高 效
Energy saving
节 能
High efficiency

# ThermoJinn

## 氨系列吊顶式冷风机
## NH3 Ceiling Unit Cooler

# ThermoJinn


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| | |
|---|---|
| IDA系列吊顶式冷风机 | IDA Ceiling Unit cooler |
| 制冷剂 R717 | Refrigerant R717 |
| 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 |

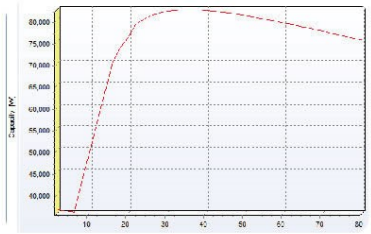
# IDA 系列冷风机 性能和结构应用特点 Application Advantage for performance &structure

## 盘管概况

- Φ16mm铝合金或者不锈钢换热管（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

- Φ16mm ALuminum 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 pitchs can be customized by user



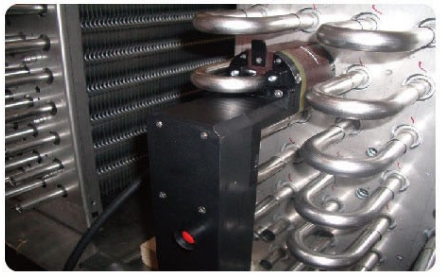
## 优化的设计

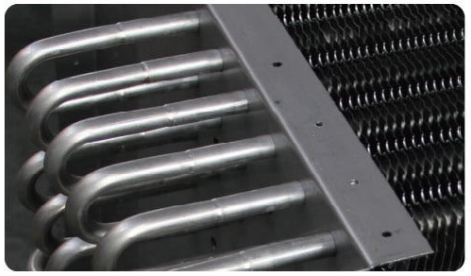
- 冷风机外观和结构采用3D设计软件整体参数化设计，可以快速设计定制型产品
- 先进的盘管性能设计软件模拟实际运行的换热状况，通过对管路的调整，保证了制冷量最大化
- 可以为定制用户提供最真实可靠的数据
- 检修门的设计为安装，可能的维护和维修带来便利
- 支撑脚的设计为产品的搬运和安装提供了方便，也可以根据用户要求作为底部安装支撑来使用
- 标准外壳材质镀锌板，表面喷涂RAL9018白色，可根据用户要求选用铝合金和不锈钢材质

## Optimized Design

- Sturctures and covers of Unit Cooler are designed by our 3D software Using this software we design your customized air cooler parametricaly.
- 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 maintance door, checking and maintance will be easier.
- Suppport foots are consided which can provice convenience of installing and carring Also you can using these foots as installing supports.
- Normal casing material is galvanized steel, power coated white RAL9018, Other option: Aluminum or stainless steel





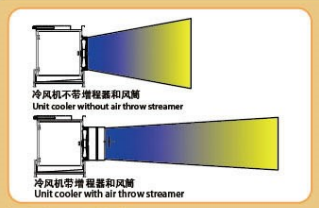


## 安全运行的保证

- 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 appreance
- 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℃~50℃
- 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 axical fan blades are made of casting aluminum
- Motor application temperature: -45℃~50℃
- 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 Syetem

- 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
- Conbine different defrosting ways together

