



# CHILLER SELECTION REPORT

Daikin Refrigeration Malaysia Sdn. Bhd.

Project : asdas  
Created By : lee my

## Customer Input

Selected Model / Type : UAM60CFM / Fixed Speed Scroll Chiller Version C  
Ambient Temperature : 31.7 °C Frequency : 50 Hz  
Chilled Water : EWT 11.00 °C Voltage : 380-415 V  
LWT 7.50 °C Country of Origin : Malaysia

## Generated Outputs

| Full Load Performance |            | Nominal Data (AHRI Standard) |       | Input Conditions  |  |
|-----------------------|------------|------------------------------|-------|-------------------|--|
| Cooling Capacity      |            | 59.27                        | 63.37 | TR                |  |
|                       |            | 208.5                        | 222.9 | kW                |  |
| Current               | Compressor | 115                          | 109   | A                 |  |
|                       | Fan        | 18                           | 18    | A                 |  |
|                       | Total      | 133                          | 127   | A                 |  |
| Power Input           | Compressor | 67.18                        | 62.57 | kW                |  |
|                       | Fan        | 12.00                        | 12.00 | kW                |  |
|                       | Total      | 79.18                        | 74.57 | kW                |  |
| COP                   |            | 2.633                        | 2.989 | kW/kW             |  |
| Flow Rate             |            | 35.90                        | 54.83 | m <sup>3</sup> /h |  |
| Pressure Drop         |            | 37.9                         | 75.5  | kPa               |  |

Note :  
1. Nominal data is based on the AHRI (551/591) standard condition of EWT/LWT of 12.00/7.00°C, and ambient temperature of 35.0°C.  
2. Input Condition data is based on customer's input condition of EWT/LWT, and ambient temperature.  
3. Evaporator rating fouling factor = 0.018 m<sup>2</sup>.K/kW, and rating altitude at 0 m.

## Part Load Performance

|                        |  |       |       |       |       |   |   |   |   |   |    |                   |
|------------------------|--|-------|-------|-------|-------|---|---|---|---|---|----|-------------------|
| IPLV                   |  | 3.850 |       |       |       |   |   |   |   |   |    | kW/kW             |
| Point                  |  | 1     | 2     | 3     | 4     | 5 | 6 | 7 | 8 | 9 | 10 |                   |
| Corresponding Capacity |  | 100.0 | 75.0  | 50.0  | 25.0  | - | - | - | - | - | -  | %                 |
| Total Cooling Capacity |  | 63.37 | 47.53 | 31.69 | 15.84 | - | - | - | - | - | -  | TR                |
| Total Cooling Capacity |  | 222.9 | 167.2 | 111.4 | 55.72 | - | - | - | - | - | -  | kW                |
| Total Power Input      |  | 74.57 | 56.93 | 37.29 | 19.64 | - | - | - | - | - | -  | kW                |
| Total Current          |  | 127   | 97    | 64    | 34    | - | - | - | - | - | -  | A                 |
| COP                    |  | 2.989 | 2.936 | 2.989 | 2.837 | - | - | - | - | - | -  | kW/kW             |
| Ambient Temperature    |  | 31.7  | 31.7  | 31.7  | 31.7  | - | - | - | - | - | -  | °C                |
| EEWT                   |  | 11.00 | 10.13 | 9.25  | 8.38  | - | - | - | - | - | -  | °C                |
| ELWT                   |  | 7.50  | 7.50  | 7.50  | 7.50  | - | - | - | - | - | -  | °C                |
| Flow Rate              |  | 54.83 | 54.83 | 54.83 | 54.83 | - | - | - | - | - | -  | m <sup>3</sup> /h |
| Pressure Drop          |  | 75.5  | 75.5  | 75.5  | 75.5  | - | - | - | - | - | -  | kPa               |

## Others

|                            |            |                    |           |
|----------------------------|------------|--------------------|-----------|
| MCA                        |            | 164                | A         |
| No. of Refrigerant Circuit |            | 2                  | -         |
| Refrigerant Type           |            | R410A              | -         |
| Refrigerant Charge         | System 1/2 | 21.0 / 21.0        | kg/System |
| Chiller Dimension          | W / D / H  | 2237 / 3263 / 2156 | mm        |
| Weight                     | Shipping   | 2052               | kg        |
|                            | Operating  | 2174               | kg        |

## Evaporator

|                       |           |                    |                   |
|-----------------------|-----------|--------------------|-------------------|
| Type                  |           | S&T                | -                 |
| Inlet/Outlet Diameter |           | 4" Victaulic Joint | -                 |
| Flow Rate             | Min / Max | 13.70 / 61.20      | m <sup>3</sup> /h |
| Pressure Drop         | Min / Max | 7.00 / 90.0        | kPa               |

## Compressor

|            |            |                          |          |
|------------|------------|--------------------------|----------|
| Quantity   | System 1/2 | 2 / 2                    | -        |
| Type       |            | Hermetic-sealed (Scroll) | -        |
| Oil Charge | System 1/2 | 13.4 / 13.4              | L/System |

## Condenser

|                     |      |                |                      |
|---------------------|------|----------------|----------------------|
| Coil                |      |                |                      |
| Tube                | Type | Copper Tube    | -                    |
| Fin                 | Type | Aluminium Fin  | -                    |
| Surface Area/ Coil  |      | 11.52          | m <sup>2</sup> /Coil |
| Fan                 |      |                |                      |
| Type/ Drive         |      | Axial / Direct | -                    |
| Quantity per System |      | 3              | -                    |

Note : For any enquiry, please contact your authorized sales agent.

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