

技术文件

谷轮DX3电子膨胀阀可以精确控制制冷剂流量以及系统过热度，采用可拆卸的便于控制的步进电机线圈。完全双向控制的专利设计可使DX3在正向和反向工作时均可在相同的MOPD值情况下达到相同的使用效果。DX3支持IP65/IP67防护等级，可以确保DX3在恶劣的工作条件下也能表现出优越性能。

DX3的独特特性和冷量范围使其可以适用于多种应用环境，例如热泵、商用热泵、商用空调、精密空调、特种空调以及移动运输工具空调、冷库等冷冻应用。



关键属性:

- 适用于多种冷媒应用
- 冷量覆盖8~40冷吨（以R22作参考）
- 单对极12VDC步进电机驱动，500脉冲
- 完全双向应用，正反向冷量与MOPD完全一致
- 25万次全开全关循环寿命测试
- IP65/IP67防护
- CE认证

名义制冷量 (kW) 及阀体选型:

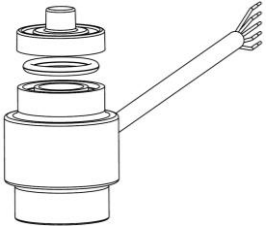
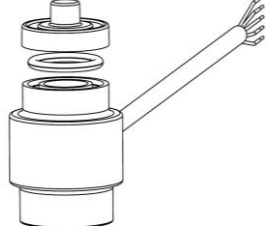
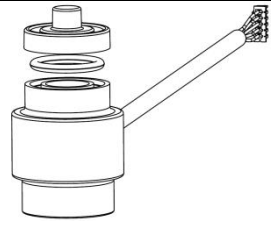
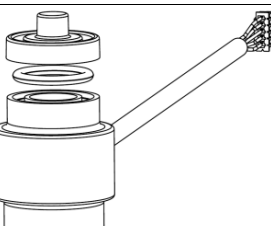
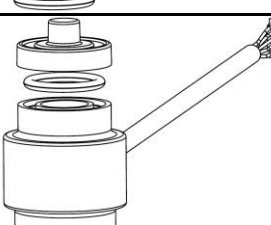
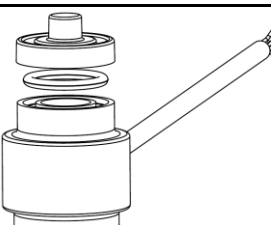
| 型号       | PCN    | 冷量 (kW)* |       |       |       |       |       |       |       |       |       |       | 接口            |
|----------|--------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|          |        | R22      | R410A | R407C | R134a | R32   | R404A | R448A | R449A | R450A | R507A | R513A | 入口 × 出口       |
| DX3-006  | 098380 | 21.1     | 24.8  | 22.4  | 16.5  | 36.5  | 14.8  | 20.7  | 20.3  | 14.5  | 14.5  | 13.7  | 5/8 × 5/8 ODF |
| DX3-075S | 098384 | 26.3     | 30.9  | 28.0  | 20.6  | 45.7  | 18.6  | 25.9  | 25.3  | 18.2  | 18.2  | 17.2  | 5/8 × 5/8 ODF |
| DX3-008  | 098301 | 28.1     | 33    | 29.9  | 22    | 48.7  | 19.8  | 27.6  | 27    | 19.4  | 19.4  | 18.3  | 5/8 × 5/8 ODF |
| DX3-010  | 098302 | 35.2     | 41.3  | 37.4  | 27.5  | 60.9  | 24.7  | 34.6  | 33.9  | 24.3  | 24.2  | 22.9  | 5/8 × 5/8 ODF |
| DX3-012  | 098303 | 44       | 51.6  | 46.8  | 34.3  | 76.1  | 30.9  | 43.2  | 42.3  | 30.3  | 30.3  | 28.6  | 5/8 × 5/8 ODF |
| DX3-015  | 098304 | 52.8     | 62    | 56.1  | 41.2  | 91.4  | 37.1  | 51.8  | 50.8  | 36.4  | 36.4  | 34.3  | 5/8 × 5/8 ODF |
| DX3-020  | 098305 | 70.3     | 82.6  | 74.8  | 54.9  | 121.8 | 49.4  | 69    | 67.6  | 48.4  | 48.5  | 45.7  | 5/8 × 5/8 ODF |
| DX3-025  | 098306 | 87.9     | 103.3 | 93.5  | 68.7  | 152.3 | 61.8  | 86.3  | 84.6  | 60.6  | 60.6  | 57.1  | 5/8 × 5/8 ODF |
| DX3-040  | 098403 | 140.8    | 165.2 | 149.6 | 110   | 243.6 | 98.8  | 138.4 | 135.6 | 97.2  | 96.8  | 91.6  | 7/8 × 7/8 ODF |
| DX3-040S | 098430 |          |       |       |       |       |       |       |       |       |       |       |               |

名义制冷量基于以下工况:

| 制冷剂                                        | 冷凝温度 (°C)                 | 蒸发温度 (°C) | 过冷度 (K) |
|--------------------------------------------|---------------------------|-----------|---------|
| R22, R410A, R134a, R32, R404A, R507A, 513A | 38                        | 4         | 1       |
| R450A                                      | +38°C 始沸点<br>(+38.6°C 露点) | 4         |         |
| R407C, R448A, R449A                        | +38°C 始沸点<br>(+43°C 露点)   | 4         |         |

