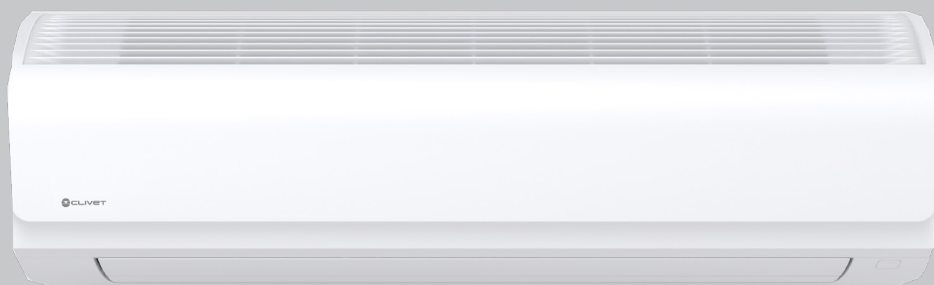


*Direct expansion indoor  
unit for VRF*

# Wall Mounted

**GWMN-3-XY D15 ÷ D56**

TECHNICAL BULLETIN



| SIZE                | D15 | D22 | D28 | D36 | D45 | D56 | D71 | D80 |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| COOLING CAPACITY kW | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
| HEATING CAPACITY kW | 1.7 | 2.4 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 9.0 |

# General technical data

| Model                             |                                     |                             | GWMN-3-XY D15               | GWMN-3-XY D22               | GWMN-3-XY D28   |
|-----------------------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|
| Power supply                      |                                     |                             | 1-phase, 220-240V, 50Hz     |                             |                 |
| Cooling <sup>1</sup>              | Capacity                            | kW                          | 1.5                         | 2.2                         | 2.8             |
|                                   |                                     | kBtu/h                      | 5.1                         | 7.5                         | 9.6             |
|                                   | Power input                         | W                           | 18                          | 21                          | 24              |
| Heating <sup>2</sup>              | Capacity                            | kW                          | 1.7                         | 2.4                         | 3.2             |
|                                   |                                     | kBtu/h                      | 5.8                         | 8.2                         | 10.9            |
|                                   | Power input                         | W                           | 18                          | 21                          | 24              |
| Fan motor                         | Model                               |                             | ZKSN-20-8-5L                | ZKSN-20-8-5L                | ZKSN-20-8-5L    |
|                                   | Type                                |                             | DC                          |                             |                 |
| Indoor coil                       | Number of rows                      |                             | 1                           | 1                           | 2&3             |
|                                   | Fin spacing                         | mm                          | 1.3                         | 1.3                         | 1.33            |
|                                   | Fin type                            | mm                          | Hydrophilic aluminum        |                             |                 |
|                                   | Tube OD and type                    | mm                          | Φ7 Inner-groove             |                             | Φ5 Inner-groove |
|                                   | Dimensions (L×H×W)                  | mm                          | 530×170×95                  | 530×170×95                  | 530×170×95      |
|                                   | Number of circuits                  |                             | 2                           | 2                           | 6               |
| Air flow rate <sup>3</sup>        | m <sup>3</sup> /h                   | 460/440/420/400/380/360/340 | 500/470/440/410/390/370/340 | 540/510/470/430/400/370/340 |                 |
| Sound pressure level <sup>4</sup> | dB(A)                               | 32/31/30/30/29/28/27        | 33/32/31/30/29/28/27        | 35/34/33/32/31/30/28        |                 |
| Sound power level                 | dB(A)                               | 45/44/43/43/42/41/40        | 46/45/44/43/42/41/40        | 50/49/48/47/46/44/42        |                 |
| Unit                              | Net dimensions <sup>5</sup> (W×H×D) | mm                          | 750×295×265                 |                             |                 |
|                                   | Packed dimensions (W×H×D)           | mm                          | 875×385×360                 |                             |                 |
|                                   | Net/Gross weight                    | kg                          | 9/11.5                      | 9/11.5                      | 10/12.5         |
| Refrigerant type                  |                                     | R410A/R32                   |                             |                             |                 |
| Throttle                          | Type                                | Electronic expansion valve  |                             |                             |                 |
| Design pressure (H/L)             | MPa                                 | 4.4/2.6                     |                             |                             |                 |
| Pipe connections                  | Liquid/Gas pipe                     | mm                          | Φ6.35/Φ12.7                 |                             |                 |
|                                   | Drain pipe                          | mm                          | OD Φ16                      |                             |                 |

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

# General technical data

| Model                             |                                     |                      | GWMN-3-XY D36               | GWMN-3-XY D45               | GWMN-3-XY D56               |
|-----------------------------------|-------------------------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|
| Power supply                      |                                     |                      | 1-phase, 220-240V, 50Hz     |                             |                             |
| Cooling <sup>1</sup>              | Capacity                            | kW                   | 3.6                         | 4.5                         | 5.6                         |
|                                   |                                     | kBtu/h               | 12.3                        | 15.4                        | 19.1                        |
|                                   | Power input                         | W                    | 27                          | 30                          | 40                          |
| Heating <sup>2</sup>              | Capacity                            | kW                   | 4.0                         | 5.0                         | 6.3                         |
|                                   |                                     | kBtu/h               | 13.6                        | 17.1                        | 21.5                        |
|                                   | Power input                         | W                    | 27                          | 30                          | 40                          |
| Fan motor                         | Model                               |                      | ZKSN-20-8-5L                | ZKSN-20-8-5L                | ZKSN-20-8-5L                |
|                                   | Type                                |                      | DC                          |                             |                             |
| Indoor coil                       | Number of rows                      |                      | 2&3                         |                             |                             |
|                                   | Fin spacing                         | mm                   | 1.33                        |                             |                             |
|                                   | Fin type                            | mm                   | Hydrophilic aluminum        |                             |                             |
|                                   | Tube OD and type                    | mm                   | Φ5 Inner-groove             |                             |                             |
|                                   | Dimensions (L×H×W)                  | mm                   | 530×170×95                  | 730×170×95                  | 730×170×95                  |
|                                   | Number of circuits                  |                      | 6                           | 6                           | 6                           |
|                                   | Air flow rate <sup>3</sup>          | m <sup>3</sup> /h    | 580/540/500/460/420/380/340 | 720/670/620/560/510/460/410 | 860/780/700/620/550/480/410 |
| Sound pressure level <sup>4</sup> | dB(A)                               | 37/36/34/33/31/30/28 | 37/35/33/32/31/30/29        | 41/39/37/35/33/31/29        |                             |
| Sound power level                 | dB(A)                               | 54/53/51/50/48/46/44 | 54/52/50/49/48/46/44        | 56/54/52/50/48/46/44        |                             |
| Unit                              | Net dimensions <sup>5</sup> (W×H×D) | mm                   | 750×295×265                 | 950×295×265                 |                             |
|                                   | Packed dimensions (W×H×D)           | mm                   | 875×385×360                 | 1075×385×360                |                             |
|                                   | Net/Gross weight                    | kg                   | 10/12.5                     | 11.5/14                     |                             |
| Refrigerant type                  |                                     |                      | R410A/R32                   |                             |                             |
| Throttle                          | Type                                |                      | Electronic expansion valve  |                             |                             |
| Design pressure (H/L)             | MPa                                 |                      | 4.4/2.6                     |                             |                             |
| Pipe connections                  | Liquid/Gas pipe                     | mm                   | Φ6.35/Φ12.7                 |                             |                             |
|                                   | Drain pipe                          | mm                   | OD Φ16                      |                             |                             |