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

Ta
℃ 20 −10

NH3 • 4.5mm FP

| IDA 系列/Series | | 4.5mm片距/ Fin Pitch | | | | | Application To 20~-10℃ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 型号 Model | 制冷量(氨) Normal Capacity NH3 DT=10K Te=-10℃ | 换热面积 Exchange Surface | 管道容积 Tube Volume | 风量 Air Flow | 射程 Air Throw | 轴流风机 Fans 50Hz 风机直径 Fan Diameter | 电机功率 Motor Power | 电源 Voltage | 电熔霜 Electrical Defrosting 电热管总功率 Coil Power | 电源 Voltage | 冷媒接口 Refrigerant Connection 供液口 Inlet pipe | 回气口 Outlet pipe | 热气进口 Hot Gas Inlet |
| | | KW | m² | L | m³/h | m | Φmm | kw | V | W | | mm | | |
| One Fan | 050.1/1F.5 | 12 | 54 | 10.1 | 6650 | 16 | 500 | 0.55 | 380/3/50 | 3240 | 380/3/50 | 16 | 38 | 25 |
| | 050.1/1FI.5 | 14 | 68 | 11.4 | 6400 | 15 | 500 | 0.55 | 380/3/50 | 4080 | 380/3/50 | 16 | 38 | 25 |
| | 050.1/1S.5 | 15.4 | 81 | 13.7 | 6100 | 15 | 500 | 0.55 | 380/3/50 | 4860 | 380/3/50 | 16 | 38 | 25 |
| | 050.1/1E.5 | 17.4 | 108 | 18.3 | 5600 | 14 | 500 | 0.55 | 380/3/50 | 6480 | 380/3/50 | 25 | 45 | 25 |
| | 063.1/1F.5 | 19.3 | 82 | 13.9 | 10100 | 22 | 630 | 0.94 | 380/3/50 | 4920 | 380/3/50 | 25 | 45 | 25 |
| | 063.1/1FI.5 | 22.6 | 103 | 17.4 | 9800 | 22 | 630 | 0.94 | 380/3/50 | 6180 | 380/3/50 | 25 | 45 | 25 |
| | 063.1/1S.5 | 25.5 | 123 | 20.9 | 9550 | 22 | 630 | 0.94 | 380/3/50 | 7380 | 380/3/50 | 25 | 45 | 25 |
| | 063.1/1E.5 | 29.4 | 165 | 27.9 | 9000 | 20 | 630 | 0.94 | 380/3/50 | 9900 | 380/3/50 | 25 | 45 | 25 |
| | 071.1/1F.5 | 28 | 120 | 20.3 | 15000 | 25 | 710 | 1.8 | 380/3/50 | 7200 | 380/3/50 | 25 | 45 | 25 |
| | 071.1/1FI.5 | 32.7 | 150 | 25.4 | 14300 | 25 | 710 | 1.8 | 380/3/50 | 9000 | 380/3/50 | 25 | 57 | 25 |
| | 071.1/1S.5 | 37 | 180 | 30.5 | 14000 | 25 | 710 | 1.8 | 380/3/50 | 10800 | 380/3/50 | 25 | 57 | 25 |
| | 071.1/1E.5 | 43.7 | 240 | 40.6 | 13500 | 25 | 710 | 1.8 | 380/3/50 | 14400 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1F.5 | 38.6 | 165 | 27.9 | 20300 | 30 | 900 | 2 | 380/3/50 | 9900 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1FI.5 | 45.3 | 206 | 34.8 | 19600 | 30 | 900 | 2 | 380/3/50 | 12360 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1S.5 | 51 | 247 | 41.8 | 19100 | 30 | 900 | 2 | 380/3/50 | 14820 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1E.5 | 57.9 | 330 | 55.7 | 17600 | 28 | 900 | 2 | 380/3/50 | 19800 | 380/3/50 | 32 | 76 | 32 |
| Two Fans | 050.1/2F.5 | 25.6 | 108 | 20.2 | 13300 | 18 | 500 | 1.1 | 380/3/50 | 6480 | 380/3/50 | 25 | 57 | 25 |
| | 050.1/2FI.5 | 30 | 136 | 22.8 | 12800 | 17 | 500 | 1.1 | 380/3/50 | 8160 | 380/3/50 | 25 | 57 | 25 |
| | 050.1/2S.5 | 33.4 | 162 | 27.4 | 12200 | 17 | 500 | 1.1 | 380/3/50 | 9720 | 380/3/50 | 25 | 57 | 25 |
| | 050.1/2E.5 | 37.9 | 216 | 36.6 | 11200 | 16 | 500 | 1.1 | 380/3/50 | 12960 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2F.5 | 38.1 | 164 | 27.8 | 20200 | 25 | 630 | 1.88 | 380/3/50 | 9840 | 380/3/50 | 25 | 57 | 32 |
| | 063.1/2FI.5 | 44.9 | 206 | 34.8 | 19600 | 25 | 630 | 1.88 | 380/3/50 | 12360 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2S.5 | 50.7 | 246 | 41.8 | 19100 | 25 | 630 | 1.88 | 380/3/50 | 14760 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2E.5 | 59 | 330 | 55.8 | 18000 | 22 | 630 | 1.88 | 380/3/50 | 19800 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2F.5 | 57.5 | 240 | 40.6 | 30000 | 27 | 710 | 3.6 | 380/3/50 | 14400 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2S.5 | 75.7 | 360 | 61 | 28000 | 27 | 710 | 3.6 | 380/3/50 | 21600 | 380/3/50 | 38 | 76 | 32 |
| | 071.1/2E.5 | 89 | 480 | 81.2 | 27000 | 27 | 710 | 3.6 | 380/3/50 | 28800 | 380/3/50 | 38 | 76 | 32 |
| | 090.1/2F.5 | 76.3 | 330 | 55.8 | 40600 | 32 | 900 | 4 | 380/3/50 | 19800 | 380/3/50 | 38 | 76 | 32 |
| | 090.1/2FI.5 | 89.8 | 412 | 69.6 | 39200 | 32 | 900 | 4 | 380/3/50 | 24720 | 380/3/50 | 38 | 76 | 32 |
| | 090.1/2S.5 | 101.3 | 494 | 83.6 | 38200 | 32 | 900 | 4 | 380/3/50 | 29640 | 380/3/50 | 45 | 89 | 45 |
| | 090.1/2E.5 | 116.4 | 660 | 111.4 | 35200 | 32 | 900 | 4 | 380/3/50 | 39600 | 380/3/50 | 45 | 89 | 45 |
| Three Fans | 050.1/3F.5 | 38.1 | 162 | 30.3 | 19950 | 20 | 500 | 1.65 | 380/3/50 | 9720 | 380/3/50 | 25 | 45 | 32 |
| | 050.1/3FI.5 | 44.6 | 204 | 34.2 | 19200 | 18 | 500 | 1.65 | 380/3/50 | 12240 | 380/3/50 | 32 | 57 | 32 |
| | 050.1/3S.5 | 51 | 243 | 41.1 | 18300 | 18 | 500 | 1.65 | 380/3/50 | 14580 | 380/3/50 | 32 | 57 | 32 |
| | 050.1/3E.5 | 56.7 | 324 | 54.9 | 16800 | 18 | 500 | 1.65 | 380/3/50 | 19440 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/3F.5 | 59.2 | 246 | 41.7 | 30300 | 27 | 630 | 2.82 | 380/3/50 | 14760 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/3S.5 | 78.2 | 369 | 62.7 | 28650 | 27 | 630 | 2.82 | 380/3/50 | 22140 | 380/3/50 | 38 | 76 | 32 |
| | 063.1/3E.5 | 90.5 | 495 | 83.7 | 27000 | 25 | 630 | 2.82 | 380/3/50 | 29700 | 380/3/50 | 38 | 76 | 32 |
| | 071.1/3F.5 | 84.8 | 360 | 60.9 | 45000 | 30 | 710 | 5.4 | 380/3/50 | 21600 | 380/3/50 | 38 | 76 | 32 |
| | 071.1/3S.5 | 112.1 | 540 | 91.5 | 42000 | 29 | 710 | 5.4 | 380/3/50 | 32400 | 380/3/50 | 38 | 76 | 45 |
| | 071.1/3E.5 | 132.3 | 720 | 121.8 | 40500 | 29 | 710 | 5.4 | 380/3/50 | 43200 | 380/3/50 | 45 | 89 | 45 |
| | 090.1/3F.5 | 116.8 | 495 | 83.7 | 60900 | 35 | 900 | 6 | 380/3/50 | 29700 | 380/3/50 | 45 | 89 | 45 |
| | 090.1/3S.5 | 159.8 | 741 | 125.4 | 57300 | 35 | 900 | 6 | 380/3/50 | 44460 | 380/3/50 | 45 | 89 | 45 |
| | 090.1/3E.5 | 177 | 990 | 167.1 | 52800 | 35 | 900 | 6 | 380/3/50 | 59400 | 380/3/50 | 57 | 108 | 45 |