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定子选型:

| 型号         | PCN    | 描述                                                                            | 3D示意图                                                                                 |
|------------|--------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| DX3-SU205  | 098307 | DX3 IP65 定子套装, 含<br>• 12VDC定子线圈, 集成2M连接线<br>• 1个O型圈<br>• 定子安装螺帽               |    |
| DX3-SU207  | 098308 | DX3 IP67 定子套装, 含<br>• 12VDC定子线圈, 集成2M连接线<br>• 2个O型圈<br>• 定子安装螺帽               |    |
| DX3-SU305J | 098315 | DX3 IP65 定子套装, 含<br>• 12VDC定子线圈, 集成3M连接线, 带JST XHP-5端子<br>• 1个O型圈<br>• 定子安装螺帽 |   |
| DX3-SU307J | 098316 | DX3 IP67 定子套装, 含<br>• 12VDC定子线圈, 集成3M连接线, 带JST XHP-5端子<br>• 2个O型圈<br>• 定子安装螺帽 |  |
| DX3-SU605J | 098323 | DX3 IP65 定子套装, 含<br>• 12VDC定子线圈, 集成6M连接线, 带JST XHP-5端子<br>• 1个O型圈<br>• 定子安装螺帽 |  |
| DX3-SU607J | 098324 | DX3 IP67 定子套装, 含<br>• 12VDC定子线圈, 集成6M连接线, 带JST XHP-5端子<br>• 2个O型圈<br>• 定子安装螺帽 |  |

技术文件

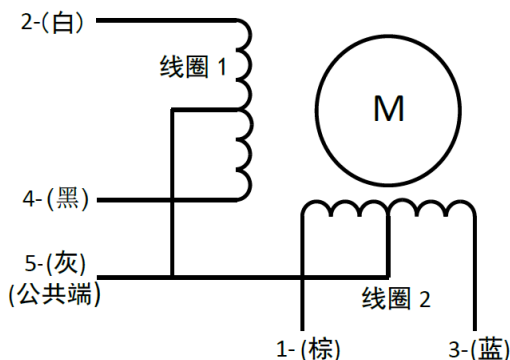
阀体技术参数:

|            |                                                    |
|------------|----------------------------------------------------|
| 流体方向       | 双向                                                 |
| 流量特性       | 线性 (50 ~ 500脉冲间)                                   |
| 最大工作压力MWP  | 680 psig (46.9 bar)                                |
| 最大动作压差MOPD | 正向: 500 psig (34.5 bar)<br>反向: 500 psig (34.5 bar) |
| 爆破压力       | 3400 psig (234.5 bar)                              |
| 阀座泄露量      | 150 ml/min                                         |
| 外泄露量       | 2.83 g/year                                        |
| 震动加速度      | ≤ 4.5 g                                            |
| 流体温度       | -30 ~ 70 °C                                        |
| 环境温度       | -40 ~ 70 °C                                        |
| 防护等级       | IP65/IP67                                          |
| 润滑油兼容      | 矿物油、POE                                            |
| 重量         | 250 g                                              |

定子技术参数:

|                 |                                             |
|-----------------|---------------------------------------------|
| 类型              | 5线单极步进电机                                    |
| 励磁速度 (PPS)      | 30 ~ 90 PPS, 推荐使用50 PPS<br>(1 PPS = 1 脉冲/秒) |
| 全开脉冲            | 500 (注意: 过关不超过550脉冲)                        |
| 开阀脉冲            | 6 ~ 52                                      |
| 供电电压            | 12 VDC (+/- 10%)                            |
| 名义操作电流 @ 12 VDC | 300 毫安/相                                    |
| 电阻              | 40 欧姆/相 (+/- 10%)                           |
| 绝缘等级            | F                                           |
| 连接线长度           | 2m/3m/6m, 与定子集成                             |

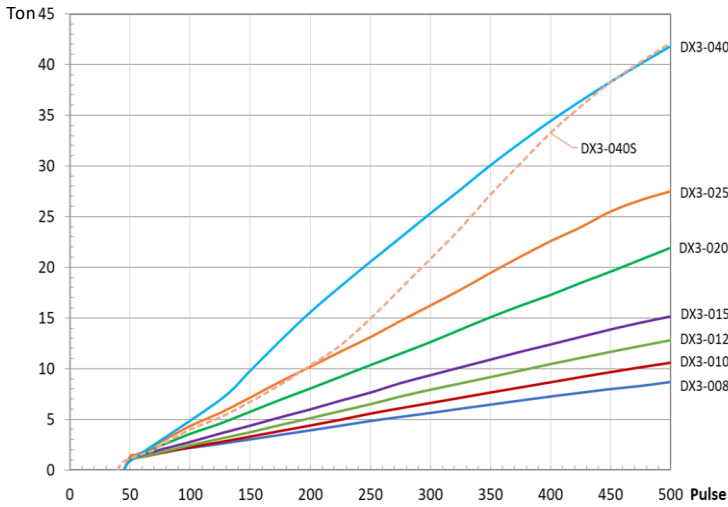
励磁方式与开关阀对应关系图:



| 线号及颜色 | 阀芯运动方向 |     |     |     |       |     |     |     |
|-------|--------|-----|-----|-----|-------|-----|-----|-----|
|       | 开阀: →  |     |     |     | 关阀: ← |     |     |     |
| 2: 白  | ON     | ON  | OFF | OFF | OFF   | OFF | OFF | ON  |
| 4: 黑  | OFF    | OFF | OFF | ON  | ON    | ON  | OFF | OFF |
| 1: 棕  | OFF    | ON  | ON  | ON  | OFF   | OFF | OFF | OFF |
| 3: 蓝  | OFF    | OFF | OFF | OFF | OFF   | ON  | ON  | ON  |
| 5: 灰  | ON     | ON  | ON  | ON  | ON    | ON  | ON  | ON  |