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

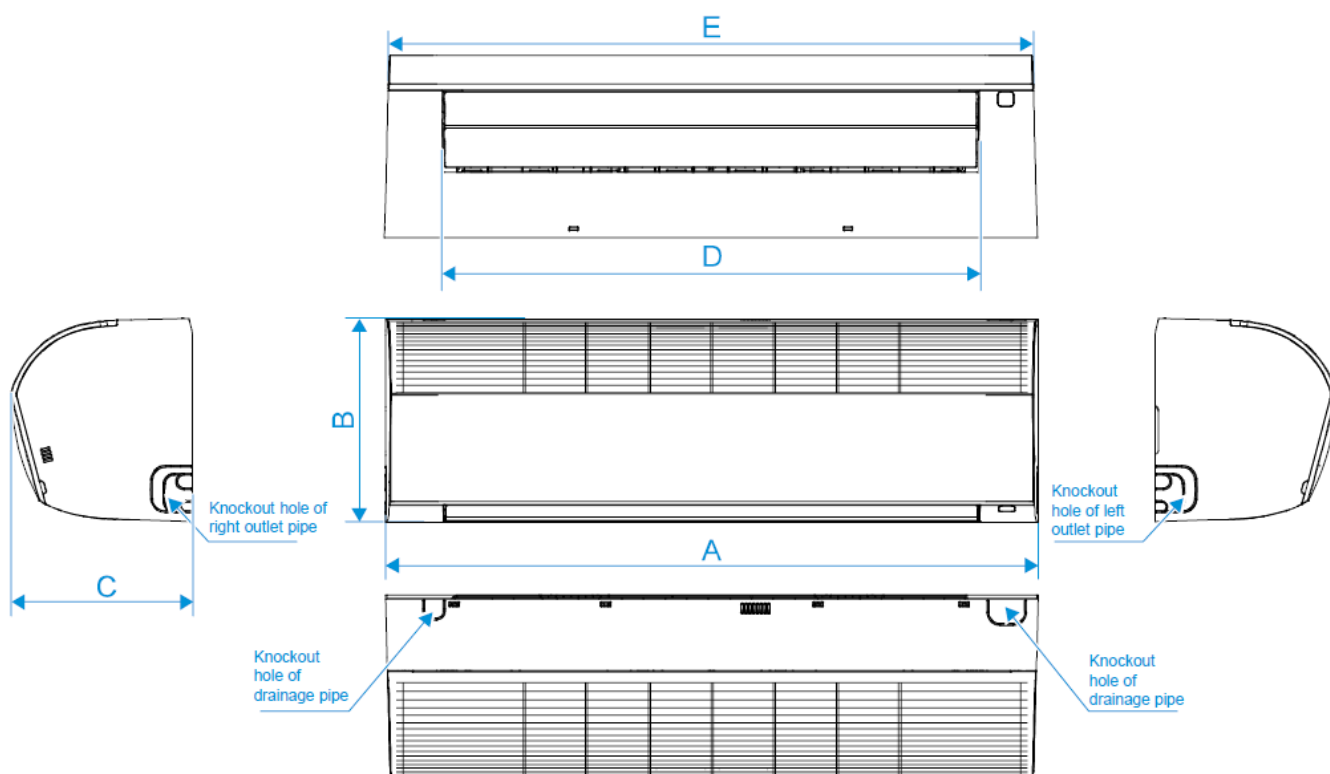
# General technical data

| Model                             |                                     |                            | GWMN-3-XY D71                  | GWMN-3-XY D80        |
|-----------------------------------|-------------------------------------|----------------------------|--------------------------------|----------------------|
| Power supply                      |                                     |                            | 1-phase, 220-240V, 50Hz        |                      |
| Cooling <sup>1</sup>              | Capacity                            | kW                         | 7.1                            | 8.0                  |
|                                   |                                     | kBtu/h                     | 24.2                           | 27.3                 |
|                                   | Power input                         | W                          | 50                             | 65                   |
| Heating <sup>2</sup>              | Capacity                            | kW                         | 8.0                            | 9.0                  |
|                                   |                                     | kBtu/h                     | 27.3                           | 30.7                 |
|                                   | Power input                         | W                          | 50                             | 65                   |
| Fan motor                         | Model                               |                            | ZKSN-50-8-17L                  | ZKSN-50-8-17L        |
|                                   | Type                                |                            | DC                             |                      |
| Indoor coil                       | Number of rows                      |                            | 2&3                            |                      |
|                                   | Fin spacing                         | mm                         | 1.33                           |                      |
|                                   | Fin type                            | mm                         | Hydrophilic aluminum           |                      |
|                                   | Tube OD and type                    | mm                         | Φ5 Inner-groove                |                      |
|                                   | Dimensions (L×H×W)                  | mm                         | 980×170×95                     | 980×170×95           |
|                                   | Number of circuits                  |                            | 8                              | 8                    |
|                                   | Air flow rate <sup>3</sup>          | m <sup>3</sup> /h          | 1220/1120/1030/940/850/750/660 |                      |
| Sound pressure level <sup>4</sup> | dB(A)                               | 44/42/40/38/36/34/32       |                                | 45/43/41/39/37/35/32 |
| Sound power level                 | dB(A)                               | 58/56/54/52/50/48/46       |                                | 60/57/55/53/50/48/46 |
| Unit                              | Net dimensions <sup>5</sup> (W×H×D) | mm                         | 1200×295×265                   |                      |
|                                   | Packed dimensions (W×H×D)           | mm                         | 1315×385×360                   |                      |
|                                   | Net/Gross weight                    | kg                         | 15/18                          |                      |
| Refrigerant type                  |                                     | R410A/R32                  |                                |                      |
| Throttle                          | Type                                | Electronic expansion valve |                                |                      |
| Design pressure (H/L)             | MPa                                 | 4.4/2.6                    |                                |                      |
| Pipe connections                  | Liquid/Gas pipe                     | mm                         | Φ9.52/Φ15.9                    |                      |
|                                   | Drain pipe                          | mm                         | OD Φ16                         |                      |

