

# G4 ULTRA LOW PROFILE UNIT COOLER

**EDEN**<sup>®</sup>  
*The Cool Solution*



UPM - Medium Temperature Application  
Capacity: 1.02kW to 15.10kW

UPM PD6 - Partial Defrost Application  
(Room Temp: +2°C to -6°C)  
Capacity: 0.97kW to 11.87kW

UPL - Low Temperature Application  
Capacity: 0.85kW to 7.48kW

UPLLT6 - Low Temperature Application (6FPI)  
Capacity: 0.97kW to 9.73kW

Effective Air Throw: 12.0m to 14.5m

# G4 Ultra Low Profile Series Unit Cooler

## UPM / UPM PD6 / UPL / UPL LT6

### General Features

**Coils** are designed with the Latest Smart Circuitry. It allows maximum massflow rate of refrigerant to be evenly distributed throughout the evaporator, maximizing coil efficiency thus providing higher efficiency and capacity with a smaller physical unit cooler dimension.

**Copper Tubes** are accordance with JIS. C12T. Inner Groove Tube (IGT) increases the internal coil surface, having a low oil film coefficient thus providing higher efficiency and capacity.

**Casing** comes in high quality powder coated Aluminum, according to AA 1100 Standard. Centre plates are built in to enhance air side performance and structural strength for models with 2 or more fans.

**Compact design** reduces unit cooler volume to enhance cold room productivity by not giving up the capacity.

**Defrosting** is by electrical sheathed stainless steel heater elements fitted with molded insulated connection and ultra low temperature silicone leads (rated to -80°C), to ensure effective defrosting and durability. Water resulting from defrosting is channeled to the drain pan with a centrally positioned outlet for positive draining from all points.

**Fins** are produced from high-grade Aluminum (Aluminum Association - AA 1100 Standard) with Double Sine Wave Pattern and Rippled Fin Edges to provide higher heat transfer efficiency.

**Fan Motors** used in all the models are high quality German brand motors, fitted with thermistor motor protection and conform to DIN 40050 safety standards. Fan motors are of the highest quality offered in the industry ensuring long life and durability for both high and low temperature application.

**Capacity Ratings** are thermally guaranteed by Eden and tested in accordance to ASHRAE dry box standards.

**Quality Assurance** for all Eden products are designed, manufactured and tested in our factories that are ISO9001 certified.

**One Year Warranty** for all Eden Heat Exchanger products (Terms and conditions apply).

### Options

- a) Copper-Fins Coil (Available only for 6FPI models)
- b) Epoxy-Coated Aluminum Fin Coil (Only on large volume orders)
- c) Passivated Corrosion Protection For All Aluminum Fin Products
- d) Hot Gas Bypass



