

Engineered for flexibility and performance.™

MFU-C MFU-2006

CHILLED WATER VERTICAL FAN COILS

Models:

MFU-C MFU-H

MFC-C MFC-H



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Note: Installation and maintenance are to be performed only by qualified personal who are familiar with local codes and regulations, and experienced with this type of equipment.

Caution: Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

Warning: Moving machinery and electrical power hazards. May cause severe personal injury or death. Disconnect and lock off power before servicing equipment.

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Vertical Flow Fan Coil

The New Shape Of Wellness

The new series F of fan coil with vertical air flow is characterised by flexibility in performance and quiet operation to offer a total wellness. It represents one of the most cost-effective solutions to provide a comfortable environment for both commercial and residential applications.

The series features 8 sizes, with cabinet for floor or wall installation and chassis for concealed installations.

The units are available in the 2-pipe version with 3 or 4-row coil – nominal cooling capacity from 1.3 to 8.0kW; nominal heating capacity from 2.2 to 12.0kW – or in the 4-pipe version – nominal cooling capacity from 1.2 to 8.0kW; nominal heating capacity from 2.3 to 13.0kW. 2-pipe version models can also be equipped with electrical heaters, from 0.8 to 3.0kW.



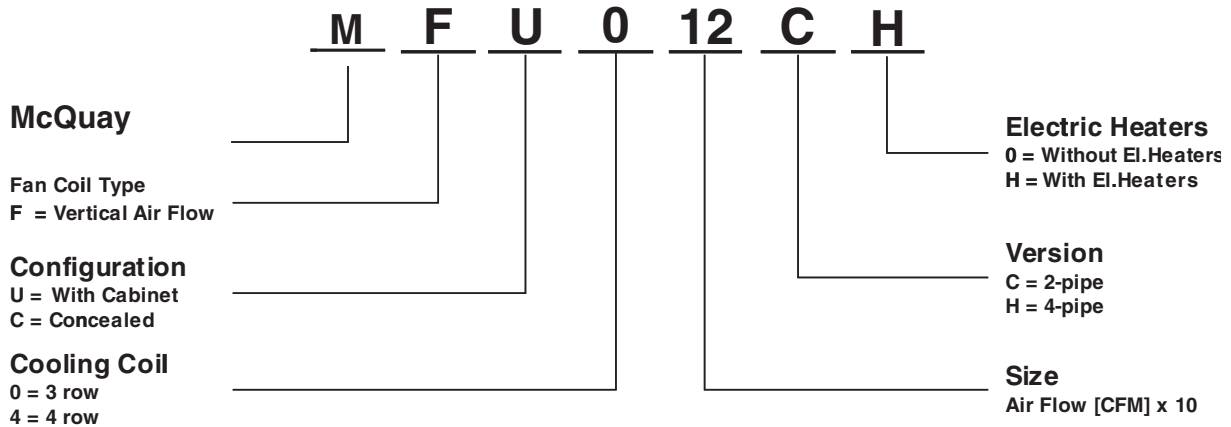
The AC2800/AC2800B controllers have been set according to the unit configuration:

- cooling or heating for 2-pipe application (without auxiliary electrical heater)
- cooling or heating for 2-pipe application (with auxiliary electrical heater)
- cooling or heating for 4-pipe application
- 2-way or 3-way valve with ON/OFF control

Activating all parameters and routines of regulation which optimise the operation of the unit.

Through AC2800 units can also be directly integrated with Smart Manager, McQuay solution for the supervision of hydronic systems. With reference to fan coils, Smart Manager run up to 50 mini-chillers and 120 fan coils.

Nomenclature



General Characteristics

Design

The design, elegant and considered in all details, harmonises well with all types of interiors.

Covers, grids and cabinet materials have been selected with a special care to grant both the quality of the finishing and the durability of the product.

Cover and grids are realised in ABS, RAL103; the cabinet is made of pre-painted sheet metal finished with high quality paint, RAL1013.

Filter

The filter, located at the bottom of the unit, is easily accessible and self-locking, therefore no tools are required for removing and re-assembling it.

The filter material grade is G1 and thanks to its pleated surface grants a filtration surface up to 60% greater than traditional filters resulting in lower pressure drop and reduced noise emission.

Connections

Units are available with left or right hand water connections, which can be easily switched in the field if required. Connections are equipped with air vents and drainage valves.

Controllers

AC2800 Electronic Controller (Optional)

Among the features of AC2800 controllers are:

- Selectable temperature range: 10-30°C or 16-30°C (through selecting J4, default: close/16-30°C).
- 2-pipe/4-pipe model (through selecting J1 and J2).
- Auxiliary electrical heater enable/disable (only for 2-pipe model, through selecting J3, default: open/disable, if enable, it output from terminal 5).
- Cool/heat mode.
- Fan speed can be set at high/medium/low.
- Sensor failure alarm.
- LEDs show running state:
 1. The three blue LEDs show fan speed high/medium/low.
 2. The dichromatic LED shows heat and cool mode: the red LED shows heat mode, the green LED shows cool mode.
 3. The red LED shows ON/OFF of the system.
 4. The room sensor failure alarm: High speed LED blinks and shuts off all outputs.
The water sensor failure alarm: Medium speed LED blinks and shuts off all outputs.
 5. Mode conflict: the mode LED blinks and shuts off all outputs.
- Smart manager integration

General Characteristics

AC2800B Electronic Controller

Temperature range: 16-30°C.

2-pipe/4-pipe model (through selecting J1 and J2).

Auxiliary electrical heater enable/disable (only for 2-pipe model, through selecting J3, default: open/disable, if enable, it output from terminal 5).

Cool/heat mode.

Fan speed can be set at high/medium/low.

Cold draft protection (under heat mode, the fan can run only when the water temperature is above 30°C).

Sensor failure alarm.

LEDs show running state:

1. The three blue LED show fan speed high/medium/low.
2. The dichromatic LED shows heat and cool mode: The red LED shows heat mode, the green LED shows cool mode.
3. The red LED shows ON/OFF of the system.
4. The room sensor failure alarm: High speed LED blinks and shuts off all outputs.
The water sensor failure alarm: Medium speed LED blinks and shuts off all outputs.
5. Mode conflict: The mode LED blinks and shuts off all outputs.

Notes:

1. Mode conflict: For 2-pipe model, when the system works on heat mode and the water temperature is below 25°C, or when the system works on cool mode and the water temperature is above 25°C, the system considers it fault as the mode conflict. At the same time, the system will shut off all outputs and the mode LED will blink.
2. For 4-pipe model, the water sensor is fixed on the pipe of hot water.

General Characteristics

The **AC2800** controller can be connected straight to Fan Coil Network, without any further components; in fact the electronic board has integrated the NIM Module [Network Interface Module].

The Network allows to control from a unique place all the operating parameters of the connected units.

The general control is executed through the Master unit and can be carried out through the electronic controller on board, the wall mounted installed thermostat or the infra-red handset.

Across AC2800, the units can be connected straight to Smart Manager, the McQuay hydronic systems supervision solution. With reference to hydronic units, Smart Manger manages up to 50 mini-chillers and 120 fan coils.



General Characteristics

AC8000 Electronic Thermostat

The thermostat AC8000 is predisposed for wall mounted and is composed of:

- LCD DISPLAY: back-light and with graphic extremely easy, allows also an easy reading of the operating parameters and auto-diagnosis.
- KEYBOARD: allows to set parameters as: room temperature, fan speed, manual or automatic fan speed setting, operating mode summer/winter, ON/OFF, operating time setting.
- INFRARED HANDSET AC5300: standard, assures a utilization more easy than other thermostat 2.5 meters.

AC512 Mechanical Thermostat [for 2 pipes versions] and **Mechanical Thermostat AC513** [for 4 pipe versions]

Easy utilization, allows to set essential operating parameter: room temperature, fan speed, ON/OFF

Accessories

Valves kit [standard condensate drain panel], 2 or 3 ways

Electrical heater (optional)

Controllers (optional)

Feet (cover and/or support)

Base module

Frontal air intake module

External air intake module

Technical Data

| 2 PIPES | | 3 ROWS | | | | | | | |
|--|-------------------|--------------|-------------|--------------|-------------|--------------|--------------|---------------|----------------|
| Models | | 012C | 020C | 025C | 035C | 050C | 060C | 080C | 090C |
| Nominal Air Flow (High/Medium/Low) | m ³ /h | 290/245/197 | 380/296/210 | 497/349/260 | 705/565/400 | 853/695/465 | 1141/969/705 | 1360/1063/824 | 1500/1368/1190 |
| Available Static Pressure | Pa | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Cooling Capacity ¹ | kW | 1.3 | 1.8 | 2.7 | 3.6 | 4.8 | 5.9 | 6.9 | 8.0 |
| Total Sensible Capacity ¹ | kW | 1.0 | 1.5 | 1.9 | 2.6 | 3.6 | 4.6 | 5.3 | 5.8 |
| Heating Capacity ² | kW | 2.2 | 2.7 | 3.6 | 4.8 | 6.2 | 8.1 | 10.5 | 12.0 |
| Water Flow Rate | l/s | 0.063 | 0.085 | 0.129 | 0.170 | 0.227 | 0.282 | 0.358 | 0.347 |
| Water Pressure Drop - Cooling | kPa | 4 | 5 | 10 | 16 | 28 | 33 | 18 | 20 |
| Lp (Sound Pressure Level) ³ | dB(A) | 38/35/33 | 42/37/32 | 42/35/32 | 48/44/39 | 47/39/31 | 53/48/41 | 51/47/40 | 53/51/47 |
| Power Supply | V/ph/Hz | 220~240/1/50 | | | | | | | |
| Fan N°. | n° | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| Max Power Supply ⁴ | kW | 0.024 | 0.044 | 0.044 | 0.059 | 0.068 | 0.102 | 0.147 | 0.167 |
| Cond. Drain Connections | mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water Connections | inches | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Total Volume | litres | 0.792 | | 1.158 | | 1.525 | | 1.89 | |
| Weight [with Package] | kg | 20 [22] | | 24 [27] | | 26 [30] | | 35 [39] | |
| Weight with Cabinet [with Package] | kg | 22 [25] | | 29 [32] | | 32 [37] | | 45 [50] | |
| Dimens. unit (L x A x P) | mm | 704x224x540 | | 904x224x540 | | 1104x224x540 | | 1304x224x540 | |
| Dimens. with Cabinet (L x A x P) | mm | 910x539x230 | | 1110x539x230 | | 1310x539x230 | | 1510x539x230 | |

| 2 PIPES | | 4 ROWS | | | | | | | |
|--|-------------------|--------------|-------------|--------------|-------------|--------------|--------------|---------------|----------------|
| Models | | 412C | 420C | 425C | 435C | 450C | 460C | 480C | 490C |
| Nominal Air Flow (High/Medium/Low) | m ³ /h | 254/215/176 | 369/321/240 | 445/330/250 | 677/545/380 | 811/663/456 | 1068/915/672 | 1300/1165/908 | 1450/1288/1120 |
| Available Static Pressure | Pa | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Cooling Capacity ¹ | kW | 1.5 | 2.7 | 3.1 | 4.6 | 5.3 | 6.4 | 7.1 | 8.3 |
| Total Sensible Capacity ¹ | kW | 1.1 | 1.7 | 2.1 | 2.8 | 3.7 | 5.0 | 5.5 | 5.8 |
| Heating Capacity ² | kW | 2.3 | 2.8 | 4.2 | 5.3 | 6.8 | 8.4 | 11.0 | 12.5 |
| Water Flow Rate | l/s | 0.073 | 0.098 | 0.149 | 0.193 | 0.251 | 0.304 | 0.397 | 0.409 |
| Water Pressure Drop - Cooling | kPa | 4 | 5 | 10 | 14 | 21 | 20 | 18 | 17 |
| Lp (Sound Pressure Level) ³ | dB(A) | 38/36/33 | 42/37/32 | 41/34/32 | 47/43/38 | 47/39/31 | 53/48/41 | 51/47/40 | 53/50/47 |
| Power Supply | V/ph/Hz | 220~240/1/50 | | | | | | | |
| Fan N°. | n° | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| Max Power Supply ⁴ | kW | 0.021 | 0.050 | 0.051 | 0.056 | 0.077 | 0.107 | 0.143 | 0.167 |
| Cond. Drain Connections | mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water Connections | inches | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Total Volume | litres | 1.056 | | 1.545 | | 2.033 | | 2.52 | |
| Weight [with Package] | kg | 24 [26] | | 28 [30] | | 30 [33] | | 35 [39] | |
| Weight with Cabinet [with Package] | kg | 26 [27] | | 31 [35] | | 35 [40] | | 45 [50] | |
| Dimens. unit (L x A x P) | mm | 704x224x540 | | 904x224x540 | | 1104x224x540 | | 1304x224x540 | |
| Dimens. with Cabinet (L x A x P) | mm | 910x539x230 | | 1110x539x230 | | 1310x539x230 | | 1510x539x230 | |

Notes:

1. At the following nominal conditions: nominal air flow; 7/12°C inlet/outlet water temperature; 27°C db/19°C wb inlet air temperature; High speed
2. At the following nominal conditions: nominal air flow 50°C inlet water temperature; 20°C inlet air temperature; Same water flow as for cooling; High speed
3. At High/Medium/Low speed; Nominal air flow; Measured in a room of 100m volume and 0.5 sec. reverberation time (e.g. office/conference room with carpet on the floor)
4. Nominal air flow; High fan speed

Technical Data

| 4 PIPES | | | | 3+1 ROWS | | | | | |
|--|-------------------|-----------------|-------------|-----------------|-------------|-----------------|--------------|---------------|----------------|
| Models | | 012H | 020H | 025H | 035H | 050H | 060H | 080H | 090H |
| Nominal Air Flow (High/Medium/Low) | m ³ /h | 254/215/176 | 369/321/240 | 445/330/250 | 677/545/380 | 811/663/456 | 1068/915/672 | 1300/1063/824 | 1450/1248/1078 |
| Available Static Pressure | Pa | -- | -- | -- | -- | -- | -- | -- | -- |
| Total Cooling Capacity ⁵ | kW | 1.2 | 1.8 | 2.5 | 3.5 | 4.6 | 5.7 | 6.9 | 8.0 |
| Total Sensible Capacity ⁵ | kW | 0.9 | 1.4 | 1.7 | 2.5 | 3.4 | 4.4 | 4.9 | 5.2 |
| Water Flow Rate | l/s | 0.057 | 0.084 | 0.118 | 0.165 | 0.219 | 0.271 | 0.32 | 0.345 |
| Water Pressure Drop - Cooling | kPa | 4 | 5 | 8 | 15 | 26 | 16 | 15 | 17 |
| Heating Capacity ⁶ | kW | 2.3 | 2.9 | 4.3 | 5.6 | 7.0 | 8.6 | 12.0 | 13.0 |
| Water Flow Rate | l/s | 0.057 | 0.071 | 0.104 | 0.137 | 0.172 | 0.209 | 0.216 | 0.339 |
| Water Pressure Drop - Heating | kPa | 11 | 18 | 30 | 18 | 35 | 40 | 24 | 14 |
| Lp (Sound Pressure Level) ⁷ | dB(A) | | | | | | | | |
| Power Supply | V/ph/Hz | 220~240/1/50 | | | | | | | |
| Fan N°. | n° | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| Max Power Supply ⁴ | kW | 0.021 | 0.050 | 0.051 | 0.056 | 0.077 | 0.107 | 0.140 | 0.161 |
| Cond. Drain Connections | mm | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Water Connections | inches | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| Total Volume | litres | [0.792 + 0.264] | | [1.158 + 0.386] | | [1.525 + 0.508] | | [1.89 + 0.63] | |
| Weight [with Package] | kg | 24 [26] | | 28 [30] | | 30 [33] | | 35 [39] | |
| Weight with Cabinet [with Package] | kg | 26 [27] | | 31 [35] | | 35 [40] | | 45 [50] | |
| Dimens. unit (L x A x P) | mm | 704x224x540 | | 904x224x540 | | 1104x224x540 | | 1304x224x540 | |
| Dimens. with Cabinet (L x A x P) | mm | 910x539x230 | | 1110x539x230 | | 1310x539x230 | | 1510x539x230 | |

Notes:

1. Nominal air flow; High fan speed
2. At the following nominal conditions: nominal air flow; 7/12°C inlet/outlet water temperature; 27°C db/19°C wb inlet air temperature; High speed
3. At the following nominal conditions: nominal air flow; 70/60 °C inlet/outlet water temperature; 20°C inlet air temperature; High speed
4. At High/Medium/Low speed; nominal air flow; measured in a room of 100 m volume and 0.5 sec. reverberation time (e.g. office/conference room with carpet on the floor)

Sound Level

| 2 PIPES | | | | | | | | | | 3 ROWS | | |
|---------|--------|---------------------------------|--------|--------|--------|-------|-------|-------|-------|---------------|---------------|------|
| Model | Speed | 1/1 Octave Sound Pressure Level | | | | | | | | Lw {dB(A)} | Lp {dB(A)} | NR |
| | | 63Hz | 125 Hz | 250 Hz | 500 Hz | 1K Hz | 2K Hz | 4K Hz | 8K Hz | | | |
| 012C | High | 50.7 | 50.7 | 49.2 | 44.3 | 39.6 | 34.7 | 27.6 | 23.8 | 46.0 | 38.0 | 33.0 |
| | Medium | 48.9 | 48.9 | 46.7 | 41.7 | 36.6 | 30.2 | 23.6 | 22.5 | 43.5 | 35.5 | 30.0 |
| | Low | 47.1 | 47.1 | 44.4 | 39.1 | 32.8 | 25.8 | 20.5 | 22.4 | 40.5 | 32.5 | 28.0 |
| 020C | High | 51.3 | 51.3 | 51.7 | 48.6 | 44.4 | 38.6 | 30.8 | 25.8 | 50.0 | 42.0 | 37.0 |
| | Medium | 48.0 | 48.0 | 47.1 | 43.8 | 38.0 | 30.2 | 22.8 | 23.8 | 44.5 | 36.5 | 32.0 |
| | Lo w | 45.3 | 45.3 | 43.3 | 39.0 | 32.2 | 24.0 | 19.3 | 22.8 | 40.0 | 32.0 | 28.0 |
| 025C | High | 51.4 | 51.4 | 52.0 | 48.1 | 44.4 | 38.6 | 31.5 | 26.0 | 50.0 | 42.0 | 37.0 |
| | Medium | 46.9 | 46.9 | 46.1 | 42.4 | 36.9 | 29.2 | 21.8 | 22.7 | 43.0 | 35.0 | 31.0 |
| | Low | 45.4 | 45.4 | 43.6 | 39.1 | 32.6 | 24.5 | 19.2 | 22.6 | 40.0 | 32.0 | 28.0 |
| 035C | High | 57.1 | 57.1 | 57.3 | 53.3 | 50.2 | 45.8 | 39.4 | 33.0 | 55.5 | 47.5 | 43.0 |
| | Medium | 53.2 | 53.2 | 53.7 | 50.0 | 46.2 | 41.2 | 33.8 | 27.8 | 51.5 | 43.5 | 39.0 |
| | Low | 48.9 | 48.9 | 49.2 | 45.6 | 40.7 | 34.4 | 26.0 | 23.6 | 47.0 | 38.5 | 34.0 |
| 050C | High | 54.7 | 54.7 | 55.6 | 53.2 | 50.8 | 45.0 | 34.0 | 26.4 | 23.8 | 47.0 | 39.0 |
| | Medium | 48.7 | 48.7 | 48.1 | 45.9 | 41.4 | 34.0 | 26.4 | 23.8 | 47.0 | 39.0 | 35.0 |
| | Low | 47.8 | 47.8 | 41.6 | 37.5 | 30.1 | 21.7 | 19.5 | 23.1 | 39.0 | 31.0 | 26.0 |
| 060C | High | 60.4 | 60.4 | 60.5 | 58.2 | 57.1 | 52.2 | 47.2 | 40.5 | 61.0 | 53.0 | 51.0 |
| | Medium | 56.1 | 56.1 | 55.4 | 53.3 | 51.8 | 46.4 | 40.7 | 33.7 | 56.0 | 48.0 | 44.0 |
| | Low | 53.2 | 53.2 | 49.5 | 47.6 | 44.6 | 38.1 | 31.8 | 26.8 | 49.0 | 41.5 | 38.0 |
| 080C | High | 17.6 | 27.8 | 41.9 | 44.7 | 46.3 | 45.6 | 39.5 | 33.6 | 43.3 | 51.3 | 47.0 |
| | Medium | 15.9 | 24.6 | 38.3 | 41.4 | 42.6 | 41.2 | 34.4 | 27.7 | 39.4 | 47.4 | 42.0 |
| | Low | 13.6 | 19.5 | 32.8 | 35.4 | 35.8 | 33.2 | 25.2 | 18.2 | 32.7 | 40.7 | 37.0 |
| 090C | High | 17.6 | 29.5 | 43.9 | 46.3 | 48.2 | 47.6 | 41.6 | 36.6 | 45.2 | 53.2 | 48.0 |
| | Medium | 16.2 | 27.2 | 41.1 | 44.1 | 45.7 | 44.9 | 38.4 | 33.1 | 42.6 | 50.6 | 46.0 |
| | Low | 16.0 | 24.3 | 38.1 | 41.2 | 42.2 | 40.7 | 33.9 | 28.0 | 39.1 | 47.1 | 42.0 |