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

# Dimensions

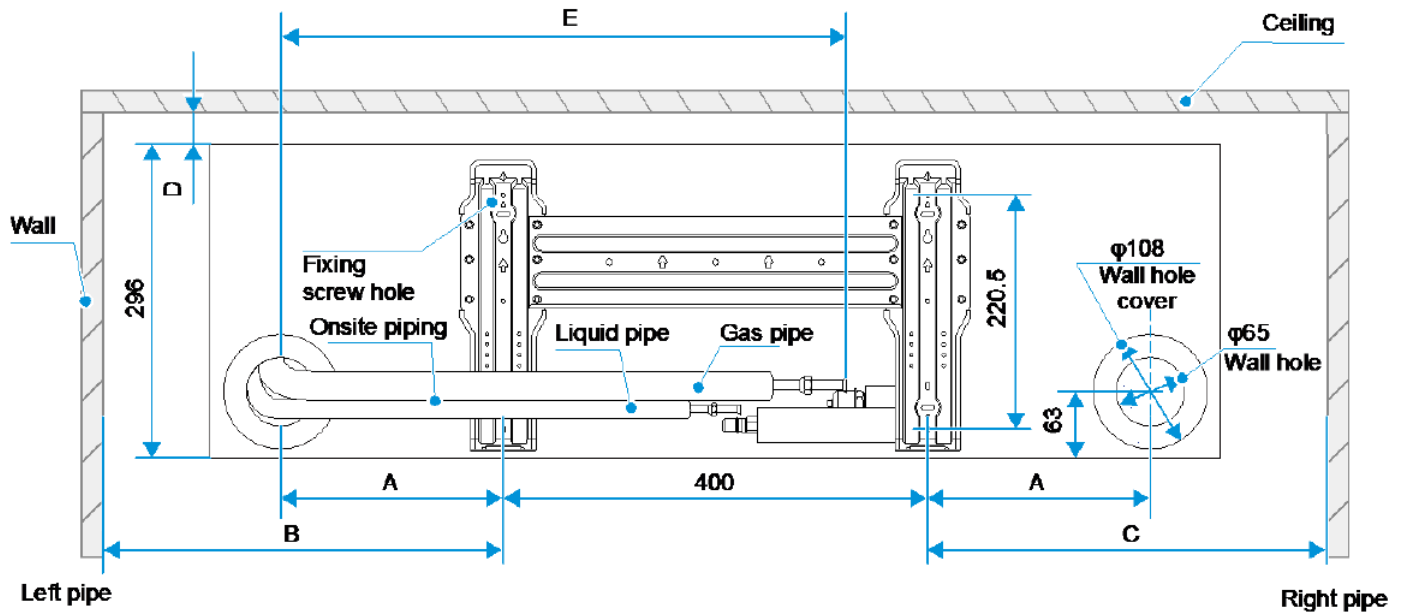


| MODEL            | A    | B   | C   | D    | E    |
|------------------|------|-----|-----|------|------|
| <b>D15 ÷ D36</b> | 750  | 295 | 265 | 581  | 736  |
| <b>D45 ÷ D56</b> | 950  | 295 | 265 | 781  | 936  |
| <b>D71 ÷ D80</b> | 1200 | 295 | 265 | 1025 | 1186 |



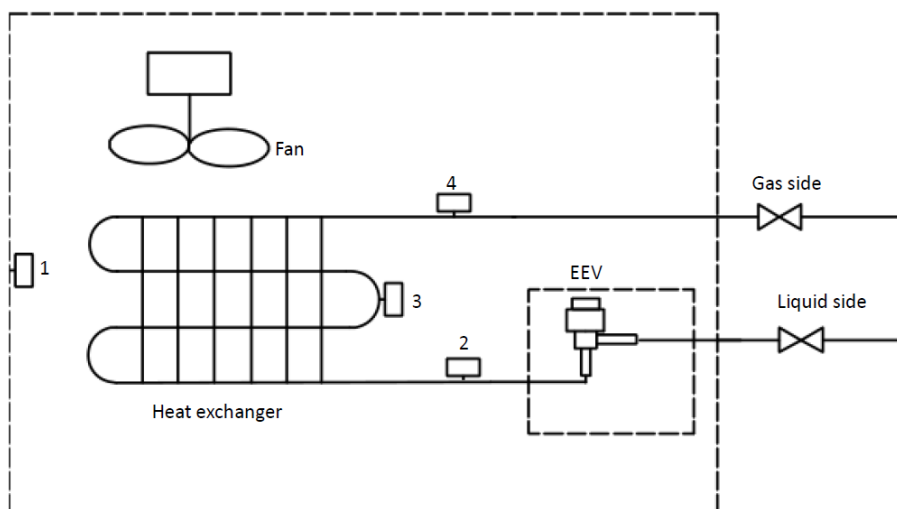
# Unit Placement

Positioning of mounting plate:



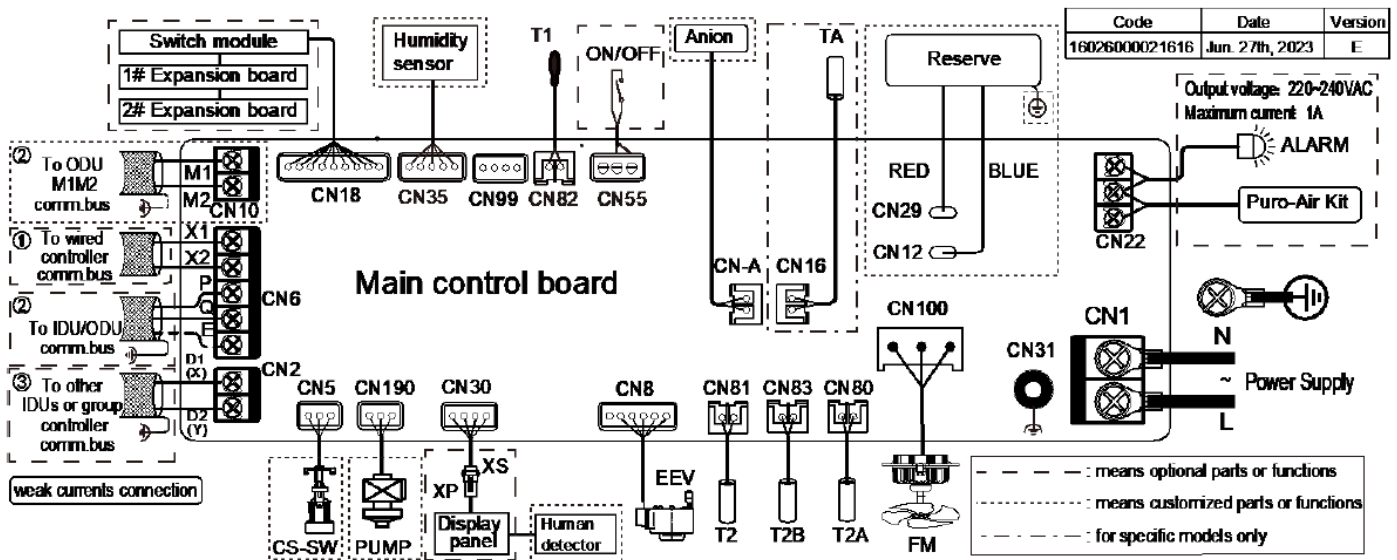
| Distance (mm)<br>Capacity (kW) | A   | B    | C    | D   | E   | Reserved lengths for power and signal cables |                |
|--------------------------------|-----|------|------|-----|-----|--|----------------|
|                                |     |      |      |     |     | Left out pipe                                | Right out pipe |
| KW≤3.6                         | 100 | ≥225 | ≥225 | ≥30 | 230 | ≥1115  | ≥415           |
| 3.6 < KW≤5.6                   | 180 | ≥325 | ≥325 | ≥30 | 412 | ≥1315  | ≥415           |
| 5.6 < KW≤8.0                   | 220 | ≥375 | ≥375 | ≥30 | 400 | ≥1565  | ≥415           |

## Piping Diagram



### LEGEND

|   |     |                          |
|---|-----|--------------------------|
| 1 | T1  | Inlet Air Temp. Sensor   |
| 2 | T2A | Liquid Pipe Temp. Sensor |
| 3 | T2  | Middle Pipe Temp. Sensor |
| 4 | T2B | Gas Pipe Temp. Sensor    |



\* Indicates that this sensor is only available for Fresh Air Processing Unit.

## Notes for installers and service engineers

### Caution

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals. Loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- The dotted lines indicate the field wiring or optional function.
- D1/D2 communication ports are used for group control communication. When connecting the group controller, the D1/D2 port of the indoor units that are to be group controlled must be connected in daisy chain, and the group controller must be connected to the X1/X2 port of one of the indoor units in the group control, and set to group control mode. In addition, D1/D2 communication ports can also be connected to the central controller.



# Capacity Tables

## Cooling Capacity Table

| MODEL                | Indoor air temperature (°C WB/DB) |     |       |     |       |     |       |     |       |     |       |     |       |     |
|----------------------|-----------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|                      | 14/20                             |     | 16/23 |     | 18/26 |     | 19/27 |     | 20/28 |     | 22/30 |     | 24/32 |     |
|                      | TC                                | SC  | TC    | SC  | TC    | SC  | TC    | SC  | TC    | SC  | TC    | SC  | TC    | SC  |
| <b>GWMN-3-XY D15</b> | 1.4                               | 1.4 | 1.5   | 1.4 | 1.5   | 1.4 | 1.5   | 1.3 | 1.6   | 1.3 | 1.6   | 1.2 | 1.6   | 1.1 |
| <b>GWMN-3-XY D22</b> | 2.0                               | 1.9 | 2.1   | 2.0 | 2.2   | 2.0 | 2.2   | 1.9 | 2.3   | 1.9 | 2.3   | 1.7 | 2.4   | 1.7 |
| <b>GWMN-3-XY D28</b> | 2.5                               | 2.4 | 2.7   | 2.5 | 2.8   | 2.5 | 2.8   | 2.4 | 2.9   | 2.4 | 2.9   | 2.2 | 3.0   | 2.1 |
| <b>GWMN-3-XY D36</b> | 3.2                               | 3.1 | 3.4   | 3.1 | 3.6   | 3.2 | 3.6   | 3.0 | 3.7   | 3.0 | 3.8   | 2.8 | 3.9   | 2.7 |
| <b>GWMN-3-XY D45</b> | 4.0                               | 3.7 | 4.3   | 3.8 | 4.5   | 3.8 | 4.5   | 3.7 | 4.6   | 3.6 | 4.7   | 3.4 | 4.8   | 3.3 |
| <b>GWMN-3-XY D56</b> | 5.0                               | 4.6 | 5.3   | 4.7 | 5.6   | 4.8 | 5.6   | 4.6 | 5.7   | 4.5 | 5.8   | 4.2 | 6.0   | 4.1 |
| <b>GWMN-3-XY D71</b> | 6.3                               | 5.9 | 6.7   | 6.0 | 7.0   | 6.0 | 7.1   | 5.9 | 7.2   | 5.7 | 7.4   | 5.4 | 7.6   | 5.2 |
| <b>GWMN-3-XY D80</b> | 7.1                               | 6.6 | 7.6   | 6.8 | 7.9   | 6.8 | 8.0   | 6.6 | 8.1   | 6.4 | 8.3   | 6.1 | 8.5   | 5.8 |

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity(kW)

Notes:

1.Shaded cells indicate rating condition.

## Heating Capacity Table

| MODEL                | Indoor air temperature (°C DB) |     |     |     |     |     |
|----------------------|--------------------------------|-----|-----|-----|-----|-----|
|                      | 16                             | 18  | 20  | 21  | 22  | 24  |
|                      | TC                             | TC  | TC  | TC  | TC  | TC  |
| <b>GWMN-3-XY D15</b> | 1.8                            | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 |
| <b>GWMN-3-XY D22</b> | 2.6                            | 2.6 | 2.4 | 2.3 | 2.3 | 2.1 |
| <b>GWMN-3-XY D28</b> | 3.4                            | 3.4 | 3.2 | 3.1 | 3.0 | 2.8 |
| <b>GWMN-3-XY D36</b> | 4.2                            | 4.2 | 4.0 | 3.8 | 3.8 | 3.5 |
| <b>GWMN-3-XY D45</b> | 5.3                            | 5.3 | 5.0 | 4.8 | 4.7 | 4.4 |
| <b>GWMN-3-XY D56</b> | 6.7                            | 6.6 | 6.3 | 6.1 | 5.9 | 5.5 |
| <b>GWMN-3-XY D71</b> | 8.5                            | 8.4 | 8.0 | 7.8 | 7.5 | 7.0 |
| <b>GWMN-3-XY D80</b> | 9.5                            | 9.5 | 9.0 | 8.7 | 8.5 | 7.8 |

Abbreviations:

TC: Total capacity (kW)

Notes:

1.Shaded cells indicate rating condition.

