

医疗影像系统制冷解决方案

MEDICAL IMAGING SYSTEM COOLING SOLUTIONS

精密控温 · 安静高效 · 安全保障 · 专业定制

PRECISE TEMPERATURE CONTROL · QUIET & EFFICIENT · RELIABLE SAFETY · TAILORED SOLUTIONS



全球服务网络 Global Service Network

高效、可靠的本地服务，在德国、中国、美国、印度均设有工厂。
Efficient & Reliable Local Service, Factories in Germany, China, the United States, India.

格伦丁普莱斯中国 GLEN DIMPLEX CHINA

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专注制冷

50年

50 Years of Cooling Expertise.



www.dimplex.com.cn

来自制冷行业市场引领者的医疗行业制冷解决方案。

全球联合开发，在德国、美国、中国、印度均设有制造工厂。

全球领先的医疗设备制造商普遍采用格伦汀普莱斯的智能冷却系统。

我们为特殊领域提供高精度冷却技术，包括：医疗影像、实验室和分析，以及医疗存储。产品设计可以满足EMC、UL、CE、RoHS及REACH等国际法规要求。

Cooling Solutions for Medical Industrial from a Market Leader in Refrigeration. Joint global development with manufacturing sites established in Germany, the USA, China, and India. Leading global medical technology manufacturers rely on Glen Dimplex's intelligent cooling systems. We provide high-precision cooling technologies for specialized applications including medical imaging, laboratory and analytical equipment, and medical storage. The product is designed to meet international regulatory requirements such as EMC, UL, CE, RoHS, and REACH.

医疗影像 Medical Imaging

磁共振成像
(MRI)

计算机断层扫描
(CT)

直线加速器
(LINAC)

数字减影血管造影
(DSA)

实验室与分析 Laboratories and analysis

体外诊断
(In vitro diagnostics)

特定分析
(有机/食品/材料)

水样采集设备
(Water samplers)

环境技术
(Environmental
technology)

医疗储存 Medical storage

需冷藏储存/仓储
(Storage/warehousing
of products that
require cooling)

血液
(Blood)

药品
(Medicines)

样本
(Samples)

MRI系统制冷解决方案 MRI system cooling solution

专为满足磁共振成像设备对温控精度和系统稳定性的高要求而设计，方案广泛应用于全球主流医疗影像设备制造商的产品中。

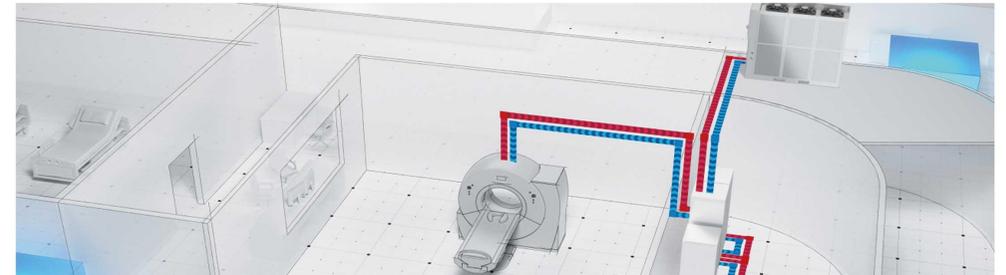
我们的制冷方案具备以下核心特点：

- 高精度温控：保障氦压机、梯度放大器、射频线圈等关键部件稳定运行，提升图像质量。
- 安全稳定：应对高负载与长时间运行，降低宕机风险。
- 多回路冷却：支持多冷却回路独立控制，满足不同部件温控需求。
- 智能监控：实时温度监测与故障预警，支持远程诊断。
- 低噪节能：适用于对噪音与能耗有严格要求的医院环境。
- 定制方案：灵活适配不同MRI系统结构与集成需求。

MRI system cooling solutions are engineered to meet the high demands of temperature precision and operational stability required by MRI systems. These solutions are trusted by leading global medical imaging equipment manufacturers.

Our cooling solutions offer the following key features:

- Precise temperature control: Ensures stable operation of key components for better image quality.
- Reliable performance: Designed for heavy-duty and continuous use, reducing downtime.
- Multi-loop cooling: Independently controls different cooling loops for targeted thermal management.
- Smart monitoring: Real-time temperature tracking and remote diagnostics.
- Low noise & energy-saving: Suited for noise- and energy-sensitive hospital settings.
- Customized solutions: Flexible to meet various MRI system requirements.