| 2 PIPES | | | | | | | | | | 4 ROWS | | |
|---------|--------|---------------------------------|--------|--------|--------|-------|-------|-------|-------|-----------|-----------|------|
| Model | Speed | 1/1 Octave Sound Pressure Level | | | | | | | | Lw{dB(A)} | Lp{dB(A)} | NR |
| | | 63Hz | 125 Hz | 250 Hz | 500 Hz | 1K Hz | 2K Hz | 4K Hz | 8K Hz | | | |
| 412C | High | 50.3 | 50.3 | 48.8 | 43.9 | 39.2 | 34.3 | 27.2 | 23.4 | 46.0 | 38.0 | 33.0 |
| | Medium | 48.9 | 48.9 | 46.7 | 41.7 | 36.6 | 30.2 | 23.6 | 22.5 | 43.5 | 35.5 | 30.0 |
| | Low | 46.9 | 46.9 | 44.2 | 38.9 | 32.6 | 25.6 | 20.3 | 22.2 | 40.5 | 32.5 | 27.0 |
| 420C | High | 51.5 | 51.5 | 51.9 | 48.8 | 44.6 | 38.8 | 31.0 | 26.0 | 50.0 | 42.0 | 38.0 |
| | Medium | 48.7 | 48.7 | 47.8 | 44.5 | 38.7 | 30.9 | 23.5 | 24.5 | 45.0 | 37.0 | 33.0 |
| | Low | 45.7 | 45.7 | 43.7 | 39.4 | 32.6 | 24.4 | 19.7 | 23.2 | 40.5 | 37.0 | 33.0 |
| 425C | High | 50.7 | 50.7 | 51.1 | 48.0 | 43.8 | 38.0 | 30.2 | 25.2 | 49.0 | 41.0 | 37.0 |
| | Medium | 46.2 | 46.2 | 45.3 | 42.0 | 36.2 | 28.4 | 21.0 | 22.0 | 43.0 | 34.5 | 31.0 |
| | Low | 45.0 | 45.0 | 43.0 | 38.7 | 31.9 | 23.7 | 19.0 | 22.5 | 39.5 | 31.5 | 27.0 |
| 435C | High | 56.5 | 56.5 | 57.3 | 52.8 | 49.5 | 44.8 | 38.4 | 32.1 | 55.0 | 47.0 | 42.0 |
| | Medium | 52.9 | 52.9 | 53.7 | 49.5 | 45.5 | 40.2 | 33.0 | 27.3 | 51.5 | 43.0 | 38.0 |
| | Low | 48.7 | 48.7 | 49.0 | 45.2 | 40.2 | 33.6 | 25.7 | 24.1 | 46.0 | 38.0 | 34.0 |
| 450C | High | 54.7 | 54.7 | 55.6 | 53.2 | 50.8 | 45.0 | 38.7 | 31.2 | 55.5 | 47.0 | 43.0 |
| | Medium | 48.7 | 48.7 | 48.1 | 45.9 | 41.4 | 34.0 | 26.4 | 23.8 | 47.0 | 39.0 | 35.0 |
| | Low | 48.1 | 48.1 | 41.9 | 37.8 | 30.4 | 22.0 | 19.8 | 23.4 | 39.0 | 31.0 | 26.0 |
| 460C | High | 60.4 | 60.4 | 60.5 | 58.2 | 57.1 | 52.2 | 47.2 | 40.5 | 61.0 | 53.0 | 51.0 |
| | Medium | 56.1 | 56.1 | 55.4 | 53.3 | 51.8 | 46.4 | 40.7 | 33.7 | 56.0 | 48.0 | 44.0 |
| | Low | 53.2 | 53.2 | 49.5 | 47.6 | 44.6 | 38.1 | 31.8 | 26.8 | 49.0 | 41.5 | 38.0 |
| 480C | High | 19.2 | 27.6 | 41.6 | 44.8 | 46.2 | 45.1 | 39.0 | 33.9 | 43.1 | 51.1 | 46.0 |
| | Medium | 18.6 | 24.5 | 37.9 | 41.7 | 42.2 | 40.7 | 34.1 | 28.3 | 39.2 | 47.2 | 42.0 |
| | Low | 14.8 | 19.6 | 32.3 | 35.6 | 35.6 | 32.9 | 25.3 | 18.9 | 32.6 | 40.6 | 36.0 |
| 490C | High | 19.6 | 28.8 | 43.4 | 45.7 | 47.7 | 46.8 | 40.8 | 35.4 | 44.6 | 52.6 | 47.0 |
| | Medium | 18.9 | 26.9 | 40.7 | 43.6 | 45.3 | 44.1 | 37.8 | 31.8 | 42.1 | 50.1 | 45.0 |
| | Low | 16.8 | 24.5 | 37.7 | 40.9 | 41.9 | 40.3 | 33.5 | 27.1 | 38.8 | 46.8 | 42.0 |

Sound Level

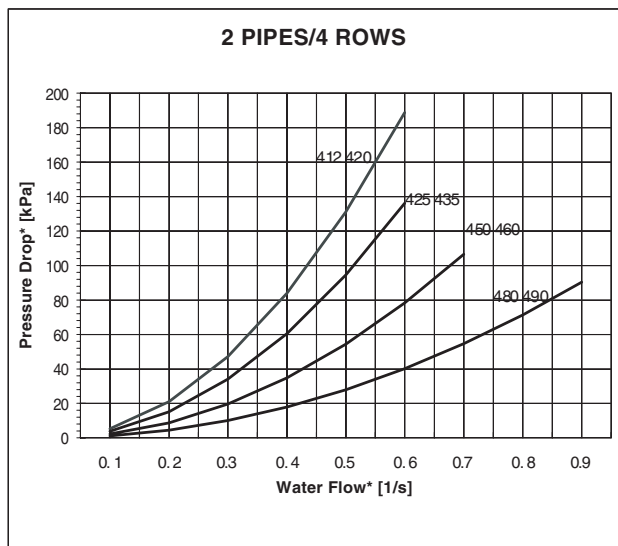
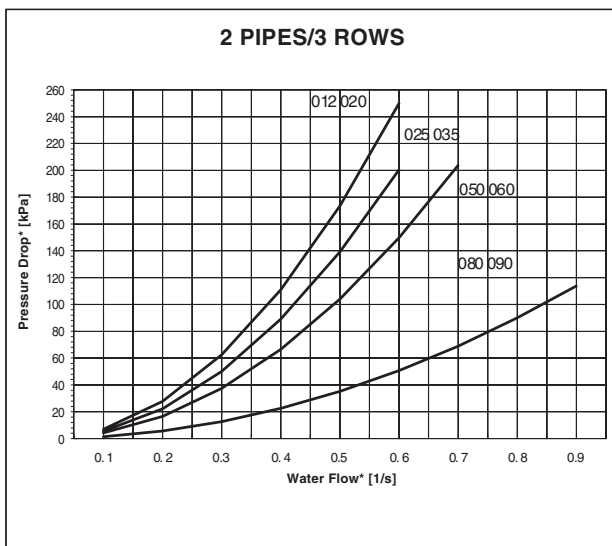
| 4 PIPES | | | | | | | | | | 3+1 ROWS | | |
|---------|--------|---------------------------------|--------|--------|--------|-------|-------|-------|-------|-----------|-----------|------|
| Model | Speed | 1/1 Octave Sound Pressure Level | | | | | | | | Lw{dB(A)} | Lp{dB(A)} | NR |
| | | 63Hz | 125 Hz | 250 Hz | 500 Hz | 1K Hz | 2K Hz | 4K Hz | 8K Hz | | | |
| 412C | High | 50.3 | 50.3 | 48.8 | 43.9 | 39.2 | 34.3 | 27.2 | 23.4 | 46.0 | 38.0 | 33.0 |
| | Medium | 48.9 | 48.9 | 46.7 | 41.7 | 36.6 | 30.2 | 23.6 | 22.5 | 43.5 | 35.5 | 30.0 |
| | Low | 46.9 | 46.9 | 44.2 | 38.9 | 32.6 | 25.6 | 20.3 | 22.2 | 40.5 | 32.5 | 27.0 |
| 420C | High | 51.5 | 51.5 | 51.9 | 48.8 | 44.6 | 38.8 | 31.0 | 26.0 | 50.0 | 42.0 | 38.0 |
| | Medium | 48.7 | 48.7 | 47.8 | 44.5 | 38.7 | 30.9 | 23.5 | 24.5 | 45.0 | 37.0 | 33.0 |
| | Low | 45.7 | 45.7 | 43.7 | 39.4 | 32.6 | 24.4 | 19.7 | 23.2 | 40.5 | 37.0 | 33.0 |
| 425C | High | 50.7 | 50.7 | 51.1 | 48.0 | 43.8 | 38.0 | 30.2 | 25.2 | 49.0 | 41.0 | 37.0 |
| | Medium | 46.2 | 46.2 | 45.3 | 42.0 | 36.2 | 28.4 | 21.0 | 22.0 | 43.0 | 34.5 | 31.0 |
| | Low | 45.0 | 45.0 | 43.0 | 38.7 | 31.9 | 23.7 | 19.0 | 22.5 | 39.5 | 31.5 | 27.0 |
| 435C | High | 56.5 | 56.5 | 57.3 | 52.8 | 49.5 | 44.8 | 38.4 | 32.1 | 55.0 | 47.0 | 42.0 |
| | Medium | 52.9 | 52.9 | 53.7 | 49.5 | 45.5 | 40.2 | 33.0 | 27.3 | 51.5 | 43.0 | 38.0 |
| | Low | 48.7 | 48.7 | 49.0 | 45.2 | 40.2 | 33.6 | 25.7 | 24.1 | 46.0 | 38.0 | 34.0 |
| 450C | High | 54.7 | 54.7 | 55.6 | 53.2 | 50.8 | 45.0 | 38.7 | 31.2 | 55.5 | 47.0 | 43.0 |
| | Medium | 48.7 | 48.7 | 48.1 | 45.9 | 41.4 | 34.0 | 26.4 | 23.8 | 47.0 | 39.0 | 35.0 |
| | Low | 48.1 | 48.1 | 41.9 | 37.8 | 30.4 | 22.0 | 19.8 | 23.4 | 39.0 | 31.0 | 26.0 |
| 460C | High | 60.4 | 60.4 | 60.5 | 58.2 | 57.1 | 52.2 | 47.2 | 40.5 | 61.0 | 53.0 | 51.0 |
| | Medium | 56.1 | 56.1 | 55.4 | 53.3 | 51.8 | 46.4 | 40.7 | 33.7 | 56.0 | 48.0 | 44.0 |
| | Low | 53.2 | 53.2 | 49.5 | 47.6 | 44.6 | 38.1 | 31.8 | 26.8 | 49.0 | 41.5 | 38.0 |
| 480C | High | 19.2 | 27.6 | 41.6 | 44.8 | 46.2 | 45.1 | 39.0 | 33.9 | 43.1 | 51.1 | 46.0 |
| | Medium | 18.6 | 24.5 | 37.9 | 41.7 | 42.2 | 40.7 | 34.1 | 28.3 | 39.2 | 47.2 | 42.0 |
| | Low | 14.8 | 19.6 | 32.3 | 35.6 | 35.6 | 32.9 | 25.3 | 18.9 | 32.6 | 40.6 | 36.0 |
| 490C | High | 19.6 | 28.8 | 43.4 | 45.7 | 47.7 | 46.8 | 40.8 | 35.4 | 44.6 | 52.6 | 47.0 |
| | Medium | 18.9 | 26.9 | 40.7 | 43.6 | 45.3 | 44.1 | 37.8 | 31.8 | 42.1 | 50.1 | 45.0 |
| | Low | 16.8 | 24.5 | 37.7 | 40.9 | 41.9 | 40.3 | 33.5 | 27.1 | 38.8 | 46.8 | 42.0 |

Sound pressure level and NR are measured to a room of 100m³ volume and 0.5 sec. reverberation time (e.g. office/conference room with carpet on the floor).

Operating Limits and Pressure Drops

| OPERATING LIMITS | MFU/MFC |
|---|--|
| Water circuit Maximum water-side pressure Minimum entering water temperature Maximum entering water temperature | 16.4 kg/cm ² 3°C (cooling) 80°C (heating) |
| Room air Minimum temperature Maximum temperature | 16°C (10°C optional for MFU) 30°C |
| Power supply Nominal single-phase voltage Wire size | 220~240 V/50 Hz AWG18 (or 1mm ²) |

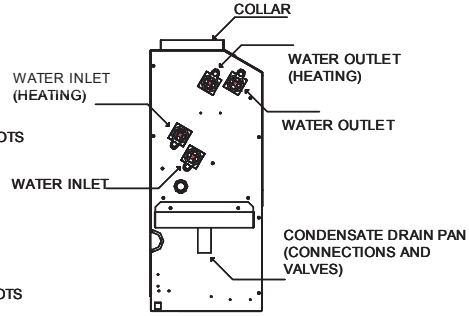
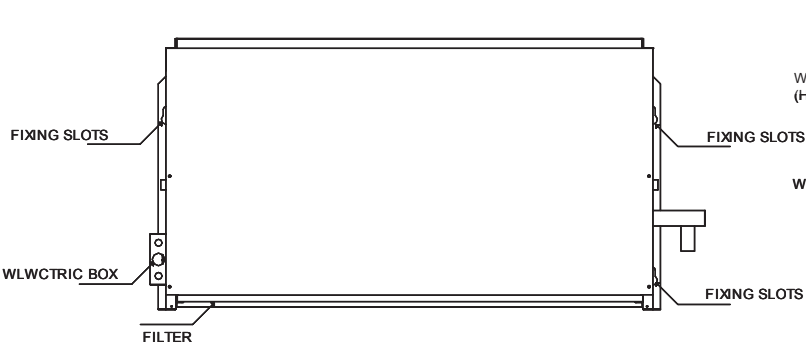
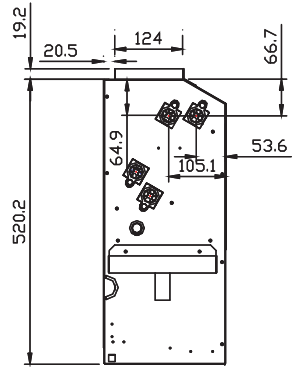
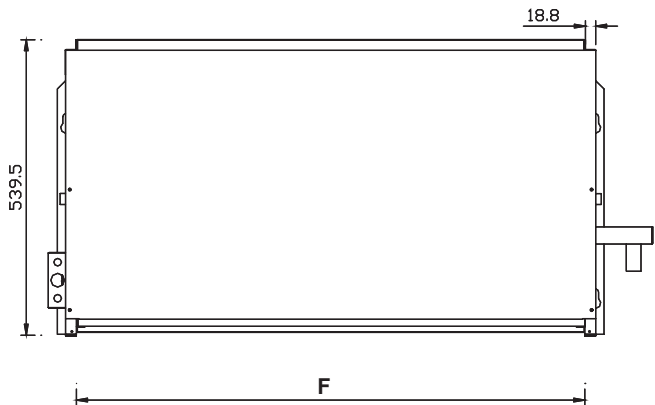
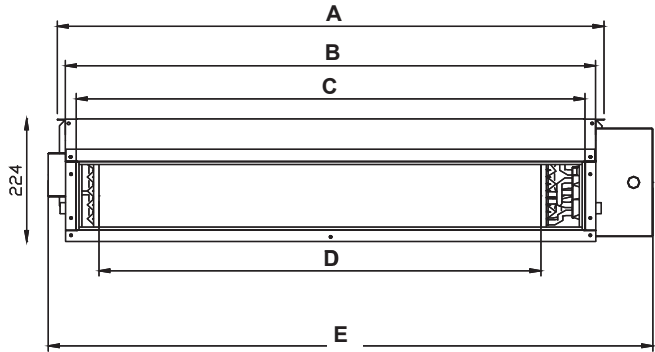
Pressure Drops



*The pressure drop is for coil only and excludes water connections and valves.

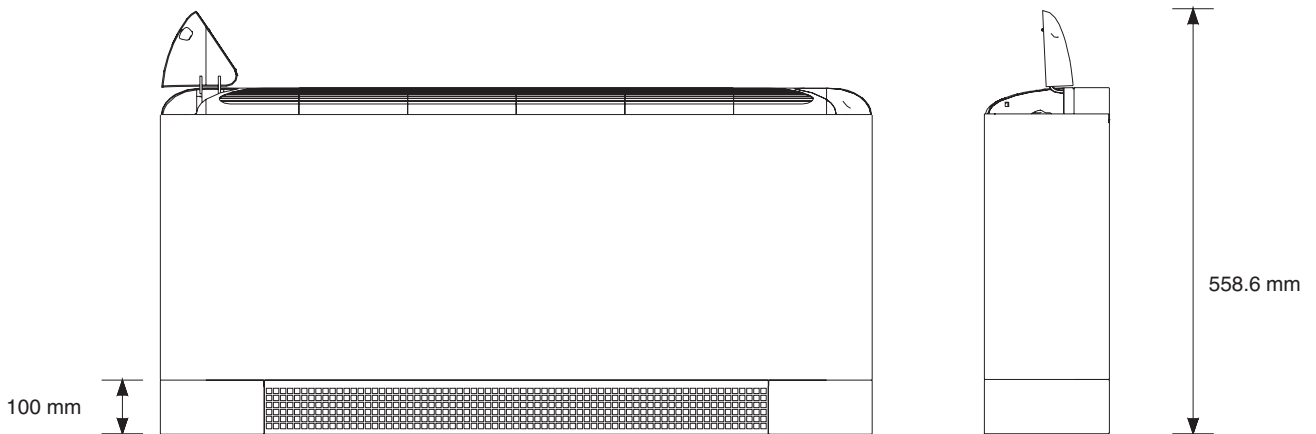
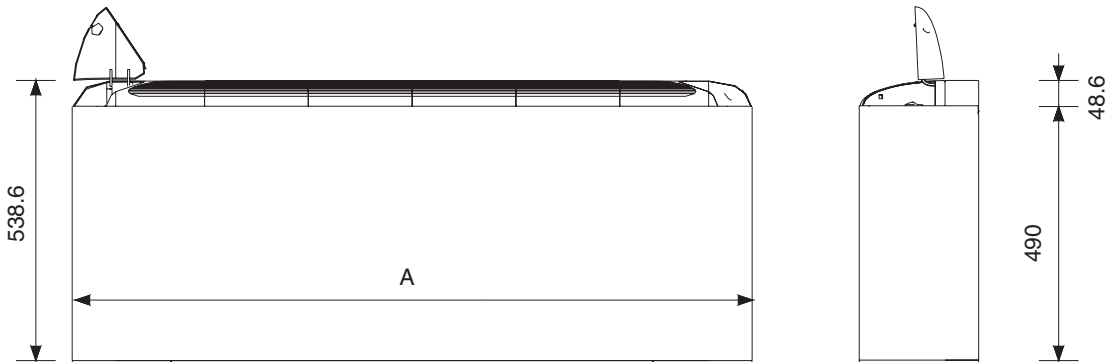
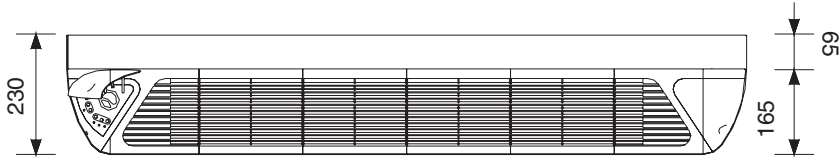
Outlines and Dimensions

| MFC – C/H | 012/020 412/420 | 025/035 425/435 | 050/060 450/460 | 080/090 480/490 |
|-----------|--------------------|--------------------|--------------------|--------------------|
| A | 598 | 798 | 998 | 1198 |
| B | 568 | 768 | 968 | 1168 |
| C | 526 | 726 | 926 | 1126 |
| D | 407 | 607 | 807 | 1007 |
| E | 704 | 904 | 1104 | 1304 |
| F | 529 | 729 | 929 | 1129 |



Outlines and Dimensions

| MFU – C/H | 012/020 412/420 | 025/035 425/435 | 050/060 450/460 | 080/090 480/490 |
|-----------|--------------------|--------------------|--------------------|--------------------|
| A | 910 | 1110 | 1310 | 1510 |



Height = 100 mm from the wall for:

- Feet (cover and/or support)
- Base module
- Frontal air intake module
- External air intake module

Installation

Installation of MFU/MFC Unit

- **Portage**

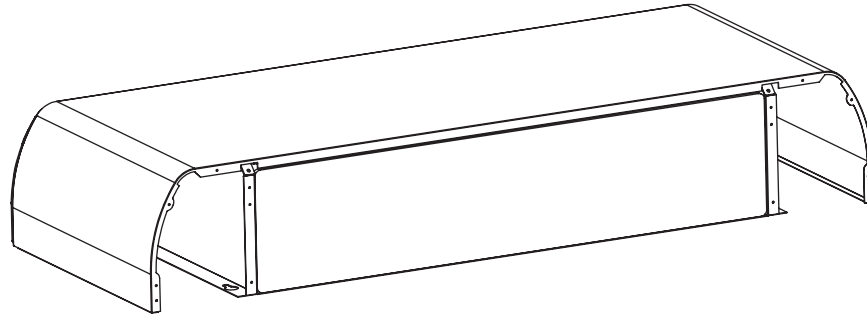
1. When unpacking, Units can not be taken out, instead to pull out the carton box upwards; Please do not lay the unit down or turn the unit up and down; Do not handle the unit through the cabinet, which will cause the damage of cabinet;
2. When moving the unit , please to handle it through the cross beam; Do not try to move the unit through the cabinet , which will cause the damage of cabinet;
3. After the unit is moved in position for installation, start to install the aesthetic feet, support (refer to the accessory installation instruction) ;

- **Accessory list of MFU/MFC series**

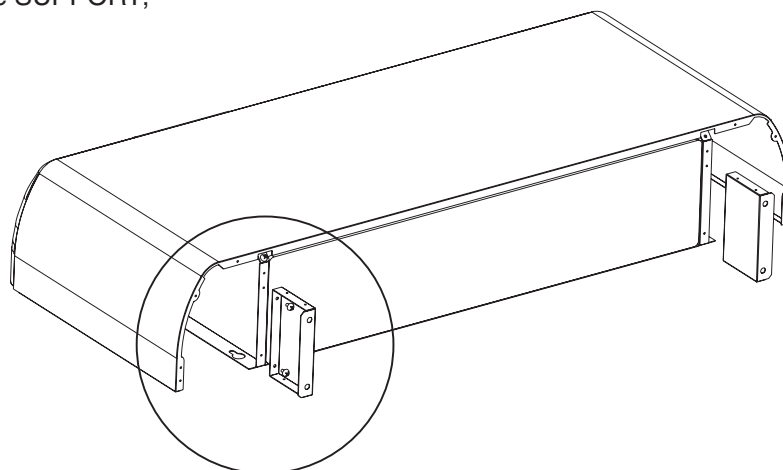
| Accessory Box | | MFU-AC-FT-O | MFU-AC-FT-S | | MFU-AC-GR | |
|---------------------|--------|--------------------|-------------|----------------------|--------------|--------------------|
| Installation Method | | Aesthetic Feet L/R | Support | M4 Selftapping Screw | Inlet Grille | M5 finepitch Screw |
| MFU | Type A | 1 SET(L/R) | 2 EA | 12 EA | 1 EA | 2 EA |
| | Type B | 1 SET(L/R) | 2 EA | 12 EA | ---- | ---- |
| MFC | ---- | ---- | 2 EA | 4 EA | ---- | ---- |