# G4 Ultra Low Profile Series Unit Cooler

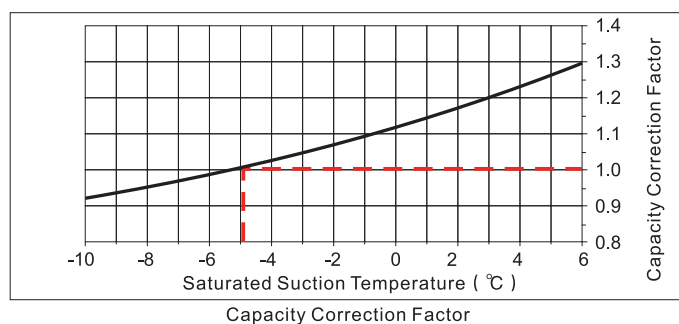
## UPM / UPM PD6 / UPL / UPL LT6

### UPM - Ultra Low Profile Series Unit Cooler Specifications

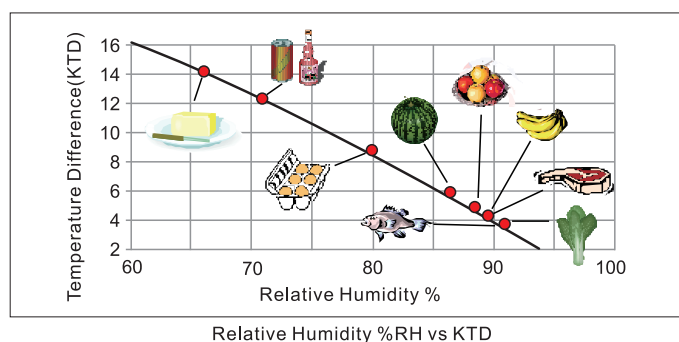
Air Defrost 6FPI Room Temperature +3°C

| Model    | Capacity R22 |          |               |          | Fan Data         |           |         |        |                 |          |        |               |
|----------|--------------|----------|---------------|----------|------------------|-----------|---------|--------|-----------------|----------|--------|---------------|
|          | ASHRAE       |          | EUROVENT SC2* |          | No. of Fan 250mm | Fan Motor |         |        | Fan Speed (rpm) | Air Flow |        | Air Throw (m) |
|          | Watts        | Btu/hr   | Watts         | Btu/hr   |                  | (V/Ph/Hz) | (Watts) | (Amps) |                 | (L/s)    | (m³/h) |               |
|          | 8 KTD        | 14.4 FTD | 8 KTD         | 14.4 FTD |                  |           |         |        |                 |          |        |               |
| UPM 0102 | 1,020        | 3,480    | 1,114         | 3,802    | 1                | 230/1/50  | 42      | 0.19   | 1,400           | 289      | 1040   | 12.6          |
| UPM 0145 | 1,450        | 4,948    | 1,584         | 5,405    | 1                | 230/1/50  | 42      | 0.19   | 1,400           | 277      | 997    | 12.4          |
| UPM 0189 | 1,890        | 6,449    | 2,065         | 7,045    | 1                | 230/1/50  | 42      | 0.19   | 1,400           | 268      | 965    | 12.3          |
| UPM 0213 | 2,130        | 7,268    | 2,327         | 7,940    | 1                | 230/1/50  | 42      | 0.19   | 1,400           | 250      | 900    | 12.0          |
| UPM 0274 | 2,740        | 9,349    | 2,993         | 10,214   | 2                | 230/1/50  | 84      | 0.38   | 1,400           | 578      | 2080   | 12.9          |
| UPM 0380 | 3,800        | 12,966   | 4,152         | 14,166   | 2                | 230/1/50  | 84      | 0.38   | 1,400           | 554      | 1994   | 12.7          |
| UPM 0465 | 4,650        | 15,866   | 5,080         | 17,334   | 2                | 230/1/50  | 84      | 0.38   | 1,400           | 536      | 1930   | 12.5          |
| UPM 0570 | 5,700        | 19,449   | 6,227         | 21,248   | 2                | 230/1/50  | 84      | 0.38   | 1,400           | 500      | 1800   | 12.2          |
| UPM 0623 | 6,230        | 21,258   | 6,806         | 23,224   | 2                | 230/1/50  | 84      | 0.38   | 1,400           | 480      | 1728   | 12.0          |
| UPM 0735 | 7,350        | 25,079   | 8,030         | 27,399   | 3                | 230/1/50  | 126     | 0.57   | 1,400           | 804      | 2895   | 14.1          |
| UPM 0851 | 8,510        | 29,037   | 9,297         | 31,723   | 3                | 230/1/50  | 126     | 0.57   | 1,400           | 750      | 2700   | 13.9          |
| UPM 0947 | 9,470        | 32,313   | 10,346        | 35,302   | 3                | 230/1/50  | 126     | 0.57   | 1,400           | 720      | 2592   | 13.7          |
| UPM 1172 | 11,720       | 39,990   | 12,804        | 43,689   | 4                | 230/1/50  | 168     | 0.76   | 1,400           | 1000     | 3600   | 14.4          |
| UPM 1320 | 13,200       | 45,040   | 14,421        | 49,206   | 4                | 230/1/50  | 168     | 0.76   | 1,400           | 960      | 3456   | 14.2          |
| UPM 1510 | 15,100       | 51,523   | 16,497        | 56,289   | 5                | 230/1/50  | 210     | 0.95   | 1,400           | 1200     | 4320   | 14.5          |

### Application & Correction Factor Guideline



| Refrigerant | Capacity Multiplier |
|-------------|---------------------|
| R22         | 1.00                |
| R407B       | 0.95                |
| R407C       | 0.93                |
| R134A       | 0.975               |
| R404A       | 0.989               |
| R507        | 0.989               |
| R407F       | 1.00                |



| Products         | Storage Temperature (°C) | Recommended RH % |
|------------------|--------------------------|------------------|
| Apple            | 1.5                      | 87%              |
| Banana           | 5.0                      | 88%              |
| Dairy Product    | 2.0                      | 65%              |
| Egg, Shell       | 5.0 to 6.0               | 80%              |
| Fish, Fresh      | 0 to 1.0                 | 90 - 95%         |
| Beef, Fresh      | 0 to 1.0                 | 88 - 92%         |
| Chicken          | -1.0 to 1.0              | 95%              |
| Watermelon       | 3.0 to 5.0               | 85%              |
| Vegetables       | 1.0 to 2.0               | 90 - 95%         |
| Bottle/Can Drink | 3.0 to 4.0               | 70%              |

### Capacity Ratings & Conditions

All Eden Heat Exchangers are tested in accordance to ASHRAE Dry Box Standard.  
(Recommended for Asia usage)