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NH3情况下的计算结果
3、适用桶泵供液方式，循环比例3:1
4、如果是其他运行工况，请与我公司联系

Note:
1.DT(the difference between the air inlet temperature and the evaporating temperature)
2.The capacity of unit cooler is calculated with NH3
3.Pump operation,recirculation ratio 3:1
4.Other running condition, please contract our company



Ta
℃ 20 −20

NH3 • 7.0mm FP

| IDA 系列/Series | | 7mm片距/Fin Pitch | | | | | Application To 20~-20℃ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 型号 Model | 制冷量(氨) Normal Capacity NH3 DT=10K Te=-30℃ | 换热面积 Exchange Surface | 管道容积 Tube Volume | 风量 Air Flow | 射程 Air Throw | 轴流风机 Fans 50Hz 风机直径 Fan Diameter | 电机功率 Motor Power | 电源 Voltage | 电熔霜 Electrical Defrosting 电热管总功率 Coil Power | 电源 Voltage | 冷媒接口 Refrigerant Connection 供液口 Inlet pipe | 回气口 Outlet pipe | 热气进口 Hot Gas Inlet |
| | | KW | m² | L | m³/h | m | Φmm | kw | V | W | | mm | | |
| One Fan | 063.1/1FI.7 | 15.4 | 68 | 17.4 | 10200 | 22 | 630 | 0.94 | 380/3/50 | 8160 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1S.7 | 17.8 | 82 | 20.9 | 10000 | 22 | 630 | 0.94 | 380/3/50 | 9840 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1E.7 | 20.6 | 109 | 27.9 | 9000 | 20 | 630 | 0.94 | 380/3/50 | 13080 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1FI.7 | 22 | 100 | 25.4 | 15000 | 25 | 710 | 1.8 | 380/3/50 | 12000 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1S.7 | 25.1 | 119 | 30.5 | 14600 | 25 | 710 | 1.8 | 380/3/50 | 14280 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1E.7 | 30.5 | 158 | 40.6 | 14200 | 25 | 710 | 1.8 | 380/3/50 | 18960 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1FI.7 | 34.4 | 136 | 34.8 | 20000 | 30 | 900 | 2 | 380/3/50 | 16320 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1S.7 | 41.6 | 163 | 41.8 | 19800 | 30 | 900 | 2 | 380/3/50 | 19560 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1E.7 | 41.6 | 217 | 55.7 | 19000 | 28 | 900 | 2 | 380/3/50 | 26040 | 380/3/50 | 32 | 57 | 32 |
| Two Fans | 063.1/2FI.7 | 30.8 | 136 | 34.8 | 20400 | 25 | 630 | 1.88 | 380/3/50 | 16320 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2S.7 | 35.3 | 164 | 41.8 | 20000 | 25 | 630 | 1.88 | 380/3/50 | 19680 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2E.7 | 40.8 | 218 | 55.8 | 18000 | 22 | 630 | 1.88 | 380/3/50 | 26160 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2FI.7 | 44.4 | 198 | 50.8 | 30000 | 27 | 710 | 3.6 | 380/3/50 | 23760 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2S.7 | 50.6 | 238 | 61 | 29200 | 27 | 710 | 3.6 | 380/3/50 | 28560 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/2E.7 | 61.4 | 316 | 81.2 | 28400 | 27 | 710 | 3.6 | 380/3/50 | 37920 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2FI.7 | 61 | 272 | 69.6 | 40000 | 32 | 900 | 4 | 380/3/50 | 32640 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2S.7 | 70.3 | 326 | 83.6 | 39600 | 32 | 900 | 4 | 380/3/50 | 39120 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2E.7 | 84.4 | 434 | 111.4 | 38000 | 32 | 900 | 4 | 380/3/50 | 52080 | 380/3/50 | 38 | 76 | 38 |
| Three Fans | 063.1/3FI.7 | 45.7 | 205 | 52.2 | 30600 | 27 | 630 | 2.82 | 380/3/50 | 24600 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3S.7 | 53.3 | 246 | 62.7 | 30000 | 27 | 630 | 2.82 | 380/3/50 | 29520 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3E.7 | 61.8 | 327 | 83.7 | 27000 | 25 | 630 | 2.82 | 380/3/50 | 39240 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3FI.7 | 68.5 | 298 | 76.2 | 45000 | 29 | 710 | 5.4 | 380/3/50 | 35760 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3S.7 | 78.1 | 357 | 91.5 | 43800 | 29 | 710 | 5.4 | 380/3/50 | 42840 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3E.7 | 94 | 474 | 121.8 | 42600 | 29 | 710 | 5.4 | 380/3/50 | 56880 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3FI.7 | 92.3 | 407 | 104 | 60000 | 35 | 900 | 6 | 380/3/50 | 48840 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3S.7 | 106.2 | 489 | 125.4 | 59400 | 35 | 900 | 6 | 380/3/50 | 58680 | 380/3/50 | 45 | 89 | 38 |
| | 090.1/3E.7 | 127.7 | 651 | 167.1 | 57000 | 35 | 900 | 6 | 380/3/50 | 78120 | 380/3/50 | 45 | 89 | 38 |