- **Accessory installation of MFU/MFC unit**

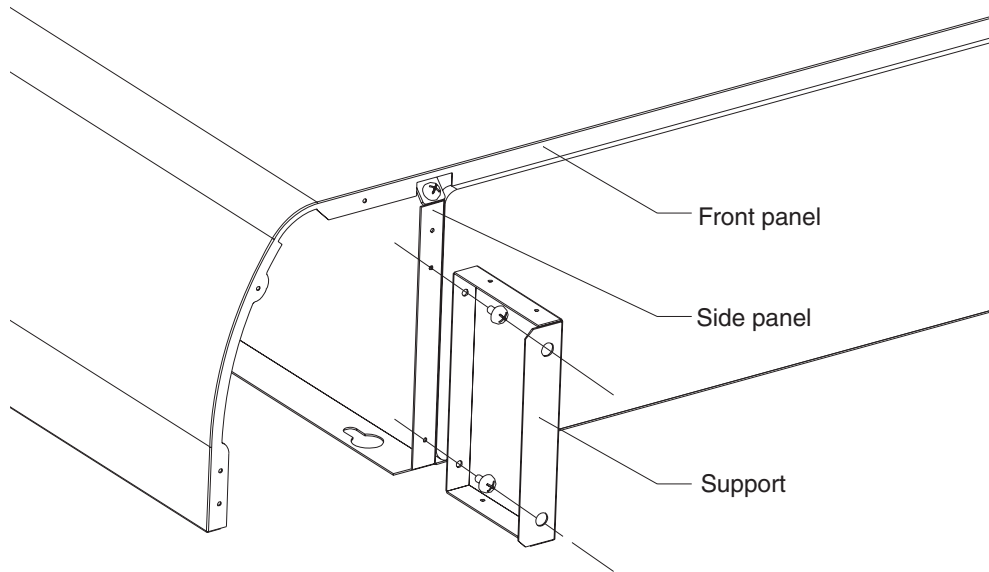
1. Before installation, lay down the unit with cabinet upwards;



2. Step one: Install the SUPPORT;

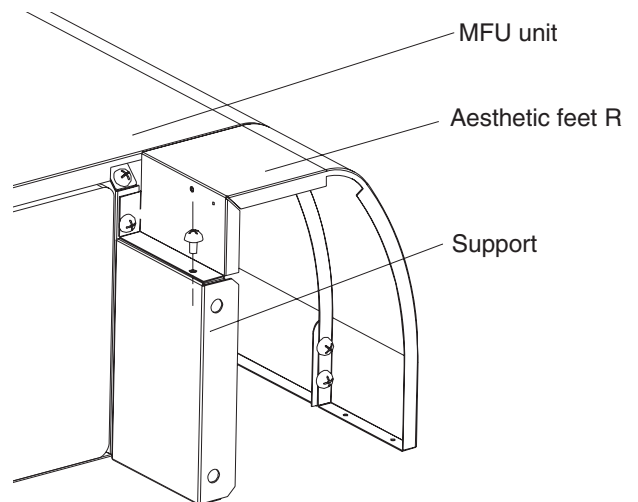
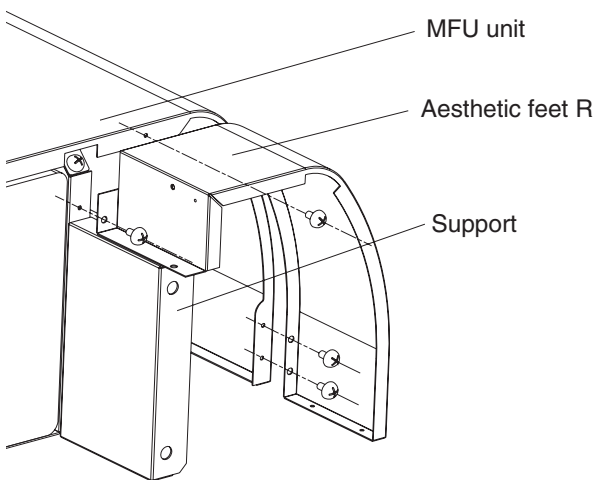
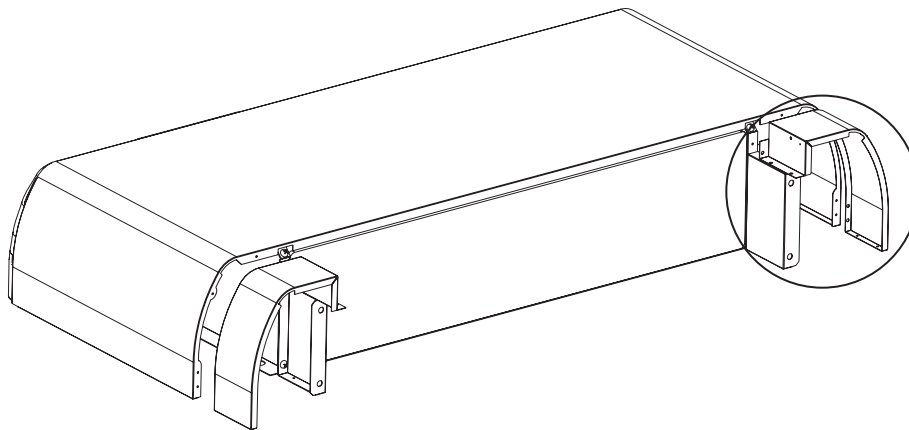


Installation



As shown as the above drawings, to drill the screw to fix the support with core units;

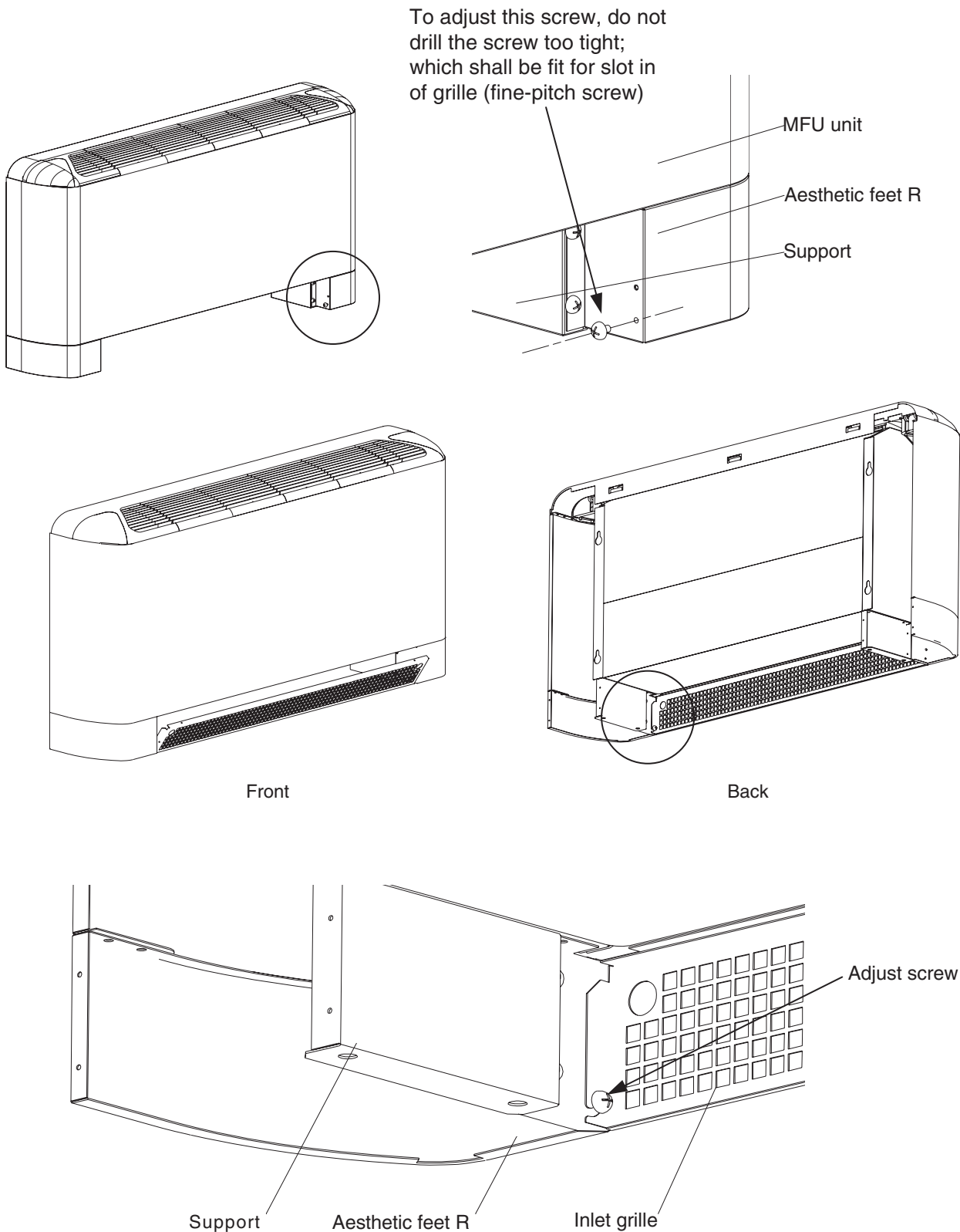
3. Step two: To install the AESTHETIC FEET (L/R);



Installation

As shown as above, to connect the aesthetic feet and support as above; (Left and right are the same way);

4. Step 3 : to install the GRILLE (only applied for type A);



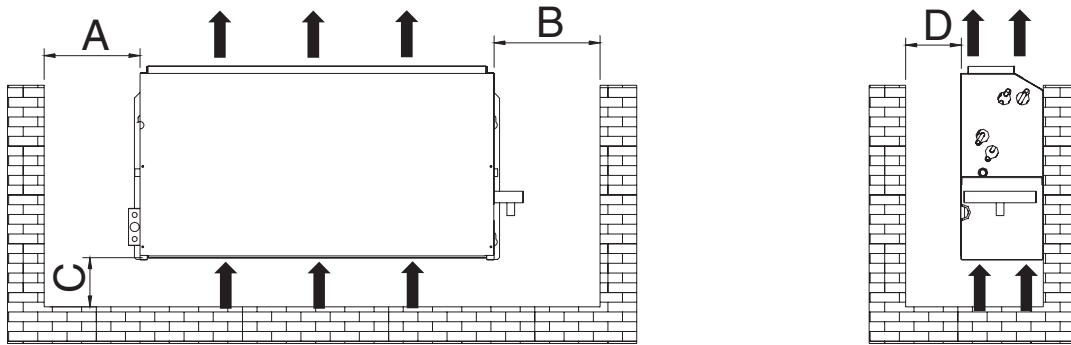
To fix the grille please slot the grille into the fixing screw (shown as the above view) , to adjust the tightness of screw and ensure the rotate of grille fixed with screw;

Installation

Preliminary Site Survey

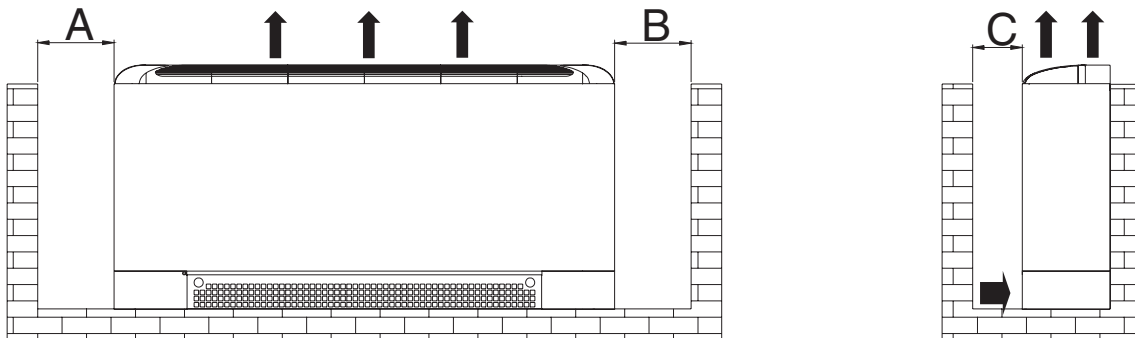
- A place protected from rain, direct sunlight and well-ventilated wherever practicable.
- A place capable of bearing the weight of the outdoor unit and isolating noise and vibration.
- A place where there are no obstruction of air flow into or out the unit.
- Do not put any object which may become obstacle for the air flow into or out the unit.
- The location must not be susceptible to high concentration dust, oil, salt or sulfide gas.

MFC Series



| ALL UNITS | A | B | C | D |
|--------------------|-----|-----|-----|-----|
| Min. Distance (mm) | 500 | 500 | 100 | 500 |

MFU Series



| ALL UNITS | A | B | C |
|--------------------|-----|-----|-----|
| Min. Distance (mm) | 300 | 300 | 500 |

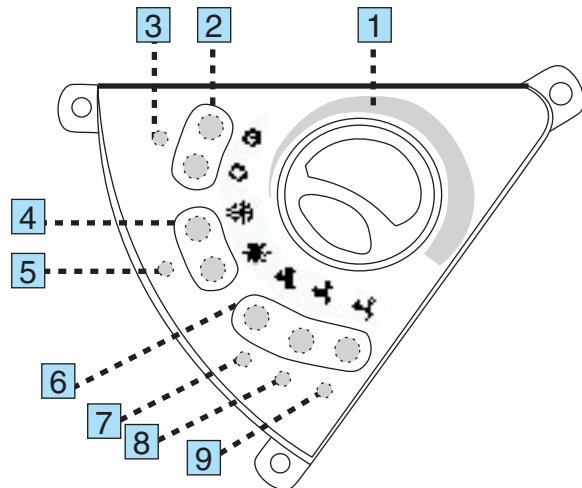
Control Features

Electronic Controller AC2800B



| | |
|--------------------------------|---|
| Location | On board |
| Models | Standard for MFU series, all versions |
| Parameters | Temperature operation range: 16-30°C |
| Main Functions | On/Off |
| | Cool/Heat Mode |
| | Fan speed (HIGH/MEDIUM/LOW) |
| | Cold draft protection (Heat Mode) |
| | Sensor failure alarm (auto-diagnosis) |
| | 2 or 3 ways valve with ON/OFF control |
| Integration into FCU Network | --- |
| Integration with Smart Manager | --- |

1. Potentiometer for temperature regulation
2. On/Off keys
3. On/Off LED
4. Heating/Cooling mode keys
5. Heating/Cooling mode LED
6. Fan Speed selection keys
7. Fan Speed LED (HIGH)
8. Fan Speed LED (MEDIUM)
9. Fan Speed LED (LOW)

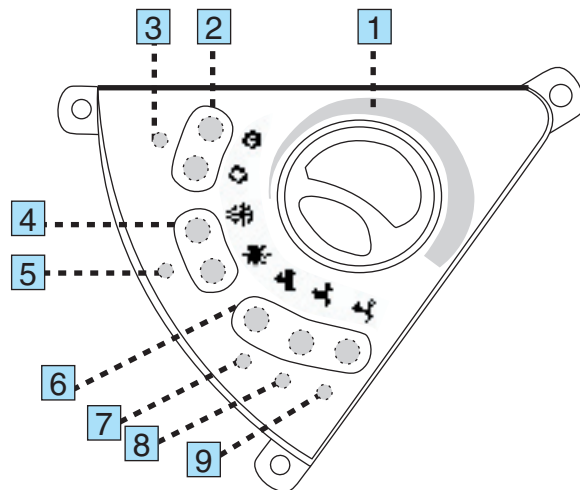


Electronic Controller AC2800 (Optional)



| | |
|--------------------------------|---|
| Location | On board |
| Models | MFU series, all versions |
| Parameters | Selectable temperature operation range: 10-30°C or 16-30°C |
| Main Functions | On/Off |
| | Cool/Heat mode |
| | Fan speed (HIGH/MEDIUM/LOW) |
| | Sensor failure alarm (auto-diagnosis) |
| | 2 or 3 ways valve with ON/OFF control |
| Integration into FCU Network | Direct connection |
| Integration with Smart Manager | Direct connection |

1. Potentiometer for temperature regulation
2. On/Off keys
3. On/Off LED
4. Heating/Cooling mode keys
5. Heating/Cooling mode LED
6. Fan Speed selection keys
7. Fan Speed LED (HIGH)
8. Fan Speed LED (MEDIUM)
9. Fan Speed LED (LOW)



Auto-diagnosis

LED Blinking 7: Ambient temperature sensor incorrect operation.

LED Blinking 8: Water temperature sensor incorrect operation.

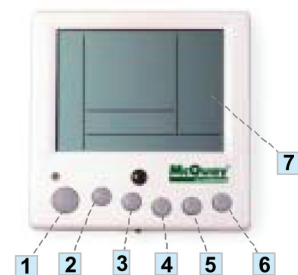
LED Blinking 5: Fan Coil/Chiller conflicting mode selection (when the system works on cool mode and the water temperature is above 25°C, or when the system works on heat mode and the water temperature is below 25°C, the system consider it as the mode conflict, at the same time, the system will shut off all outputs and the LED will blink.)

Electronic Thermostat AC8000 + Remote Controller AC5300

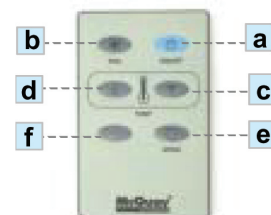


| | |
|--------------------------------|--|
| Location | Wall mounted |
| Models | All models; All versions |
| Parameters | Temperature operation range: 16-30°C |
| Main Functions | On/Off |
| | Cool/Heat mode |
| | Fan speed (HIGH/MEDIUM/LOW) |
| | Auto Fan Speed selection [available from December 2004] |
| | Date/Time setting |
| | Sensor failure alarm (auto-diagnosis) |
| | Timer with 2 daily setting (14 weekly) |
| | Cold draft protection |
| | 2 or 3 ways valve with ON/OFF control |
| Integration into FCU Network | Remote control – max. distance: 2.5 meters |
| Integration into FCU Network | Connection through AC8000C controller |
| | Direct connection [available from December 2004] |
| Integration with Smart Manager | Connection through AC8000C controller |
| | Direct connection [available from December 2004] |

1. On/Off key
2. Heating/Cooling mode key
3. Clock/Timer setting
4. Fan speed selection key (HIGH/MEDIUM/LOW)
5. Temperature up key
6. Temperature down key
7. Back-light LCD display



- a. On/Off key
- b. Fan speed selection key (HIGH/MEDIUM/LOW)
- c. Temperature up key
- d. Temperature down key
- e. Heating/Cooling mode key
- f. Clock/Timer setting



E00: Ambient temperature sensor open

E01: Ambient temperature sensor short

Mechanical Thermostat AC512/AC513



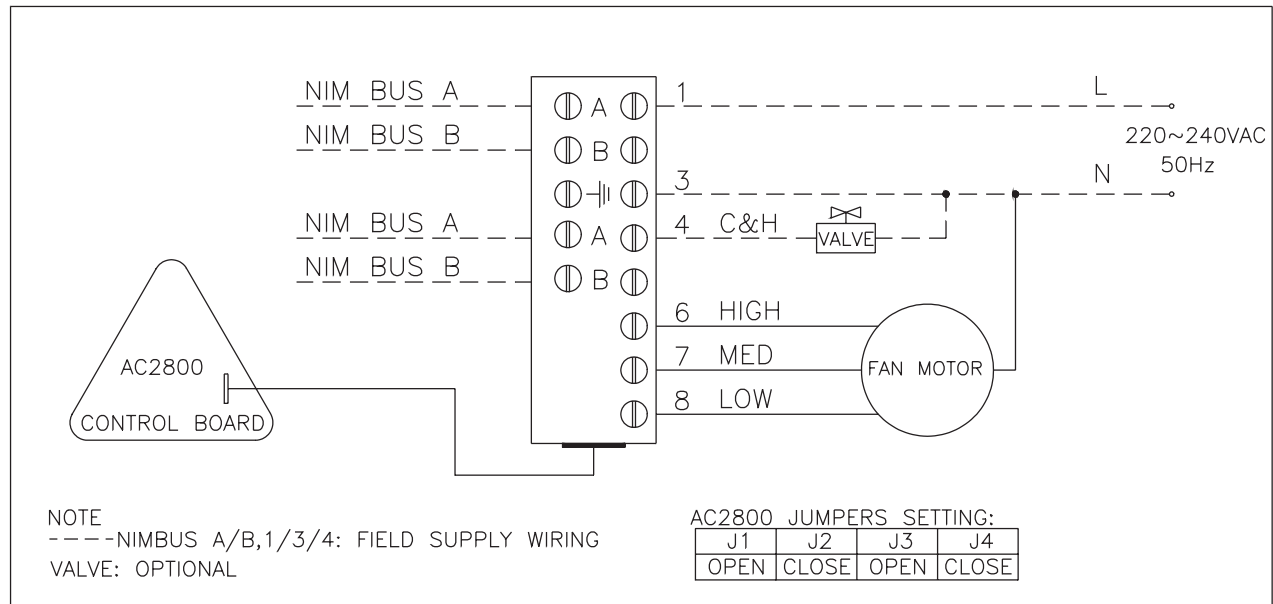
| | |
|--------------------------------|---|
| Location | Wall mounted |
| Models | All models |
| | AC512: 2 Pipes version |
| | AC513: 4 Pipes version |
| Parameters | Temperature operation range: 10-30°C |
| Main Functions | On/Off |
| | 2 or 3 ways valve with ON/OFF control |
| Integration into FCU Network | --- |
| Integration with Smart Manager | --- |