\*EUROVENT Data is used for Comparison Purposes

\*EUROVENT Data is based on SC2 Nominal Capacity

SC2 Condition - Air Inlet Temperature = 0°C and Evaporating Temperature = -8°C

# G4 Ultra Low Profile Series Unit Cooler

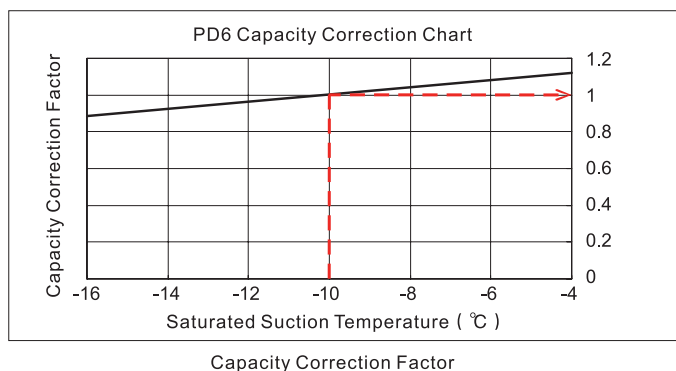
## UPM / UPM PD6 / UPL / UPL LT6

### UPM PD6 - Ultra Low Profile Series Unit Cooler Specifications

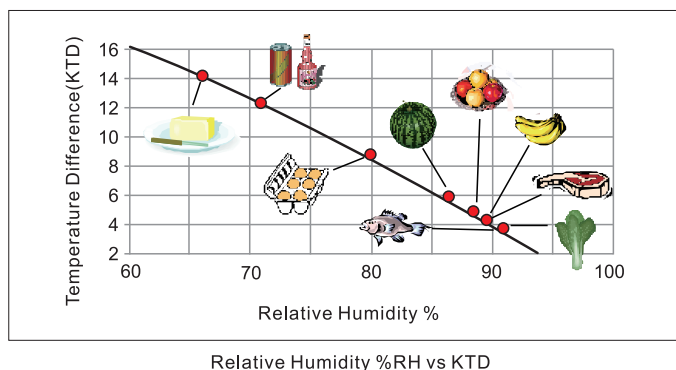
Electric Defrost 6FPI Room Temperature -4°C

| Model        | Capacity R22 |          |               |          | Fan Data         |           |         |        |           |          |        |               | Heater Data         |                          |
|--------------|--------------|----------|---------------|----------|------------------|-----------|---------|--------|-----------|----------|--------|---------------|---------------------|--------------------------|
|              | ASHRAE       |          | EUROVENT SC2* |          | No. of Fan 250mm | Fan Motor |         |        | Fan Speed | Air Flow |        | Air Throw (m) | Coil Heater (Watts) | Drain Pan Heater (Watts) |
|              | Watts        | Btu/hr   | Watts         | Btu/hr   |                  | (V/Ph/Hz) | (Watts) | (Amps) | (rpm)     | (L/s)    | (m³/h) |               |                     |                          |
|              | 6 KTD        | 10.8 FTD | 8 KTD         | 14.4 FTD |                  |           |         |        |           |          |        |               |                     |                          |
| UPM 0097 PD6 | 970          | 3,310    | 1,484         | 5,064    | 1                | 230/1/50  | 42      | 0.19   | 1,400     | 277      | 997    | 12.7          | 1x780               | 1x550                    |
| UPM 0139 PD6 | 1,390        | 4,743    | 2,127         | 7,257    | 1                | 230/1/50  | 42      | 0.19   | 1,400     | 268      | 965    | 12.5          | 1x780               | 1x550                    |
| UPM 0148 PD6 | 1,480        | 5,050    | 2,264         | 7,726    | 1                | 230/1/50  | 42      | 0.19   | 1,400     | 250      | 900    | 12.3          | 1x780               | 1x550                    |
| UPM 0282 PD6 | 2,820        | 9,622    | 4,315         | 14,722   | 2                | 230/1/50  | 84      | 0.38   | 1,400     | 554      | 1994   | 13.0          | 1 x 1353            | 1 x 833                  |
| UPM 0343 PD6 | 3,430        | 11,704   | 5,248         | 17,907   | 2                | 230/1/50  | 84      | 0.38   | 1,400     | 536      | 1930   | 12.8          | 1 x 1353            | 1 x 833                  |
| UPM 0428 PD6 | 4,280        | 14,604   | 6,548         | 22,344   | 2                | 230/1/50  | 84      | 0.38   | 1,400     | 500      | 1800   | 12.7          | 1 x 1353            | 1 x 833                  |
| UPM 0477 PD6 | 4,770        | 16,276   | 7,298         | 24,902   | 2                | 230/1/50  | 84      | 0.38   | 1,400     | 480      | 1728   | 12.5          | 1 x 1353            | 1 x 833                  |
| UPM 0533 PD6 | 5,330        | 18,187   | 8,155         | 27,826   | 3                | 230/1/50  | 126     | 0.57   | 1,400     | 804      | 2895   | 13.5          | 1 x 1900            | 1 x 833                  |
| UPM 0624 PD6 | 6,240        | 21,292   | 9,547         | 32,576   | 3                | 230/1/50  | 126     | 0.57   | 1,400     | 750      | 2700   | 13.3          | 1 x 1900            | 1 x 833                  |
| UPM 0710 PD6 | 7,100        | 24,226   | 10,863        | 37,066   | 3                | 230/1/50  | 126     | 0.57   | 1,400     | 720      | 2592   | 13.0          | 1 x 1900            | 1 x 833                  |
| UPM 0855 PD6 | 8,550        | 29,174   | 13,082        | 44,636   | 4                | 230/1/50  | 168     | 0.76   | 1,400     | 1000     | 3600   | 13.8          | 1 x 2506            | 1 x 833                  |
| UPM 0954 PD6 | 9,540        | 32,552   | 14,596        | 49,804   | 4                | 230/1/50  | 168     | 0.76   | 1,400     | 960      | 3456   | 13.6          | 1 x 2506            | 1 x 833                  |
| UPM 1187 PD6 | 11,870       | 40,502   | 18,161        | 61,968   | 5                | 230/1/50  | 210     | 0.95   | 1,400     | 1200     | 4320   | 14.0          | 1 x 3111            | 1 x 1022                 |