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NH3情况下的计算结果
3、适用桶泵供液方式，循环比例3:1
4、如果是其他运行工况，请与我公司联系

Note:
1.DT(the difference between the air inlet temperature and the evaporating temperature)
2.The capacity of unit cooler is calculated with NH3
3.Pump operation,recirculation ratio 3:1
4.Other running condition, please contract our company

样品数据不断更新，选型前请咨询我公司
Catologue data constantly update, please contract us before selection

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

Ta

°C　20　-30

10mm

IDA 系列/Series　10mm片距/10mm Fin Pitch　Application To 20~-30℃

| | 型号 Model | 制冷量 Normal Capacity NH3 DT=10K Te=-40℃ | 换热面积 Exchange SurTace | 管道容积 Tube Volume | 风量 Air Tlow | 射程 Air Throw | 轴流风机 Tans 50Hz 风机直径 Tan Diameter | 电机功率 Motor Power | 电源 Voltage | 电熔霜 Electrical DeTrosting 电热管总功率 Coil Power | 电源 Voltage | 冷媒接口 ReTrigerant Connection 供液口 Inlet pipe | 回气口 Outlet pipe | 热气进口 Hot Gas Inlet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | KW | m² | L | m³/h | m | Φmm | kw | V | W | | mm | | |
| One Fan | 063.1/1S.10 | 14.5 | 59 | 20.9 | 10200 | 22 | 630 | 0.94 | 380/3/50 | 3540 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1E.10 | 18 | 78 | 27.9 | 9900 | 20 | 630 | 0.94 | 380/3/50 | 4680 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1T.10 | 20.6 | 98 | 34.8 | 9500 | 20 | 630 | 0.94 | 380/3/50 | 5880 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1S.10 | 20.6 | 85 | 30.5 | 15000 | 25 | 710 | 1.8 | 380/3/50 | 5100 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1E.10 | 25.7 | 114 | 40.6 | 14600 | 25 | 710 | 1.8 | 380/3/50 | 6840 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/1T.10 | 29.7 | 143 | 50.7 | 14000 | 25 | 710 | 1.8 | 380/3/50 | 8580 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1S.10 | 28.9 | 117 | 41.8 | 20300 | 30 | 900 | 2 | 380/3/50 | 7020 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1E.10 | 35.9 | 157 | 55.7 | 19800 | 28 | 900 | 2 | 380/3/50 | 9420 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1T.10 | 40.9 | 196 | 69.6 | 19000 | 28 | 900 | 2 | 380/3/50 | 11760 | 380/3/50 | 38 | 57 | 32 |
| Two Fans | 063.1/2S.10 | 29.1 | 118 | 41.8 | 20400 | 25 | 630 | 1.88 | 380/3/50 | 7080 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2E.10 | 36.1 | 156 | 55.8 | 19800 | 22 | 630 | 1.88 | 380/3/50 | 9360 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2T.10 | 41.5 | 196 | 69.6 | 19000 | 22 | 630 | 1.88 | 380/3/50 | | 380/3/50 | 38 | 76 | 38 |
| | 071.1/2S.10 | 42.3 | 170 | 61 | 30000 | 27 | 710 | 3.6 | 380/3/50 | 10200 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/2E.10 | 52.7 | 228 | 81.2 | 29200 | 27 | 710 | 3.6 | 380/3/50 | 13680 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/2T.10 | 60.7 | 286 | 101.4 | 28000 | 27 | 710 | 3.6 | 380/3/50 | | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2S.10 | 58 | 234 | 83.6 | 40600 | 32 | 900 | 4 | 380/3/50 | 14040 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2E.10 | 72.2 | 314 | 111.4 | 39600 | 32 | 900 | 4 | 380/3/50 | 18840 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2T.10 | 82.9 | 392 | 139.2 | 38000 | 32 | 900 | 4 | 380/3/50 | | 380/3/50 | 38 | 76 | 38 |
| Three Fans | 063.1/3S.10 | 43.9 | 177 | 62.7 | 30600 | 27 | 630 | 2.82 | 380/3/50 | 10620 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3E.10 | 54.6 | 234 | 83.7 | 29700 | 25 | 630 | 2.82 | 380/3/50 | 14040 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3T.10 | 62.8 | 294 | 104.4 | 28500 | 25 | 630 | 2.82 | 380/3/50 | | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3S.10 | 64.4 | 255 | 91.5 | 45000 | 29 | 710 | 5.4 | 380/3/50 | 15300 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3E.10 | 79.2 | 342 | 121.8 | 43800 | 29 | 710 | 5.4 | 380/3/50 | 20520 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3T.10 | 92 | 429 | 152.1 | 42000 | 29 | 710 | 5.4 | 380/3/50 | | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3S.10 | 87.7 | 351 | 125.4 | 60900 | 35 | 900 | 6 | 380/3/50 | 21060 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3E.10 | 109.2 | 471 | 167.1 | 59400 | 35 | 900 | 6 | 380/3/50 | 28260 | 380/3/50 | 45 | 89 | 38 |
| | 090.1/3T.10 | 125.7 | 588 | 208.8 | 57000 | 35 | 900 | 6 | 380/3/50 | | 380/3/50 | 45 | 89 | 38 |

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NH3情况下的计算结果
3、适用桶泵供液方式，循环比例3:1
4、如果是其他运行工况，请与我公司联系

Note:
1.DT(the difference between the air inlet temperature and the evaporating temperature)
2.The capacity of unit cooler is calculated with NH3
3.Pump operation,recirculation ratio 3:1
4.Other running condition, please contract our company