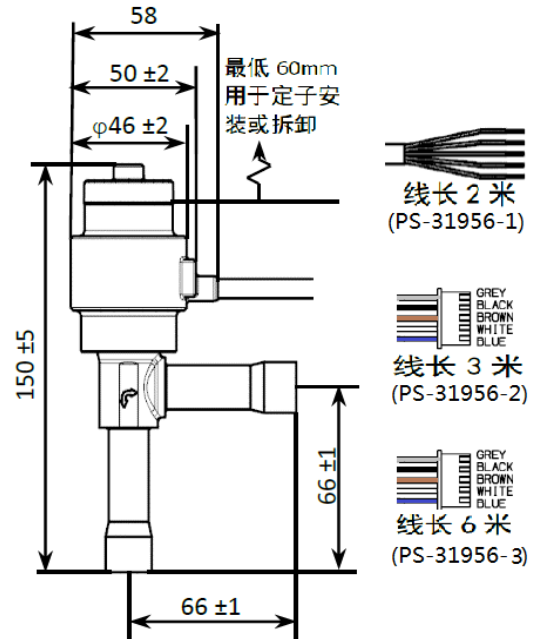
技术文件

流量特性（正反向皆可参考此流量曲线）：



工况：R22, 冷凝温度38℃, 蒸发温度4℃, 过冷度1K。

整体尺寸（mm）：



声明：

技术数据在印刷前已经校对过，印刷之后有再更新的可能，如有需要对某一参数确认，请联系谷轮。

谷轮对参数中可能存在的差错概不负责，谷轮保留自行改变其产品而不预先通知的权利。

本文件中的参数基于谷轮认为可靠的数据和测试，并符合今天的技术需求。这些信息预期由具有合适的专业知识和技能的人员自行判断和评估风险后来使用。

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扩展冷量表:

下表为不同工况下阀的冷量表, 假设液管压降为1.5 Bar:

| 冷凝温度<br>(°C) | R410A |       |       | 扩展冷量(kW)  |       |       |       |       |       |       |       |            | 型号       |
|--------------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|------------|----------|
|              |       |       |       | 蒸发温度 (°C) |       |       |       |       |       |       |       |            |          |
|              | 15    | 10    | 5     | 0         | -5    | -10   | -15   | -20   | -25   | -30   | -35   | -40        |          |
| 65           | 19.6  | 20.0  | 20.2  | 20.3      | 20.3  | 20.3  | 20.2  | 20.0  | 19.7  | 19.3  | 18.9  | 18.5       | DX3-006  |
|              | 24.5  | 24.9  | 25.2  | 25.4      | 25.4  | 25.3  | 25.2  | 24.9  | 24.6  | 24.1  | 23.6  | 23.2       | DX3-075S |
|              | 26.1  | 26.6  | 26.9  | 27.1      | 27.1  | 27    | 26.9  | 26.6  | 26.2  | 25.7  | 25.2  | 24.7       | DX3-008  |
|              | 32.6  | 33.2  | 33.6  | 33.9      | 33.9  | 33.8  | 33.6  | 33.2  | 32.7  | 32.2  | 31.5  | 30.8       | DX3-010  |
|              | 40.8  | 41.5  | 42.1  | 42.3      | 42.4  | 42.3  | 42    | 41.5  | 40.9  | 40.2  | 39.4  | 38.5       | DX3-012  |
|              | 48.9  | 49.9  | 50.5  | 50.8      | 50.9  | 50.7  | 50.3  | 49.8  | 49.1  | 48.3  | 47.3  | 46.2       | DX3-015  |
|              | 65.2  | 66.5  | 67.3  | 67.7      | 67.8  | 67.6  | 67.1  | 66.4  | 65.5  | 64.4  | 63.1  | 61.6       | DX3-020  |
|              | 81.6  | 83.1  | 84.1  | 84.6      | 84.8  | 84.5  | 83.9  | 83    | 81.9  | 80.5  | 78.8  | 77         | DX3-025  |
| 130.4        | 132.8 | 134.4 | 135.6 | 135.6     | 135.2 | 134.4 | 132.8 | 130.8 | 128.8 | 126   | 123.2 | DX3-040(S) |          |
| 60           | 21.4  | 21.9  | 22.4  | 22.6      | 22.7  | 22.7  | 22.5  | 22.4  | 22.1  | 21.7  | 21.3  | DX3-006    |          |
|              | 26.7  | 27.4  | 27.9  | 28.2      | 28.4  | 28.4  | 28.3  | 28.1  | 27.9  | 27.6  | 27.1  | 26.6       | DX3-075S |
|              | 28.5  | 29.2  | 29.8  | 30.1      | 30.3  | 30.3  | 30.2  | 30    | 29.8  | 29.4  | 28.9  | 28.4       | DX3-008  |
|              | 35.6  | 36.5  | 37.2  | 37.6      | 37.8  | 37.9  | 37.8  | 37.6  | 37.2  | 36.7  | 36.2  | 35.5       | DX3-010  |
|              | 44.6  | 45.7  | 46.5  | 47        | 47.3  | 47.4  | 47.2  | 46.9  | 46.5  | 45.9  | 45.2  | 44.4       | DX3-012  |
|              | 53.5  | 54.8  | 55.8  | 56.4      | 56.8  | 56.8  | 56.7  | 56.3  | 55.8  | 55.1  | 54.2  | 53.2       | DX3-015  |
|              | 71.3  | 73.1  | 74.4  | 75.2      | 75.7  | 75.8  | 75.6  | 75.1  | 74.4  | 73.4  | 72.3  | 71         | DX3-020  |
|              | 89.1  | 91.4  | 93    | 94        | 94.6  | 94.7  | 94.5  | 93.9  | 93    | 91.8  | 90.4  | 88.7       | DX3-025  |
| 142.4        | 146   | 148.8 | 150.4 | 151.2     | 151.6 | 151.2 | 150.4 | 148.8 | 146.8 | 144.8 | 142   | DX3-040(S) |          |
| 55           | 22.2  | 22.9  | 23.5  | 23.9      | 24.1  | 24.2  | 24.2  | 24.2  | 24.0  | 23.8  | 23.6  | 23.2       | DX3-006  |
|              | 27.8  | 28.6  | 29.3  | 29.8      | 30.1  | 30.3  | 30.3  | 30.2  | 30.0  | 29.7  | 29.4  | 29.0       | DX3-075S |
|              | 29.6  | 30.5  | 31.3  | 31.8      | 32.1  | 32.3  | 32.3  | 32.2  | 32    | 31.7  | 31.4  | 30.9       | DX3-008  |
|              | 37    | 38.2  | 39.1  | 39.7      | 40.1  | 40.4  | 40.4  | 40.3  | 40.1  | 39.7  | 39.2  | 38.6       | DX3-010  |
|              | 46.2  | 47.7  | 48.8  | 49.7      | 50.2  | 50.5  | 50.5  | 50.4  | 50.1  | 49.6  | 49    | 48.3       | DX3-012  |
|              | 55.4  | 57.2  | 58.6  | 59.6      | 60.2  | 60.6  | 60.6  | 60.5  | 60.1  | 59.5  | 58.8  | 57.9       | DX3-015  |
|              | 73.9  | 76.3  | 78.1  | 79.5      | 80.3  | 80.7  | 80.8  | 80.6  | 80.1  | 79.4  | 78.4  | 77.2       | DX3-020  |