### Application & Correction Factor Guideline



| Refrigerant | Capacity Multiplier |
|-------------|---------------------|
| R22         | 1.00                |
| R407B       | 0.95                |
| R407C       | 0.93                |
| R134A       | 0.975               |
| R404A       | 0.989               |
| R507        | 0.989               |
| R407F       | 1.00                |



| Products         | Storage Temperature (°C) | Recommended RH % |
|------------------|--------------------------|------------------|
| Apple            | 1.5                      | 87%              |
| Banana           | 5.0                      | 88%              |
| Dairy Product    | 2.0                      | 65%              |
| Egg, Shell       | 5.0 to 6.0               | 80%              |
| Fish, Fresh      | 0 to 1.0                 | 90 - 95%         |
| Beef, Fresh      | 0 to 1.0                 | 88 - 92%         |
| Chicken          | -1.0 to 1.0              | 95%              |
| Watermelon       | 3.0 to 5.0               | 85%              |
| Vegetables       | 1.0 to 2.0               | 90 - 95%         |
| Bottle/Can Drink | 3.0 to 4.0               | 70%              |

### Capacity Ratings & Conditions

All Eden Heat Exchangers are tested in accordance to ASHRAE Dry Box Standard.  
(Recommended for Asia usage)

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\*EUROVENT Data is based on SC2 Nominal Capacity

SC2 Condition - Air Inlet Temperature = 0°C and Evaporating Temperature = -8°C

# G4 Ultra Low Profile Series Unit Cooler

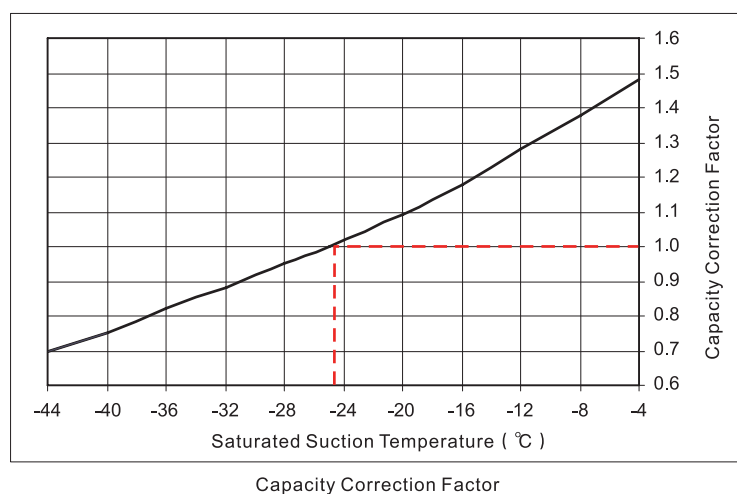
## UPM / UPM PD6 / UPL / UPL LT6

### UPL - Ultra Low Profile Series Unit Cooler Specifications

Electric Defrost 4FPI Room Temperature -19°C

| Model    | Capacity R22 |          |               |          | Fan Data            |           |         |        |           |          |        |                  | Heater Data            |                             |
|----------|--------------|----------|---------------|----------|---------------------|-----------|---------|--------|-----------|----------|--------|------------------|------------------------|-----------------------------|
|          | ASHRAE       |          | EUROVENT SC3* |          | No. of Fan<br>250mm | Fan Motor |         |        | Fan Speed | Air Flow |        | Air Throw<br>(m) | Coil Heater<br>(Watts) | Drain Pan Heater<br>(Watts) |
|          | Watts        | Btu/hr   | Watts         | Btu/hr   |                     | (V/Ph/Hz) | (Watts) | (Amps) | (rpm)     | (L/s)    | (m³/h) |                  |                        |                             |
|          | 6 KTD        | 10.8 FTD | 7 KTD         | 12.6 FTD |                     |           |         |        |           |          |        |                  |                        |                             |
| UPL 0085 | 850          | 2,900    | 1,041         | 3,553    | 1                   | 230/1/50  | 42      | 0.19   | 1,400     | 280      | 1008   | 12.8             | 1x780                  | 1x550                       |
| UPL 0098 | 980          | 3,344    | 1,200         | 4,096    | 1                   | 230/1/50  | 42      | 0.19   | 1,400     | 273      | 983    | 12.6             | 1x780                  | 1x550                       |
| UPL 0113 | 1,130        | 3,856    | 1,384         | 4,723    | 1                   | 230/1/50  | 42      | 0.19   | 1,400     | 248      | 893    | 12.5             | 1x780                  | 1x550                       |
| UPL 0145 | 1,450        | 4,948    | 1,776         | 6,061    | 2                   | 230/1/50  | 84      | 0.38   | 1,400     | 584      | 2102   | 13.1             | 1 x 1353               | 1 x 833                     |
| UPL 0177 | 1,770        | 6,039    | 2,168         | 7,398    | 2                   | 230/1/50  | 84      | 0.38   | 1,400     | 560      | 2016   | 13.0             | 1 x 1353               | 1 x 833                     |
| UPL 0209 | 2,090        | 7,131    | 2,560         | 8,736    | 2                   | 230/1/50  | 84      | 0.38   | 1,400     | 546      | 1966   | 12.9             | 1 x 1353               | 1 x 833                     |
| UPL 0255 | 2,550        | 8,701    | 3,124         | 10,659   | 2                   | 230/1/50  | 84      | 0.38   | 1,400     | 496      | 1786   | 12.7             | 1 x 1353               | 1 x 833                     |
| UPL 0296 | 2,960        | 10,100   | 3,626         | 12,372   | 3                   | 230/1/50  | 126     | 0.57   | 1,400     | 840      | 3024   | 13.5             | 1 x 1900               | 1 x 833                     |
| UPL 0364 | 3,640        | 12,420   | 4,459         | 15,215   | 3                   | 230/1/50  | 126     | 0.57   | 1,400     | 819      | 2949   | 13.3             | 1 x 1900               | 1 x 833                     |
| UPL 0412 | 4,120        | 14,058   | 5,047         | 17,221   | 3                   | 230/1/50  | 126     | 0.57   | 1,400     | 744      | 2679   | 13.2             | 1 x 1900               | 1 x 833                     |
| UPL 0483 | 4,830        | 16,481   | 5,917         | 20,189   | 4                   | 230/1/50  | 168     | 0.76   | 1,400     | 1092     | 3932   | 13.8             | 1 x 2506               | 1 x 833                     |
| UPL 0565 | 5,650        | 19,279   | 6,921         | 23,616   | 4                   | 230/1/50  | 168     | 0.76   | 1,400     | 992      | 3572   | 13.6             | 1 x 2506               | 1 x 833                     |
| UPL 0655 | 6,550        | 22,350   | 8,024         | 27,378   | 5                   | 230/1/50  | 210     | 0.95   | 1,400     | 1365     | 4915   | 14.2             | 1 x 3111               | 1 x 1022                    |
| UPL 0748 | 7,480        | 25,523   | 9,163         | 31,265   | 5                   | 230/1/50  | 210     | 0.95   | 1,400     | 1240     | 4465   | 14.0             | 1 x 3111               | 1 x 1022                    |