Ta

°C　20　-40

12mm

IDA 系列/Series　12mm片距/12mm Fin Pitch　Application To 20~-40℃

| | 型号 Model | 制冷量 Normal Capacity NH3 DT=10K Te=-45℃ | 换热面积 Exchange SurTace | 管道容积 Tube Volume | 风量 Air Tlow | 射程 Air Throw | 轴流风机 Tans 50Hz 风机直径 Tan Diameter | 电机功率 Motor Power | 电源 Voltage | 电熔霜 Electrical DeTrosting 电热管总功率 Coil Power | 电源 Voltage | 冷媒接口 ReTrigerant Connection 供液口 Inlet pipe | 回气口 Outlet pipe | 热气进口 Hot Gas Inlet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | KW | m² | L | m³/h | m | Φmm | kw | V | W | | mm | | |
| One Fan | 063.1/1S.12 | 12.1 | 50 | 20.9 | 10300 | 22 | 630 | 0.94 | 380/3/50 | 7500 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1E.12 | 15.2 | 66 | 27.9 | 10000 | 20 | 630 | 0.94 | 380/3/50 | 9900 | 380/3/50 | 25 | 45 | 32 |
| | 063.1/1T.12 | 17.7 | 83 | 34.8 | 9600 | 20 | 630 | 0.94 | 380/3/50 | 12450 | 380/3/50 | 25 | 45 | 32 |
| | 071.1/1S.12 | 18.4 | 72 | 30.5 | 15200 | 25 | 710 | 1.8 | 380/3/50 | 10800 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/1E.12 | 23.1 | 97 | 40.6 | 14800 | 25 | 710 | 1.8 | 380/3/50 | 14550 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/1T.12 | 24.7 | 121 | 50.7 | 14200 | 25 | 710 | 1.8 | 380/3/50 | 18150 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1S.12 | 25.1 | 100 | 41.8 | 20500 | 30 | 900 | 2 | 380/3/50 | 15000 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1E.12 | 31.7 | 133 | 55.7 | 20000 | 28 | 900 | 2 | 380/3/50 | 19950 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/1T.12 | 36.9 | 166 | 69.6 | 19200 | 28 | 900 | 2 | 380/3/50 | 24900 | 380/3/50 | 32 | 57 | 32 |
| Two Fans | 063.1/2S.12 | 25.6 | 100 | 41.8 | 20600 | 25 | 630 | 1.88 | 380/3/50 | 15000 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2E.12 | 32.3 | 132 | 55.8 | 20000 | 22 | 630 | 1.88 | 380/3/50 | 19800 | 380/3/50 | 32 | 57 | 32 |
| | 063.1/2T.12 | 37.4 | 166 | 69.6 | 19200 | 22 | 630 | 1.88 | 380/3/50 | 24900 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2S.12 | 37.4 | 144 | 61 | 30400 | 27 | 710 | 3.6 | 380/3/50 | 21600 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2E.12 | 47 | 194 | 81.2 | 29600 | 27 | 710 | 3.6 | 380/3/50 | 29100 | 380/3/50 | 32 | 57 | 32 |
| | 071.1/2T.12 | 50.2 | 242 | 101.4 | 28400 | 15 | 710 | 3.6 | 380/3/50 | 36300 | 380/3/50 | 32 | 57 | 32 |
| | 090.1/2S.12 | 51 | 200 | 83.6 | 41000 | 32 | 900 | 4 | 380/3/50 | 30000 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2E.12 | 63.7 | 266 | 111.4 | 40000 | 32 | 900 | 4 | 380/3/50 | 39900 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/2T.12 | 74.5 | 332 | 139.2 | 38400 | 30 | 900 | 4 | 380/3/50 | 49800 | 380/3/50 | 38 | 76 | 38 |
| Three Fans | 063.1/3S.12 | 38.8 | 150 | 62.7 | 30900 | 27 | 630 | 2.82 | 380/3/50 | 22500 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3E.12 | 49 | 198 | 83.7 | 30000 | 25 | 630 | 2.82 | 380/3/50 | 29700 | 380/3/50 | 38 | 76 | 38 |
| | 063.1/3T.12 | 56.7 | 249 | 104.4 | 28800 | 25 | 630 | 2.82 | 380/3/50 | 37350 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3S.12 | 57 | 216 | 91.5 | 45600 | 29 | 710 | 5.4 | 380/3/50 | 32400 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3E.12 | 71.7 | 291 | 121.8 | 44400 | 29 | 710 | 5.4 | 380/3/50 | 43650 | 380/3/50 | 38 | 76 | 38 |
| | 071.1/3T.12 | 83.9 | 363 | 152.1 | 42600 | 28 | 710 | 5.4 | 380/3/50 | 54450 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3S.12 | 77.5 | 300 | 125.4 | 61500 | 35 | 900 | 6 | 380/3/50 | 45000 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3E.12 | 97.6 | 399 | 167.1 | 60000 | 35 | 900 | 6 | 380/3/50 | 59850 | 380/3/50 | 38 | 76 | 38 |
| | 090.1/3T.12 | 113.8 | 498 | 208.8 | 57600 | 35 | 900 | 6 | 380/3/50 | 74700 | 380/3/50 | 45 | 89 | 38 |