1. Potentiometer for temperature regulation
2. Fan speed keys (HIGH/MEDIUM/LOW)
3. Heating/Cooling mode buttons

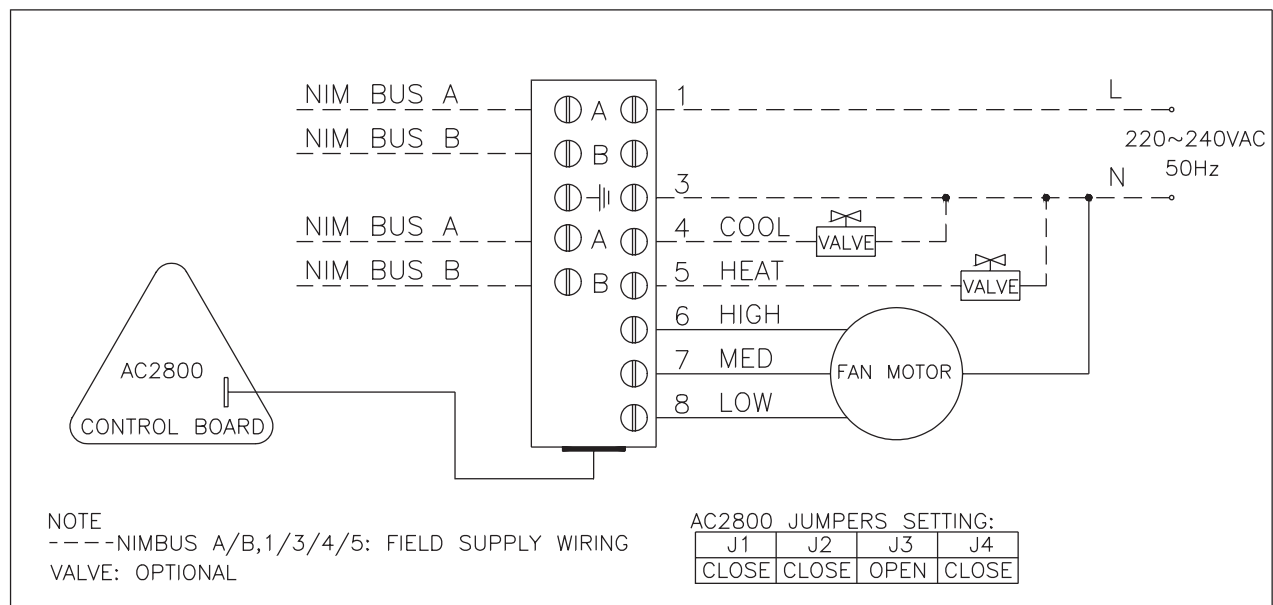


Wiring Diagrams

| | |
|-----------------------|--|
| MFU – C0 – BCE | 012/020/025/035/050/060/080/090 412/420/425/435/450/460/480/490 |
|-----------------------|--|

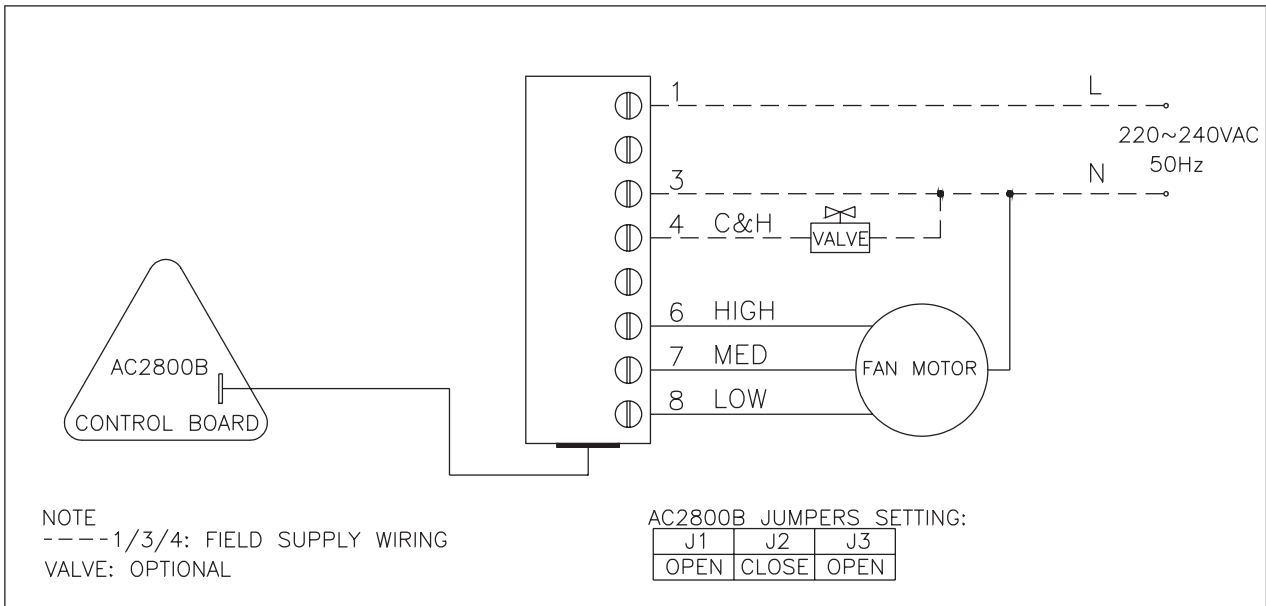


| | |
|-----------------------|---------------------------------|
| MFU – H0 – BCE | 012/020/025/035/050/060/080/090 |
|-----------------------|---------------------------------|

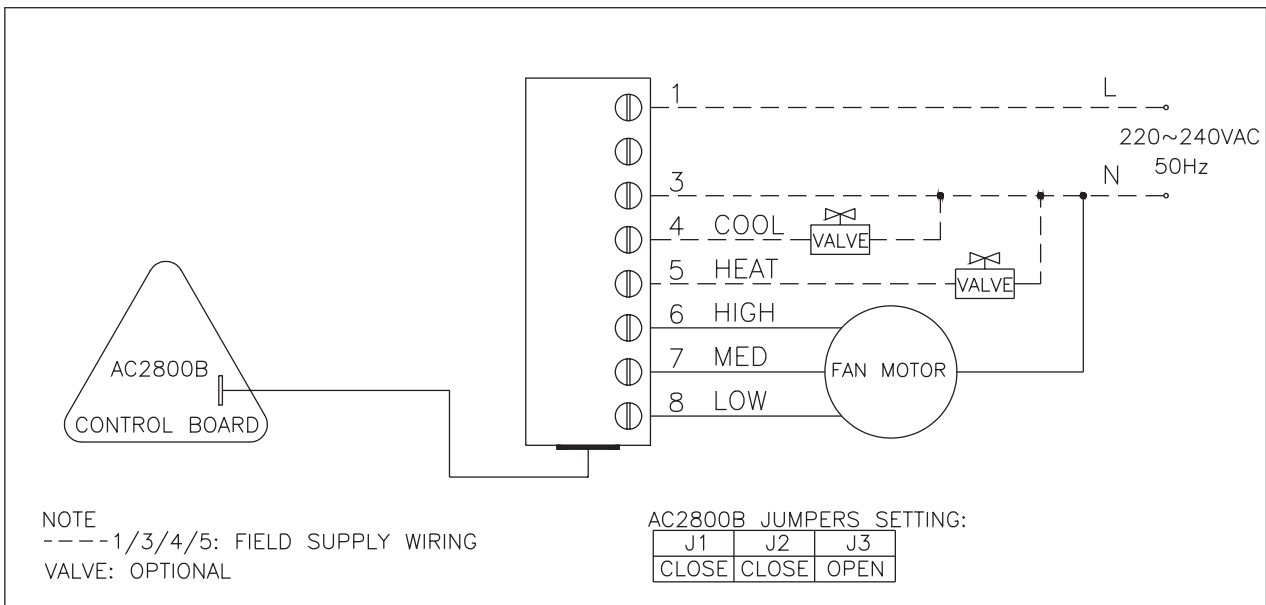


Wiring Diagrams

| | |
|-----------------------|--|
| MFU – C0 – BCM | 012/020/025/035/050/060/080/090 412/420/425/435/450/460/480/490 |
|-----------------------|--|



| | |
|-----------------------|---------------------------------|
| MFU – H0 – BCM | 012/020/025/035/050/060/080/090 |
|-----------------------|---------------------------------|



Technical Data At Conditions Non Standard

2 PIPES **3 ROWS**

| Water Temperature | | Air Temperature | | 012 | | 020 | | 025 | | 035 | | 050 | | 060 | | 080 | | 090 | | | |
|-------------------|-----|-----------------|----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| | | | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | |
| | | | | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens |
| IN | Out | DB | WB | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] |
| °C | °C | °C | °C | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] |
| 3 | 6 | 21 | 15 | 1.40 | 1.02 | 1.91 | 1.42 | 2.66 | 1.80 | 3.58 | 1.49 | 4.72 | 3.40 | 6.00 | 4.43 | 6.96 | 5.05 | 8.10 | 5.54 | | |
| | | | | 1.22 | 0.89 | 1.57 | 1.15 | 1.96 | 1.33 | 3.00 | 2.08 | 4.01 | 2.87 | 5.33 | 3.89 | 6.18 | 4.43 | 7.20 | 4.86 | | |
| | | | | 1.01 | 0.74 | 1.50 | 0.86 | 1.50 | 1.03 | 2.25 | 1.56 | 2.87 | 2.03 | 4.17 | 2.99 | 4.84 | 3.41 | 5.63 | 3.74 | | |
| 3 | 8 | 21 | 15 | 1.05 | 0.86 | 1.44 | 1.20 | 2.22 | 1.57 | 2.91 | 2.17 | 4.03 | 3.07 | 5.03 | 3.98 | 5.83 | 4.54 | 6.79 | 4.98 | | |
| | | | | 0.93 | 0.75 | 1.22 | 0.99 | 1.66 | 1.19 | 2.47 | 1.83 | 3.47 | 2.61 | 4.52 | 3.51 | 5.24 | 4.00 | 6.10 | 4.39 | | |
| | | | | 0.79 | 0.63 | 0.93 | 0.76 | 1.29 | 0.93 | 1.89 | 1.39 | 2.55 | 1.87 | 3.62 | 2.73 | 4.20 | 3.11 | 4.89 | 3.41 | | |
| 3 | 10 | 21 | 15 | 0.68 | 0.68 | 0.98 | 0.98 | 1.70 | 1.33 | 2.15 | 1.82 | 3.24 | 2.71 | 3.95 | 3.51 | 4.58 | 4.00 | 5.33 | 4.39 | | |
| | | | | 0.61 | 0.61 | 0.82 | 0.82 | 1.30 | 1.02 | 1.87 | 1.55 | 2.84 | 2.32 | 3.62 | 3.11 | 4.20 | 3.55 | 4.89 | 3.89 | | |
| | | | | 0.52 | 0.52 | 0.69 | 0.64 | 1.03 | 0.81 | 1.47 | 1.20 | 2.15 | 1.69 | 2.99 | 2.44 | 3.47 | 2.78 | 4.04 | 3.05 | | |
| 5 | 8 | 21 | 15 | 1.14 | 0.90 | 1.54 | 1.25 | 2.25 | 0.59 | 2.97 | 2.20 | 3.91 | 3.01 | 4.91 | 3.93 | 5.70 | 4.48 | 6.63 | 4.91 | | |
| | | | | 0.99 | 0.78 | 1.28 | 1.02 | 1.65 | 1.18 | 2.50 | 1.84 | 3.34 | 2.55 | 4.39 | 3.45 | 5.09 | 3.93 | 5.93 | 4.31 | | |
| | | | | 0.83 | 0.65 | 0.98 | 0.77 | 1.26 | 0.92 | 1.88 | 1.39 | 2.41 | 1.81 | 3.46 | 2.66 | 4.01 | 3.03 | 4.67 | 3.33 | | |
| 5 | 10 | 21 | 15 | 0.59 | 0.74 | 1.06 | 1.04 | 1.78 | 1.36 | 2.27 | 1.88 | 3.17 | 2.69 | 3.89 | 3.48 | 4.51 | 3.97 | 5.25 | 4.35 | | |
| | | | | 0.69 | 0.65 | 0.92 | 0.86 | 1.33 | 1.03 | 1.95 | 1.59 | 2.76 | 2.29 | 3.54 | 3.08 | 4.11 | 3.51 | 4.78 | 3.85 | | |
| | | | | 0.77 | 0.55 | 0.74 | 0.66 | 1.04 | 0.81 | 1.51 | 1.21 | 2.06 | 1.65 | 2.89 | 2.40 | 3.35 | 2.74 | 3.90 | 3.00 | | |
| 5 | 12 | 21 | 15 | 0.55 | 0.55 | 0.80 | 0.80 | 1.20 | 1.11 | 1.52 | 1.52 | 2.32 | 2.32 | 2.98 | 2.98 | 3.46 | 3.40 | 4.02 | 3.73 | | |
| | | | | 0.49 | 0.49 | 0.68 | 0.68 | 0.93 | 0.86 | 1.30 | 1.30 | 2.07 | 1.99 | 2.65 | 2.65 | 3.07 | 3.02 | 3.58 | 3.31 | | |
| | | | | 0.42 | 0.42 | 0.53 | 0.53 | 0.74 | 0.68 | 1.04 | 1.01 | 1.62 | 1.45 | 2.19 | 2.10 | 2.54 | 2.39 | 2.96 | 2.63 | | |
| 7 | 10 | 21 | 15 | 0.86 | 0.77 | 1.15 | 1.08 | 1.80 | 1.37 | 2.33 | 1.90 | 3.02 | 2.62 | 3.72 | 3.42 | 4.32 | 3.90 | 5.02 | 4.28 | | |
| | | | | 0.75 | 0.68 | 0.97 | 0.89 | 1.32 | 1.02 | 1.96 | 1.59 | 2.61 | 2.22 | 3.36 | 3.00 | 3.90 | 3.42 | 4.54 | 3.75 | | |
| | | | | 0.63 | 0.56 | 0.75 | 0.66 | 1.00 | 0.80 | 1.48 | 1.20 | 1.90 | 1.58 | 2.70 | 2.32 | 3.13 | 2.64 | 3.65 | 2.90 | | |
| 7 | 12 | 21 | 15 | 0.80 | 0.80 | 0.86 | 0.86 | 1.28 | 1.14 | 1.57 | 1.57 | 2.28 | 2.28 | 2.94 | 2.94 | 3.41 | 3.35 | 3.97 | 3.68 | | |
| | | | | 0.53 | 0.52 | 0.71 | 0.71 | 0.96 | 0.87 | 1.36 | 1.33 | 1.98 | 1.95 | 2.61 | 2.61 | 3.03 | 2.98 | 3.52 | 3.26 | | |
| | | | | 0.45 | 0.45 | 0.55 | 0.55 | 0.75 | 0.69 | 1.07 | 1.03 | 1.51 | 1.41 | 2.07 | 2.07 | 2.40 | 2.36 | 2.79 | 2.59 | | |
| 7 | 14 | 21 | 15 | 0.41 | 0.41 | 0.62 | 0.62 | 0.86 | 0.86 | 1.18 | 1.18 | 1.87 | 1.87 | 2.40 | 2.40 | 2.78 | 2.74 | 3.24 | 3.00 | | |
| | | | | 0.37 | 0.37 | 0.52 | 0.52 | 0.67 | 0.67 | 1.02 | 1.02 | 1.61 | 1.61 | 2.15 | 2.15 | 2.49 | 2.45 | 2.90 | 2.69 | | |
| | | | | 0.32 | 0.32 | 0.41 | 0.41 | 0.54 | 0.54 | 0.80 | 0.50 | 1.19 | 1.19 | 1.71 | 1.71 | 1.98 | 1.95 | 2.31 | 2.14 | | |
| 9 | 12 | 21 | 15 | 0.64 | 0.64 | 0.89 | 0.89 | 1.30 | 1.15 | 1.60 | 1.60 | 2.21 | 2.21 | 2.86 | 2.86 | 3.32 | 3.26 | 3.86 | 3.58 | | |
| | | | | 0.56 | 0.56 | 0.73 | 0.73 | 0.95 | 0.86 | 1.36 | 1.34 | 1.87 | 1.87 | 2.52 | 2.52 | 2.92 | 2.87 | 3.40 | 3.15 | | |
| | | | | 0.47 | 0.47 | 0.56 | 0.56 | 0.72 | 0.67 | 1.04 | 1.01 | 1.35 | 1.35 | 1.96 | 1.96 | 2.27 | 2.23 | 2.65 | 2.45 | | |
| 9 | 14 | 21 | 15 | 0.46 | 0.46 | 0.67 | 0.67 | 0.90 | 0.90 | 1.23 | 1.23 | 1.84 | 1.84 | 2.37 | 2.37 | 2.75 | 2.70 | 3.20 | 2.96 | | |
| | | | | 0.41 | 0.41 | 0.56 | 0.56 | 0.69 | 0.69 | 1.05 | 1.05 | 1.57 | 1.57 | 2.10 | 2.10 | 2.44 | 2.39 | 2.84 | 2.63 | | |
| | | | | 0.35 | 0.35 | 0.43 | 0.43 | 0.55 | 0.55 | 0.82 | 0.82 | 1.15 | 1.15 | 1.66 | 1.66 | 1.93 | 1.89 | 2.24 | 2.08 | | |
| 9 | 16 | 21 | 15 | 0.26 | 0.26 | 0.42 | 0.42 | 0.59 | 0.59 | 0.82 | 0.82 | 1.39 | 1.39 | 1.79 | 1.79 | 2.08 | 2.04 | 2.42 | 2.24 | | |
| | | | | 0.24 | 0.24 | 0.36 | 0.36 | 0.47 | 0.47 | 0.72 | 0.72 | 1.21 | 1.21 | 1.61 | 1.61 | 1.84 | 1.84 | 2.17 | 2.01 | | |
| | | | | 0.21 | 0.21 | 0.29 | 0.29 | 0.38 | 0.38 | 0.57 | 0.57 | 0.90 | 0.90 | 1.29 | 1.29 | 1.50 | 1.47 | 1.74 | 1.61 | | |
| | | | | 0.50 | 0.50 | 0.70 | 0.70 | 0.91 | 0.91 | 1.25 | 1.25 | 1.77 | 1.77 | 2.28 | 2.28 | 2.64 | 2.60 | 3.08 | 2.85 | | |
| 11 | 14 | 21 | 15 | 0.44 | 0.44 | 0.58 | 0.58 | 0.69 | 0.69 | 1.06 | 1.06 | 1.50 | 1.50 | 2.02 | 2.02 | 2.34 | 2.30 | 2.73 | 2.53 | | |
| | | | | 0.37 | 0.37 | 0.44 | 0.44 | 0.54 | 0.54 | 0.81 | 0.81 | 1.08 | 1.08 | 1.57 | 1.57 | 1.82 | 1.79 | 2.12 | 1.96 | | |
| | | | | 0.88 | 0.80 | 1.37 | 1.37 | 1.77 | 1.77 | 0.31 | 0.31 | 0.47 | 0.47 | 0.64 | 0.64 | 0.74 | 0.73 | 0.86 | 0.80 | | |
| 11 | 16 | 21 | 15 | 0.76 | 0.76 | 1.18 | 1.18 | 1.58 | 1.58 | 0.28 | 0.28 | 0.40 | 0.40 | 0.50 | 0.50 | 0.58 | 0.57 | 0.68 | 0.63 | | |
| | | | | 0.60 | 0.60 | 0.87 | 0.87 | 1.25 | 1.25 | 0.24 | 0.24 | 0.31 | 0.31 | 0.40 | 0.40 | 0.46 | 0.46 | 0.54 | 0.50 | | |
| | | | | 0.11 | 0.11 | 0.21 | 0.21 | 0.28 | 0.28 | 0.42 | 0.42 | 0.85 | 0.85 | 1.12 | 1.12 | 1.30 | 1.28 | 1.51 | 1.40 | | |
| 11 | 18 | 21 | 15 | 0.10 | 0.10 | 0.19 | 0.19 | 0.23 | 0.23 | 0.37 | 0.37 | 0.75 | 0.75 | 1.02 | 1.02 | 1.18 | 1.18 | 1.38 | 1.28 | | |
| | | | | 0.09 | 0.09 | 0.15 | 0.15 | 0.19 | 0.19 | 0.31 | 0.31 | 0.58 | 0.58 | 0.83 | 0.83 | 0.96 | 0.95 | 1.12 | 1.04 | | |
| | | | | 1.77 | 1.14 | 2.42 | 1.58 | 3.26 | 2.00 | 4.43 | 2.78 | 5.85 | 3.76 | 7.51 | 4.91 | 8.71 | 5.60 | 10.14 | 6.14 | | |
| 3 | 6 | 23 | 17 | 1.54 | 0.99 | 1.98 | 1.29 | 2.39 | 1.48 | 3.70 | 2.32 | 4.96 | 3.17 | 6.63 | 4.30 | 7.69 | 4.90 | 8.95 | 5.38 | | |
| | | | | 1.27 | 0.82 | 1.49 | 0.96 | 1.83 | 1.15 | 2.76 | 1.74 | 3.52 | 2.24 | 5.15 | 3.30 | 5.97 | 3.76 | 6.95 | 4.13 | | |
| | | | | 1.43 | 0.99 | 1.96 | 1.38 | 2.84 | 1.79 | 3.79 | 2.47 | 5.19 | 3.45 | 6.57 | 4.49 | 7.62 | 5.12 | 8.87 | 5.61 | | |
| 3 | 8 | 23 | 17 | 1.26 | 0.86 | 1.64 | 1.13 | 2.11 | 1.34 | 3.20 | 2.08 | 4.44 | 2.92 | 5.86 | 3.95 | 6.80 | 4.50 | 7.91 | 4.94 | | |
| | | | | 1.06 | 0.72 | 1.27 | 0.86 | 1.64 | 1.05 | 2.43 | 1.57 | 3.21 | 2.09 | 4.63 | 3.06 | 5.37 | 3.49 | 6.25 | 3.83 | | |
| | | | | 1.05 | 0.82 | 1.47 | 1.17 | 2.35 | 1.56 | 3.07 | 2.14 | 4.45 | 3.12 | 5.54 | 4.04 | 6.43 | 4.61 | 7.48 | 5.05 | | |
| 3 | 10 | 23 | 17 | 0.94 | 0.73 | 1.27 | 0.97 | 1.78 | 1.19 | 2.64 | 1.82 | 3.85 | 2.66 | 5.01 | 3.57 | 5.81 | 4.07 | 6.78 | 4.46 | | |
| | | | | 0.81 | 0.62 | 1.01 | 0.75 | 1.40 | 0.94 | 2.04 | 1.40 | 2.85 | 1.92 | 4.04 | 2.79 | 4.69 | 3.18 | 5.45 | 3.49 | | |
| | | | | 1.52 | 1.02 | 2.06 | 1.42 | 2.86 | 1.80 | 3.85 | 2.50 | 5.06 | 3.39 | 6.44 | 4.43 | 7.47 | 5.05 | 8.69 | 5.54 | | |
| 5 | 8 | 23 | 17 | 1.32 | 0.89 | 1.70 | 1.16 | 2.09 | 1.33 | 3.22 | 2.09 | 4.30 | 2.86 | 5.71 | 3.88 | 6.82 | 4.42 | 7.71 | 4.85 | | |
| | | | | 1.09 | 0.74 | 1.28 | 0.87 | 1.60 | 1.03 | 2.41 | 1.56 | 3.07 | 2.02 | 4.46 | 2.89 | 5.17 | 3.29 | 6.02 | 3.61 | | |
| | | | | 1.16 | 0.87 | 1.60 | 1.22 | 2.42 | 1.59 | 3.18 | 2.19 | 4.36 | 3.08 | 5.47 | 4.01 | 6.35 | 4.57 | 7.38 | 5.01 | | |
| 5 | 10 | 23 | 17 | 1.03 | 0.77 | 1.35 | 1.01 | 1.80 | 1.20 | 2.70 | 1.85 | 3.76 | 2.62 | 4.91 | 3.53 | 5.70 | 4.02 | 6.63 | 4.41 | | |
| | | | | 0.87 | 0.64 | 1.05 | 0.76 | 1.40 | 0.94 | 2.06 | 1.40 | 2.74 | 1.87 | 3.91 | 2.74 | 4.54 | 3.12 | 5.28 | 3.43 | | |
| | | | | 0.75 | 0.71 | 1.07 | 1.01 | 1.89 | 1.35 | 2.40 | 1.86 | 3.56 | 2.74 | 4.36 | 3.55 | 5.06 | 4.05 | 5.89 | 4.44 | | |
| | | | | 0.68 | 0.63 | 0.95 | 0.84 | 1.44 | 1.03 | 2.08 | 1.58 | 3.12 | 2.34 | 3.99 | 3.15 | 4.63 | 3.59 | 5.39 | 3.94 | | |
| | | | | 0.60 | 0.53 | 0.78 | 0.65 | 1.13 | 0.82 | 1.63 | 1.22 | 2.34 | 1.70 | 3.27 | 2.46 | 3.79 | 2.80 | 4.41 | 3.08 | | |
| 7 | 10 | 23 | 17 | 1.24 | 0.90 | 1.68 | 1.26 | 2.42 | 1.59 | 3.22 | 2.21 | 4.20 | 3.01 | 5.29 | 3.93 | 6.14 | 4.48 | 7.14 | 4.91 | | |
| | | | | 1.08 | 0.79 | 1.39 | 1.03 | 1.77 | 1.18 | 2.70 | 1.85 | 3.59 | 2.54 | 4.72 | 3.45 | 5.48 | 3.93 | 6.37 | 4.31 | | |
| | | | | 0.90 | 0.66 | 1.06 | 0.77 | 1.35 | 0.92 | 2.02 | 1.39 | 2.58 | 1.80 | 3.72 | 2.65 | 4.32 | 3.02 | 5.02 | 3.31 | | |
| | | | | 0.86 | 0.75 | 1.18 | 1.06 | 1.94 | 1.38 | 2.50 | 1.90 | 3.45 | 2.70 | 4.25 | 3.51 | 4.93 | 4.00 | 5.74 | 4.39 | | |
| 7 | 12 | 23 | 17 | 0.77 | 0.66 | 1.02 | 0.87 | 1.45 | 1.04 | 2.13 | 1.60 | 3.00 | 2.30 | 3.86 | 3.09 | 4.48 | 3.52 | 5.21 | 3.86 | | |
| | | | | 0.66 | 0.56 | 0.81 | 0.67 | 1. | | | | | | | | | | | | | |