### Application & Correction Factor Guideline



| Refrigerant | Capacity Multiplier |
|-------------|---------------------|
| R22         | 1.00                |
| R407B       | 0.95                |
| R407C       | 0.93                |
| R134A       | 0.975               |
| R404A       | 0.989               |
| R507        | 0.989               |
| R407F       | 1.00                |

#### Capacity Ratings & Conditions

All Eden Heat Exchangers are tested in accordance To ASHRAE Dry Box Standard.  
(Recommended for Asia usage)

**\*EUROVENT Data is used for Comparison Purposes**

\*EUROVENT Data is based on SC3 Nominal Capacity

SC3 Condition - Air Inlet Temperature = -18°C and Evaporating Temperature = -25°C

# G4 Ultra Low Profile Series Unit Cooler

## UPM / UPM PD6 / UPL / UPL LT6

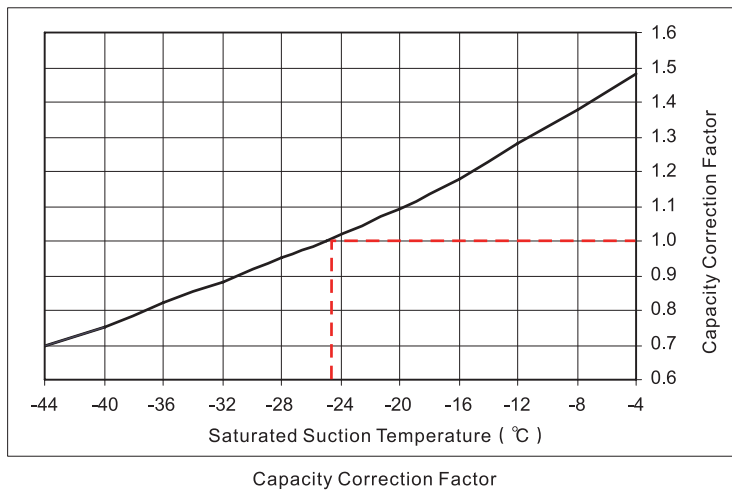
### UPL LT6 - Ultra Low Profile Series Unit Cooler Specifications