|              | 92.4  | 95.4  | 97.7  | 99.3      | 100.4 | 100.9 | 101   | 100.8 | 100.1 | 99.2  | 98    | 96.6       | DX3-025  |
| 148          | 152.8 | 156.4 | 158.8 | 160.4     | 161.6 | 161.6 | 161.2 | 160.4 | 158.8 | 156.8 | 154.4 | DX3-040(S) |          |
| 50           | 22.3  | 23.2  | 23.9  | 24.5      | 24.8  | 25.1  | 25.2  | 25.2  | 25.1  | 25.0  | 24.8  | 24.5       | DX3-006  |
|              | 27.8  | 29.0  | 29.9  | 30.6      | 31.0  | 31.4  | 31.5  | 31.5  | 31.4  | 31.2  | 30.9  | 30.6       | DX3-075S |
|              | 29.7  | 30.9  | 31.9  | 32.6      | 33.1  | 33.5  | 33.6  | 33.6  | 33.5  | 33.3  | 33    | 32.6       | DX3-008  |
|              | 37.1  | 38.6  | 39.9  | 40.8      | 41.4  | 41.8  | 42    | 42.1  | 41.9  | 41.7  | 41.3  | 40.8       | DX3-010  |
|              | 46.4  | 48.3  | 49.8  | 51        | 51.8  | 52.3  | 52.5  | 52.6  | 52.4  | 52.1  | 51.6  | 51         | DX3-012  |
|              | 55.6  | 58    | 59.8  | 61.1      | 62.1  | 62.7  | 63    | 63.1  | 62.9  | 62.5  | 61.9  | 61.2       | DX3-015  |
|              | 74.2  | 77.3  | 79.7  | 81.5      | 82.8  | 83.6  | 84    | 84.1  | 83.9  | 83.3  | 82.6  | 81.6       | DX3-020  |
|              | 92.7  | 96.6  | 99.6  | 101.9     | 103.5 | 104.5 | 105.1 | 105.1 | 104.8 | 104.2 | 103.2 | 102        | DX3-025  |
| 148.4        | 154.4 | 159.6 | 163.2 | 165.6     | 167.2 | 168   | 168.4 | 167.6 | 166.8 | 165.2 | 163.2 | DX3-040(S) |          |
| 45           | 21.8  | 23.0  | 23.9  | 24.6      | 25.1  | 25.5  | 25.7  | 25.8  | 25.8  | 25.7  | 25.6  | 25.4       | DX3-006  |
|              | 27.2  | 28.7  | 29.8  | 30.8      | 31.4  | 31.9  | 32.2  | 32.3  | 32.3  | 32.2  | 32.0  | 31.7       | DX3-075S |
|              | 29    | 30.6  | 31.8  | 32.8      | 33.5  | 34    | 34.3  | 34.4  | 34.4  | 34.3  | 34.1  | 33.8       | DX3-008  |
|              | 36.2  | 38.2  | 39.7  | 40.9      | 41.8  | 42.4  | 42.8  | 43    | 43    | 42.9  | 42.6  | 42.2       | DX3-010  |
|              | 45.3  | 47.7  | 49.7  | 51.2      | 52.3  | 53.1  | 53.6  | 53.8  | 53.8  | 53.6  | 53.3  | 52.8       | DX3-012  |
|              | 54.3  | 57.3  | 59.6  | 61.4      | 62.7  | 63.7  | 64.3  | 64.5  | 64.6  | 64.4  | 63.9  | 63.3       | DX3-015  |
|              | 72.4  | 76.4  | 79.5  | 81.9      | 83.6  | 84.9  | 85.7  | 86.1  | 86.1  | 85.8  | 85.3  | 84.5       | DX3-020  |
|              | 90.5  | 95.5  | 99.4  | 102.3     | 104.6 | 106.1 | 107.1 | 107.6 | 107.6 | 107.3 | 106.6 | 105.6      | DX3-025  |
| 144.8        | 152.8 | 158.8 | 163.6 | 167.2     | 169.6 | 171.2 | 172   | 172   | 171.6 | 170.4 | 168.8 | DX3-040(S) |          |
| 40           | 20.6  | 22.1  | 23.3  | 24.2      | 24.9  | 25.4  | 25.8  | 26.0  | 26.1  | 26.1  | 26.0  | 25.9       | DX3-006  |
|              | 25.8  | 27.7  | 29.2  | 30.3      | 31.1  | 31.8  | 32.3  | 32.5  | 32.6  | 32.6  | 32.5  | 32.3       | DX3-075S |
|              | 27.5  | 29.5  | 31.1  | 32.3      | 33.2  | 33.9  | 34.4  | 34.7  | 34.8  | 34.8  | 34.7  | 34.5       | DX3-008  |
|              | 34.3  | 36.8  | 38.8  | 40.4      | 41.5  | 42.4  | 43    | 43.4  | 43.5  | 43.5  | 43.4  | 43.1       | DX3-010  |
|              | 42.9  | 46.1  | 48.5  | 50.4      | 51.9  | 53    | 53.7  | 54.2  | 54.4  | 54.4  | 54.2  | 53.8       | DX3-012  |
|              | 51.5  | 55.3  | 58.2  | 60.5      | 62.3  | 63.6  | 64.5  | 65    | 65.3  | 65.3  | 65    | 64.6       | DX3-015  |
|              | 68.7  | 73.7  | 77.6  | 80.7      | 83    | 84.8  | 86    | 86.7  | 87    | 87    | 86.7  | 86.1       | DX3-020  |
|              | 85.9  | 92.1  | 97    | 100.9     | 103.8 | 106   | 107.5 | 108.4 | 108.8 | 108.8 | 108.4 | 107.7      | DX3-025  |
| 137.2        | 147.2 | 155.2 | 161.6 | 166       | 169.6 | 172   | 173.6 | 174   | 174   | 173.6 | 172.4 | DX3-040(S) |          |