Technical Data At Conditions Non Standard

2 PIPES **3 ROWS**

| Water Temperature IN °C | Water Temperature Out °C | Air Temperature DB °C | Air Temperature WB °C | 012 | | 020 | | 025 | | 035 | | 050 | | 060 | | 080 | | 090 | | | | |
|-------------------------------|--------------------------------|-----------------------------|-----------------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|--|
| | | | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | |
| | | | | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | |
| 3 | 6 | 25 | 19 | 2.16 | 1.25 | 2.95 | 1.73 | 3.88 | 2.19 | 5.34 | 3.05 | 7.05 | 4.09 | 9.11 | 5.35 | 10.57 | 6.10 | 12.30 | 6.69 | | | |
| | | | | 1.87 | 1.09 | 2.41 | 1.41 | 2.85 | 1.62 | 4.45 | 2.54 | 5.95 | 3.44 | 8.01 | 4.68 | 9.29 | 5.34 | 10.81 | 5.85 | | | |
| | | | | 1.55 | 0.90 | 1.80 | 1.05 | 2.19 | 1.25 | 3.31 | 1.89 | 4.20 | 2.42 | 6.17 | 3.58 | 7.16 | 4.08 | 8.33 | 4.48 | | | |
| 3 | 8 | 25 | 19 | 12.83 | 1.11 | 2.52 | 1.54 | 3.48 | 1.99 | 4.72 | 2.75 | 6.41 | 3.80 | 8.20 | 4.95 | 9.51 | 5.64 | 11.07 | 6.19 | | | |
| | | | | 1.60 | 0.97 | 2.09 | 1.26 | 2.59 | 1.49 | 3.97 | 2.31 | 5.45 | 3.21 | 7.27 | 4.35 | 8.43 | 4.96 | 9.81 | 5.44 | | | |
| | | | | 1.34 | 0.81 | 1.59 | 0.95 | 2.00 | 1.16 | 2.99 | 1.74 | 3.91 | 2.29 | 5.68 | 3.35 | 6.59 | 3.82 | 7.67 | 4.19 | | | |
| 3 | 10 | 25 | 19 | 1.47 | 0.95 | 2.04 | 1.34 | 3.03 | 1.77 | 4.04 | 2.44 | 5.71 | 3.49 | 7.22 | 4.53 | 8.38 | 5.16 | 9.75 | 5.66 | | | |
| | | | | 1.30 | 0.84 | 1.73 | 1.11 | 2.28 | 1.34 | 3.43 | 2.07 | 4.90 | 2.97 | 6.46 | 3.99 | 7.49 | 4.55 | 8.72 | 4.99 | | | |
| | | | | 1.11 | 0.71 | 1.35 | 0.85 | 1.78 | 1.06 | 2.63 | 1.58 | 3.57 | 2.13 | 5.12 | 3.11 | 5.94 | 3.55 | 6.91 | 3.89 | | | |
| 5 | 8 | 25 | 19 | 1.91 | 1.14 | 2.61 | 1.58 | 3.49 | 2.00 | 4.77 | 2.77 | 6.28 | 3.74 | 8.07 | 4.89 | 9.36 | 5.57 | 10.89 | 6.11 | | | |
| | | | | 1.66 | 0.99 | 2.14 | 1.28 | 2.56 | 1.48 | 3.98 | 2.31 | 5.30 | 3.15 | 7.11 | 4.28 | 8.25 | 4.88 | 9.60 | 5.35 | | | |
| | | | | 1.37 | 0.82 | 1.60 | 0.96 | 1.96 | 1.14 | 2.96 | 1.73 | 3.76 | 2.22 | 5.51 | 3.28 | 6.39 | 3.74 | 7.44 | 4.10 | | | |
| 5 | 10 | 25 | 19 | 1.58 | 1.00 | 2.16 | 1.39 | 3.08 | 1.80 | 4.13 | 2.48 | 5.61 | 3.45 | 7.13 | 4.49 | 8.27 | 5.12 | 9.63 | 5.61 | | | |
| | | | | 1.38 | 0.87 | 1.80 | 1.14 | 2.29 | 1.35 | 3.48 | 2.09 | 4.79 | 2.92 | 6.34 | 3.95 | 7.35 | 4.50 | 8.56 | 4.94 | | | |
| | | | | 1.16 | 0.73 | 1.38 | 0.86 | 1.77 | 1.05 | 2.63 | 1.58 | 3.45 | 2.08 | 4.99 | 3.05 | 5.79 | 3.48 | 6.74 | 3.81 | | | |
| 5 | 12 | 25 | 19 | 1.19 | 0.84 | 1.66 | 1.19 | 2.59 | 1.58 | 3.40 | 2.17 | 4.86 | 3.13 | 6.08 | 4.06 | 7.05 | 4.63 | 8.21 | 5.08 | | | |
| | | | | 1.06 | 0.74 | 1.42 | 0.99 | 1.95 | 1.20 | 2.90 | 1.84 | 4.20 | 2.67 | 5.48 | 3.59 | 6.36 | 4.09 | 7.40 | 4.49 | | | |
| | | | | 0.91 | 0.63 | 1.13 | 0.73 | 1.53 | 0.65 | 2.24 | 1.41 | 3.09 | 1.92 | 4.39 | 2.80 | 5.09 | 3.19 | 5.93 | 3.50 | | | |
| 7 | 10 | 25 | 19 | 1.64 | 1.03 | 2.24 | 1.42 | 3.07 | 1.80 | 4.15 | 2.49 | 5.44 | 3.38 | 6.94 | 4.41 | 8.05 | 5.03 | 9.37 | 5.51 | | | |
| | | | | 1.43 | 0.78 | 1.84 | 1.16 | 2.25 | 1.33 | 3.47 | 2.03 | 4.61 | 2.84 | 6.15 | 3.87 | 7.13 | 4.41 | 8.30 | 4.84 | | | |
| | | | | 1.18 | 0.74 | 1.39 | 0.86 | 1.72 | 1.03 | 2.59 | 1.56 | 3.28 | 2.01 | 4.79 | 2.96 | 5.56 | 3.37 | 6.47 | 3.70 | | | |
| 7 | 12 | 25 | 19 | 1.29 | 0.88 | 1.77 | 1.23 | 2.63 | 1.59 | 3.47 | 2.20 | 4.73 | 3.08 | 5.95 | 4.01 | 6.90 | 4.57 | 8.03 | 5.01 | | | |
| | | | | 1.14 | 0.77 | 1.49 | 1.02 | 1.95 | 1.20 | 2.94 | 1.86 | 4.07 | 2.61 | 5.33 | 3.53 | 6.18 | 4.02 | 7.20 | 4.41 | | | |
| | | | | 0.96 | 0.65 | 1.15 | 0.77 | 1.51 | 0.94 | 2.24 | 1.41 | 2.96 | 1.87 | 4.23 | 2.73 | 4.91 | 3.11 | 5.71 | 3.41 | | | |
| 7 | 14 | 25 | 19 | 0.87 | 0.72 | 1.23 | 1.03 | 2.09 | 1.37 | 2.68 | 1.89 | 3.91 | 2.76 | 4.82 | 3.58 | 5.59 | 4.08 | 6.51 | 4.48 | | | |
| | | | | 0.78 | 0.64 | 1.08 | 0.86 | 1.59 | 1.05 | 2.31 | 1.60 | 3.42 | 2.36 | 4.39 | 3.17 | 5.09 | 3.67 | 5.93 | 3.96 | | | |
| | | | | 0.68 | 0.54 | 0.88 | 0.66 | 1.25 | 0.83 | 1.81 | 1.23 | 2.56 | 1.70 | 3.59 | 2.48 | 4.16 | 2.83 | 4.85 | 3.10 | | | |
| 9 | 12 | 25 | 19 | 1.35 | 0.91 | 1.83 | 1.26 | 2.61 | 1.59 | 3.48 | 2.21 | 4.54 | 3.00 | 5.73 | 3.92 | 6.65 | 4.47 | 7.74 | 4.90 | | | |
| | | | | 1.18 | 0.79 | 1.52 | 1.03 | 1.91 | 1.18 | 2.92 | 1.85 | 3.87 | 2.53 | 5.10 | 3.44 | 5.92 | 3.92 | 6.89 | 4.30 | | | |
| | | | | 0.98 | 0.66 | 1.15 | 0.77 | 1.46 | 0.91 | 2.18 | 1.38 | 2.77 | 1.79 | 4.01 | 2.64 | 4.65 | 3.01 | 5.41 | 3.30 | | | |
| 9 | 14 | 25 | 19 | 0.97 | 0.76 | 1.33 | 1.07 | 2.13 | 1.39 | 2.75 | 1.91 | 3.78 | 2.71 | 4.66 | 3.52 | 5.41 | 4.01 | 6.29 | 4.40 | | | |
| | | | | 0.86 | 0.67 | 1.14 | 0.88 | 1.59 | 1.05 | 2.34 | 1.62 | 3.27 | 2.30 | 4.22 | 3.10 | 4.90 | 3.53 | 5.70 | 3.88 | | | |
| | | | | 0.73 | 0.56 | 0.90 | 0.67 | 1.23 | 0.82 | 1.80 | 1.23 | 2.41 | 1.65 | 3.41 | 2.41 | 3.96 | 2.75 | 4.60 | 3.01 | | | |
| 9 | 16 | 25 | 19 | 0.59 | 0.59 | 0.86 | 0.86 | 1.52 | 1.15 | 1.87 | 1.59 | 2.86 | 2.37 | 3.42 | 3.07 | 3.97 | 3.50 | 4.62 | 3.84 | | | |
| | | | | 0.53 | 0.53 | 0.72 | 0.72 | 1.17 | 0.89 | 1.65 | 1.35 | 2.55 | 2.03 | 3.18 | 2.72 | 3.69 | 3.10 | 4.29 | 3.40 | | | |
| | | | | 0.45 | 0.45 | 0.60 | 0.56 | 0.93 | 0.70 | 1.32 | 1.05 | 1.96 | 1.48 | 2.69 | 2.14 | 3.12 | 2.44 | 3.63 | 2.68 | | | |
| 11 | 14 | 25 | 19 | 1.03 | 0.78 | 1.39 | 1.09 | 2.11 | 1.38 | 2.75 | 1.91 | 3.55 | 2.62 | 4.41 | 3.42 | 5.12 | 3.90 | 5.95 | 4.28 | | | |
| | | | | 0.90 | 0.68 | 1.16 | 0.89 | 1.54 | 1.03 | 2.31 | 1.60 | 3.05 | 2.21 | 3.96 | 3.00 | 4.59 | 3.42 | 5.35 | 3.75 | | | |
| | | | | 0.75 | 0.57 | 0.90 | 0.67 | 1.17 | 0.80 | 1.74 | 1.21 | 2.21 | 1.57 | 3.16 | 2.31 | 3.67 | 2.63 | 4.27 | 2.89 | | | |
| 11 | 16 | 25 | 19 | 0.63 | 0.63 | 0.90 | 0.90 | 1.57 | 1.17 | 1.95 | 1.61 | 2.71 | 2.32 | 3.24 | 3.00 | 3.76 | 3.42 | 4.37 | 3.75 | | | |
| | | | | 0.56 | 0.56 | 0.75 | 0.75 | 1.17 | 0.89 | 1.68 | 1.37 | 2.39 | 1.97 | 3.00 | 2.65 | 3.48 | 3.02 | 4.05 | 3.31 | | | |
| | | | | 0.48 | 0.47 | 0.62 | 0.57 | 0.91 | 0.70 | 1.31 | 1.05 | 1.81 | 1.42 | 2.50 | 2.07 | 2.90 | 2.36 | 3.38 | 2.59 | | | |
| 11 | 18 | 25 | 19 | 0.45 | 0.45 | 0.67 | 0.67 | 0.91 | 0.91 | 1.25 | 1.25 | 1.94 | 1.94 | 2.49 | 2.49 | 2.89 | 2.84 | 3.36 | 3.11 | | | |
| | | | | 0.40 | 0.40 | 0.56 | 0.56 | 0.71 | 0.71 | 1.08 | 1.08 | 1.68 | 1.67 | 2.23 | 2.23 | 2.59 | 2.54 | 3.01 | 2.79 | | | |
| | | | | 0.35 | 0.35 | 0.44 | 0.44 | 0.57 | 0.84 | 0.84 | 0.84 | 1.28 | 1.23 | 1.77 | 1.77 | 2.05 | 2.02 | 2.39 | 2.21 | | | |
| 3 | 6 | 27 | 19 | 2.17 | 1.40 | 2.96 | 1.94 | 3.95 | 2.44 | 5.40 | 3.40 | 7.05 | 4.56 | 9.06 | 5.97 | 10.51 | 6.81 | 12.23 | 7.46 | | | |
| | | | | 1.88 | 1.22 | 2.41 | 1.58 | 2.89 | 1.80 | 4.49 | 2.83 | 5.95 | 3.83 | 7.99 | 5.22 | 9.27 | 5.95 | 10.79 | 6.53 | | | |
| | | | | 1.55 | 1.01 | 1.80 | 1.17 | 2.20 | 1.39 | 3.33 | 2.11 | 4.20 | 2.69 | 6.17 | 3.99 | 7.16 | 4.55 | 8.33 | 4.99 | | | |
| 3 | 8 | 27 | 19 | 1.85 | 1.26 | 2.53 | 1.75 | 3.56 | 2.24 | 4.79 | 3.10 | 6.42 | 4.27 | 8.16 | 5.57 | 9.47 | 6.35 | 11.02 | 6.96 | | | |
| | | | | 1.62 | 1.10 | 2.10 | 1.43 | 2.63 | 1.67 | 4.02 | 2.60 | 5.47 | 3.61 | 7.25 | 4.89 | 8.41 | 5.57 | 9.79 | 6.11 | | | |
| | | | | 1.35 | 0.92 | 1.60 | 1.08 | 2.03 | 1.30 | 3.03 | 1.96 | 3.92 | 2.56 | 5.68 | 3.77 | 6.59 | 4.30 | 7.67 | 4.71 | | | |
| 3 | 10 | 27 | 19 | 1.50 | 1.11 | 2.06 | 1.56 | 3.12 | 2.03 | 4.13 | 2.80 | 5.74 | 3.97 | 7.20 | 5.16 | 8.35 | 5.88 | 9.72 | 6.45 | | | |
| | | | | 1.32 | 0.97 | 1.75 | 1.28 | 2.34 | 1.53 | 3.50 | 2.37 | 4.93 | 3.37 | 6.46 | 4.55 | 7.49 | 5.19 | 8.72 | 5.69 | | | |
| | | | | 1.12 | 0.82 | 1.37 | 0.98 | 1.82 | 1.20 | 2.68 | 1.80 | 3.60 | 2.41 | 5.15 | 3.53 | 5.97 | 4.02 | 6.95 | 4.41 | | | |
| 5 | 8 | 27 | 19 | 1.92 | 1.29 | 2.62 | 1.79 | 3.56 | 2.24 | 4.83 | 3.12 | 6.28 | 4.21 | 8.02 | 5.51 | 9.30 | 6.28 | 10.83 | 6.89 | | | |
| | | | | 1.67 | 1.12 | 2.14 | 1.45 | 2.60 | 1.66 | 4.03 | 2.60 | 5.31 | 3.54 | 7.09 | 4.82 | 8.22 | 5.49 | 9.57 | 6.03 | | | |
| | | | | 1.38 | 0.93 | 1.61 | 1.08 | 1.98 | 1.28 | 2.99 | 1.94 | 3.77 | 2.49 | 5.51 | 3.69 | 6.39 | 4.21 | 7.44 | 4.61 | | | |
| 5 | 10 | 27 | 19 | 1.60 | 1.15 | 2.18 | 1.60 | 3.16 | 2.05 | 4.21 | 2.84 | 5.63 | 3.92 | 7.10 | 5.12 | 8.24 | 5.84 | 9.59 | 6.40 | | | |
| | | | | 1.40 | 1.01 | 1.82 | 1.31 | 2.34 | 1.53 | 3.54 | 2.38 | 4.81 | 3.32 | 6.34 | 4.49 | 7.35 | 5.12 | 8.56 | 5.61 | | | |
| | | | | 1.17 | 0.84 | 1.40 | 0.99 | 1.80 | 1.19 | 2.67 | 1.80 | 3.47 | 2.36 | 5.00 | 3.46 | 5.80 | 3.94 | 6.75 | 4.33 | | | |
| 5 | 12 | 27 | 19 | 1.22 | 1.00 | 1.68 | 1.41 | 2.70 | 1.84 | 3.51 | 2.53 | 4.90 | 3.62 | 6.08 | 4.70 | 7.05 | 5.36 | 8.21 | 5.88 | | | |
| | | | | 1.09 | 0.88 | 1.45 | 1.17 | 2.02 | 1.39 | 2.99 | 2.14 | 4.24 | 3.07 | 5.50 | 4.15 | 6.38 | 4.73 | 7.43 | 5.19 | | | |
| | | | | 0.93 | 0.74 | 1.15 | 0.89 | 1.57 | 1.09 | 2.30 | 1.63 | 3.13 | 2.21 | 4.43 | 3.22 | 5.14 | 3.67 | 5.98 | 4.03 | | | |
| 7 | 10 | 27 | 19 | 1.66 | 1.18 | 2.25 | 1.63 | 3.15 | 2.04 | 4.23 | 2.85 | 5.945 | 3.85 | 6.91 | 5.04 | 8.02 | 5.75 | 9.33 | 6.30 | | | |
| | | | | 1.44 | 1.02 | 1.85 | 1.33 | 2.29 | 1.51 | 3.52 | 2.37 | 4.63 | 3.24 | 6.13 | 4.41 | 7.11 | 5.03 | 8.28 | 5.51 | | | |
| | | | | 1.19 | 0.85 | 1.39 | 0.99 | 1.74 | 1.17 | 2.62 | 1.77 | 3.30 | 2.28 | 4.79 | 3.37 | 5.56 | 3.84 | 6.47 | 4.21 | | | |
| 7 | 12 | 27 | 19 | 1.32 | | | | | | | | | | | | | | | | | | |