Electric Defrost 6FPI Room Temperature -19°C

| Model        | Capacity R22 |          |               |          | Fan Data             |           |         |        |           |          |        |                  | Heater Data            |                             |
|--------------|--------------|----------|---------------|----------|----------------------|-----------|---------|--------|-----------|----------|--------|------------------|------------------------|-----------------------------|
|              | ASHRAE       |          | EUROVENT SC3* |          | No. of Fans<br>250mm | Fan Motor |         |        | Fan Speed | Air Flow |        | Air Throw<br>(m) | Coil Heater<br>(Watts) | Drain Pan Heater<br>(Watts) |
|              | Watts        | Btu/hr   | Watts         | Btu/hr   |                      | (V/Ph/Hz) | (Watts) | (Amps) | (rpm)     | (L/s)    | (m³/h) |                  |                        |                             |
|              | 6 KTD        | 10.8 FTD | 7 KTD         | 12.6 FTD |                      |           |         |        |           |          |        |                  |                        |                             |
| UPL 0097 LT6 | 970          | 3,310    | 1,188         | 4,054    | 1                    | 230/1/50  | 42      | 0.19   | 1400      | 268      | 965    | 12.8             | 1 x 780                | 1 x 550                     |
| UPL 0134 LT6 | 1,340        | 4,572    | 1,642         | 5,601    | 1                    | 230/1/50  | 42      | 0.19   | 1400      | 250      | 900    | 12.6             | 1 x 780                | 1 x 550                     |
| UPL 0144 LT6 | 1,440        | 4,913    | 1,764         | 6,019    | 1                    | 230/1/50  | 42      | 0.19   | 1400      | 240      | 864    | 12.4             | 1 x 780                | 1 x 550                     |
| UPL 0225 LT6 | 2,250        | 7,677    | 2,756         | 9,405    | 2                    | 230/1/50  | 84      | 0.38   | 1400      | 554      | 1994   | 13.4             | 1 x 1353               | 1 x 833                     |
| UPL 0271 LT6 | 2,710        | 9,247    | 3,320         | 11,327   | 2                    | 230/1/50  | 84      | 0.38   | 1400      | 536      | 1930   | 13.2             | 1 x 1353               | 1 x 833                     |
| UPL 0330 LT6 | 3,300        | 11,260   | 4,043         | 13,794   | 2                    | 230/1/50  | 84      | 0.38   | 1400      | 480      | 1728   | 13.0             | 1 x 1353               | 1 x 833                     |
| UPL 0453 LT6 | 4,530        | 15,457   | 5,549         | 18,935   | 3                    | 230/1/50  | 126     | 0.57   | 1400      | 750      | 2700   | 13.8             | 1 x 1900               | 1 x 833                     |
| UPL 0524 LT6 | 5,240        | 17,880   | 6,419         | 21,903   | 3                    | 230/1/50  | 126     | 0.57   | 1400      | 720      | 2592   | 13.6             | 1 x 1900               | 1 x 833                     |
| UPL 0616 LT6 | 6,160        | 21,019   | 7,546         | 25,748   | 4                    | 230/1/50  | 168     | 0.76   | 1400      | 1000     | 3600   | 14.0             | 1 x 2506               | 1 x 833                     |
| UPL 0718 LT6 | 7,180        | 24,499   | 8,796         | 30,011   | 4                    | 230/1/50  | 168     | 0.76   | 1400      | 960      | 3456   | 13.2             | 1 x 2506               | 1 x 833                     |
| UPL 0973 LT6 | 9,730        | 33,200   | 11,919        | 40,670   | 5                    | 230/1/50  | 210     | 0.95   | 1400      | 1250     | 4500   | 14.3             | 1 x 3111               | 1 x 1022                    |

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### Application & Correction Factor Guideline



| Refrigerant | Capacity Multiplier |
|-------------|---------------------|
| R22         | 1.00                |
| R407B       | 0.95                |
| R407C       | 0.93                |
| R134A       | 0.975               |
| R404A       | 0.989               |
| R507        | 0.989               |
| R417A       | 0.91                |

#### Capacity Ratings & Conditions

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(Recommended for Asia usage)

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\*EUROVENT Data is based on SC3 Nominal Capacity

SC3 Condition - Air Inlet Temperature = -18°C and Evaporating Temperature = -25°C