CT系统制冷解决方案

CT system cooling solution

我们为高能耗CT系统（如光子计数CT、双源CT）提供高效可靠的制冷解决方案，方案广泛应用于全球主流医疗影像设备制造商的产品中。

我们的制冷方案具备以下核心特点：

专业冷水机

稳定支持高端CT
散热。

LCC技术

实现多通道冷却，
提升温控精度。

紧凑结构

定制制冷模块占用
空间小，易于集
成。

低噪低振

优化设计，提升
用户操作体验。



We deliver efficient and reliable cooling solutions for high-power CT systems such as photon-counting CT and dual-source CT. These solutions are trusted by leading global medical imaging equipment manufacturers.

Our cooling solutions offer the following key features:

- Medical-grade chillers: Ensure stable cooling for high-end CT systems.
- LCC technology: Enables multi-channel cooling with high temperature accuracy.
- Compact modules: Custom design allows easy system integration.
- Low noise & vibration: Optimized for a better user experience.

直线加速器系统制冷解决方案

LINAC system cooling solution

我们为现代放疗设备中的直线加速器提供高效、集成化的制冷解决方案，确保设备在高强度运行下保持稳定温度的同时，还有助于提升图像精度与治疗的安全性。

我们的制冷方案具备以下核心特点：

紧凑集成

定制制冷模块可内置
安装，无需外接冷
却设备。

稳定可靠

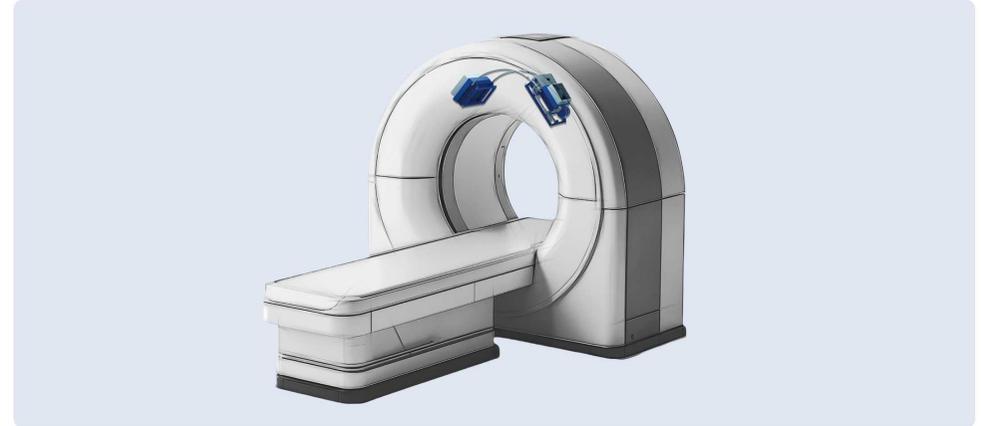
防泄漏接口与抗震
结构，支持高速旋
转运行。

高效换热

常温下仍可输出远
高于传统系统的冷
量。

布局优化

提升运行效率，简
化维护操作。



We provide efficient and integrated cooling solutions for linear accelerators in modern radiotherapy systems, ensuring stable temperatures during high-intensity operation while also enhancing imaging accuracy and treatment safety.

Our cooling solutions offer the following key features:

- Compact integration: Built-in cooling modules, no need for external chillers.
- Stable and reliable: Leak-proof joints and anti-vibration structure support high-speed rotation.
- High-efficiency cooling: Greater output than conventional systems, even at room temperature.
- Optimized layout: Improves efficiency and simplifies maintenance.