Technical Data At Conditions Non Standard

| 2 PIPES | | | | | 3 ROWS | | | | | | | | | | | | | | |
|-------------------------|--------------------------|-----------------------|-----------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| | | | | 012 | | 020 | | 025 | | 035 | | 050 | | 060 | | 080 | | 090 | |
| Water Temperature IN | Water Temperature Out | Air Temperature DB | Air Temperature WB | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | |
| | | | | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] |
| °C | °C | °C | °C | | | | | | | | | | | | | | | | |
| 3 | 6 | 29 | 21 | 2.56 | 1.51 | 3.50 | 2.08 | 4.59 | 2.62 | 6.32 | 3.64 | 8.26 | 4.86 | 10.68 | 6.36 | 12.39 | 7.25 | 14.42 | 7.95 |
| | | | | 2.22 | 1.30 | 2.85 | 1.68 | 3.35 | 1.92 | 5.25 | 3.03 | 6.95 | 4.08 | 9.39 | 5.56 | 10.89 | 6.34 | 12.68 | 6.95 |
| | | | | 1.83 | 1.08 | 2.12 | 1.25 | 2.56 | 1.48 | 3.89 | 2.25 | 4.89 | 2.86 | 7.21 | 4.24 | 8.36 | 4.83 | 9.73 | 5.30 |
| 3 | 8 | 29 | 21 | 2.26 | 1.37 | 3.09 | 1.90 | 4.21 | 2.43 | 5.73 | 3.36 | 7.66 | 4.58 | 9.80 | 5.98 | 11.37 | 6.82 | 13.23 | 7.48 |
| | | | | 1.97 | 1.19 | 2.54 | 1.55 | 3.11 | 1.80 | 4.80 | 2.81 | 6.49 | 3.86 | 8.68 | 5.24 | 10.07 | 5.97 | 11.72 | 6.55 |
| | | | | 1.64 | 0.99 | 1.92 | 1.16 | 2.40 | 1.40 | 3.60 | 2.11 | 4.62 | 2.73 | 6.74 | 4.03 | 7.82 | 4.59 | 9.10 | 5.04 |
| 3 | 10 | 29 | 21 | 1.92 | 1.23 | 2.64 | 1.71 | 3.80 | 2.23 | 5.10 | 3.07 | 7.00 | 4.30 | 8.89 | 5.59 | 10.31 | 6.37 | 12.00 | 6.99 |
| | | | | 1.69 | 1.07 | 2.21 | 1.41 | 2.83 | 1.67 | 4.31 | 2.59 | 5.98 | 3.64 | 7.92 | 4.92 | 9.19 | 5.61 | 10.69 | 6.15 |
| | | | | 1.42 | 0.90 | 1.70 | 1.07 | 2.20 | 1.31 | 3.27 | 1.96 | 4.32 | 2.60 | 6.23 | 3.80 | 7.23 | 4.33 | 8.41 | 4.75 |
| 5 | 8 | 29 | 21 | 2.33 | 1.40 | 3.17 | 1.93 | 4.21 | 2.42 | 5.77 | 3.38 | 7.51 | 4.52 | 9.67 | 5.92 | 11.22 | 6.75 | 13.05 | 7.40 |
| | | | | 2.01 | 1.21 | 2.58 | 1.56 | 3.08 | 1.78 | 4.80 | 2.81 | 6.33 | 3.79 | 8.52 | 5.17 | 9.88 | 5.89 | 11.50 | 6.46 |
| | | | | 1.66 | 1.00 | 1.92 | 1.16 | 2.35 | 1.37 | 3.56 | 2.09 | 4.47 | 2.66 | 6.57 | 3.95 | 7.62 | 4.50 | 8.87 | 4.94 |
| 5 | 10 | 29 | 21 | 2.02 | 1.27 | 2.75 | 1.76 | 3.63 | 2.24 | 5.17 | 3.10 | 6.89 | 4.25 | 8.78 | 5.55 | 10.18 | 6.33 | 11.85 | 6.94 |
| | | | | 1.76 | 1.10 | 2.27 | 1.43 | 2.83 | 1.67 | 4.33 | 2.60 | 5.86 | 3.58 | 7.79 | 4.86 | 9.04 | 5.54 | 10.52 | 6.08 |
| | | | | 1.47 | 0.92 | 1.73 | 1.07 | 2.17 | 1.29 | 3.25 | 1.95 | 4.19 | 2.54 | 6.08 | 3.74 | 7.05 | 4.26 | 8.21 | 4.68 |
| 5 | 12 | 29 | 21 | 1.66 | 1.12 | 2.29 | 1.57 | 3.39 | 2.04 | 4.50 | 2.82 | 6.20 | 3.96 | 7.81 | 5.16 | 9.06 | 5.88 | 10.54 | 6.45 |
| | | | | 1.46 | 0.98 | 1.93 | 1.30 | 2.53 | 1.54 | 3.81 | 2.37 | 5.32 | 3.36 | 6.99 | 4.54 | 8.11 | 5.18 | 9.44 | 5.68 |
| | | | | 1.24 | 0.83 | 1.50 | 0.98 | 1.97 | 1.20 | 2.90 | 1.80 | 3.87 | 2.40 | 5.54 | 3.51 | 6.43 | 4.00 | 7.48 | 4.39 |
| 7 | 10 | 29 | 21 | 2.07 | 1.29 | 2.82 | 1.78 | 3.81 | 2.23 | 5.18 | 3.11 | 6.71 | 4.17 | 8.59 | 5.47 | 9.96 | 6.24 | 11.60 | 6.84 |
| | | | | 1.79 | 1.12 | 2.30 | 1.44 | 2.78 | 1.64 | 4.31 | 2.59 | 5.67 | 3.50 | 7.58 | 4.78 | 8.79 | 5.45 | 10.23 | 5.98 |
| | | | | 1.48 | 0.92 | 1.72 | 1.07 | 2.11 | 1.27 | 3.20 | 1.93 | 4.01 | 2.46 | 5.87 | 3.65 | 6.81 | 4.16 | 7.92 | 4.56 |
| 7 | 12 | 29 | 21 | 1.74 | 1.16 | 2.38 | 1.61 | 3.41 | 2.05 | 4.55 | 2.84 | 6.05 | 3.90 | 7.65 | 5.10 | 8.87 | 5.81 | 10.33 | 6.38 |
| | | | | 1.52 | 1.01 | 1.98 | 1.31 | 2.51 | 1.53 | 3.82 | 2.38 | 5.16 | 3.30 | 6.82 | 4.47 | 7.91 | 5.10 | 9.21 | 5.59 |
| | | | | 1.27 | 0.84 | 1.51 | 0.99 | 1.93 | 1.19 | 2.88 | 1.79 | 3.72 | 2.34 | 5.37 | 3.44 | 6.23 | 3.92 | 7.25 | 4.30 |
| 7 | 14 | 29 | 21 | 1.37 | 1.01 | 1.89 | 1.43 | 2.94 | 1.85 | 3.84 | 2.55 | 5.32 | 3.62 | 6.62 | 4.71 | 7.88 | 5.37 | 8.94 | 5.89 |
| | | | | 1.21 | 0.89 | 1.61 | 1.18 | 2.20 | 1.39 | 3.27 | 2.15 | 4.59 | 3.07 | 5.97 | 4.15 | 6.93 | 4.73 | 8.06 | 5.19 |
| | | | | 1.03 | 0.75 | 1.27 | 0.89 | 1.71 | 1.09 | 2.50 | 1.64 | 3.37 | 2.20 | 4.79 | 3.20 | 5.56 | 3.65 | 6.47 | 4.00 |
| 9 | 12 | 29 | 21 | 1.79 | 1.17 | 2.43 | 1.63 | 3.37 | 2.03 | 4.54 | 2.83 | 5.84 | 3.82 | 7.41 | 5.00 | 8.60 | 5.70 | 10.00 | 6.25 |
| | | | | 1.55 | 1.01 | 1.99 | 1.32 | 2.45 | 1.50 | 3.78 | 2.36 | 4.95 | 3.21 | 6.58 | 4.38 | 7.63 | 4.99 | 8.88 | 5.48 |
| | | | | 1.28 | 0.84 | 1.50 | 0.98 | 1.86 | 1.16 | 2.81 | 1.76 | 3.52 | 2.26 | 5.13 | 3.35 | 5.95 | 3.82 | 6.93 | 4.19 |
| 9 | 14 | 29 | 21 | 1.45 | 1.04 | 1.97 | 1.46 | 2.95 | 1.85 | 3.88 | 2.56 | 5.15 | 3.55 | 6.43 | 4.63 | 7.46 | 5.28 | 8.68 | 5.79 |
| | | | | 1.27 | 0.91 | 1.65 | 1.19 | 2.17 | 1.38 | 3.27 | 2.15 | 4.42 | 3.00 | 5.77 | 4.07 | 6.69 | 4.64 | 7.79 | 5.09 |
| | | | | 1.07 | 0.76 | 1.28 | 0.90 | 1.67 | 1.08 | 2.47 | 1.63 | 3.21 | 2.13 | 4.59 | 3.14 | 5.32 | 3.58 | 6.20 | 3.93 |
| 9 | 16 | 29 | 21 | 1.04 | 0.90 | 1.44 | 1.27 | 2.43 | 1.65 | 3.11 | 2.27 | 4.35 | 3.26 | 5.32 | 4.24 | 6.17 | 4.83 | 7.18 | 5.30 |
| | | | | 0.93 | 0.79 | 1.26 | 1.05 | 1.82 | 1.25 | 2.67 | 1.93 | 3.79 | 2.77 | 4.86 | 3.74 | 5.64 | 4.26 | 6.56 | 4.68 |
| | | | | 0.80 | 0.67 | 1.01 | 0.80 | 1.42 | 0.98 | 2.06 | 1.47 | 2.83 | 1.99 | 3.97 | 2.90 | 4.61 | 3.31 | 5.36 | 3.63 |
| 11 | 14 | 29 | 21 | 1.49 | 1.06 | 2.01 | 1.47 | 2.90 | 1.83 | 3.85 | 2.55 | 4.90 | 3.46 | 6.15 | 4.53 | 7.13 | 5.16 | 8.30 | 5.66 |
| | | | | 1.29 | 0.92 | 1.66 | 1.19 | 2.10 | 1.36 | 3.21 | 2.13 | 4.17 | 2.91 | 5.49 | 3.97 | 6.37 | 4.53 | 7.41 | 4.96 |
| | | | | 1.07 | 0.76 | 1.25 | 0.89 | 1.59 | 1.05 | 2.39 | 1.59 | 2.99 | 2.05 | 4.32 | 3.04 | 5.01 | 3.47 | 5.83 | 3.80 |
| 11 | 16 | 29 | 21 | 1.12 | 0.93 | 1.52 | 1.30 | 2.44 | 1.65 | 3.13 | 2.28 | 4.16 | 3.19 | 5.10 | 4.16 | 5.92 | 4.74 | 6.89 | 5.20 |
| | | | | 0.99 | 0.81 | 1.30 | 1.06 | 1.80 | 1.24 | 2.66 | 1.92 | 3.60 | 2.70 | 4.62 | 3.65 | 5.36 | 4.16 | 6.24 | 4.56 |
| | | | | 1.83 | 0.68 | 1.02 | 0.80 | 1.38 | 0.97 | 2.02 | 1.45 | 2.65 | 1.92 | 3.74 | 2.82 | 4.34 | 3.21 | 5.05 | 3.53 |
| 11 | 18 | 29 | 21 | 1.77 | 1.10 | 1.10 | 1.10 | 1.87 | 1.44 | 2.29 | 1.99 | 3.28 | 2.88 | 3.89 | 3.75 | 4.51 | 4.28 | 5.25 | 4.69 |
| | | | | 0.68 | 0.68 | 0.92 | 0.92 | 1.41 | 1.10 | 1.99 | 1.69 | 2.91 | 2.46 | 3.62 | 3.31 | 4.20 | 3.77 | 4.89 | 4.14 |
| | | | | 0.58 | 0.58 | 0.73 | 0.70 | 1.10 | 0.87 | 1.57 | 1.29 | 2.22 | 1.77 | 3.05 | 2.58 | 3.54 | 2.94 | 4.12 | 3.23 |
| 3 | 6 | 31 | 23 | 2.98 | 1.59 | 4.08 | 2.20 | 5.26 | 2.77 | 7.30 | 3.86 | 9.54 | 5.11 | 12.39 | 6.70 | 14.37 | 7.64 | 16.73 | 8.38 |
| | | | | 2.57 | 1.38 | 3.30 | 1.77 | 3.85 | 2.03 | 6.05 | 3.30 | 8.01 | 4.28 | 10.85 | 5.84 | 12.59 | 6.66 | 14.65 | 7.30 |
| | | | | 2.12 | 1.14 | 2.44 | 1.31 | 2.94 | 1.56 | 4.47 | 2.37 | 5.61 | 2.99 | 8.30 | 4.45 | 9.83 | 5.07 | 11.21 | 5.56 |
| 3 | 8 | 31 | 23 | 2.69 | 1.46 | 3.68 | 2.02 | 4.90 | 2.59 | 6.73 | 3.59 | 8.95 | 4.85 | 11.54 | 6.33 | 13.39 | 7.22 | 15.58 | 7.91 |
| | | | | 2.33 | 1.27 | 3.01 | 1.65 | 3.62 | 1.92 | 5.61 | 2.99 | 7.56 | 4.08 | 10.16 | 5.54 | 11.79 | 6.32 | 13.72 | 6.93 |
| | | | | 1.94 | 1.06 | 2.26 | 1.48 | 2.78 | 1.48 | 4.19 | 2.24 | 5.35 | 3.88 | 7.85 | 4.25 | 9.11 | 4.85 | 10.60 | 5.31 |
| 3 | 10 | 31 | 23 | 2.39 | 1.30 | 3.25 | 1.85 | 4.51 | 2.40 | 6.12 | 3.31 | 8.33 | 4.58 | 10.66 | 5.97 | 12.37 | 6.81 | 14.39 | 7.46 |
| | | | | 2.07 | 1.16 | 2.69 | 1.52 | 3.35 | 1.79 | 5.14 | 2.78 | 7.08 | 3.87 | 9.44 | 5.24 | 10.95 | 5.97 | 12.74 | 6.55 |
| | | | | 1.73 | 0.97 | 2.05 | 1.14 | 2.60 | 1.40 | 3.88 | 2.10 | 5.07 | 2.75 | 7.36 | 4.04 | 8.54 | 4.61 | 9.94 | 5.05 |
| 5 | 8 | 31 | 23 | 2.75 | 1.49 | 3.76 | 2.06 | 4.90 | 2.59 | 6.76 | 3.60 | 8.80 | 4.79 | 11.40 | 6.27 | 13.22 | 7.15 | 15.39 | 7.84 |
| | | | | 2.37 | 1.29 | 3.04 | 1.66 | 3.58 | 1.90 | 5.61 | 2.99 | 7.40 | 4.01 | 10.00 | 5.48 | 11.60 | 6.25 | 13.50 | 6.85 |
| | | | | 1.95 | 1.06 | 2.26 | 1.23 | 2.73 | 1.46 | 4.15 | 2.22 | 5.19 | 2.81 | 7.67 | 4.17 | 8.90 | 4.75 | 10.35 | 5.21 |
| 5 | 10 | 31 | 23 | 2.45 | 1.37 | 3.35 | 1.89 | 4.53 | 2.41 | 6.18 | 4.53 | 8.21 | 4.53 | 10.54 | 5.92 | 12.23 | 6.75 | 14.23 | 7.40 |
| | | | | 2.13 | 1.19 | 2.75 | 1.54 | 3.34 | 1.79 | 4.16 | 2.79 | 6.94 | 3.82 | 9.30 | 5.19 | 10.79 | 5.92 | 12.56 | 6.49 |
| | | | | 1.77 | 0.99 | 2.07 | 1.15 | 2.57 | 1.38 | 3.83 | 2.09 | 4.93 | 2.69 | 7.21 | 3.97 | 8.36 | 4.53 | 9.73 | 4.96 |
| 5 | 12 | 31 | 23 | 2.11 | 1.23 | 2.90 | 1.72 | 4.12 | 2.22 | 5.54 | 3.07 | 7.55 | 4.27 | 9.61 | 5.56 | 11 | | | |

Technical Data At Conditions Non Standard

2 PIPES **3 ROWS**

| Water Temperature | | Air Temperature | | 412 | | 420 | | 425 | | 435 | | 450 | | 460 | | 480 | | 490 | | | |
|-------------------|-----|-----------------|----|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------|------|
| IN | Out | DB | WB | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | | |
| °C | °C | °C | °C | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | Total | Sens | | |
| | | | | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | [kW] | | |
| 3 | 6 | 21 | 15 | 1.51 | 1.04 | 2.13 | 1.59 | 2.95 | 1.97 | 3.93 | 2.68 | 5.05 | 3.54 | 6.32 | 4.68 | 7.02 | 5.19 | 8.22 | 5.48 | 1.30 | 0.90 |
| | | | | 1.08 | 0.75 | 1.50 | 1.09 | 1.73 | 1.17 | 2.36 | 1.62 | 3.03 | 2.12 | 4.34 | 3.12 | 4.82 | 3.46 | 5.64 | 3.65 | 1.30 | 0.90 |
| | | | | 1.25 | 0.91 | 1.69 | 1.39 | 2.62 | 1.80 | 3.34 | 2.38 | 4.47 | 3.26 | 5.47 | 4.29 | 6.07 | 4.76 | 7.11 | 5.02 | 1.09 | 0.79 |
| 3 | 8 | 21 | 15 | 0.91 | 0.67 | 1.25 | 0.97 | 1.57 | 1.09 | 2.06 | 1.48 | 2.77 | 1.98 | 3.88 | 2.91 | 4.31 | 3.23 | 5.04 | 3.40 | 0.91 | 0.67 |
| | | | | 0.93 | 0.76 | 1.19 | 1.18 | 2.22 | 1.60 | 2.63 | 2.05 | 3.77 | 2.93 | 4.48 | 3.85 | 4.97 | 4.27 | 5.82 | 4.50 | 0.82 | 0.67 |
| | | | | 0.82 | 0.67 | 1.12 | 1.06 | 1.73 | 1.25 | 2.24 | 1.74 | 3.25 | 2.49 | 4.08 | 3.40 | 4.53 | 3.77 | 5.30 | 3.98 | 0.70 | 0.57 |
| 5 | 8 | 21 | 15 | 1.27 | 0.92 | 1.73 | 1.41 | 2.53 | 1.75 | 3.32 | 2.37 | 4.25 | 3.15 | 5.20 | 4.17 | 5.77 | 4.63 | 6.76 | 4.88 | 1.09 | 0.80 |
| | | | | 0.91 | 0.67 | 1.24 | 0.97 | 1.48 | 1.04 | 1.99 | 1.44 | 2.57 | 1.89 | 3.62 | 2.79 | 4.02 | 3.10 | 4.71 | 3.26 | 0.99 | 0.79 |
| | | | | 0.99 | 0.79 | 1.28 | 1.21 | 2.17 | 1.58 | 2.69 | 2.08 | 3.62 | 2.86 | 4.30 | 3.77 | 4.77 | 4.18 | 5.59 | 4.41 | 0.86 | 0.69 |
| 5 | 10 | 21 | 15 | 0.73 | 0.58 | 0.97 | 0.85 | 1.31 | 0.96 | 1.68 | 1.30 | 2.28 | 1.75 | 3.13 | 2.56 | 3.47 | 2.84 | 4.07 | 3.00 | 0.64 | 0.64 |
| | | | | 0.57 | 0.56 | 0.89 | 0.89 | 1.36 | 1.08 | 1.64 | 1.47 | 2.48 | 2.14 | 2.98 | 2.93 | 3.31 | 3.25 | 3.87 | 3.43 | 0.49 | 0.48 |
| | | | | 1.01 | 0.80 | 1.30 | 1.23 | 2.07 | 1.53 | 2.65 | 2.06 | 3.37 | 2.75 | 3.99 | 3.64 | 4.43 | 4.04 | 5.19 | 4.26 | 0.87 | 0.69 |
| 7 | 10 | 21 | 15 | 0.72 | 0.58 | 0.96 | 0.85 | 1.20 | 0.91 | 1.59 | 1.26 | 2.06 | 1.65 | 2.84 | 2.44 | 3.15 | 2.71 | 3.69 | 2.85 | 0.70 | 0.66 |
| | | | | 0.61 | 0.58 | 0.91 | 0.91 | 1.29 | 1.05 | 1.66 | 1.48 | 2.32 | 2.08 | 2.84 | 2.84 | 3.15 | 3.15 | 3.69 | 3.32 | 0.52 | 0.49 |
| | | | | 0.49 | 0.49 | 0.77 | 0.77 | 1.15 | 1.12 | 1.37 | 1.37 | 2.06 | 2.06 | 2.69 | 2.69 | 2.99 | 2.99 | 3.50 | 3.15 | 0.44 | 0.44 |
| 7 | 14 | 21 | 15 | 0.38 | 0.38 | 0.57 | 0.57 | 1.74 | 0.71 | 0.90 | 0.90 | 0.31 | 1.31 | 1.89 | 1.89 | 2.10 | 2.10 | 2.46 | 2.21 | 0.72 | 0.67 |
| | | | | 0.62 | 0.67 | 1.02 | 1.02 | 1.56 | 1.30 | 1.92 | 1.74 | 2.41 | 2.34 | 3.06 | 3.06 | 3.40 | 3.40 | 3.98 | 3.58 | 0.62 | 0.58 |
| | | | | 0.51 | 0.49 | 0.71 | 0.71 | 0.91 | 0.78 | 1.16 | 1.07 | 1.51 | 1.41 | 2.08 | 2.08 | 2.31 | 2.31 | 2.70 | 2.43 | 0.52 | 0.52 |
| 9 | 12 | 21 | 15 | 0.46 | 0.46 | 0.72 | 0.72 | 0.87 | 0.87 | 1.19 | 1.19 | 1.70 | 1.70 | 2.31 | 2.31 | 2.56 | 2.56 | 3.00 | 2.70 | 0.39 | 0.39 |
| | | | | 0.34 | 0.34 | 0.55 | 0.55 | 0.84 | 0.84 | 0.98 | 0.98 | 1.56 | 1.56 | 2.04 | 2.04 | 2.26 | 2.26 | 2.65 | 2.39 | 0.30 | 0.30 |
| | | | | 0.26 | 0.26 | 0.41 | 0.41 | 0.54 | 0.54 | 0.65 | 0.65 | 1.01 | 1.01 | 1.45 | 1.45 | 1.61 | 1.61 | 1.99 | 1.70 | 0.53 | 0.53 |
| 11 | 14 | 21 | 15 | 0.46 | 0.46 | 0.72 | 0.72 | 0.82 | 0.82 | 1.16 | 1.16 | 1.59 | 1.59 | 2.17 | 2.17 | 2.41 | 2.41 | 2.82 | 2.54 | 0.39 | 0.39 |
| | | | | 0.37 | 0.37 | 0.58 | 0.58 | 0.83 | 0.83 | 1.02 | 1.02 | 1.51 | 1.51 | 1.97 | 1.97 | 2.19 | 2.19 | 2.56 | 2.30 | 0.33 | 0.33 |
| | | | | 0.28 | 0.28 | 0.42 | 0.42 | 0.52 | 0.52 | 0.66 | 0.66 | 0.96 | 0.96 | 1.38 | 1.38 | 1.53 | 1.53 | 1.79 | 1.61 | 0.16 | 0.16 |
| 11 | 18 | 21 | 15 | 0.15 | 0.15 | 0.28 | 0.28 | 0.42 | 0.42 | 0.46 | 0.46 | 0.86 | 0.86 | 1.19 | 1.19 | 1.32 | 1.32 | 1.55 | 1.39 | 0.13 | 0.13 |
| | | | | 1.86 | 1.15 | 2.67 | 1.76 | 3.56 | 2.18 | 4.81 | 2.98 | 6.18 | 3.90 | 7.86 | 5.16 | 8.72 | 5.73 | 10.22 | 6.12 | 1.59 | 0.99 |
| | | | | 1.59 | 0.99 | 2.38 | 1.56 | 2.70 | 1.66 | 3.98 | 2.47 | 5.18 | 3.26 | 6.92 | 4.51 | 7.68 | 5.01 | 9.00 | 5.28 | 1.32 | 0.83 |
| 3 | 6 | 23 | 17 | 1.61 | 1.03 | 2.26 | 1.58 | 3.25 | 2.02 | 4.25 | 2.69 | 5.63 | 3.64 | 7.05 | 4.79 | 7.83 | 5.32 | 9.17 | 5.60 | 1.39 | 0.90 |
| | | | | 1.17 | 0.76 | 1.63 | 1.10 | 1.94 | 1.21 | 2.60 | 1.66 | 3.44 | 2.20 | 4.90 | 3.23 | 5.44 | 3.59 | 6.37 | 3.78 | 1.31 | 0.90 |
| | | | | 1.15 | 0.78 | 1.64 | 1.24 | 2.24 | 1.43 | 3.03 | 2.01 | 4.26 | 2.83 | 5.50 | 3.87 | 6.11 | 4.30 | 7.15 | 4.53 | 0.98 | 0.67 |
| 3 | 10 | 23 | 17 | 1.62 | 1.04 | 2.29 | 1.59 | 3.15 | 1.97 | 4.21 | 2.68 | 5.40 | 3.53 | 6.77 | 4.67 | 7.51 | 5.18 | 8.80 | 5.46 | 1.39 | 0.90 |
| | | | | 1.16 | 0.75 | 1.61 | 1.09 | 1.84 | 1.16 | 2.52 | 1.65 | 3.23 | 2.10 | 4.63 | 3.11 | 5.14 | 3.45 | 6.02 | 3.64 | 1.37 | 0.92 |
| | | | | 1.18 | 0.80 | 1.87 | 1.26 | 2.17 | 1.40 | 3.03 | 2.01 | 4.08 | 2.75 | 5.29 | 3.78 | 5.87 | 4.20 | 6.88 | 4.42 | 0.99 | 0.67 |
| 5 | 12 | 23 | 17 | 1.04 | 0.78 | 1.36 | 1.21 | 2.42 | 1.62 | 2.90 | 2.08 | 4.11 | 2.95 | 4.91 | 3.88 | 5.45 | 4.31 | 6.38 | 4.54 | 0.92 | 0.68 |
| | | | | 0.78 | 0.58 | 1.06 | 0.86 | 1.49 | 1.00 | 1.86 | 1.32 | 2.62 | 1.83 | 3.61 | 2.66 | 4.01 | 2.95 | 4.69 | 3.11 | 1.37 | 0.92 |
| | | | | 1.18 | 0.80 | 1.69 | 1.25 | 2.05 | 1.34 | 2.95 | 1.98 | 3.83 | 2.63 | 4.97 | 3.64 | 5.52 | 4.04 | 6.46 | 4.26 | 0.98 | 0.67 |
| 7 | 10 | 23 | 17 | 1.09 | 0.80 | 1.42 | 1.23 | 2.35 | 1.59 | 2.93 | 2.09 | 3.92 | 2.87 | 4.67 | 3.78 | 5.18 | 4.20 | 6.07 | 4.42 | 0.95 | 0.70 |
| | | | | 0.80 | 0.59 | 1.07 | 0.86 | 1.41 | 0.96 | 1.82 | 1.30 | 2.45 | 1.75 | 3.38 | 2.57 | 3.75 | 2.85 | 4.39 | 3.01 | 0.73 | 0.65 |
| | | | | 0.73 | 0.65 | 1.01 | 1.01 | 1.89 | 1.39 | 2.13 | 1.76 | 3.12 | 2.54 | 3.56 | 3.34 | 3.95 | 3.71 | 4.63 | 3.91 | 0.65 | 0.57 |
| 7 | 14 | 23 | 17 | 0.56 | 0.49 | 0.74 | 0.74 | 1.18 | 0.86 | 1.40 | 1.13 | 2.06 | 2.59 | 2.74 | 2.31 | 3.04 | 2.56 | 3.56 | 2.70 | 1.09 | 0.80 |
| | | | | 0.94 | 0.69 | 1.29 | 1.09 | 1.68 | 1.17 | 2.37 | 1.72 | 3.06 | 2.31 | 3.86 | 3.19 | 4.28 | 3.54 | 5.02 | 3.73 | 0.78 | 0.58 |
| | | | | 0.78 | 0.67 | 1.03 | 1.03 | 1.82 | 1.36 | 2.16 | 1.77 | 2.92 | 2.46 | 3.30 | 3.25 | 3.66 | 3.61 | 4.29 | 3.80 | 0.78 | 0.67 |
| 9 | 14 | 23 | 17 | 0.68 | 0.59 | 0.93 | 0.93 | 1.41 | 1.06 | 1.82 | 1.49 | 2.52 | 2.08 | 3.04 | 2.86 | 3.37 | 3.17 | 3.95 | 3.35 | 0.58 | 0.50 |
| | | | | 0.51 | 0.51 | 0.80 | 0.80 | 1.29 | 1.14 | 1.41 | 1.41 | 2.10 | 2.10 | 2.74 | 2.74 | 3.04 | 3.04 | 3.56 | 3.21 | 0.45 | 0.45 |
| | | | | 0.39 | 0.39 | 0.58 | 0.58 | 0.82 | 0.72 | 0.92 | 0.92 | 1.41 | 1.33 | 1.92 | 1.92 | 2.13 | 2.13 | 2.50 | 2.25 | 1.03 | 1.03 |
| 11 | 14 | 23 | 17 | 0.92 | 0.92 | 1.27 | 1.00 | 1.73 | 1.46 | 2.23 | 1.97 | 2.71 | 2.70 | 3.68 | 0.59 | 0.75 | 0.65 | 0.88 | 0.69 | 0.72 | 0.72 |
| | | | | 0.54 | 0.54 | 0.82 | 0.82 | 1.22 | 1.12 | 1.43 | 1.43 | 2.02 | 2.02 | 2.64 | 2.64 | 2.93 | 2.93 | 3.43 | 3.09 | 0.47 | 0.47 |
| | | | | 0.40 | 0.40 | 0.59 | 0.59 | 0.75 | 0.69 | 0.91 | 0.91 | 1.26 | 1.26 | 1.83 | 1.83 | 2.03 | 2.03 | 2.38 | 2.14 | 0.40 | 0.40 |
| 11 | 18 | 23 | 17 | 0.35 | 0.35 | 0.57 | 0.57 | 0.86 | 0.86 | 1.01 | 1.01 | 1.59 | 1.59 | 2.08 | 2.08 | 2.31 | 2.31 | 2.70 | 2.43 | 0.32 | 0.32 |
| | | | | 0.27 | 0.27 | 0.43 | 0.43 | 0.55 | 0.55 | 0.67 | 0.67 | 1.03 | 1.03 | 1.48 | 1.48 | 1.64 | 1.64 | 1.92 | 1.73 | 0.27 | 0.27 |