| MODEL                | Power supply |         |            |            |      | Indoor fan motors |                         |      |
|----------------------|--------------|---------|------------|------------|------|-------------------|-------------------------|------|
|                      | Hz           | Volts   | Min. volts | Max. volts | MCA  | MFA               | Rated motor output (kW) | FLA  |
| <b>GWMN-3-XY D15</b> | 50           | 220-240 | 198        | 264        | 0.28 | 15                | 20                      | 0.22 |
| <b>GWMN-3-XY D22</b> | 50           | 220-240 | 198        | 264        | 0.29 | 15                | 20                      | 0.23 |
| <b>GWMN-3-XY D28</b> | 50           | 220-240 | 198        | 264        | 0.36 | 15                | 20                      | 0.29 |
| <b>GWMN-3-XY D36</b> | 50           | 220-240 | 198        | 264        | 0.39 | 15                | 20                      | 0.31 |
| <b>GWMN-3-XY D45</b> | 50           | 220-240 | 198        | 264        | 0.41 | 15                | 20                      | 0.33 |
| <b>GWMN-3-XY D56</b> | 50           | 220-240 | 198        | 264        | 0.51 | 15                | 20                      | 0.41 |
| <b>GWMN-3-XY D71</b> | 50           | 220-240 | 198        | 264        | 0.69 | 15                | 50                      | 0.55 |
| <b>GWMN-3-XY D80</b> | 50           | 220-240 | 198        | 264        | 0.98 | 15                | 50                      | 0.78 |

Abbreviations:

MCA: Minimum Circuit Amps MFA: Maximum Fuse Amps FLA: Full Load Amps

Notes:

Voltage range: Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

Maximum allowable voltage variation between phases is 2%.

Selection wire size based on the value of MCA.

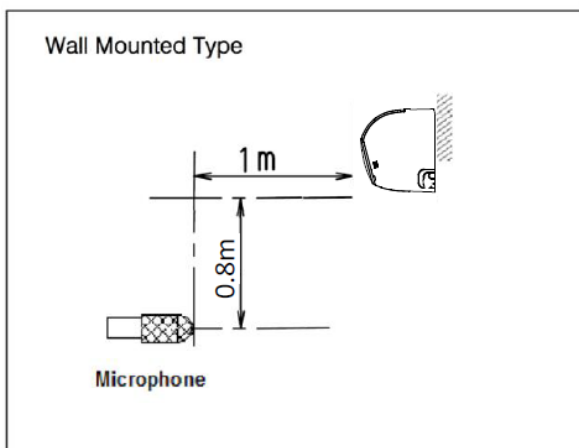
MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

## Sound Level

### Overall

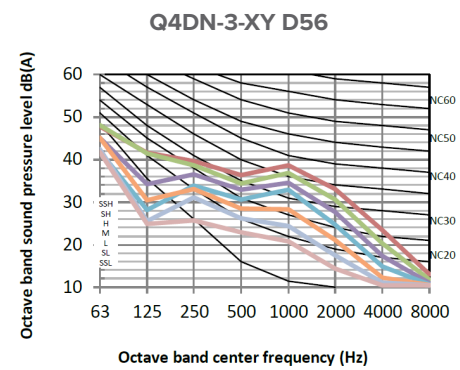
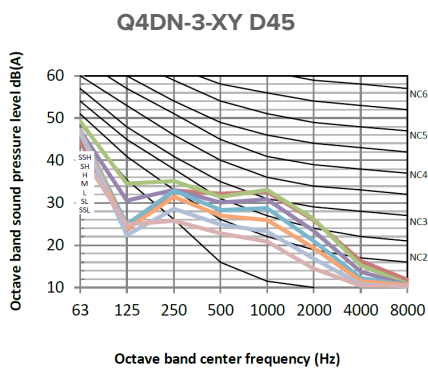
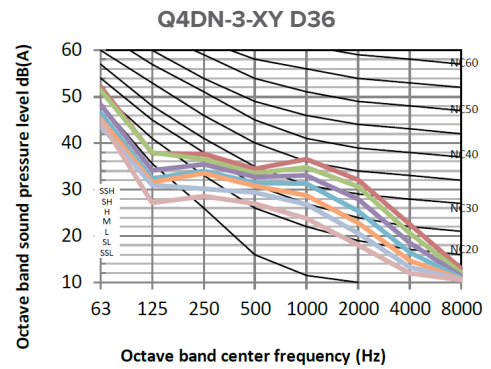
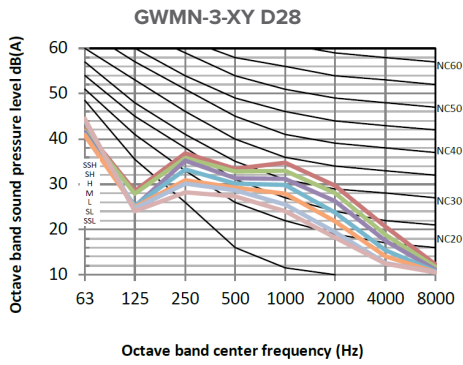
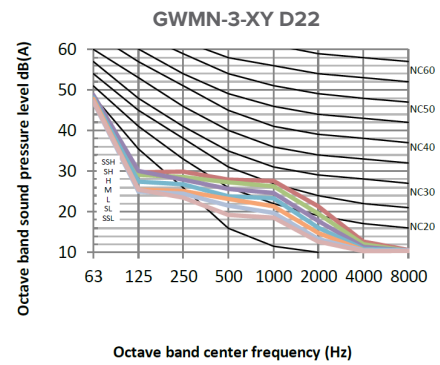
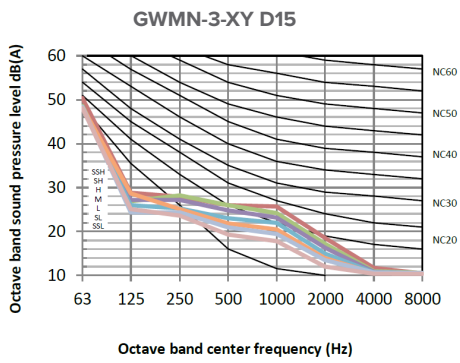
| MODEL                | Sound pressure levels dB |    |    |    |    |    |     |
|----------------------|--------------------------|----|----|----|----|----|-----|
|                      | SSH                      | SH | H  | M  | L  | SL | SSL |
| <b>GWMN-3-XY D15</b> | 32                       | 31 | 30 | 30 | 29 | 28 | 27  |
| <b>GWMN-3-XY D22</b> | 33                       | 32 | 31 | 30 | 29 | 28 | 27  |
| <b>GWMN-3-XY D28</b> | 35                       | 34 | 33 | 32 | 31 | 30 | 28  |
| <b>GWMN-3-XY D36</b> | 37                       | 36 | 34 | 33 | 31 | 30 | 28  |
| <b>GWMN-3-XY D45</b> | 37                       | 35 | 33 | 32 | 31 | 30 | 29  |
| <b>GWMN-3-XY D56</b> | 41                       | 39 | 37 | 35 | 33 | 31 | 29  |
| <b>GWMN-3-XY D71</b> | 44                       | 42 | 40 | 38 | 36 | 34 | 32  |
| <b>GWMN-3-XY D80</b> | 45                       | 43 | 41 | 39 | 37 | 35 | 32  |