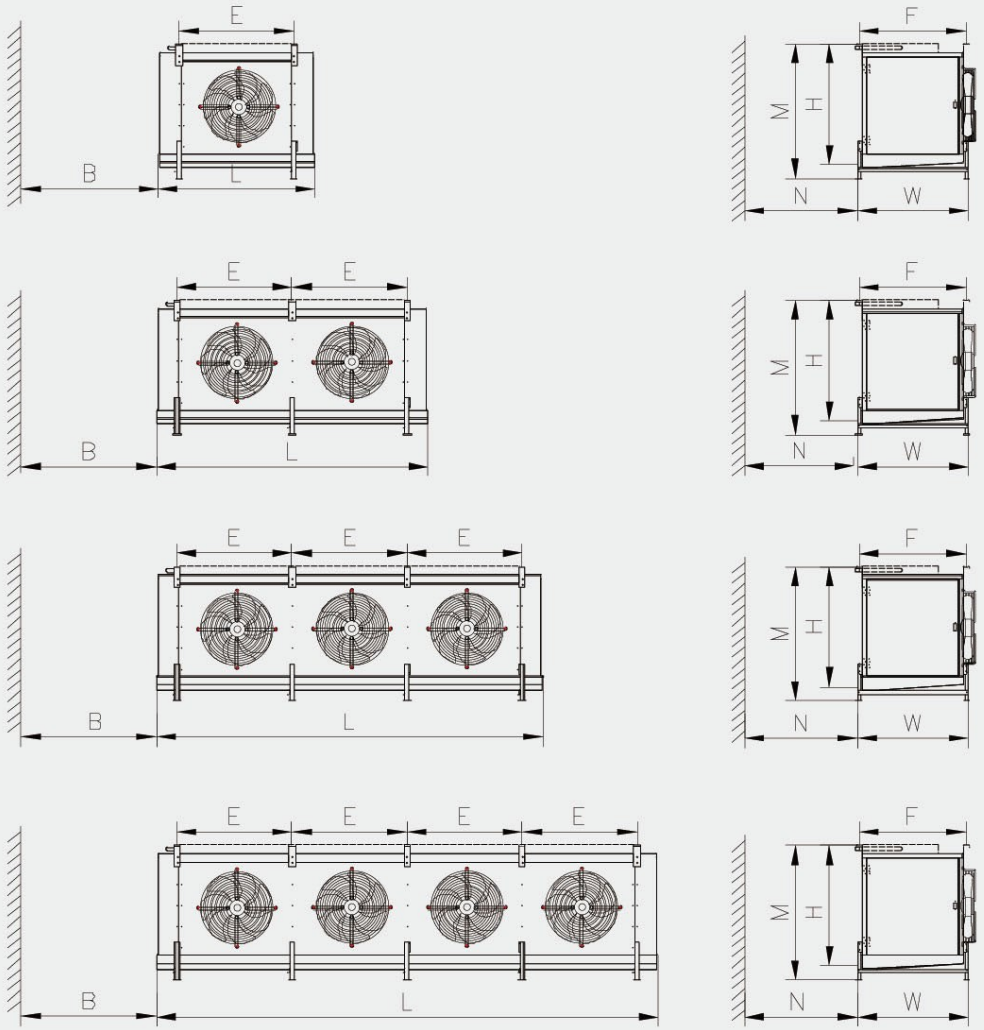
注意：
1、DT是空气进口温度和蒸发温度之差，Te指制冷剂的蒸发温度
2、冷风机的制冷量是在NH3情况下的计算结果
3、适用桶泵供液方式，循环比例3:1
4、如果是其他运行工况，请与我公司联系

Note:
1.DT(the difference between the air inlet temperature and the evaporating temperature)
2.The capacity of unit cooler is calculated with NH3
3.Pump operation,recirculation ratio 3:1
4.Other running condition, please contract our company

样品数据不断更新，选型前请咨询我公司
Catologue data constantly update, please contract us before selection