Technical Data At Conditions Non Standard

| | | 2 PIPES | | | | 3 ROWS | | | | | | | | | | | | | | | |
|-------------------------------|--------------------------------|-----------------------------|-----------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|-----|--|
| | | | | | | 412 | | 420 | | 425 | | 435 | | 450 | | 460 | | 480 | | 490 | |
| Water Temperature IN °C | Water Temperature OUT °C | Air Temperature DB °C | Air Temperature WB °C | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | | |
| | | | | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | | |
| 3 | 6 | 25 | 19 | 2.21 | 1.26 | 3.24 | 1.92 | 4.19 | 2.37 | 5.73 | 3.25 | 7.37 | 4.23 | 9.48 | 5.59 | 10.52 | 6.20 | 12.32 | 6.54 | | |
| | | | | 1.90 | 1.08 | 2.88 | 1.70 | 3.18 | 1.80 | 4.73 | 2.69 | 6.16 | 3.53 | 8.32 | 4.88 | 9.24 | 5.42 | 10.82 | 5.71 | | |
| | | | | 1.58 | 0.90 | 2.23 | 1.31 | 2.45 | 1.39 | 3.41 | 1.95 | 4.37 | 2.51 | 6.36 | 3.71 | 7.06 | 4.12 | 8.27 | 4.34 | | |
| 3 | 8 | 25 | 19 | 1.98 | 1.15 | 2.88 | 1.75 | 3.91 | 2.22 | 5.19 | 2.98 | 6.85 | 3.99 | 8.70 | 5.25 | 9.66 | 5.83 | 11.31 | 6.14 | | |
| | | | | 1.72 | 0.99 | 2.56 | 1.55 | 2.99 | 1.70 | 4.33 | 2.49 | 5.76 | 3.35 | 7.69 | 4.60 | 8.54 | 5.11 | 10.00 | 5.38 | | |
| | | | | 1.44 | 0.83 | 2.02 | 1.21 | 2.32 | 1.33 | 3.16 | 1.82 | 4.14 | 2.40 | 5.96 | 3.52 | 6.62 | 3.91 | 7.75 | 4.12 | | |
| 3 | 10 | 25 | 19 | 1.71 | 1.02 | 2.42 | 1.56 | 3.56 | 2.05 | 4.58 | 2.69 | 6.25 | 3.71 | 7.83 | 4.87 | 8.69 | 5.41 | 10.18 | 5.70 | | |
| | | | | 1.49 | 0.89 | 2.19 | 1.40 | 2.76 | 1.59 | 3.85 | 2.26 | 5.30 | 3.13 | 6.98 | 4.29 | 7.75 | 4.76 | 9.07 | 5.02 | | |
| | | | | 1.26 | 0.75 | 1.76 | 1.10 | 2.16 | 1.25 | 2.85 | 1.68 | 3.86 | 2.27 | 5.48 | 3.31 | 6.08 | 3.67 | 7.12 | 3.87 | | |
| 5 | 8 | 25 | 19 | 1.99 | 1.15 | 2.88 | 1.76 | 3.80 | 2.16 | 5.15 | 2.96 | 6.60 | 3.87 | 8.41 | 5.12 | 9.34 | 5.68 | 10.93 | 5.99 | | |
| | | | | 1.71 | 0.99 | 2.56 | 1.55 | 2.88 | 1.65 | 4.25 | 2.45 | 5.52 | 3.24 | 7.40 | 4.47 | 8.21 | 4.96 | 9.62 | 5.23 | | |
| | | | | 1.42 | 0.83 | 1.99 | 1.20 | 2.22 | 1.27 | 3.07 | 1.78 | 3.93 | 2.30 | 5.68 | 3.40 | 6.30 | 3.77 | 7.38 | 3.98 | | |
| 5 | 10 | 25 | 19 | 1.75 | 1.04 | 2.47 | 1.59 | 3.50 | 2.01 | 4.60 | 2.70 | 6.06 | 3.63 | 7.61 | 4.78 | 8.45 | 5.31 | 9.89 | 5.59 | | |
| | | | | 1.51 | 0.90 | 2.23 | 1.41 | 12.68 | 1.55 | 3.83 | 2.26 | 5.11 | 3.05 | 6.75 | 4.19 | 7.49 | 4.65 | 8.78 | 4.90 | | |
| | | | | 1.27 | 0.76 | 1.77 | 1.10 | 2.08 | 1.21 | 2.80 | 1.66 | 3.69 | 2.19 | 5.26 | 3.21 | 5.84 | 3.56 | 6.84 | 3.76 | | |
| 5 | 12 | 25 | 19 | 1.45 | 0.91 | 2.00 | 1.40 | 3.12 | 1.84 | 3.93 | 2.41 | 5.41 | 2.05 | 6.68 | 4.40 | 7.41 | 4.88 | 8.68 | 5.15 | | |
| | | | | 1.27 | 0.80 | 1.83 | 1.25 | 2.42 | 1.43 | 3.32 | 2.03 | 4.61 | 2.83 | 5.98 | 3.88 | 6.84 | 4.31 | 7.77 | 4.54 | | |
| | | | | 1.08 | 0.67 | 1.49 | 0.99 | 1.90 | 1.13 | 2.47 | 1.51 | 3.38 | 3.34 | 4.74 | 2.99 | 5.26 | 3.32 | 6.16 | 3.50 | | |
| 7 | 10 | 25 | 19 | 1.75 | 1.04 | 2.48 | 1.59 | 3.37 | 1.95 | 4.53 | 2.67 | 5.78 | 3.50 | 7.27 | 4.64 | 8.07 | 5.15 | 9.45 | 5.43 | | |
| | | | | 1.50 | 0.89 | 2.21 | 1.40 | 2.55 | 1.49 | 3.74 | 2.21 | 4.84 | 2.93 | 6.42 | 4.05 | 7.13 | 4.50 | 8.35 | 4.74 | | |
| | | | | 1.24 | 0.75 | 1.73 | 1.08 | 1.96 | 1.15 | 2.70 | 1.61 | 3.45 | 2.08 | 4.95 | 3.08 | 5.49 | 3.42 | 6.44 | 3.60 | | |
| 7 | 12 | 25 | 19 | 1.49 | 0.92 | 2.05 | 1.42 | 3.04 | 1.80 | 3.93 | 2.41 | 5.20 | 3.25 | 6.41 | 4.29 | 7.12 | 4.76 | 8.33 | 5.02 | | |
| | | | | 1.29 | 0.80 | 1.85 | 1.26 | 2.33 | 1.39 | 3.28 | 2.01 | 4.40 | 2.74 | 5.72 | 3.77 | 6.35 | 4.18 | 7.44 | 4.41 | | |
| | | | | 1.08 | 0.68 | 1.49 | 0.99 | 1.81 | 1.09 | 2.41 | 1.48 | 3.19 | 1.97 | 4.50 | 2.89 | 5.00 | 3.21 | 5.85 | 3.38 | | |
| 7 | 14 | 25 | 19 | 1.16 | 0.79 | 1.54 | 1.23 | 2.63 | 1.63 | 3.21 | 2.11 | 4.48 | 2.96 | 5.40 | 3.90 | 5.99 | 4.33 | 7.02 | 4.56 | | |
| | | | | 1.02 | 0.69 | 1.43 | 1.10 | 2.05 | 1.27 | 2.72 | 1.78 | 3.84 | 2.51 | 4.88 | 3.44 | 5.42 | 3.82 | 6.34 | 4.02 | | |
| | | | | 0.87 | 0.59 | 1.19 | 0.87 | 1.61 | 1.00 | 2.04 | 1.33 | 2.84 | 1.83 | 3.93 | 2.67 | 4.36 | 2.96 | 5.11 | 3.12 | | |
| 9 | 12 | 25 | 19 | 1.48 | 0.92 | 2.04 | 1.41 | 2.90 | 1.74 | 3.85 | 2.37 | 4.89 | 3.13 | 6.03 | 4.14 | 6.69 | 4.60 | 7.84 | 4.84 | | |
| | | | | 1.27 | 0.79 | 1.83 | 1.25 | 2.20 | 1.33 | 3.18 | 1.97 | 4.11 | 2.62 | 5.35 | 3.62 | 5.94 | 4.02 | 6.96 | 4.24 | | |
| | | | | 1.05 | 0.66 | 1.44 | 0.97 | 1.69 | 1.03 | 2.29 | 1.43 | 2.94 | 1.87 | 4.17 | 2.76 | 4.63 | 3.06 | 5.42 | 3.23 | | |
| 9 | 14 | 25 | 19 | 1.20 | 0.81 | 1.58 | 1.24 | 2.55 | 1.59 | 3.20 | 2.10 | 4.25 | 2.87 | 5.11 | 3.79 | 5.67 | 4.21 | 6.64 | 4.43 | | |
| | | | | 1.04 | 0.70 | 1.45 | 1.11 | 1.96 | 1.23 | 2.68 | 1.76 | 3.62 | 2.42 | 4.60 | 3.33 | 5.11 | 3.70 | 5.98 | 3.90 | | |
| | | | | 0.88 | 0.59 | 1.18 | 0.87 | 1.52 | 0.96 | 1.98 | 1.30 | 2.65 | 1.75 | 3.67 | 2.56 | 4.07 | 2.84 | 4.77 | 3.00 | | |
| 9 | 16 | 25 | 19 | 0.83 | 0.67 | 1.04 | 0.94 | 2.08 | 1.40 | 2.39 | 1.79 | 3.44 | 2.56 | 3.97 | 3.37 | 4.41 | 3.74 | 5.16 | 3.94 | | |
| | | | | 0.74 | 0.59 | 0.97 | 0.94 | 1.63 | 1.10 | 2.04 | 1.52 | 2.99 | 2.17 | 3.65 | 2.98 | 4.05 | 3.31 | 4.75 | 3.49 | | |
| | | | | 0.63 | 0.50 | 0.85 | 0.74 | 1.29 | 0.87 | 1.55 | 1.14 | 2.25 | 1.59 | 3.02 | 2.32 | 3.35 | 2.58 | 3.93 | 2.71 | | |
| 11 | 14 | 25 | 19 | 1.19 | 0.80 | 1.56 | 1.23 | 2.39 | 1.52 | 3.11 | 2.06 | 3.92 | 2.74 | 4.69 | 3.63 | 5.21 | 4.03 | 6.10 | 4.25 | | |
| | | | | 1.02 | 0.69 | 1.41 | 1.09 | 1.81 | 1.17 | 2.57 | 1.72 | 3.31 | 2.30 | 4.20 | 3.18 | 4.66 | 3.53 | 5.46 | 3.72 | | |
| | | | | 0.84 | 0.58 | 1.13 | 0.85 | 1.39 | 0.91 | 1.85 | 1.26 | 2.38 | 1.64 | 3.31 | 2.43 | 3.67 | 2.70 | 4.30 | 2.84 | | |
| 11 | 16 | 25 | 19 | 0.87 | 0.68 | 1.06 | 1.06 | 1.99 | 1.36 | 2.38 | 1.79 | 3.21 | 2.47 | 3.66 | 3.26 | 4.06 | 3.62 | 4.76 | 3.81 | | |
| | | | | 0.76 | 0.60 | 0.99 | 0.94 | 1.53 | 1.06 | 2.01 | 1.50 | 2.76 | 2.09 | 3.35 | 2.87 | 3.72 | 3.19 | 4.36 | 3.36 | | |
| | | | | 0.64 | 0.50 | 0.84 | 0.74 | 1.20 | 0.83 | 1.50 | 1.12 | 2.05 | 1.51 | 2.75 | 2.22 | 3.05 | 2.46 | 3.58 | 2.60 | | |
| 11 | 18 | 25 | 19 | 0.53 | 0.53 | 0.82 | 0.82 | 1.44 | 1.16 | 1.44 | 1.44 | 2.25 | 2.13 | 2.78 | 2.78 | 3.09 | 3.09 | 3.61 | 3.25 | | |
| | | | | 0.47 | 0.47 | 0.75 | 0.75 | 1.15 | 0.91 | 1.26 | 1.23 | 2.01 | 1.82 | 2.48 | 2.48 | 2.75 | 2.75 | 3.22 | 2.90 | | |
| | | | | 0.40 | 0.40 | 0.60 | 0.60 | 0.92 | 0.73 | 0.99 | 0.94 | 1.57 | 1.34 | 1.99 | 1.95 | 2.21 | 2.16 | 2.59 | 2.28 | | |
| 3 | 6 | 27 | 19 | 2.24 | 1.40 | 3.23 | 2.15 | 4.26 | 2.63 | 5.80 | 3.61 | 7.39 | 4.71 | 9.41 | 6.24 | 10.45 | 6.93 | 12.23 | 7.30 | | |
| | | | | 1.92 | 1.21 | 2.87 | 1.90 | 3.22 | 2.00 | 4.78 | 2.99 | 6.17 | 3.93 | 8.27 | 5.45 | 9.18 | 6.05 | 10.75 | 6.38 | | |
| | | | | 1.59 | 1.00 | 2.23 | 1.46 | 2.47 | 1.54 | 3.44 | 2.16 | 4.38 | 2.78 | 6.34 | 4.13 | 7.04 | 4.58 | 8.24 | 4.83 | | |
| 3 | 8 | 27 | 19 | 2.02 | 1.29 | 2.85 | 1.98 | 3.98 | 2.48 | 5.29 | 3.35 | 6.89 | 4.47 | 8.65 | 5.90 | 9.60 | 6.55 | 11.25 | 6.90 | | |
| | | | | 1.74 | 1.12 | 2.56 | 1.76 | 3.04 | 1.90 | 4.39 | 2.79 | 5.80 | 3.75 | 7.66 | 5.17 | 8.50 | 5.74 | 9.96 | 6.05 | | |
| | | | | 1.45 | 0.94 | 2.02 | 1.36 | 2.35 | 1.48 | 3.19 | 2.04 | 4.16 | 2.68 | 5.95 | 3.95 | 6.60 | 4.38 | 7.74 | 4.62 | | |
| 3 | 10 | 27 | 19 | 1.76 | 1.17 | 2.43 | 1.80 | 3.66 | 2.32 | 4.70 | 3.07 | 6.31 | 4.20 | 7.81 | 5.54 | 8.67 | 6.15 | 10.15 | 6.48 | | |
| | | | | 1.53 | 1.02 | 2.20 | 1.61 | 2.82 | 1.79 | 3.94 | 2.58 | 5.35 | 3.54 | 6.97 | 4.87 | 7.74 | 5.41 | 9.06 | 5.70 | | |
| | | | | 1.29 | 0.86 | 1.78 | 1.26 | 2.20 | 1.40 | 2.90 | 1.91 | 3.89 | 2.55 | 5.49 | 3.74 | 6.09 | 4.15 | 7.14 | 4.38 | | |
| 5 | 8 | 27 | 19 | 2.02 | 1.29 | 2.87 | 1.98 | 3.87 | 2.42 | 5.23 | 3.33 | 6.63 | 4.35 | 8.35 | 5.77 | 9.27 | 6.40 | 10.86 | 6.75 | | |
| | | | | 1.73 | 1.11 | 2.55 | 1.75 | 2.92 | 1.84 | 4.31 | 2.75 | 5.55 | 3.63 | 7.36 | 5.04 | 8.17 | 5.59 | 9.57 | 5.90 | | |
| | | | | 1.43 | 0.93 | 1.99 | 1.35 | 2.24 | 1.42 | 3.09 | 1.99 | 3.94 | 2.57 | 5.66 | 3.82 | 6.28 | 4.24 | 7.36 | 4.47 | | |
| 5 | 10 | 27 | 19 | 1.79 | 1.19 | 2.48 | 1.82 | 3.58 | 2.28 | 4.70 | 3.07 | 6.11 | 4.11 | 7.57 | 5.43 | 8.40 | 6.03 | 9.84 | 6.35 | | |
| | | | | 1.55 | 1.03 | 2.23 | 1.62 | 2.73 | 1.75 | 3.91 | 2.58 | 5.15 | 3.45 | 6.73 | 4.76 | 7.47 | 5.28 | 8.75 | 5.57 | | |
| | | | | 1.29 | 0.86 | 1.78 | 1.26 | 2.11 | 1.36 | 2.84 | 1.88 | 3.71 | 2.47 | 5.26 | 3.64 | 5.84 | 4.04 | 6.84 | 4.26 | | |
| 5 | 12 | 27 | 19 | 1.51 | 1.06 | 2.03 | 1.64 | 3.23 | 2.12 | 4.07 | 2.79 | 5.49 | 3.84 | 6.67 | 5.07 | 7.40 | 5.63 | 8.67 | 5.93 | | |
| | | | | 1.32 | 0.93 | 1.85 | 1.46 | 2.49 | 1.64 | 3.42 | 2.35 | 4.68 | 3.24 | 5.99 | 4.68 | 6.65 | 4.95 | 7.79 | 5.22 | | |
| | | | | 1.11 | 0.78 | 1.51 | 1.15 | 1.95 | 1.29 | 2.53 | 1.74 | 3.42 | 2.34 | 4.77 | 3.43 | 5.29 | 3.81 | 6.20 | 4.01 | | |
| 7 | 10 | 27 | 19 | 1.78 | 1.18 | 2.47 | 1.82 | 3.44 | 2.21 | 4.62 | 3.04 | 5.82 | 3.98 | 7.21 | 5.29 | 8.00 | 5.87 | 9.37 | 6.19 | | |
| | | | | 1.52 | 1.02 | 2.21 | 1.61 | 2.60 | 1.69 | 3.80 | 2.52 | 4.87 | 3.32 | 6.38 | 4.62 | 7.08 | 5.13 | 8.29 | 5.41 | | |
| | | | | 1.26 | 0.85 | 1.73 | 1.24 | 1.99 | 1.31 | 2.73 | 1.83 | 3.47 | 2.36 | 4.94 | 3.50 | 5.48 | 3.89 | 6.42 | 4.10 | | |
| 7 | 12 | 27 | 19 | 1.54 | 1.07 | 2.06 | 1.65 | 3.14 | 2.07 | 4.05 | 2.78 | 5.26 | 3.74 | 6.38 | 4.95 | 7.08 | 5.49 | 8.29 | 5.79 | | |
| | | | | 1.33 | 0.93 | 1.87 | 1.47 | 2.39 | 1.59 | 3.37 | 2.32 | 4.45 | 3.14 | 5.71 | 4.34 | 6.34 | 4.82 | 7.42 | 5.08 | | |
| | | | | 1.11 | 0.78 | 1.50 | 1.14 | 1.85 | 1.24 | 2.46 | 1.71 | 3.22 | 2.26 | 4.51 | 3.32 | 5.01 | 3.69 | 5.86 | 3.88 | | |
| 7 | 14 | 27 | 19 | 1.24 | 0.95 | 1.58 | 1.47 | 2.76 | 1.90 | 3.37 | 2.50 | 4.59 | 3.46 | 5.42 | 4.58 | 6.02 | 5.08 | 7.05 | 5.36 | | |
| | | | | 1.08 | 0.83 | 1.46 | 1.31 | 1.13 | 1.48 | 2.85 | 2.10 | 3.94 | 2.93 | 4.92 | 4.03 | 5.46 | 4.47 | 6.40 | 4.72 | | |
| | | | | 0.91 | 0.70 | 1.22 | 1.03 | 1.67 | 1.16 | 2.12 | 1.56 | 2.91 | 2.12 | 3.98 | 3.11 | 4.42 | 3.45 | 5.17 | 3.64 | | |
| 9 | 12 | 27 | 19 | 1.52 | 1.07 | 2.04 | 1.65 | 2.99 | 2.00 | 3.95 | 2.74 | 4.94 | 3.61 | 5.98 | 4.79 | 6.64 | 5.32 | 7.77 | 5.60 | | |
| | | | | 1.30 | 0.92 | 1.83 | 1.46 | 2.25 | 1.53 | 3.25 | 2.27 | 4.15 | 3.0 | | | | | | | | |