Wall mounted sound pressure level measurement



# Sound Level

## Octave Band Levels



# Temperature and Airflow Distributions

## Simulate condition

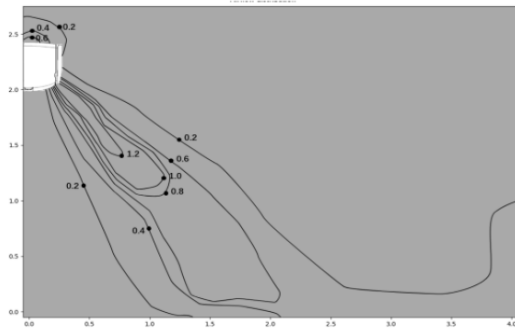
| MODEL NAME    | Room size (m) | Ceiling height (m) | Flow angle (Cooling/Heating) | Placing      |
|---------------|---------------|--------------------|------------------------------|--------------|
| GWMN-3-XY D15 | 4×4           | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D22 | 4.5×4.5       | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D28 | 5×5           | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D36 | 5.5×5.5       | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D45 | 6×6           | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D56 | 8×8           | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D71 | 8×8           | 2.7                | 58°/88°                      | Wall mounted |
| GWMN-3-XY D80 | 8×8           | 2.7                | 58°/88°                      | Wall mounted |

Note:

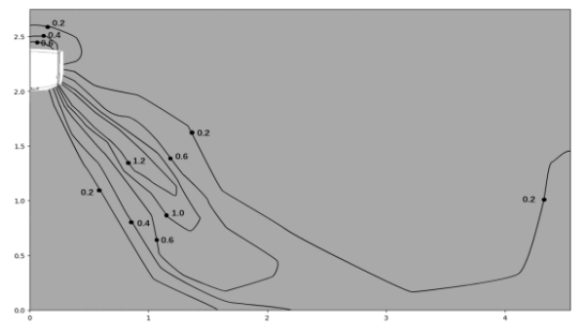
1. These figures and videos are based on software simulation. They show typical temperature and airflow distributions in the conditions above. In the actual installation, they may differ from these figures and videos under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

