

## TECHNICAL SELECTION

Software version: ELCA World v. 1.8.17.0

User: Triana T

Database version: 1.9.17.0

Print data:15/05/2026 13:44

# TECHNICAL SELECTION

DAU/O120M-INV2

**R** HFC R-410A

 **SCROLL**

|                      |                             |
|----------------------|-----------------------------|
| Model                | DAU/O120M-INV2              |
| Version              | LT                          |
| Frame                | -                           |
| Primary circuit type | DIRECT EXPANSION AIR COOLED |
| No. Circuits         | N° 2                        |
| Refrigerant          | R410A                       |

|     |                     |      |
|-----|---------------------|------|
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EC FAN

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# 1.1 INDOOR UNIT

### MAIN CIRCUIT

#### DESIGN CONDITIONS

|                              |                   |       |
|------------------------------|-------------------|-------|
| Dry bulb temperature         | °C                | 30.0  |
| Relative humidity            | %                 | 35    |
| Altitude                     | m                 | 0     |
| Air flow                     | m <sup>3</sup> /h | 28000 |
| ESP External Static Pressure | Pa                | 100   |
| Outdoor air temperature      | °C                | 35.0  |
| Coil working pressure        |                   | -     |

#### PERFORMANCE AT DESIGN CONDITIONS

|                                 |       |      |
|---------------------------------|-------|------|
| Total cooling capacity gross    | kW    | 110  |
| Sensible cooling capacity gross | kW    | 110  |
| Net cooling capacity            | kW    | 103  |
| Net sensible cooling capacity   | kW    | 103  |
| SHR                             |       | 1.00 |
| EER (Indoor unit)               | kW/kW | 3.23 |
| Total power input (Comp.+fans)  | kW    | 34.2 |
| Leaving air temperature         | °C    | 18.9 |
| Leaving air relative humidity   | %     | 68   |
| Effective heat exchange area    |       | -    |

#### PERFORMANCE AT MINIMUM SPEED COMPRESSOR

|                                 |                   |       |
|---------------------------------|-------------------|-------|
| Total cooling capacity gross    | kW                | 26.0  |
| Sensible cooling capacity gross | kW                | 26.0  |
| Net cooling capacity            | kW                | 24.2  |
| Net sensible cooling capacity   | kW                | 24.2  |
| SHR                             |                   | 1.00  |
| EER (Indoor unit)               | kW/kW             | 5.96  |
| Total power input (Comp.+fans)  | kW                | 4.36  |
| Leaving air temperature         | °C                | 24.9  |
| Leaving air relative humidity   | %                 | 46    |
| Air flow                        | m <sup>3</sup> /h | 14400 |

The performance shown are obtained from theoretical calculations and tolerances will apply.Rpt.version:1.0.7.0

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### PARTIAL LOADS WITH COMPRESSOR MODULATION

| Load                            | %     | 100   | 80    | 60    | 40    | 20    |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| Outdoor air temperature         | °C    | 35.0  | 35.0  | 35.0  | 35.0  | 35.0  |
| Air flow                        | m³/h  | 28000 | 24441 | 20883 | 17324 | 14400 |
| Total cooling capacity gross    | kW    | 110   | 88.3  | 66.2  | 44.1  | 22.1  |
| Sensible cooling capacity gross | kW    | 110   | 88.3  | 66.2  | 44.1  | 22.1  |
| Net cooling capacity            | kW    | 103   | 82.9  | 62.5  | 41.6  | 20.3  |
| Net sensible cooling capacity   | kW    | 103   | 82.9  | 62.5  | 41.6  | 20.3  |
| Compressors power absorption    | kW    | 26.5  | 17.1  | 11.8  | 6.27  | 2.24  |
| Fans power input                | kW    | 7.65  | 5.43  | 3.75  | 2.52  | 1.77  |
| Total power input (Comp.+fans)  | kW    | 34.2  | 22.6  | 15.5  | 8.79  | 4.01  |
| Condensing temperature          | °C    | 52.5  | 48.5  | 45    | 41.6  | 38.9  |
| Leaving air temperature         | °C    | 18.1  | 19.1  | 20.4  | 22.5  | 24.5  |
| EER (Indoor unit)               | kW/kW | 3.23  | 3.91  | 4.27  | 5.03  | 5.50  |

#### Note

Note

Note: The columns with bold text identify the area of "cycling", in which the inverter compressor works with cycles of ON / OFF below the minimum modulation frequency (operation only for short periods). PLEASE SELECT THE CORRECT UNIT IN THE MODULATION FIELD.