## IDA 系列冷风机 外形展示
## Shape display

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



# IDA 系列冷风机外形尺寸 Drawings & Measures-IDA series

| 型号/尺寸 | A | E | L | F | H* | W | M | B | N | 风扇数量 |
|---|---|---|---|---|---|---|---|---|---|---|
| 050. 1/1F | 900 | 900 | 1294 | 623 | 885 | 593 | 960 | 400 | 600 | 1 |
| 050. 1/1FI | 900 | 900 | 1294 | 673 | 885 | 643 | 960 | 400 | 600 | 1 |
| 050. 1/1S | 900 | 900 | 1294 | 723 | 885 | 693 | 960 | 400 | 600 | 1 |
| 050. 1/1E | 900 | 900 | 1294 | 823 | 885 | 793 | 960 | 400 | 600 | 1 |
| 050. 1/1T | 900 | 900 | 1294 | 923 | 885 | 893 | 960 | 400 | 600 | 1 |
| 060. 1/1F | 1100 | 1100 | 1494 | 673 | 985 | 643 | 1060 | 400 | 600 | 1 |
| 060. 1/1FI | 1100 | 1100 | 1494 | 723 | 985 | 693 | 1060 | 400 | 600 | 1 |
| 060. 1/1S | 1100 | 1100 | 1494 | 773 | 985 | 743 | 1060 | 400 | 600 | 1 |
| 060. 1/1E | 1100 | 1100 | 1494 | 873 | 985 | 843 | 1060 | 400 | 600 | 1 |
| 060. 1/1T | 1100 | 1100 | 1494 | 973 | 985 | 943 | 1060 | 400 | 600 | 1 |
| 063. 1/1F | 1200 | 1200 | 1594 | 673 | 985 | 643 | 1060 | 400 | 600 | 1 |
| 063. 1/1FI | 1200 | 1200 | 1594 | 723 | 985 | 693 | 1060 | 400 | 600 | 1 |
| 063. 1/1S | 1200 | 1200 | 1594 | 773 | 985 | 743 | 1060 | 400 | 600 | 1 |
| 063. 1/1E | 1200 | 1200 | 1594 | 873 | 985 | 843 | 1060 | 400 | 600 | 1 |
| 063. 1/1T | 1200 | 1200 | 1594 | 973 | 985 | 943 | 1060 | 400 | 600 | 1 |
| 071. 1/1F | 1400 | 1400 | 1794 | 773 | 1185 | 743 | 1260 | 400 | 600 | 1 |
| 071. 1/1FI | 1400 | 1400 | 1794 | 823 | 1185 | 793 | 1260 | 400 | 600 | 1 |
| 071. 1/1S | 1400 | 1400 | 1794 | 873 | 1185 | 843 | 1260 | 400 | 600 | 1 |
| 071. 1/1E | 1400 | 1400 | 1794 | 973 | 1185 | 943 | 1260 | 400 | 600 | 1 |
| 071. 1/1T | 1400 | 1400 | 1794 | 1073 | 1185 | 1043 | 1260 | 400 | 600 | 1 |
| 090. 1/1F | 1600 | 1600 | 1994 | 773 | 1385 | 743 | 1460 | 400 | 600 | 1 |
| 090. 1/1FI | 1600 | 1600 | 1994 | 823 | 1385 | 793 | 1460 | 400 | 600 | 1 |
| 090. 1/1S | 1600 | 1600 | 1994 | 873 | 1385 | 843 | 1460 | 400 | 600 | 1 |
| 090. 1/1E | 1600 | 1600 | 1994 | 973 | 1385 | 943 | 1460 | 400 | 600 | 1 |
| 090. 1/1T | 1600 | 1600 | 1994 | 1073 | 1385 | 1043 | 1460 | 400 | 600 | 1 |
| 050. 1/2F | 1800 | 900 | 2194 | 623 | 885 | 593 | 960 | 450 | 1000 | 2 |
| 050. 1/2FI | 1800 | 900 | 2194 | 673 | 885 | 643 | 960 | 450 | 1000 | 2 |
| 050. 1/2S | 1800 | 900 | 2194 | 723 | 885 | 693 | 960 | 450 | 1000 | 2 |
| 050. 1/2E | 1800 | 900 | 2194 | 823 | 885 | 793 | 960 | 450 | 1000 | 2 |
| 050. 1/2T | 1800 | 900 | 2194 | 923 | 885 | 893 | 960 | 450 | 1000 | 2 |
| 060. 1/2F | 2200 | 1100 | 2594 | 673 | 985 | 643 | 1060 | 450 | 1000 | 2 |
| 060. 1/2FI | 2200 | 1100 | 2594 | 723 | 985 | 693 | 1060 | 450 | 1000 | 2 |
| 060. 1/2S | 2200 | 1100 | 2594 | 773 | 985 | 743 | 1060 | 450 | 1000 | 2 |
| 060. 1/2E | 2200 | 1100 | 2594 | 873 | 985 | 843 | 1060 | 450 | 1000 | 2 |
| 060. 1/2T | 2200 | 1100 | 2594 | 973 | 985 | 943 | 1060 | 450 | 1000 | 2 |
| 063. 1/2F | 2400 | 1200 | 2794 | 673 | 985 | 643 | 1060 | 450 | 1000 | 2 |
| 063. 1/2FI | 2400 | 1200 | 2794 | 723 | 985 | 693 | 1060 | 450 | 1000 | 2 |
| 063. 1/2S | 2400 | 1200 | 2794 | 773 | 985 | 743 | 1060 | 450 | 1000 | 2 |
| 063. 1/2E | 2400 | 1200 | 2794 | 873 | 985 | 843 | 1060 | 450 | 1000 | 2 |
| 063. 1/2T | 2400 | 1200 | 2794 | 973 | 985 | 943 | 1060 | 450 | 1000 | 2 |
| 071. 1/2F | 2800 | 1400 | 3194 | 773 | 1185 | 743 | 1260 | 450 | 1000 | 2 |
| 071. 1/2FI | 2800 | 1400 | 3194 | 823 | 1185 | 793 | 1260 | 450 | 1000 | 2 |
| 071. 1/2S | 2800 | 1400 | 3194 | 873 | 1185 | 843 | 1260 | 450 | 1000 | 2 |
| 071. 1/2E | 2800 | 1400 | 3194 | 973 | 1185 | 943 | 1260 | 450 | 1000 | 2 |
| 071. 1/2T | 2800 | 1400 | 3194 | 1073 | 1185 | 1043 | 1260 | 450 | 1000 | 2 |
| 090. 1/2F | 3200 | 1600 | 3594 | 773 | 1385 | 743 | 1460 | 450 | 1000 | 2 |
| 090. 1/2FI | 3200 | 1600 | 3594 | 823 | 1385 | 793 | 1460 | 450 | 1000 | 2 |
| 090. 1/2S | 3200 | 1600 | 3594 | 873 | 1385 | 843 | 1460 | 450 | 1000 | 2 |
| 090. 1/2E | 3200 | 1600 | 3594 | 973 | 1385 | 943 | 1460 | 450 | 1000 | 2 |

注意
1、H*为带水冲霜的高度.
2、如果不采用水冲霜，高度减少140mm

Notes
1. H* include water defrosting,
2. Without water defrosting, height decrease 140mm