数字剪影血管造影系统制冷解决方案 DSA system cooling solution

我们的解决方案专为满足复杂介入手术（如长时间神经介入）中DSA系统长时间、稳定运行的制冷需求而设计。

我们的制冷方案具备以下核心特点：

模块化制冷

定制系统使冷却过程更直接、更高效。

结构紧凑

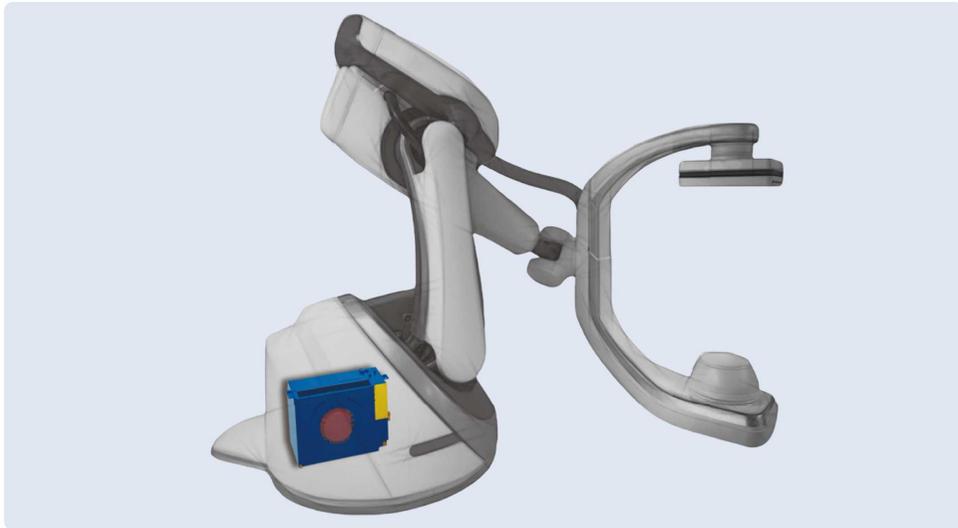
专用冷水机适配空间受限场景。

高效散热

小体积实现强制制冷，“小身材大能量”。

静音设计

降低设备噪音，提升患者舒适度。



Our solution is specifically designed to meet the long-duration and stable cooling requirements of DSA systems during complex interventional procedures, such as extended neuro interventions. Our cooling solutions offer the following key features:

- Modular cooling: Customized system enables direct and efficient thermal management.
- Compact design: Dedicated chiller fits into space-constrained environments.
- Powerful cooling: Delivers strong performance in a small footprint.
- Quiet operation: Reduces noise and enhances patient comfort.

Kool° MC 系列医用冷水机 Kool° MC series Medical Chiller

MC 系列可适应 -25° C 至 +55° C 环境，依托成熟设计和优质供应商零件保障性能：

- 夜间模式节能，一台压缩机满足冷却需求。
- 双水泵自动切换，延长寿命，提升稳定性。
- 冗余设计，确保系统持续可靠运行。



The MC series operates reliably from -25°C to +55°C, supported by proven design and quality components:

- Energy-saving night mode with one compressor.
- Auto switch between dual pumps for longer life and stability.
- Redundant design ensures continuous, reliable operation.

技术参数 Technical Data					
Type	Unit	MC649ASL	MC670ASL	MC649ASH	MC670ASH
Net cooling capacity 净制冷量 (1)	kW	49	70	49	70
Coolant Supply Temperature range 制冷供水温度调节范围	°C	6-20	6-20	6-20	6-20
Temperature accuracy 供水温度精度	K	±2	±2	±2	±2
Ambient Temperature Range 室外温度范围	°C	-25 to 45	-25 to 45	-25 to 55	-25 to 55
Rated Power Supply	V/Ph/Hz	380 ± 10% / 3 / 50 ± 1.5	380 ± 10% / 3 / 50 ± 1.5	400 ± 10% / 3 / 50 ± 1.5	400 ± 10% / 3 / 50 ± 1.5
Rated Power Input (1) 额定输入功率 (1)	kW	35	48	37	45
Maximum Input Current 最大输入电流	A	60	91	62	75
Sound pressure level (2) 噪音等级 (2)	db(A)	61	61	57	60.5
Sound pressure level (3) 噪音等级 (3)	db(A)	49	54	48.5	51.5
Refrigerant 制冷剂	—	R407C	R134a	R134a	R134a
Charge of refrigerant 制冷剂充注量	kg	19	18	11.2	11.2
Coolant Type 载冷剂类型	—	Glycol-water(4060)乙二醇水溶液	Glycol-water(4060)乙二醇水溶液	Glycol-water(4060)乙二醇水溶液	Glycol-water(4060)乙二醇水溶液
Flow Rate 流量	m³/h	7.8	7.8	7.8	7.8
Available pump pressure 可供扬程	Bar	3.5	3.5	3.7	3.7
Tank Volume 水箱容积	l	80	80	100	100
Tank Type 水箱类型	—	Close封闭式水箱	Close封闭式水箱	Close封闭式水箱	Close封闭式水箱
Number of Pump 水泵数量	n.	2	2	1	1
Water Connections 水连接方式	—	R1 1/2" external thread 外螺纹	R1 1/2" external thread 外螺纹	G 2" external thread 外螺纹	G 2" external thread 外螺纹
Size 产品尺寸					
Dimensions for transport(L x H x W) 包装尺寸	mm	2,500x2,225x1,160	2,940x2,220x1,140	1,770 x 2,105x 956	2380 x 2,190x 990
Dimensions(L x H x W) 机组尺寸	mm	2,400x2,002x1,070	2,860x2,000x1,067	1,645 x 1,930x 855	2,295 x 1,930x 855
Weight for transport 毛重	kg	1070	1183	799	987
Weight (empty) 净重	kg	902	1015	652	835

(1) 环境温度40°C, 供水温度10°C Ambient temperature 40°C, Supply water temperature 10°C (2) 满载 Full load (3) 部分负载 Partial load