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| 冷凝温度<br>(°C) | R410A |       |       | 扩展冷量(kW)  |       |       |       |       |       |            |            |            | 型号       |
|--------------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|------------|------------|------------|----------|
|              |       |       |       | 蒸发温度 (°C) |       |       |       |       |       |            |            |            |          |
|              | 15    | 10    | 5     | 0         | -5    | -10   | -15   | -20   | -25   | -30        | -35        | -40        |          |
| 35           | 18.8  | 20.8  | 22.3  | 23.4      | 24.3  | 25.0  | 25.5  | 25.9  | 26.0  | 26.2       | 26.1       | 26.0       | DX3-006  |
|              | 23.5  | 26.0  | 27.8  | 29.3      | 30.4  | 31.2  | 31.9  | 32.3  | 32.5  | 32.7       | 32.6       | 32.5       | DX3-075S |
|              | 25.1  | 27.7  | 29.7  | 31.2      | 32.4  | 33.3  | 34    | 34.5  | 34.7  | 34.9       | 34.8       | 34.7       | DX3-008  |
|              | 31.4  | 34.6  | 37.1  | 39        | 40.5  | 41.7  | 42.5  | 43.1  | 43.4  | 43.6       | 43.5       | 43.4       | DX3-010  |
|              | 39.2  | 43.2  | 46.4  | 48.8      | 50.7  | 52.1  | 53.1  | 53.9  | 54.3  | 54.5       | 54.4       | 54.2       | DX3-012  |
|              | 47.1  | 51.9  | 55.6  | 58.6      | 60.8  | 62.5  | 63.8  | 64.6  | 65.1  | 65.4       | 65.3       | 65         | DX3-015  |
|              | 62.8  | 69.2  | 74.2  | 78.1      | 81.1  | 83.4  | 85    | 86.2  | 86.9  | 87.1       | 87.1       | 86.7       | DX3-020  |
|              | 78.5  | 86.5  | 92.7  | 97.6      | 101.4 | 104.2 | 106.3 | 107.7 | 108.6 | 108.9      | 108.9      | 108.4      | DX3-025  |
| 125.6        | 138.4 | 148.4 | 156   | 162       | 166.8 | 170   | 172.4 | 173.6 | 174.4 | 174        | 173.6      | DX3-040(S) |          |
| 30           | 16.3  | 18.8  | 20.7  | 22.2      | 23.3  | 24.2  | 24.9  | 25.4  | 25.7  | 25.9       | 26.0       | 25.9       | DX3-006  |
|              | 20.3  | 23.4  | 25.9  | 27.8      | 29.2  | 30.3  | 31.1  | 31.7  | 32.1  | 32.3       | 32.4       | 32.3       | DX3-075S |
|              | 21.7  | 25    | 27.6  | 29.6      | 31.1  | 32.3  | 33.2  | 33.8  | 34.2  | 34.5       | 34.6       | 34.5       | DX3-008  |
|              | 27.1  | 31.3  | 34.5  | 37        | 38.9  | 40.4  | 41.5  | 42.3  | 42.8  | 43.1       | 43.2       | 43.2       | DX3-010  |
|              | 33.9  | 39.1  | 43.1  | 46.2      | 48.6  | 50.5  | 51.8  | 52.8  | 53.5  | 53.9       | 54         | 54         | DX3-012  |
|              | 40.7  | 47    | 51.8  | 55.5      | 58.3  | 60.6  | 62.2  | 63.4  | 64.2  | 64.7       | 64.9       | 64.8       | DX3-015  |
|              | 54.2  | 62.6  | 69    | 73.9      | 77.8  | 80.7  | 83    | 84.5  | 85.6  | 86.2       | 86.5       | 86.4       | DX3-020  |
|              | 67.8  | 78.3  | 86.3  | 92.4      | 97.2  | 100.9 | 103.7 | 105.7 | 107   | 107.8      | 108.1      | 108        | DX3-025  |
| 108.4        | 125.2 | 138   | 148   | 155.6     | 161.6 | 166   | 169.2 | 171.2 | 172.4 | 172.8      | 172.8      | DX3-040(S) |          |
| 25           | 12.5  | 16.1  | 18.5  | 20.5      | 21.9  | 23.0  | 23.9  | 24.5  | 25.0  | 25.3       | 25.5       | 25.5       | DX3-006  |
|              | 15.6  | 20.1  | 23.2  | 25.6      | 27.4  | 28.8  | 29.9  | 30.7  | 31.2  | 31.6       | 31.9       | 31.9       | DX3-075S |
|              | 16.6  | 21.4  | 24.7  | 27.3      | 29.2  | 30.7  | 31.9  | 32.7  | 33.3  | 33.7       | 34         | 34         | DX3-008  |
|              | 20.8  | 26.7  | 30.9  | 34.1      | 36.5  | 38.4  | 39.9  | 40.9  | 41.7  | 42.2       | 42.5       | 42.6       | DX3-010  |
|              | 26    | 33.4  | 38.7  | 42.6      | 45.7  | 48    | 49.8  | 51.2  | 52.1  | 52.7       | 53.1       | 53.2       | DX3-012  |
|              | 31.2  | 40.1  | 46.4  | 51.2      | 54.8  | 57.6  | 59.8  | 61.4  | 62.5  | 63.3       | 63.7       | 63.8       | DX3-015  |
|              | 41.6  | 53.4  | 61.9  | 68.2      | 73.1  | 76.9  | 79.7  | 81.9  | 83.4  | 84.4       | 84.9       | 85.1       | DX3-020  |
|              | 52    | 66.8  | 77.3  | 85.3      | 91.4  | 96.1  | 99.7  | 102.3 | 104.2 | 105.5      | 106.2      | 106.4      | DX3-025  |
| 83.2         | 106.8 | 123.6 | 136.4 | 146       | 153.6 | 159.6 | 163.6 | 166.8 | 168.8 | 170        | 170.4      | DX3-040(S) |          |
| 20           | 5.5   | 12.0  | 15.6  | 18.2      | 20.0  | 21.5  | 22.6  | 23.4  | 24.1  | 24.5       | 24.8       | 24.9       | DX3-006  |
|              | 6.8   | 15.0  | 19.5  | 22.7      | 25.0  | 26.9  | 28.2  | 29.3  | 30.1  | 30.6       | 30.9       | 31.1       | DX3-075S |
|              | 7.3   | 16    | 20.8  | 24.2      | 26.7  | 28.7  | 30.1  | 31.2  | 32.1  | 32.6       | 33         | 33.2       | DX3-008  |
|              | 9.1   | 20    | 26.1  | 30.3      | 33.4  | 35.8  | 37.7  | 39.1  | 40.1  | 40.8       | 41.3       | 41.5       | DX3-010  |
|              | 11.4  | 25    | 32.6  | 37.8      | 41.8  | 44.8  | 47.1  | 48.8  | 50.1  | 51         | 51.6       | 51.9       | DX3-012  |
|              | 13.6  | 30.1  | 39.1  | 45.4      | 50.1  | 53.7  | 56.5  | 58.6  | 60.1  | 61.2       | 61.9       | 62.2       | DX3-015  |
|              | 18.2  | 40.1  | 52.1  | 60.6      | 66.9  | 71.7  | 75.3  | 78.1  | 80.2  | 81.6       | 82.5       | 83         | DX3-020  |
|              | 22.7  | 50.1  | 65.1  | 75.7      | 83.6  | 89.6  | 94.2  | 97.6  | 100.2 | 102        | 103.1      | 103.7      | DX3-025  |
| 36.4         | 80    | 104.4 | 121.2 | 133.6     | 143.2 | 150.8 | 156.4 | 160.4 | 163.2 | 165.2      | 166        | DX3-040(S) |          |
| 15           | 4.2   | 11.4  | 15.1  | 17.6      | 19.5  | 20.9  | 22.0  | 22.8  | 23.3  | 23.8       | 24.0       | DX3-006    |          |
|              | 5.3   | 14.3  | 18.8  | 22.0      | 24.4  | 26.2  | 27.5  | 28.5  | 29.2  | 29.7       | 30.0       | DX3-075S   |          |
|              | 5.6   | 15.2  | 20.1  | 23.5      | 26    | 27.9  | 29.3  | 30.4  | 31.1  | 31.7       | 32         | DX3-008    |          |
|              | 7     | 19    | 25.1  | 29.4      | 32.5  | 34.8  | 36.6  | 38    | 38.9  | 39.6       | 40         | DX3-010    |          |
|              | 8.8   | 23.8  | 31.4  | 36.7      | 40.6  | 43.6  | 45.8  | 47.5  | 48.7  | 49.5       | 50         | DX3-012    |          |
|              | 10.5  | 28.6  | 37.7  | 44.1      | 48.7  | 52.3  | 54.9  | 56.9  | 58.4  | 59.4       | 60         | DX3-015    |          |
|              | 14.1  | 38.1  | 50.3  | 58.7      | 65    | 69.7  | 73.3  | 75.9  | 77.9  | 79.2       | 80.1       | DX3-020    |          |
|              | 17.6  | 47.6  | 62.9  | 73.4      | 81.2  | 87.1  | 91.6  | 94.9  | 97.3  | 99         | 100.1      | DX3-025    |          |
| 28           | 76    | 100.4 | 117.6 | 130       | 139.2 | 146.4 | 152   | 155.6 | 158.4 | 160        | DX3-040(S) |            |          |
| 10           | 2.1   | 10.7  | 14.4  | 17.0      | 18.8  | 20.2  | 21.2  | 22.0  | 22.5  | 22.9       | DX3-006    |            |          |
|              | 2.6   | 13.3  | 18.0  | 21.2      | 23.4  | 25.2  | 26.5  | 27.5  | 28.1  | 28.6       | DX3-075S   |            |          |
|              | 2.8   | 14.2  | 19.2  | 22.6      | 25    | 26.9  | 28.3  | 29.3  | 30    | 30.5       | DX3-008    |            |          |
|              | 3.5   | 17.8  | 24    | 28.2      | 31.3  | 33.6  | 35.3  | 36.6  | 37.5  | 38.2       | DX3-010    |            |          |
|              | 4.3   | 22.2  | 30    | 35.3      | 39.1  | 42    | 44.2  | 45.8  | 46.9  | 47.7       | DX3-012    |            |          |
|              | 5.2   | 26.6  | 36    | 42.3      | 46.9  | 50.4  | 53    | 54.9  | 56.3  | 57.3       | DX3-015    |            |          |
|              | 6.9   | 35.5  | 48    | 56.4      | 62.6  | 67.2  | 70.7  | 73.2  | 75.1  | 76.3       | DX3-020    |            |          |
|              | 8.6   | 44.4  | 60    | 70.5      | 78.2  | 84    | 88.3  | 91.5  | 93.8  | 95.4       | DX3-025    |            |          |
| 14           | 71.2  | 96    | 112.8 | 125.2     | 134.4 | 141.2 | 146.4 | 150   | 152.8 | DX3-040(S) |            |            |          |