# G4 Ultra Low Profile Series Unit Cooler

## UPM / UPM PD6 / UPL / UPL LT6

### Technical Specification

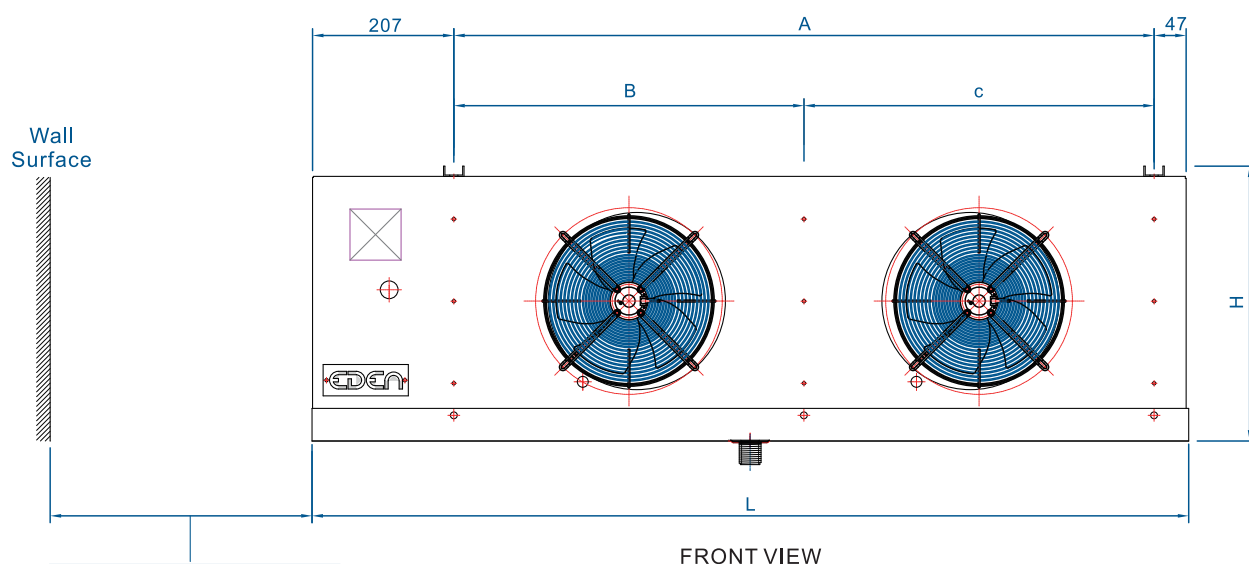
| Model        | Size (mm) |       |       |     |     |       |     |     |       | Nett Weight (kg) | Weight (kg)* | Liquid Connection (mm) | Suction Connection (mm) | Drain Pipe (mm) |
|--------------|-----------|-------|-------|-----|-----|-------|-----|-----|-------|------------------|--------------|------------------------|-------------------------|-----------------|
|              | A         | B     | C     | H   | W   | L     | H*  | W*  | L*    |                  |              |                        |                         |                 |
| UPM 0102     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 15.1             | 29.3         | 12.7                   | 22.2                    | 25.4            |
| UPM 0145     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 15.8             | 30.1         | 12.7                   | 22.2                    | 25.4            |
| UPM 0189     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 16.5             | 30.9         | 12.7                   | 22.2                    | 25.4            |
| UPM 0213     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 16.9             | 31.2         | 12.7                   | 22.2                    | 25.4            |
| UPM 0274     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 17.4             | 32.3         | 12.7                   | 22.2                    | 25.4            |
| UPM 0380     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 20.0             | 34.7         | 12.7                   | 22.2                    | 25.4            |
| UPM 0465     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 22.5             | 37.0         | 12.7                   | 22.2                    | 25.4            |
| UPM 0570     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 25.0             | 39.4         | 12.7                   | 28.6                    | 25.4            |
| UPM 0623     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 27.5             | 41.8         | 12.7                   | 28.6                    | 25.4            |
| UPM 0735     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 32.0             | 49.3         | 12.7                   | 28.6                    | 25.4            |
| UPM 0851     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 35.7             | 52.9         | 12.7                   | 28.6                    | 25.4            |
| UPM 0947     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 39.4             | 56.4         | 12.7                   | 28.6                    | 25.4            |
| UPM 1172     | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 41.4             | 66.3         | 12.7                   | 28.6                    | 25.4            |
| UPM 1320     | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 51.3             | 71.0         | 15.9                   | 28.6                    | 25.4            |
| UPM 1510     | 2,527     | 1,011 | 1,516 | 406 | 255 | 2,786 | 575 | 480 | 2,890 | 63.2             | 85.5         | 15.9                   | 28.6                    | 25.4            |
| UPM 0097 PD6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 16.2             | 30.2         | 12.7                   | 22.2                    | 25.4            |
| UPM 0139 PD6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 17.4             | 31.6         | 12.7                   | 22.2                    | 25.4            |
| UPM 0148 PD6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 18.7             | 33.2         | 12.7                   | 22.2                    | 25.4            |
| UPM 0282 PD6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 20.0             | 34.7         | 12.7                   | 22.2                    | 25.4            |
| UPM 0343 PD6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 22.5             | 37.0         | 12.7                   | 22.2                    | 25.4            |
| UPM 0428 PD6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 25.0             | 39.4         | 12.7                   | 22.2                    | 25.4            |
| UPM 0477 PD6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 27.5             | 41.8         | 12.7                   | 28.6                    | 25.4            |
| UPM 0533 PD6 | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 32.0             | 49.3         | 12.7                   | 28.6                    | 25.4            |
| UPM 0624 PD6 | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 35.7             | 52.9         | 12.7                   | 28.6                    | 25.4            |
| UPM 0710 PD6 | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 39.4             | 56.4         | 12.7                   | 28.6                    | 25.4            |
| UPM 0855 PD6 | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 46.4             | 66.3         | 12.7                   | 28.6                    | 25.4            |
| UPM 0954 PD6 | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 51.3             | 71.0         | 15.9                   | 28.6                    | 25.4            |
| UPM 1187 PD6 | 2,527     | 1,011 | 1,516 | 406 | 255 | 2,786 | 575 | 480 | 2,890 | 63.2             | 85.5         | 15.9                   | 28.6                    | 25.4            |
| UPL 0085     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 16.4             | 30.6         | 12.7                   | 22.2                    | 25.4            |
| UPL 0098     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 17.6             | 31.8         | 12.7                   | 22.2                    | 25.4            |
| UPL 0113     | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 18.8             | 33.1         | 12.7                   | 22.2                    | 25.4            |
| UPL 0145     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 19.8             | 34.5         | 12.7                   | 22.2                    | 25.4            |
| UPL 0177     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 22.2             | 36.8         | 12.7                   | 22.2                    | 25.4            |
| UPL 0209     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 24.7             | 39.1         | 12.7                   | 22.2                    | 25.4            |
| UPL 0255     | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 27.2             | 41.4         | 12.7                   | 22.2                    | 25.4            |
| UPL 0296     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 31.6             | 49.0         | 12.7                   | 28.6                    | 25.4            |
| UPL 0364     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 35.2             | 52.4         | 12.7                   | 28.6                    | 25.4            |
| UPL 0412     | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 38.9             | 55.9         | 12.7                   | 28.6                    | 25.4            |
| UPL 0483     | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 45.8             | 65.7         | 12.7                   | 28.6                    | 25.4            |
| UPL 0565     | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 50.6             | 70.3         | 15.9                   | 28.6                    | 25.4            |
| UPL 0655     | 2,527     | 1,011 | 1,516 | 406 | 255 | 2,786 | 575 | 480 | 2,890 | 56.3             | 79.0         | 15.9                   | 28.6                    | 25.4            |
| UPL 0748     | 2,527     | 1,011 | 1,516 | 406 | 255 | 2,786 | 575 | 480 | 2,890 | 62.3             | 84.7         | 15.9                   | 28.6                    | 25.4            |
| UPL 0097 LT6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 16.5             | 30.8         | 12.7                   | 22.2                    | 25.4            |
| UPL 0134 LT6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 17.8             | 31.9         | 12.7                   | 22.2                    | 25.4            |
| UPL 0144 LT6 | 528       | -     | -     | 406 | 255 | 786   | 575 | 480 | 890   | 19.0             | 33.3         | 12.7                   | 22.2                    | 25.4            |
| UPL 0225 LT6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 21.1             | 35.7         | 12.7                   | 22.2                    | 25.4            |
| UPL 0271 LT6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 24.0             | 38.5         | 12.7                   | 28.6                    | 25.4            |
| UPL 0330 LT6 | 1,028     | -     | -     | 406 | 255 | 1,286 | 575 | 480 | 1,390 | 29.8             | 43.9         | 12.7                   | 28.6                    | 25.4            |
| UPL 0453 LT6 | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 38.6             | 55.6         | 12.7                   | 28.6                    | 25.4            |
| UPL 0524 LT6 | 1,528     | -     | -     | 406 | 255 | 1,786 | 575 | 480 | 1,890 | 42.8             | 59.6         | 12.7                   | 28.6                    | 25.4            |
| UPL 0616 LT6 | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 50.2             | 69.9         | 12.7                   | 28.6                    | 25.4            |
| UPL 0718 LT6 | 2,027     | 1,014 | 1,014 | 406 | 255 | 2,286 | 575 | 480 | 2,390 | 55.9             | 75.3         | 12.7                   | 28.6                    | 25.4            |
| UPL 0973 LT6 | 2,527     | 1,011 | 1,516 | 406 | 255 | 2,786 | 575 | 480 | 2,890 | 61.8             | 84.3         | 12.7                   | 28.6                    | 25.4            |