### COMPRESSORS

|                              |    |        |
|------------------------------|----|--------|
| Compressor type              |    | SCROLL |
| Compressors nr.              | N° | 2      |
| Compressors power absorption | kW | 26.5   |

### FANS

|                                   |         |        |
|-----------------------------------|---------|--------|
| Fans type                         |         | EC fan |
| Quantity                          | N°      | 2      |
| Air flow                          | m³/h    | 28000  |
| Fans power input                  | kW      | 7.65   |
| Maximum available static pressure | Pa      | 110    |
| SPF (Specific Power Factor)       | W / l/s | 0.98   |

### ACCESSORIES

#### FILTERS

Accessory filter type

#### ELECTRICAL HEATER

|                            |         |                     |
|----------------------------|---------|---------------------|
| Heater description         |         | Tubular-Finned 18kW |
| Quantity                   | N°      | 1                   |
| Steps                      | N°      | 3                   |
| Electrical power abs.      | kW      | 18.0                |
| Max absorbed current (FLA) | A       | 27.3                |
| Power supply               | V/ph/Hz | 380/3/50            |

The performance shown are obtained from theoretical calculations and tolerances will apply. Rpt.version:1.0.7.0

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**DAU/O120M-INV2****HUMIDIFIER**

|                            |                        |          |
|----------------------------|------------------------|----------|
| Humidifier type            | Steam Humidifier 8kg/h |          |
| Quantity                   | N°                     | 1        |
| Capacity                   | kg/h                   | 8.0      |
| Electrical power abs.      | kW                     | 6.00     |
| Max absorbed current (FLA) | A                      | 9.10     |
| Power supply               | V/ph/Hz                | 380/3/50 |

**NOISE DATA**

| Spectrum             | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Tot   |
|----------------------|----|----|-----|-----|-----|------|------|------|------|-------|
|                      |    | dB | dB  | dB  | dB  | dB   | dB   | dB   | dB   | dB(A) |
| Sound Power          |    | 71 | 82  | 82  | 79  | 80   | 79   | 74   | 67   | 85    |
| Total sound Pressure |    | 54 | 65  | 65  | 62  | 63   | 62   | 57   | 50   | 68    |
| Distance             | m  | 1  |     |     |     |      |      |      |      |       |

**Note**

Note Average sound pressure level, at 1 m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

**WEIGHT & DIMENSIONS**

|        |    |      |
|--------|----|------|
| A      | mm | 2180 |
| B      | mm | 990  |
| H      | mm | 1990 |
| Weight | kg | 690  |

**ELECTRICAL DATA (refer to indoor unit)**

|                                       |         |            |
|---------------------------------------|---------|------------|
| Power supply                          | V/ph/Hz | 380/3+N/50 |
| Max Electrical power absorbed (FLI)   | kW      | 57.2       |
| Max absorbed current (FLA)            | A       | 99.9       |
| Max inrush current (SA)               | A       | 139        |
| Power input (OI)                      | kW      | 34.2       |
| Maximum Over-Current Protection (MOP) | A       | -          |
| Minimum Circuit Amps (MCA)            | A       | -          |

**1.2 REMOTE CONDENSER**

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### MAIN CIRCUIT

#### REMOTE CONDENSER

|                         |      |       |
|-------------------------|------|-------|
| Code                    |      | C58   |
| Quantity                | N°   | 2     |
| Version                 |      | STD   |
| Circuits                | N°   | 1     |
| Outdoor air temperature | °C   | 35.0  |
| Condensing temperature  | °C   | 52.5  |
| Air flow                | m³/h | 16000 |
| Rejection capacity      | kW   | 135   |

#### FANS

|                  |    |      |
|------------------|----|------|
| Fans power input | kW | 1.18 |
| Quantity         | N° | 2    |
| Project pressure | Pa | 0    |

#### WEIGHT & DIMENSIONS

|                      |    |      |
|----------------------|----|------|
| Dimension A          | mm | 2427 |
| Dimension B          | mm | 1108 |
| Dimension H          | mm | 830  |
| Weight               | kg | 112  |
| Packaged dimension A | mm | 2725 |
| Packaged dimension B | mm | 1130 |
| Packaged dimension H | mm | 1405 |
| Package weight       | kg | 157  |

#### ELECTRICAL DATA

|                      |         |          |
|----------------------|---------|----------|
| Power supply         | V/ph/Hz | 220/1/50 |
| Power input (OI)     | kW      | 1.18     |
| Total power input    | kW      | 1.30     |
| Max absorbed current | A       | 6.00     |

#### AIR SUPPLY REMOTE CONDENSER

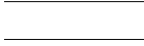
Supply air direction: None air delivery selected

#### NOISE DATA

| Spectrum             | Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Tot   |
|----------------------|----|----|-----|-----|-----|------|------|------|------|-------|
|                      |    | dB | dB  | dB  | dB  | dB   | dB   | dB   | dB   | dB(A) |
| Sound Power          |    | 53 | 64  | 67  | 70  | 68   | 64   | 57   | 48   | 78    |
| Total sound Pressure |    | 37 | 48  | 51  | 54  | 52   | 48   | 41   | 32   | 62    |
| Distance             | m  | 1  |     |     |     |      |      |      |      |       |

#### Note

Note: Average sound pressure level, at 1 m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.



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Smartcool