



高效
Energy saving

节能
High efficiency

ThermoJinn

氟利昂系列吊顶式冷风机 Freon Ceiling Unit Cooler



ThermoJinn

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- ▶ IDF系列吊顶式冷风机 IDF Ceiling Unit cooler
- ▶ 制冷剂 HFC Refrigerant HFC
- ▶ 直膨供液方式 Direct expanding operation
- ▶ 运行压力最高5.0Mpa For high pressure up to 5.0Mpa
- ▶ 制冷量范围 4~180kw Capacity 4-180kw
- ▶ 适用库房温度 5~40℃ Application temperature 5~40℃
- ▶ 有效射程高达 70米 Air throw up to 70m

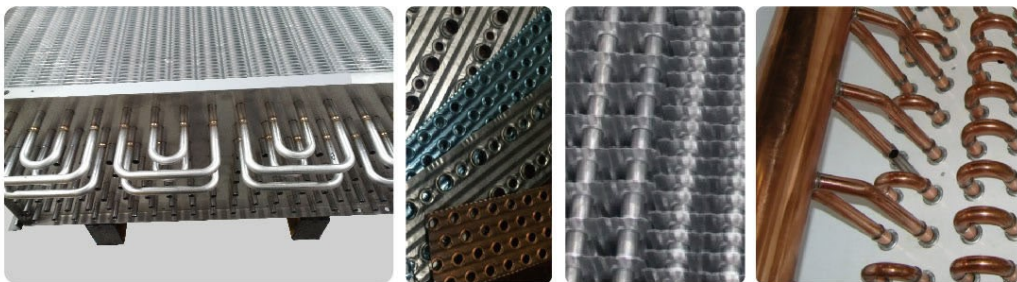


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IDF 系列冷风机 性能和结构应用特点

Application Advantage for performance & structure

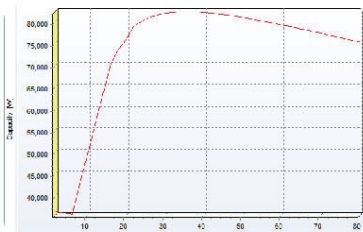


盘管概况

- ▲ $\Phi 16\text{mm}$ 不锈钢紫铜管或换热管 (304或316L)
- ▲ 正弦波高导热波纹翅片
- ▲ 翅片材质可选用铝、铝镁合金、不锈钢和涂层片
- ▲ 常用翅片间距4.5mm, 7mm, 10mm, 12mm
- ▲ 根据用户特殊应用要求可以定制其它翅片间距

Coil Block

- ▲ $\Phi 16\text{mm}$ Copper tube or stainless steel tube(304 or 316L)
- ▲ High efficiency sine wave fin
- ▲ Fin material:8011, AlMg3, 304(316L), Coated
- ▲ Fin Pitch: 4.5mm, 7mm, 10mm, 12mm
- ▲ Other fin pitches can be customized by user

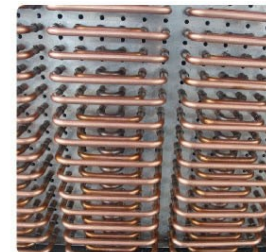


优化的设计

- ▲ 冷风机外观和结构采用3D设计软件整体参数化设计可以快速设计定制型产品
- ▲ 先进的盘管性能设计软件模拟实际运行的换热状况通过对管路调整, 保证了制冷量最大化
- ▲ 可以为定制用户提供最真实可靠的数据
- ▲ 检修门的设计为安装, 可能的维护和维修带来便利
- ▲ 支撑脚的设计为产品的搬运和安装提供了方便也可以根据用户要求作为底部安装支撑来使用
- ▲ 标准外壳材质镀锌板, 表面喷涂RAL9018白色, 可根据用户要求选用铝合金和不锈钢材质

Optimized Design

- ▲ Structures and covers of Unit Cooler are designed by our 3D software Using this software we design your customized air cooler parametrically.
- ▲ Our advanced coil software can simulate your running heating conditions We can optimized the coil tubes to get best cooling capacity.
- ▲ We can provide CAD drawings and reliable data of your customized products
- ▲ Using maintenance door, checking and maintenance will be easier.
- ▲ Support feet are considered which can provide convenience of installing and carrying Also you can using these feet as installing supports.
- ▲ Normal casing material is galvanized steel ,power coated white RAL9018 Other option: Aluminum or stainless steel

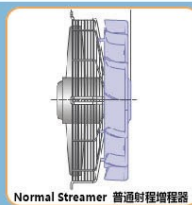
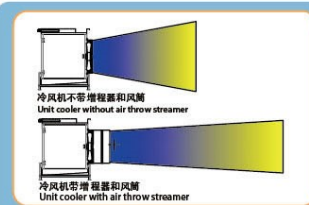


安全运行的保证

- ▲ 不锈钢管道运行压力高达5.0Mpa, 爆破压力达50Mpa
- ▲ 3.0Mpa耐压测试, 保压时间24小时
- ▲ 不锈钢涡流探伤确保原材料管道的可靠性
- ▲ 弯头焊接采用全自动氩弧焊, 焊缝成型美观, 焊接强度高, 保证了焊接的质量
- ▲ 盘管采用浮动盘管技术。穿管悬浮在固定板中间, 避免在运行中和运输中穿管和固定板之间的摩擦, 而造成的泄漏。

