 Clean Water			
加热器 Heater	控制方 Control	/	固态继电器/SSR			
	容量 Capacity	KW	8	12	8	12
增压泵 Booster Pump	压力 Pressure	bar	16bar			
	功率 Output	W/2P	55w			
水泵 Pump	压力 Pressure	bar	4bar	5bar	4bar	5bar
	最大流量 Traffic	L/min	60	90	60	90
	功率 Output	KW/3P	1.1	1.7	1.1	1.7
冷却方式 Cooling Method		/	直接冷却 Direct Cooling		直接+间接冷却 Indirect cooling	
水位检测 Water Level Detection		/	压力式 /综合数据检测			
温度传感器 Temperature Sensor		/	PT100			
产品质量 Product Weight		KG	70	85	70	85

选型

SELECTION

温度 max：160℃/180℃
Temperature max

流量 max: 120L/min 、150L/min
Flow Rate max

标准规格 Specifications

使用温度范围 Operational Temperature Range			SV设定温度 Above Cooling Water 给水温度+20℃~+160℃		SV设定温度 Above Cooling Water 给水温度+20℃~+180℃	
型号 Model		单位	WLS-160H120-16	WLS-160H150-24	WLS-180H120-16	WLS-180H150-24
电源 Power Supply	电压 Voltage	V	AC380/220V 50Hz 3P			
	空气开关容量Breaker	A	50/80	80/100	50/80	80/100
一次侧给水 Cooling Water	水量 Flow Rate	L/min	20+			
	压力 Pressure	bar	2bar~3bar			
媒体 Medium		/	清水 Clean Water			
加热器 Heater	控制方Control	/	固态继电器/SSR			
	容量 Capacity	KW	8*2(16kw)	12*2(24kw)	8*2(16kw)	12*2(24kw)
增压泵 Booster Pump	压力 Pressure	bar	18bar			
	功率 Output	W/2P	150W			
水泵 Pump	压力 Pressure	bar	5bar	6bar	5bar	6bar
	最大流量 Traffic	L/min	120	150	120	150
	功率 Output	KW/3P	2.5	3	2.5	3
冷却方式 Cooling Method	/		直接冷却 Direct Cooling		直接+间接冷却 Indirect cooling	
水位检测 Water Level Detection	/		压力式 /综合数据检测			
温度传感器 Temperature Sensor		/	PT100			
产品质量 Product Weight	KG		100	120	110	130

选型

SELECTION

温度 max：200℃

Temperature max

流量 max: 120L/min 、 150L/min

Flow Rate max

标准规格 Specifications

使用温度范围 Operational Temperature Range			SV设定温度 Above Cooling Water 给水温度+20℃ ~+200℃	
型号 Model		单位	WLS-200H120-16	WLS-200H150-24
电源 Power Supply	电压 Voltage	V	AC380/220V 50Hz 3P	
	空气开关容量Breaker	A	63/80	80/100
一次侧给水 Cooling Water	水量 Flow Rate	L/min	20+	
	压力 Pressure	bar	2bar~3bar	
媒体 Medium		/	清水 Clean Water	
加热器 Heater	控制方Control	/	固态继电器/SSR	
	容量 Capacity	KW	8*2(16kw)	12*2(24kw)
增压泵 Booster Pump	压力 Pressure	bar	20bar	
	功率 Output	W/2P	150W	
水泵 Pump	压力 Pressure	bar	5bar	6bar
	最大流量 Traffic	L/min	120	150
	功率 Output	KW/3P	2.5	3
冷却方式 Cooling Method		/	直接+间接冷却 Indirect cooling	
水位检测 Water Level Detection		/	压力式 /综合数据检测	
温度传感器 Temperature Sensor		/	PT100	
产品质量 Product Weight		KG	100	130

应用领域

APPLICATION AREAS



精密模具成型控温

PRECISION MOLD FORMING TEMPERATURE CONTROL

光学镜头, 精密齿轮, AR/VR光学,精密齿轮, 汽车零部件, 安防监控,医疗器械, 汽车抬头显示HUD,碳纤维制品, 半导体, 检测仪器, 光通讯精密连接器, PEEK铁氟龙材料.....

Optical lenses, precision gears, AR/VR optics, automotive parts, security monitoring, medical devices, automotive head-up displays (HUDs), carbon fiber products, semiconductors, testing instruments, precision connectors for optical communication, PEEK Teflon materials...