## Airflow distributions - Cooling (after 300s)

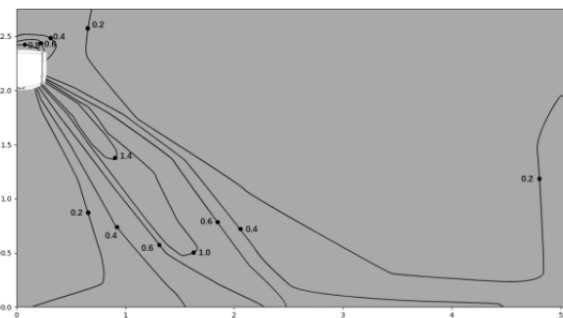
GWMN-3-XY D15



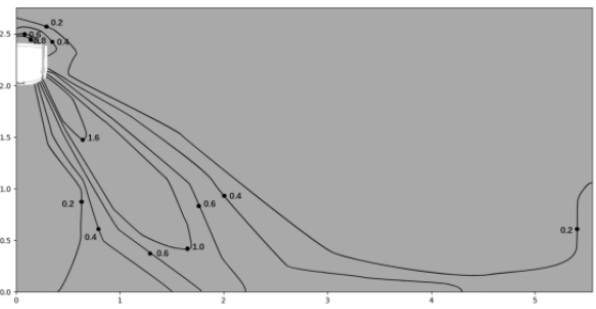
GWMN-3-XY D22



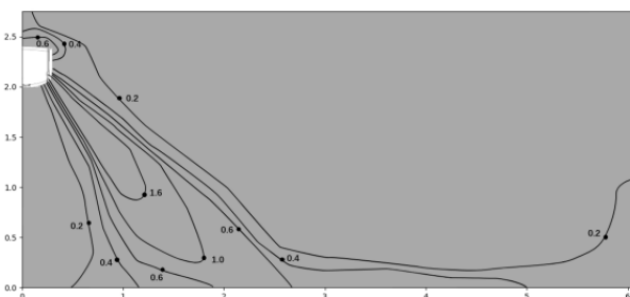
GWMN-3-XY D28



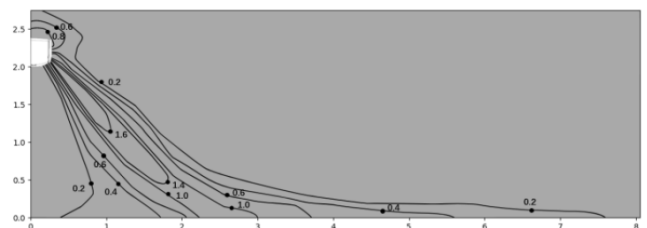
GWMN-3-XY D36



GWMN-3-XY D45

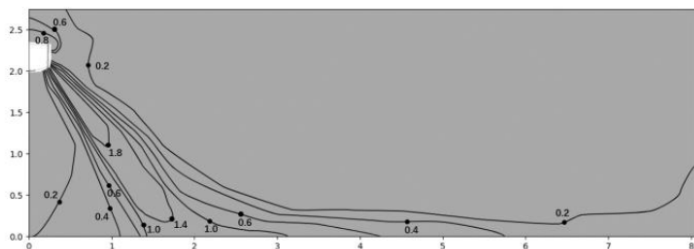


GWMN-3-XY D56

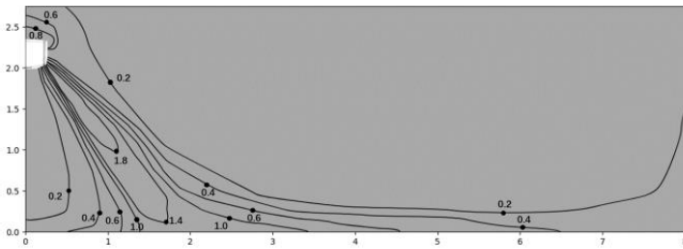


# Temperature and Airflow Distributions

GWMN-3-XY D71

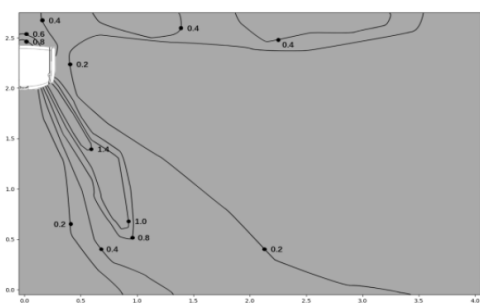


GWMN-3-XY D80

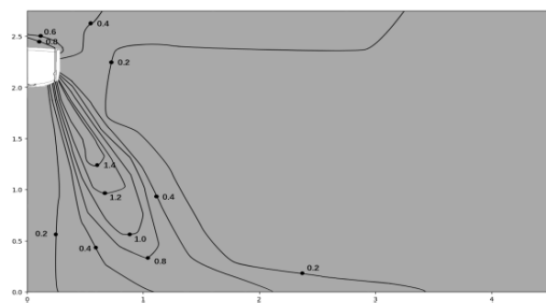


## Airflow distributions - Heating (after 300s)

GWMN-3-XY D15



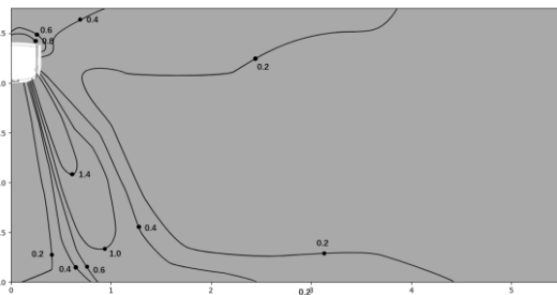
GWMN-3-XY D22



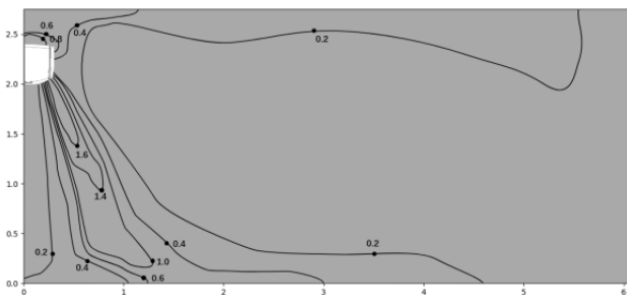
GWMN-3-XY D28



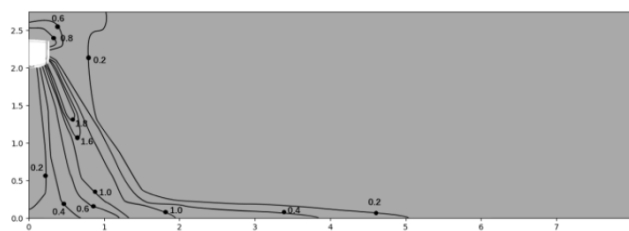
GWMN-3-XY D36



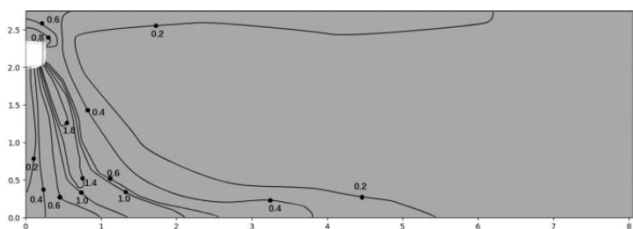
GWMN-3-XY D45



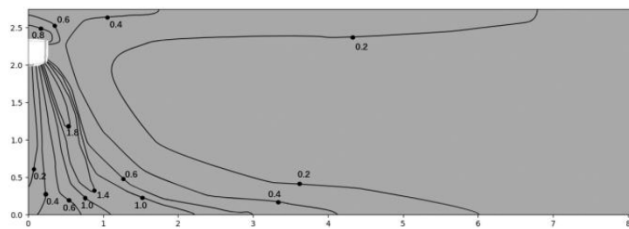
GWMN-3-XY D56



GWMN-3-XY D71



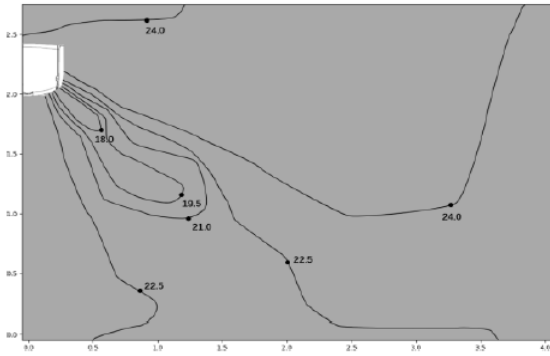
GWMN-3-XY D80



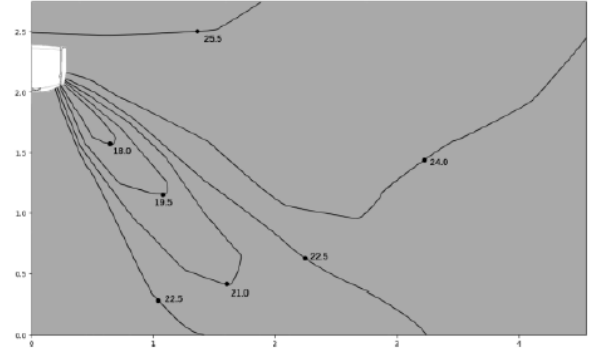