Technical Data At Conditions Non Standard

2 PIPES **4 ROWS**

| Water Temperature IN | Water Temperature Out | Air Temperature DB | Air Temperature WB | 412 | | 420 | | 425 | | 435 | | 450 | | 460 | | 480 | | 490 | | | |
|-------------------------|--------------------------|-----------------------|-----------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| | | | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | | Cooling Capacity | |
| | | | | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] | Total [kW] | Sens [kW] |
| 3 | 6 | 29 | 21 | 2.61 | 1.50 | 3.81 | 2.28 | 4.90 | 2.79 | 3.86 | 3.86 | 8.59 | 4.99 | 11.04 | 6.61 | 12.25 | 7.34 | 14.35 | 7.73 | | |
| | | | | 2.23 | 1.29 | 3.38 | 2.01 | 3.71 | 2.12 | 3.19 | 3.19 | 7.16 | 4.16 | 9.68 | 5.77 | 10.74 | 6.40 | 12.58 | 6.75 | | |
| 3 | 8 | 29 | 21 | 1.85 | 1.07 | 2.61 | 1.55 | 2.85 | 2.66 | 2.30 | 2.30 | 5.06 | 2.94 | 7.38 | 4.36 | 8.19 | 4.84 | 9.59 | 5.10 | | |
| | | | | 2.40 | 1.39 | 3.45 | 2.13 | 4.64 | 2.66 | 3.61 | 3.61 | 8.11 | 4.77 | 10.31 | 6.29 | 11.44 | 6.98 | 13.40 | 7.36 | | |
| 3 | 10 | 29 | 21 | 2.06 | 1.20 | 3.08 | 1.88 | 3.54 | 2.03 | 3.00 | 3.00 | 6.80 | 3.99 | 9.09 | 5.51 | 10.09 | 6.12 | 11.82 | 6.45 | | |
| | | | | 1.72 | 1.01 | 2.41 | 1.46 | 2.73 | 1.58 | 2.19 | 2.19 | 4.86 | 2.85 | 7.01 | 4.20 | 7.78 | 4.66 | 9.11 | 4.91 | | |
| 5 | 8 | 29 | 21 | 2.15 | 1.28 | 3.05 | 1.96 | 4.34 | 2.51 | 3.35 | 3.35 | 7.57 | 4.52 | 9.51 | 5.96 | 10.56 | 6.62 | 12.36 | 6.97 | | |
| | | | | 1.86 | 1.11 | 2.74 | 1.74 | 3.33 | 1.93 | 2.80 | 2.80 | 6.39 | 3.90 | 8.45 | 5.23 | 9.38 | 5.81 | 10.99 | 6.12 | | |
| 5 | 10 | 29 | 21 | 1.57 | 0.94 | 2.18 | 1.35 | 2.59 | 1.51 | 2.06 | 2.06 | 4.61 | 2.73 | 6.58 | 4.01 | 7.30 | 4.45 | 8.55 | 4.69 | | |
| | | | | 2.39 | 1.39 | 3.45 | 2.13 | 4.52 | 2.60 | 3.58 | 3.58 | 7.85 | 4.65 | 10.01 | 6.16 | 11.11 | 6.84 | 13.01 | 7.21 | | |
| 5 | 12 | 29 | 21 | 2.05 | 1.20 | 3.07 | 1.88 | 3.42 | 1.97 | 2.96 | 2.96 | 6.55 | 3.88 | 8.79 | 5.38 | 9.76 | 5.97 | 11.43 | 6.29 | | |
| | | | | 1.69 | 0.99 | 2.37 | 1.44 | 2.63 | 1.52 | 2.14 | 2.14 | 4.64 | 2.74 | 6.72 | 4.07 | 7.46 | 4.52 | 8.74 | 4.76 | | |
| 5 | 14 | 29 | 21 | 2.18 | 1.29 | 3.09 | 1.98 | 4.25 | 2.46 | 3.34 | 3.34 | 7.36 | 4.43 | 9.26 | 5.85 | 10.28 | 6.49 | 12.04 | 6.84 | | |
| | | | | 1.87 | 1.12 | 2.76 | 1.75 | 3.24 | 1.89 | 2.78 | 2.78 | 6.18 | 3.71 | 8.19 | 5.13 | 9.09 | 5.69 | 10.65 | 6.00 | | |
| 5 | 16 | 29 | 21 | 1.56 | 0.94 | 2.17 | 1.36 | 2.50 | 1.46 | 2.03 | 2.03 | 4.43 | 2.65 | 6.34 | 3.91 | 7.04 | 4.34 | 8.24 | 4.57 | | |
| | | | | 1.92 | 1.18 | 2.66 | 1.81 | 3.93 | 2.31 | 3.08 | 3.08 | 6.78 | 4.18 | 8.42 | 5.52 | 9.35 | 6.13 | 10.95 | 6.46 | | |
| 5 | 18 | 29 | 21 | 1.66 | 1.02 | 2.41 | 1.61 | 3.02 | 1.78 | 2.58 | 2.58 | 5.74 | 3.52 | 7.51 | 4.85 | 8.34 | 5.38 | 9.76 | 5.67 | | |
| | | | | 1.40 | 0.86 | 1.93 | 1.26 | 2.35 | 1.40 | 1.90 | 1.90 | 4.16 | 2.53 | 5.89 | 3.72 | 6.54 | 4.13 | 7.66 | 4.35 | | |
| 7 | 10 | 29 | 21 | 2.16 | 1.28 | 3.07 | 1.97 | 4.11 | 2.40 | 3.30 | 3.30 | 7.06 | 4.30 | 8.90 | 5.71 | 9.88 | 6.34 | 11.57 | 6.88 | | |
| | | | | 1.85 | 1.10 | 2.73 | 1.74 | 3.10 | 1.82 | 2.73 | 2.73 | 5.90 | 3.59 | 7.84 | 4.98 | 8.70 | 5.53 | 10.19 | 5.83 | | |
| 7 | 12 | 29 | 21 | 1.53 | 0.92 | 2.12 | 1.34 | 2.38 | 1.41 | 1.97 | 1.97 | 4.18 | 2.54 | 6.02 | 3.77 | 6.68 | 4.18 | 7.83 | 4.41 | | |
| | | | | 1.93 | 1.18 | 2.68 | 1.82 | 3.83 | 2.26 | 3.06 | 3.06 | 6.54 | 4.08 | 8.12 | 5.40 | 9.01 | 5.99 | 10.56 | 6.32 | | |
| 7 | 14 | 29 | 21 | 1.66 | 1.03 | 2.41 | 1.61 | 2.91 | 1.74 | 2.55 | 2.55 | 5.51 | 3.42 | 7.21 | 4.73 | 8.00 | 5.25 | 9.37 | 5.53 | | |
| | | | | 1.39 | 0.86 | 1.91 | 1.25 | 2.25 | 1.35 | 1.87 | 1.87 | 3.96 | 2.45 | 5.62 | 3.61 | 6.24 | 4.01 | 7.31 | 4.22 | | |
| 7 | 16 | 29 | 21 | 1.66 | 1.07 | 2.24 | 1.65 | 3.48 | 2.11 | 2.80 | 2.80 | 5.92 | 3.83 | 7.22 | 5.60 | 8.01 | 6.22 | 9.39 | 6.55 | | |
| | | | | 1.44 | 0.93 | 2.04 | 1.47 | 2.68 | 1.63 | 2.35 | 2.35 | 5.03 | 3.23 | 6.48 | 4.44 | 7.19 | 4.93 | 8.42 | 5.19 | | |
| 9 | 12 | 29 | 21 | 1.21 | 0.79 | 1.66 | 1.15 | 2.09 | 1.28 | 1.74 | 1.74 | 3.67 | 2.33 | 5.13 | 3.42 | 5.69 | 3.80 | 6.67 | 4.00 | | |
| | | | | 1.91 | 1.17 | 2.65 | 1.81 | 3.67 | 2.19 | 3.02 | 3.02 | 6.21 | 3.94 | 7.73 | 5.24 | 8.58 | 5.82 | 10.05 | 6.13 | | |
| 9 | 14 | 29 | 21 | 1.63 | 1.01 | 2.37 | 1.60 | 2.77 | 1.67 | 2.50 | 2.50 | 5.20 | 3.29 | 6.82 | 4.58 | 7.57 | 5.08 | 8.87 | 5.36 | | |
| | | | | 1.35 | 0.84 | 1.85 | 1.23 | 2.12 | 1.29 | 1.71 | 1.81 | 3.69 | 2.34 | 5.27 | 3.47 | 5.85 | 3.85 | 6.85 | 4.06 | | |
| 9 | 16 | 29 | 21 | 1.67 | 1.07 | 2.25 | 1.66 | 3.37 | 2.06 | 2.78 | 2.78 | 5.66 | 3.72 | 6.89 | 4.93 | 7.65 | 5.47 | 8.96 | 5.77 | | |
| | | | | 1.44 | 0.93 | 2.03 | 1.47 | 2.56 | 1.58 | 2.32 | 2.32 | 4.78 | 3.12 | 6.15 | 4.32 | 6.83 | 4.80 | 8.00 | 5.05 | | |
| 9 | 18 | 29 | 21 | 1.20 | 0.78 | 1.63 | 1.14 | 1.98 | 1.23 | 1.70 | 1.70 | 3.45 | 2.24 | 4.84 | 3.30 | 5.37 | 3.66 | 6.29 | 3.86 | | |
| | | | | 1.37 | 0.96 | 1.77 | 1.49 | 2.99 | 1.90 | 2.51 | 2.51 | 4.98 | 3.46 | 5.91 | 4.58 | 6.56 | 5.08 | 7.68 | 5.36 | | |
| 9 | 20 | 29 | 21 | 1.19 | 0.84 | 1.63 | 1.33 | 2.31 | 1.48 | 2.11 | 2.11 | 4.26 | 2.92 | 5.35 | 4.03 | 5.94 | 4.47 | 6.96 | 4.72 | | |
| | | | | 1.00 | 0.71 | 1.35 | 1.04 | 1.80 | 1.16 | 1.57 | 1.57 | 3.13 | 2.11 | 4.31 | 3.10 | 4.78 | 3.44 | 5.60 | 3.63 | | |
| 11 | 14 | 29 | 21 | 1.63 | 1.06 | 2.21 | 1.64 | 3.19 | 1.99 | 2.73 | 2.73 | 5.29 | 3.58 | 6.43 | 4.76 | 7.14 | 5.28 | 8.36 | 5.57 | | |
| | | | | 1.39 | 0.92 | 1.98 | 1.45 | 2.40 | 1.52 | 2.26 | 2.26 | 4.44 | 2.99 | 5.72 | 4.16 | 6.35 | 4.62 | 7.44 | 4.87 | | |
| 11 | 16 | 29 | 21 | 1.15 | 0.76 | 1.56 | 1.12 | 1.83 | 1.17 | 1.64 | 1.64 | 3.16 | 2.13 | 4.46 | 3.16 | 4.95 | 3.51 | 5.80 | 3.70 | | |
| | | | | 1.70 | 0.96 | 1.77 | 1.49 | 2.86 | 1.85 | 2.49 | 2.49 | 4.69 | 3.35 | 5.54 | 4.45 | 6.15 | 4.94 | 7.20 | 5.21 | | |
| 11 | 18 | 29 | 21 | 1.18 | 0.83 | 1.62 | 1.32 | 2.18 | 1.43 | 2.08 | 2.08 | 3.98 | 2.82 | 4.99 | 3.90 | 5.54 | 4.33 | 6.49 | 4.56 | | |
| | | | | 0.99 | 0.70 | 1.32 | 1.03 | 1.68 | 1.12 | 1.53 | 1.53 | 2.89 | 2.02 | 3.99 | 2.68 | 4.43 | 2.97 | 5.19 | 3.14 | | |
| 11 | 20 | 29 | 21 | 1.04 | 0.84 | 1.90 | 1.30 | 2.44 | 1.69 | 2.21 | 2.21 | 3.93 | 3.08 | 4.46 | 4.08 | 4.95 | 4.53 | 5.80 | 4.77 | | |
| | | | | 0.91 | 0.73 | 1.17 | 1.17 | 1.89 | 1.32 | 1.86 | 1.86 | 3.40 | 2.61 | 4.11 | 3.59 | 4.56 | 3.98 | 5.34 | 4.20 | | |
| 11 | 22 | 29 | 21 | 0.77 | 0.62 | 1.01 | 0.92 | 1.58 | 1.04 | 1.39 | 1.39 | 2.54 | 1.89 | 3.39 | 2.78 | 3.76 | 3.09 | 4.41 | 3.25 | | |
| | | | | 2.99 | 1.58 | 4.40 | 2.39 | 5.58 | 2.94 | 4.07 | 4.07 | 9.84 | 5.23 | 12.72 | 6.92 | 14.12 | 7.68 | 16.54 | 8.10 | | |
| 3 | 6 | 31 | 23 | 2.56 | 1.35 | 3.90 | 2.11 | 4.22 | 2.22 | 3.35 | 3.35 | 8.19 | 4.36 | 11.13 | 6.03 | 12.35 | 6.69 | 14.47 | 7.06 | | |
| | | | | 2.12 | 1.12 | 3.00 | 1.62 | 3.24 | 1.71 | 2.41 | 2.41 | 5.78 | 3.28 | 8.45 | 4.55 | 9.38 | 5.05 | 10.99 | 5.32 | | |
| 3 | 8 | 31 | 23 | 2.79 | 1.48 | 4.06 | 2.25 | 5.33 | 2.81 | 3.84 | 3.84 | 9.38 | 5.02 | 12.03 | 6.62 | 13.35 | 7.35 | 15.64 | 7.75 | | |
| | | | | 2.40 | 1.28 | 3.61 | 1.99 | 4.05 | 2.14 | 3.18 | 3.18 | 7.85 | 4.20 | 10.57 | 5.79 | 11.73 | 6.43 | 13.74 | 6.77 | | |
| 3 | 10 | 31 | 23 | 2.00 | 1.07 | 2.81 | 1.54 | 3.13 | 1.60 | 2.31 | 2.31 | 5.59 | 2.99 | 8.10 | 4.40 | 8.99 | 4.88 | 10.53 | 5.15 | | |
| | | | | 2.56 | 1.38 | 3.68 | 2.09 | 5.04 | 2.67 | 3.59 | 3.59 | 8.87 | 4.80 | 11.27 | 6.31 | 12.51 | 7.00 | 14.65 | 7.38 | | |
| 3 | 12 | 31 | 23 | 2.21 | 1.19 | 3.30 | 1.86 | 3.86 | 2.05 | 2.99 | 2.99 | 7.46 | 4.03 | 9.96 | 5.53 | 11.06 | 6.14 | 12.95 | 6.47 | | |
| | | | | 1.85 | 1.00 | 2.60 | 1.45 | 3.00 | 1.59 | 2.19 | 2.19 | 5.36 | 2.88 | 7.70 | 4.23 | 8.55 | 4.70 | 10.01 | 4.95 | | |
| 3 | 14 | 31 | 23 | 2.78 | 1.48 | 4.06 | 2.25 | 5.20 | 2.75 | 3.81 | 3.81 | 7.12 | 4.91 | 11.72 | 6.50 | 13.01 | 7.22 | 15.24 | 7.61 | | |
| | | | | 2.38 | 1.27 | 3.59 | 1.98 | 3.93 | 2.08 | 3.14 | 3.14 | 7.60 | 4.09 | 10.27 | 5.66 | 11.40 | 6.28 | 13.35 | 6.62 | | |
| 3 | 16 | 31 | 23 | 1.97 | 1.50 | 2.77 | 1.52 | 3.01 | 1.60 | 2.26 | 2.26 | 5.36 | 2.89 | 7.82 | 4.28 | 8.68 | 4.75 | 10.17 | 5.01 | | |
| | | | | 2.57 | 1.38 | 3.71 | 2.11 | 4.95 | 2.62 | 3.58 | 3.58 | 8.65 | 4.70 | 11.02 | 6.21 | 12.23 | 6.89 | 14.33 | 7.27 | | |
| 3 | 18 | 31 | 23 | 2.21 | 1.19 | 3.31 | 1.87 | 3.77 | 2.00 | 2.97 | 2.97 | 7.25 | 3.93 | 9.70 | 5.43 | 10.77 | 6.03 | 12.61 | 6.35 | | |
| | | | | 1.84 | 1.00 | 2.58 | 1.44 | 2.91 | 1.55 | 2.16 | 2.16 | 5.17 | 2.80 | 7.46 | 4.13 | 8.28 | 4.58 | 9.70 | 4.83 | | |
| 3 | 20 | 31 | 23 | 2.33 | 1.28 | 3.31 | 1.95 | 4.65 | 2.48 | 3.34 | 3.34 | 8.11 | 4.47 | 10.22 | 5.90 | 11.34 | 6.55 | 13.29 | 6.90 | | |
| | | | | 2.02 | 1.11 | 2.98 | 1.74 | 3.56 | 1.91 | 2.78 | 2.78 | 6.84 | 3.76 | 9.06 | 5.17 | 10.06 | 5.74 | 11.78 | 6.05 | | |
| 3 | 22 | 31 | 23 | 1.69 | 0.93 | 2.36 | 1.35 | 2.77 | 1.49 | 2.04 | 2.04 | 4.92 | 2.70 | 7.04 | 3.96 | 7.81 | 4.40 | 9.15 | 4.63 | | |
| | | | | 2.55 | 1.37 | 3.69 | 2.10 | 4.81 | 2.56 | 3.54 | 3.54 | 8.35 | 4.58 | 10.66 | 6.07 | 11.83 | 6.74 | 13.86 | 7.10 | | |
| 3 | 24 | 31 | 23 | 2.18 | 1.18 | 3.27 | 1.85 | 3.63 | 1.94 | 2.92 | 2.92 | 6.96 | 3.81 | 9.35 | 5.29 | 10.38 | 5.87 | 12.16 | 6.19 | | |
| | | | | 1.80 | 0.98 | 2.53 | 1.42 | 2.78 | 1.49 | 2.10 | 2.10 | 4.92 | 2.70 | 7.14 | 4.00 | 7.93 | 4.44 | 9.28 | 4.68 | | |
| 5 | 6 | 31 | 23 | 2.34 | 1.28 | 3.33 | 1.96 | 4.54 | 2.43 | 3.32 | 3.32 | 7.86 | 4.37 | 9.92 | 5.78 | 11.01 | 6.42 | 12.90 | 6.76 | | |
| | | | | 2.01 | 1.11 | 2.97 | 1.74 | 3.45 | | | | | | | | | | | | | |



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NOTES