Guarantee of Safe Running

- ▲ Stainless steel Pipe running pressure to 5.0Mpa, Blasting pressure to 50Mpa
- ▲ Nitrogen pressure testing 3.0Mpa which keeping 24 hours.
- ▲ Eddy current testing provide good quality of stainless steeltube
- ▲ TIG welding process of bend is fully automatic which can guarantee high strength and good appearance
- ▲ Float-Coil Tech. which can float tubes in the centre of plate holes. Avoiding direct friction between tubes and plates which may causing leakage of tubes in process of running and transport



风机系统

- ▲ 选用增程器, 送风距离可达70m
- ▲ 电机防护等级IP54, 绝缘等级F
- ▲ 风筒式轴流风机选用高强度压铸铝材质扇叶
- ▲ 电机适用温度范围: $-45^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- ▲ 可根据用户应用需求选用超低噪音风机
- ▲ 可根据用户应用需求选用不锈钢扇叶风机
- ▲ 电机功率会随着空气温度的高低以及外部风阻的改变而变化

Fan system

- ▲ Extended air throw streamer, air throw can reach to 70m
- ▲ Motor protection class IP54, Insulation grade F
- ▲ Duct axial fan blades are made of casting aluminum
- ▲ Motor application temperature: $-45^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- ▲ Lower noise fan is possible for special application conditions
- ▲ Motor power will be changed with the change of air temperature and resistance

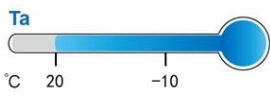
快速融霜系统

- ▲ 电化霜-采用可靠的不锈钢电加热管, 电热管分布盘管、水盘和风机
- ▲ 水冲霜-淋水盘式冲霜, 冲霜更均匀, 效率更高, 减少冲霜水外溅, 外置冲霜水盘, 方便以后拆卸清洗或者更换, 降低维护成本
- ▲ 热气冲霜-水盘铺设热气管, 节能、高效的冲霜方式, 清除管内积油
- ▲ 可以根据应用需求组合冲霜

Rapid Defrosting System

- ▲ Electrical defrosting- stainless steel heating pipe, installed in fan, coil and water pan
- ▲ Water defrosting- water tray spraying
- ▲ Hot gas defrosting- hot gas pipe set in tray, energy saving and high efficiency, help oil return to compressor
- ▲ Combine different defrosting ways together

IDF 系列冷风机技术参数 Technical data- IDF series



型号 Model	制冷量 Normal Capacity R404A		轴流风机 Fans 50Hz		电熔霜 Electrical Defrosting		水冲霜* Water Defrosting		冷媒接口 Refrigerant Connector		BSPT						
	DT=10K-SC2 Te=0°C	DT=8K-SC2 Te=-8°C	换热面积 Exchange Surface	管径 Tube Diameter	风量 Air Flow	电功率 Motor Power	电压 Voltage	电功率 Coil Power	电压 Voltage	冲霜水量 Water Volume							
												风量 Air Flow	电压 Voltage	冲霜水量 Water Volume			
050.1/1F.5	11.1	8.6	54	10.1	6650	16	500	0.55	380/3/50	3240	380/3/50	6	1"	16	28	16	1"

注意:
1. DT是空气进口温度和蒸发温度之差, Te指制冷剂的蒸发温度
2. 冷风机的制冷量是在R404A情况下的计算结果
3. SC1工况: DT=10K, 蒸发温度0°C, 环境温度10°C, 相对湿度85%
4. SC2工况: DT=8K, 蒸发温度-8°C, 环境温度0°C, 相对湿度85%
5. 适用膨胀阀供液方式
6. 如果是其他运行工况, 请与我公司联系

型号 Model	制冷量 Capacity R404A		轴流风机 Fans 50Hz		电熔霜 Electrical Defrosting		水冲霜* Water Defrosting		冷媒接口 Refrigerant Connection		BSPT						
	DT=8K-SC2 Te=-8°C	DT=7K-SC3 Te=-25°C	换热面积 Exchange Surface	管径 Tube Diameter	风量 Air Flow	电功率 Motor Power	电压 Voltage	电功率 Coil Power	电压 Voltage	冲霜水量 Water Volume							
												风量 Air Flow	电压 Voltage	冲霜水量 Water Volume			
050.1/1S.7	8.7	6.7	54	13.7	6500	15	500	0.55	380/3/50	5400	380/3/50	6	1"	16	28	16	1"

注意:
1. DT是空气进口温度和蒸发温度之差, Te指制冷剂的蒸发温度
2. 冷风机的制冷量是在R404A情况下的计算结果
3. SC2工况: DT=8K, 蒸发温度-8°C, 环境温度0°C, 相对湿度85%
4. SC3工况: DT=7K, 蒸发温度-25°C, 环境温度-18°C, 相对湿度95%
5. 适用膨胀阀供液方式
6. 如果是其他运行工况, 请与我公司联系



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IDF 系列冷风机 外形展示 Shape display



1. DT (the difference between the air inlet temperature and the evaporating temperature)
2. The capacity of unit cooler is calculated with R404A
3. SC3 condition: DT=7K, Evaporating temperature -25°C, room temperature -18°C, RH85%
4. SC4 condition: DT=6K, Evaporating temperature -31°C, room temperature -25°C, RH95%
5. Direct expanding operation
6. Other running condition, please contract our company

IDF 系列冷风机 外形尺寸示意图 Outline dimension sketch map