\* Packed Dimensions / Weight

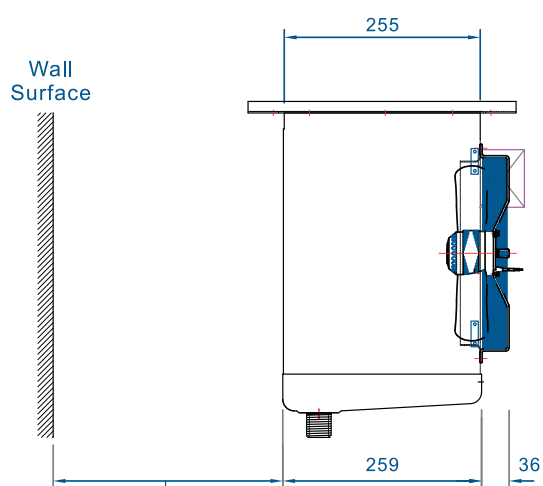
# G4 Ultra Low Profile Series Unit Cooler

## UPM / UPM PD6 / UPL / UPL LT6

### Installation Guide for UPM / UPM PD6 / UPL / UPL LT6



370mm for 1 fan motor  
385mm for 2 fans motor  
400mm for 3 fans motor  
415mm for 4 fans motor  
430mm for 5 fans motor



SECTION VIEW

# G4 Ultra Low Profile Series Unit Cooler

## UPM / UPM PD6 / UPL / UPL LT6

### ADDITIONAL INFORMATION

#### Example:

Application: Apple Cooler  
Required Room Temperature: 1.5°C  
Ambient: +35°C  
Evaporating Temperature: -3.5°C at 5KTD (Recommended)  
Cooling Capacity: 2.8kW (Inclusive of the Fan and Heater load)  
Type of Refrigerant: R404A

#### Selection of the Eden G4 Unit Cooler as follow:

1. Determine the Correction Factor and Multiplier (Refers to page 2)
  - a. Capacity Correction Factor is approx.1.04
  - b. Refrigerant multiplier = 0.989
2. Calculation of required capacity:
  - a.  $2.8\text{kW} / 1.04 / 0.989 = 2.72\text{kW}$  (Inclusive of the Fan and Heater load)
3. Calculate the unit cooler capacity needed at 5KTD:
  - a.  $2.72\text{kW} \times 8 / 5 = 4.35\text{kW}$
4. Hence **UPM 0465** is the suitable unit cooler for the above application.

#### Eden Select:



The Eden Select software enables you to do a refrigeration heat load calculation and select the actual model for the unit cooler and condenser.





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