# Temperature and Airflow Distributions

## Temperature distributions - Cooling (after 300s)

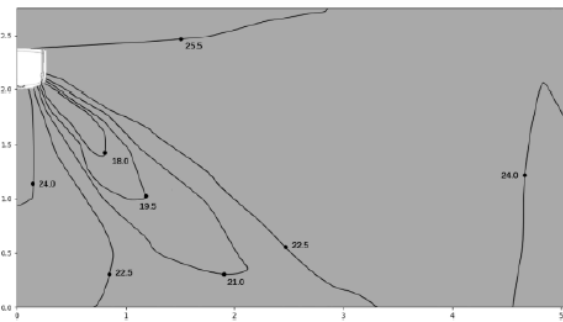
GWMN-3-XY D15



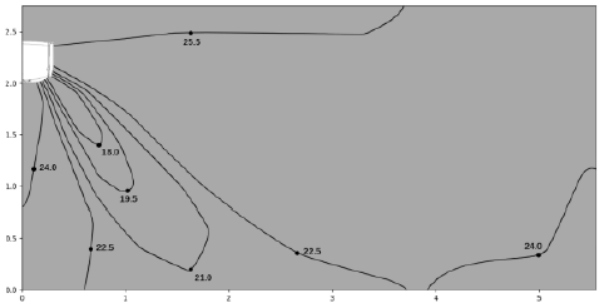
GWMN-3-XY D22



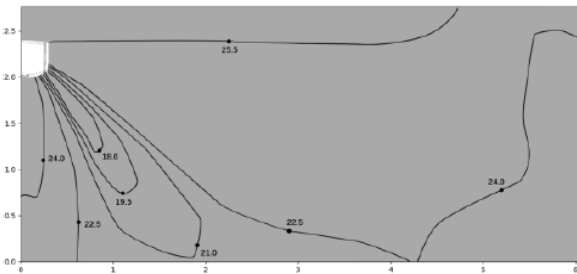
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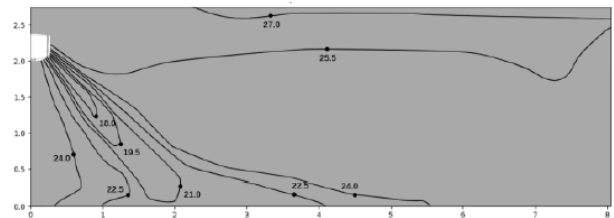
GWMN-3-XY D36



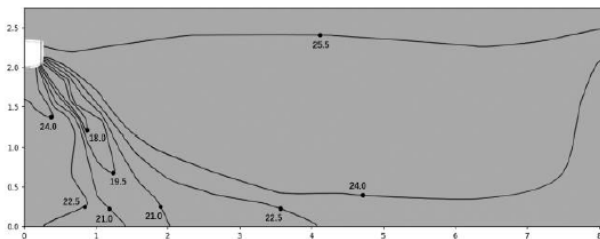
GWMN-3-XY D45



GWMN-3-XY D56



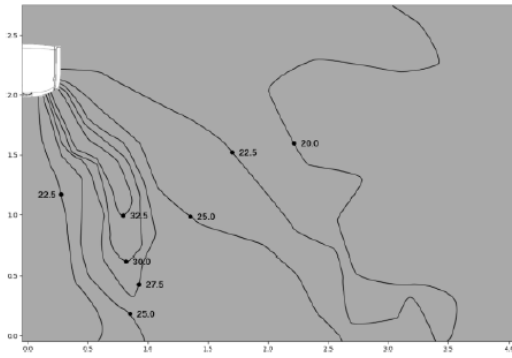
GWMN-3-XY D71



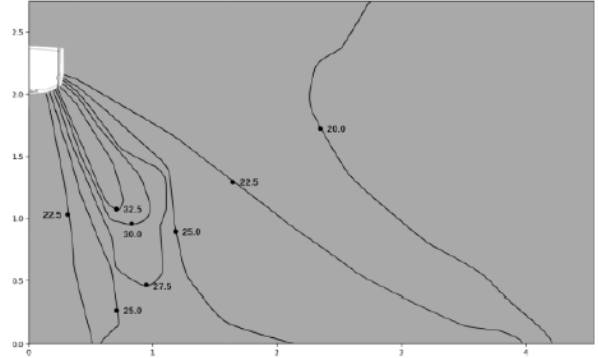
# Temperature and Airflow Distributions

## Temperature distributions - Heating (after 300s)

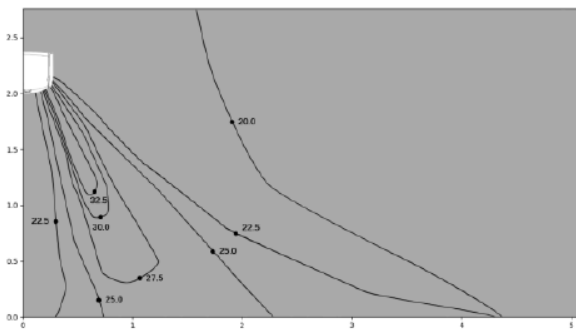
GWMN-3-XY D15



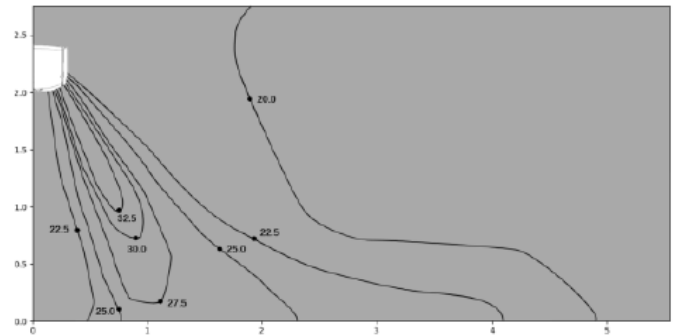
GWMN-3-XY D22



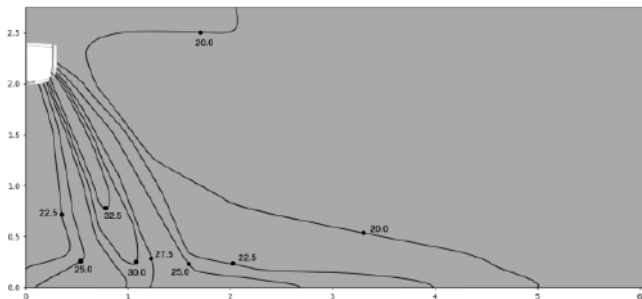
GWMN-3-XY D28



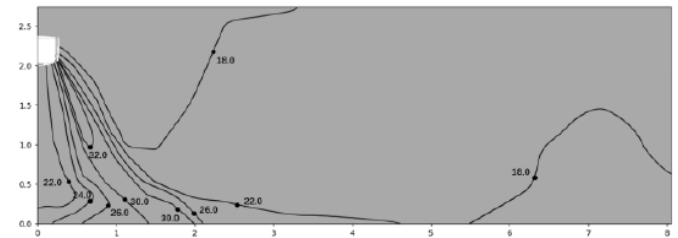
GWMN-3-XY D36



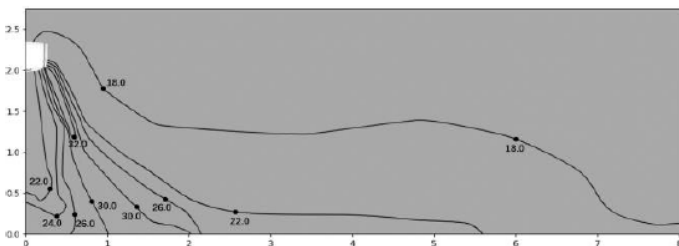
GWMN-3-XY D45



GWMN-3-XY D56



GWMN-3-XY D71



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