| 型号/尺寸 | A | E | L | F | H* | W | M | B | N | 风扇数量 |
|---|---|---|---|---|---|---|---|---|---|---|
| 090. 1/2T | 3200 | 1600 | 3594 | 1073 | 1385 | 1043 | 1460 | 450 | 1000 | 2 |
| 050. 1/3F | 2700 | 900 | 3094 | 623 | 885 | 593 | 960 | 500 | 1000 | 3 |
| 050. 1/3FI | 2700 | 900 | 3094 | 673 | 885 | 643 | 960 | 500 | 1000 | 3 |
| 050. 1/3S | 2700 | 900 | 3094 | 723 | 885 | 693 | 960 | 500 | 1000 | 3 |
| 050. 1/3E | 2700 | 900 | 3094 | 823 | 885 | 793 | 960 | 500 | 1000 | 3 |
| 050. 1/3T | 2700 | 900 | 3094 | 923 | 885 | 893 | 960 | 500 | 1000 | 3 |
| 060. 1/3F | 3300 | 1100 | 3694 | 673 | 985 | 643 | 1060 | 500 | 1000 | 3 |
| 060. 1/3FI | 3300 | 1100 | 3694 | 723 | 985 | 693 | 1060 | 500 | 1000 | 3 |
| 060. 1/3S | 3300 | 1100 | 3694 | 773 | 985 | 743 | 1060 | 500 | 1000 | 3 |
| 060. 1/3E | 3300 | 1100 | 3694 | 873 | 985 | 843 | 1060 | 500 | 1000 | 3 |
| 060. 1/3T | 3300 | 1100 | 3694 | 973 | 985 | 943 | 1060 | 500 | 1000 | 3 |
| 063. 1/3F | 3600 | 1200 | 3994 | 673 | 985 | 643 | 1060 | 500 | 1000 | 3 |
| 063. 1/3FI | 3600 | 1200 | 3994 | 723 | 985 | 693 | 1060 | 500 | 1000 | 3 |
| 063. 1/3S | 3600 | 1200 | 3994 | 773 | 985 | 743 | 1060 | 500 | 1000 | 3 |
| 063. 1/3E | 3600 | 1200 | 3994 | 873 | 985 | 843 | 1060 | 500 | 1000 | 3 |
| 063. 1/3T | 3600 | 1200 | 3994 | 973 | 985 | 943 | 1060 | 500 | 1000 | 3 |
| 071. 1/3F | 4200 | 1400 | 4594 | 773 | 1185 | 743 | 1260 | 500 | 1000 | 3 |
| 071. 1/3FI | 4200 | 1400 | 4594 | 823 | 1185 | 793 | 1260 | 500 | 1000 | 3 |
| 071. 1/3S | 4200 | 1400 | 4594 | 873 | 1185 | 843 | 1260 | 500 | 1000 | 3 |
| 071. 1/3E | 4200 | 1400 | 4594 | 973 | 1185 | 943 | 1260 | 500 | 1000 | 3 |
| 071. 1/3T | 4200 | 1400 | 4594 | 1073 | 1185 | 1043 | 1260 | 500 | 1000 | 3 |
| 090. 1/3F | 4800 | 1600 | 5194 | 773 | 1385 | 743 | 1460 | 500 | 1000 | 3 |
| 090. 1/3FI | 4800 | 1600 | 5194 | 823 | 1385 | 793 | 1460 | 500 | 1000 | 3 |
| 090. 1/3S | 4800 | 1600 | 5194 | 873 | 1385 | 843 | 1460 | 500 | 1000 | 3 |
| 090. 1/3E | 4800 | 1600 | 5194 | 973 | 1385 | 943 | 1460 | 500 | 1000 | 3 |
| 090. 1/3T | 4800 | 1600 | 5194 | 1073 | 1385 | 1043 | 1460 | 500 | 1000 | 3 |
| 050. 1/4F | 3600 | 900 | 3994 | 623 | 885 | 593 | 960 | 550 | 1000 | 4 |
| 050. 1/4FI | 3600 | 900 | 3994 | 673 | 885 | 643 | 960 | 550 | 1000 | 4 |
| 050. 1/4S | 3600 | 900 | 3994 | 723 | 885 | 693 | 960 | 550 | 1000 | 4 |
| 050. 1/4E | 3600 | 900 | 3994 | 823 | 885 | 793 | 960 | 550 | 1000 | 4 |
| 050. 1/4T | 3600 | 900 | 3994 | 923 | 885 | 893 | 960 | 550 | 1000 | 4 |
| 060. 1/4F | 4400 | 1100 | 4794 | 673 | 985 | 643 | 1060 | 550 | 1000 | 4 |
| 060. 1/4FI | 4400 | 1100 | 4794 | 723 | 985 | 693 | 1060 | 550 | 1000 | 4 |
| 060. 1/4S | 4400 | 1100 | 4794 | 773 | 985 | 743 | 1060 | 550 | 1000 | 4 |
| 060. 1/4E | 4400 | 1100 | 4794 | 873 | 985 | 843 | 1060 | 550 | 1000 | 4 |
| 060. 1/4T | 4400 | 1100 | 4794 | 973 | 985 | 943 | 1060 | 550 | 1000 | 4 |
| 063. 1/4F | 4800 | 1200 | 5194 | 673 | 985 | 643 | 1060 | 550 | 1000 | 4 |
| 063. 1/4FI | 4800 | 1200 | 5194 | 723 | 985 | 693 | 1060 | 550 | 1000 | 4 |
| 063. 1/4S | 4800 | 1200 | 5194 | 773 | 985 | 743 | 1060 | 550 | 1000 | 4 |
| 063. 1/4E | 4800 | 1200 | 5194 | 873 | 985 | 843 | 1060 | 550 | 1000 | 4 |
| 063. 1/4T | 4800 | 1200 | 5194 | 973 | 985 | 943 | 1060 | 550 | 1000 | 4 |
| 071. 1/4F | 5600 | 1400 | 5994 | 773 | 1185 | 743 | 1260 | 550 | 1000 | 4 |
| 071. 1/4FI | 5600 | 1400 | 5994 | 823 | 1185 | 793 | 1260 | 550 | 1000 | 4 |
| 071. 1/4S | 5600 | 1400 | 5994 | 873 | 1185 | 843 | 1260 | 550 | 1000 | 4 |
| 071. 1/4E | 5600 | 1400 | 5994 | 973 | 1185 | 943 | 1260 | 550 | 1000 | 4 |
| 071. 1/4T | 5600 | 1400 | 5994 | 1073 | 1185 | 1043 | 1260 | 550 | 1000 | 4 |

注意
1、H*为带水冲霜的高度.
2、如果不采用水冲霜，高度减少140mm

Notes
1. H* include water defrosting,
2. Without water defrosting, height decrease 140mm