技术文件

| 冷凝温度 (°C) | 压降 (bar) | DX3-040 拓展能力表--蒸发侧或曲轴箱侧应用 |     |     |     |     |                  |     |     |     |     | 压降 (bar) | 冷凝温度 (°C) |
|-----------|----------|---------------------------|-----|-----|-----|-----|------------------|-----|-----|-----|-----|----------|-----------|
|           |          | R134a (kW)                |     |     |     |     | R513A/R450A (kW) |     |     |     |     |          |           |
|           |          | 蒸发温度 (°C)                 |     |     |     |     | 蒸发温度 (°C)        |     |     |     |     |          |           |
|           |          | 10                        | 5   | 0   | -10 | -20 | 10               | 5   | 0   | -10 | -20 |          |           |
| 60        | 0.1      | 3.5                       | 3.1 | 2.8 | 2.1 | 1.6 | 3.2              | 2.8 | 2.5 | 1.9 | 1.4 | 0.1      | 60        |
|           | 0.15     | 4.3                       | 3.8 | 3.4 | 2.6 | 1.9 | 3.9              | 3.5 | 3.1 | 2.3 | 1.7 | 0.15     |           |
|           | 0.3      | 6.0                       | 5.3 | 4.7 | 3.7 | 2.7 | 5.5              | 4.9 | 4.3 | 3.3 | 2.4 | 0.3      |           |
| 50        | 0.1      | 3.9                       | 3.5 | 3.1 | 2.4 | 1.8 | 3.7              | 3.3 | 2.9 | 2.2 | 1.7 | 0.1      | 50        |
|           | 0.15     | 4.8                       | 4.3 | 3.8 | 3.0 | 2.2 | 4.5              | 4.1 | 3.6 | 2.8 | 2.1 | 0.15     |           |
|           | 0.3      | 6.8                       | 6.1 | 5.4 | 4.2 | 3.1 | 6.4              | 5.7 | 5.0 | 3.9 | 2.9 | 0.3      |           |
| 40        | 0.1      | 4.4                       | 3.9 | 3.5 | 2.7 | 2.0 | 4.2              | 3.8 | 3.3 | 2.6 | 1.9 | 0.1      | 40        |
|           | 0.15     | 5.3                       | 4.8 | 4.3 | 3.3 | 2.5 | 5.1              | 4.6 | 4.1 | 3.1 | 2.4 | 0.15     |           |
|           | 0.3      | 7.5                       | 6.8 | 6.0 | 4.7 | 3.5 | 7.2              | 6.5 | 5.8 | 4.5 | 3.4 | 0.3      |           |
| 30        | 0.1      | 4.8                       | 4.3 | 3.8 | 3.0 | 2.2 | 4.6              | 4.1 | 3.7 | 2.9 | 2.2 | 0.1      | 30        |
|           | 0.15     | 5.9                       | 5.3 | 4.7 | 3.7 | 2.8 | 5.7              | 5.1 | 4.5 | 3.5 | 2.7 | 0.15     |           |
|           | 0.3      | 8.3                       | 7.4 | 6.6 | 5.2 | 3.9 | 8.0              | 7.2 | 6.4 | 5.0 | 3.8 | 0.3      |           |

| 冷凝温度 (°C) | 压降 (bar) | DX3-040 拓展能力表--蒸发侧或曲轴箱侧应用 |     |     |     |     |            |      |      |     |     |     | 压降 (bar) | 冷凝温度 (°C) |
|-----------|----------|---------------------------|-----|-----|-----|-----|------------|------|------|-----|-----|-----|----------|-----------|
|           |          | R407C (kW)                |     |     |     |     | R410A (kW) |      |      |     |     |     |          |           |
|           |          | 蒸发温度 (°C)                 |     |     |     |     | 蒸发温度 (°C)  |      |      |     |     |     |          |           |
|           |          | 10                        | 5   | 0   | -10 | -20 | 5          | 0    | -5   | -10 | -20 | -30 |          |           |
| 60<br>泡点  | 0.1      | 4.2                       | 3.8 | 3.4 | 2.7 | 2.0 | 4.7        | 4.3  | 3.9  | 3.5 | 2.8 | 2.2 | 0.1      | 60        |
|           | 0.15     | 5.1                       | 4.6 | 4.1 | 3.3 | 2.5 | 5.7        | 5.2  | 4.7  | 4.3 | 3.4 | 2.7 | 0.15     |           |
|           | 0.3      | 7.2                       | 6.6 | 5.9 | 4.6 | 3.5 | 8.2        | 7.4  | 6.7  | 6.0 | 4.8 | 3.8 | 0.3      |           |
| 50<br>泡点  | 0.1      | 4.8                       | 4.3 | 3.9 | 3.1 | 2.4 | 5.6        | 5.0  | 4.6  | 4.1 | 3.3 | 2.6 | 0.1      | 50        |
|           | 0.15     | 5.9                       | 5.3 | 4.7 | 3.8 | 2.9 | 6.8        | 6.2  | 5.6  | 5.1 | 4.1 | 3.2 | 0.15     |           |
|           | 0.3      | 8.3                       | 7.5 | 6.7 | 5.3 | 4.1 | 9.6        | 8.8  | 7.9  | 7.2 | 5.8 | 4.5 | 0.3      |           |
| 40<br>泡点  | 0.1      | 5.3                       | 4.8 | 4.4 | 3.5 | 2.7 | 6.3        | 5.7  | 5.2  | 4.7 | 3.8 | 3.0 | 0.1      | 40        |
|           | 0.15     | 6.6                       | 5.9 | 5.3 | 4.3 | 3.3 | 7.7        | 7.0  | 6.4  | 5.8 | 4.7 | 3.7 | 0.15     |           |
|           | 0.3      | 9.3                       | 8.4 | 7.5 | 6.0 | 4.7 | 10.9       | 9.9  | 9.0  | 8.2 | 6.6 | 5.2 | 0.3      |           |
| 30<br>泡点  | 0.1      | 5.9                       | 5.3 | 4.8 | 3.8 | 3.0 | 7.0        | 6.4  | 5.8  | 5.3 | 4.3 | 3.4 | 0.1      | 30        |
|           | 0.15     | 7.2                       | 6.5 | 5.9 | 4.7 | 3.7 | 8.5        | 7.8  | 7.1  | 6.4 | 5.2 | 4.1 | 0.15     |           |
|           | 0.3      | 10.2                      | 9.2 | 8.3 | 6.6 | 5.2 | 12.1       | 11.0 | 10.1 | 9.1 | 7.4 | 5.8 | 0.3      |           |

| 冷凝温度 (°C) | 压降 (bar) | DX3-040 拓展能力表--蒸发侧或曲轴箱侧应用 |     |     |     |     |     |                  |     |     |     |     | 压降 (bar) | 冷凝温度 (°C) |          |
|-----------|----------|---------------------------|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|----------|-----------|----------|
|           |          | R404A/R507 (kW)           |     |     |     |     |     | R448A/R449A (kW) |     |     |     |     |          |           |          |
|           |          | 蒸发温度 (°C)                 |     |     |     |     |     | 蒸发温度 (°C)        |     |     |     |     |          |           |          |
|           |          | 5                         | 0   | -5  | -10 | -20 | -30 | 5                | 0   | -5  | -10 | -20 |          |           | -30      |
| 60<br>泡点  | 0.1      | 3.0                       | 2.6 | 2.3 | 2.1 | 1.6 | 1.1 | 3.7              | 3.3 | 3.0 | 2.6 | 2.0 | 1.5      | 0.1       | 60<br>泡点 |
|           | 0.15     | 3.6                       | 3.2 | 2.8 | 2.5 | 1.9 | 1.4 | 4.5              | 4.1 | 3.6 | 3.2 | 2.5 | 1.9      | 0.15      |          |
|           | 0.3      | 5.1                       | 4.6 | 4.1 | 3.6 | 2.7 | 2.0 | 6.4              | 5.7 | 5.1 | 4.5 | 3.5 | 2.6      | 0.3       |          |
| 50<br>泡点  | 0.1      | 3.7                       | 3.3 | 3.0 | 2.6 | 2.0 | 1.5 | 4.3              | 3.9 | 3.5 | 3.1 | 2.4 | 1.8      | 0.1       | 50<br>泡点 |
|           | 0.15     | 4.5                       | 4.1 | 3.6 | 3.2 | 2.5 | 1.9 | 5.3              | 4.7 | 4.3 | 3.8 | 2.9 | 2.2      | 0.15      |          |
|           | 0.3      | 6.4                       | 5.8 | 5.2 | 4.6 | 3.5 | 2.6 | 7.5              | 6.7 | 6.0 | 5.3 | 4.1 | 3.1      | 0.3       |          |
| 40<br>泡点  | 0.1      | 4.4                       | 3.9 | 3.5 | 3.1 | 2.5 | 1.9 | 4.9              | 4.4 | 3.9 | 3.5 | 2.8 | 2.1      | 0.1       | 40<br>泡点 |
|           | 0.15     | 5.3                       | 4.8 | 4.3 | 3.8 | 3.0 | 2.3 | 6.0              | 5.3 | 4.8 | 4.3 | 3.4 | 2.5      | 0.15      |          |
|           | 0.3      | 7.6                       | 6.8 | 6.1 | 5.5 | 4.3 | 3.2 | 8.4              | 7.6 | 6.8 | 6.1 | 4.7 | 3.6      | 0.3       |          |
| 30<br>泡点  | 0.1      | 5.0                       | 4.5 | 4.1 | 3.6 | 2.8 | 2.2 | 5.4              | 4.9 | 4.4 | 3.9 | 3.1 | 2.3      | 0.1       | 30<br>泡点 |
|           | 0.15     | 6.1                       | 5.5 | 5.0 | 4.4 | 3.5 | 2.7 | 6.6              | 6.0 | 5.3 | 4.8 | 3.8 | 2.8      | 0.15      |          |
|           | 0.3      | 8.6                       | 7.8 | 7.0 | 6.3 | 5.0 | 3.8 | 9.3              | 8.4 | 7.5 | 6.8 | 5.3 | 4.0      | 0.3       |          |