

**Job Name:** \_\_\_\_\_  
**Location:** \_\_\_\_\_  
**Engineer:** \_\_\_\_\_  
**Submitted to:** \_\_\_\_\_  
**Submitted by:** \_\_\_\_\_  
**Reference:** \_\_\_\_\_

**Date:** \_\_\_\_\_  
**Approval:** \_\_\_\_\_  
**Construction:** \_\_\_\_\_  
**Unit #:** \_\_\_\_\_  
**Drawing #:** \_\_\_\_\_

## KEY FEATURES:

- Can be installed up to 2' from the ceiling
- E-Box and PCB located in the front of the unit with a cover kickstand providing easy access
- Revolutionary design offers convenient disassembly & maintenance with an easy-to-remove blower wheel
- Larger air inlet/outlet for improved air flow
- Auto-Swing for vertical and horizontal louvers
- Easy to remove magnetic filter on top
- Compatible with regular (-13°F) or Hyper (-22°F) outdoor units

## NOTES:

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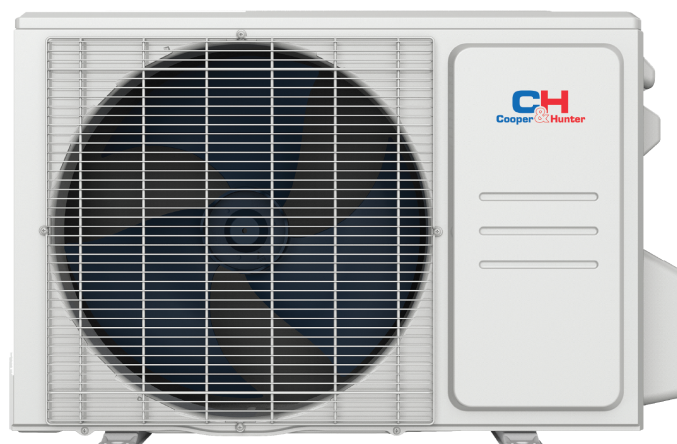
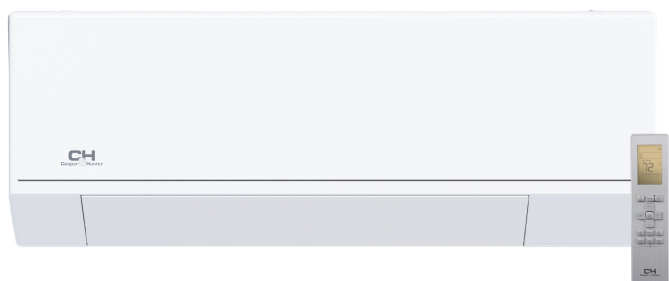
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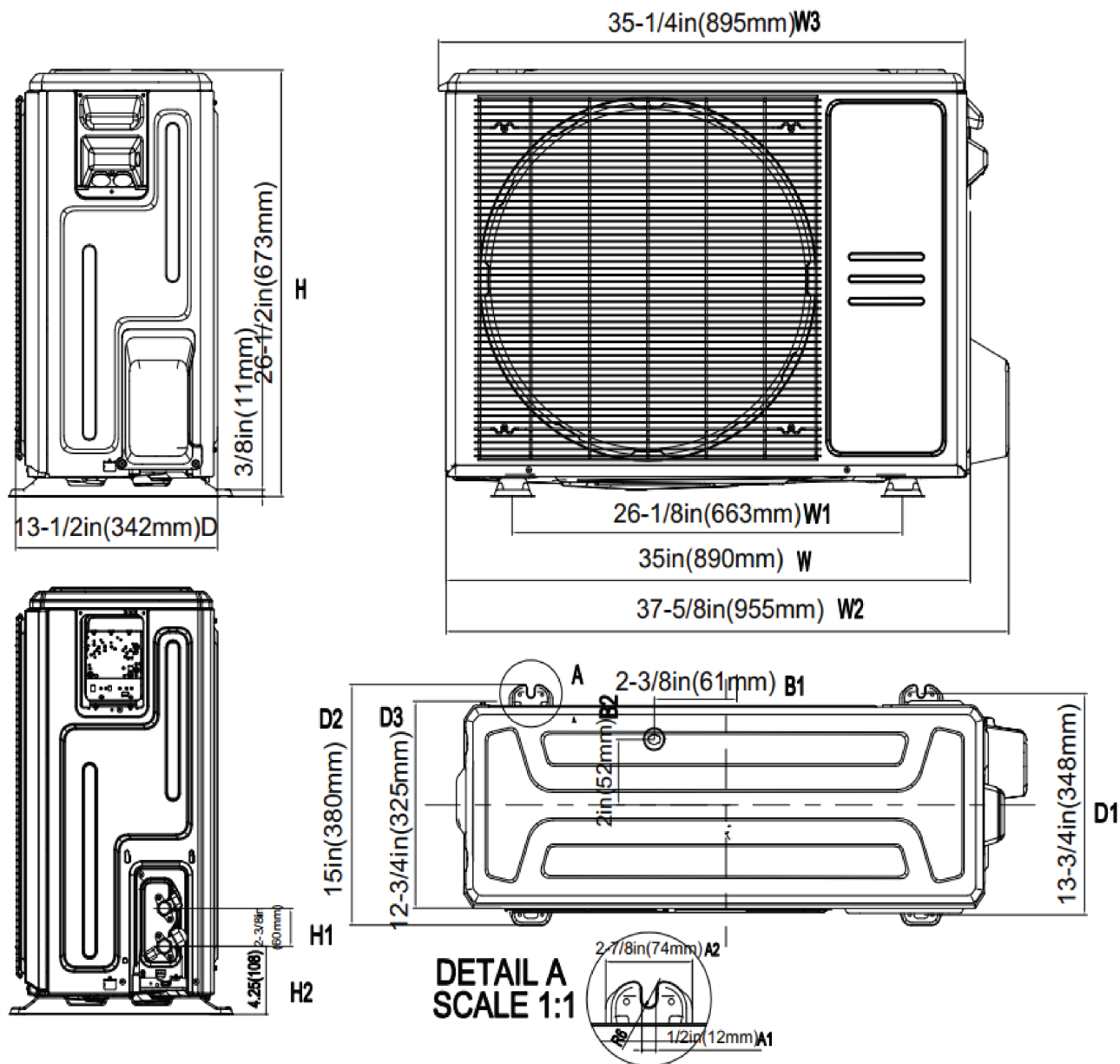
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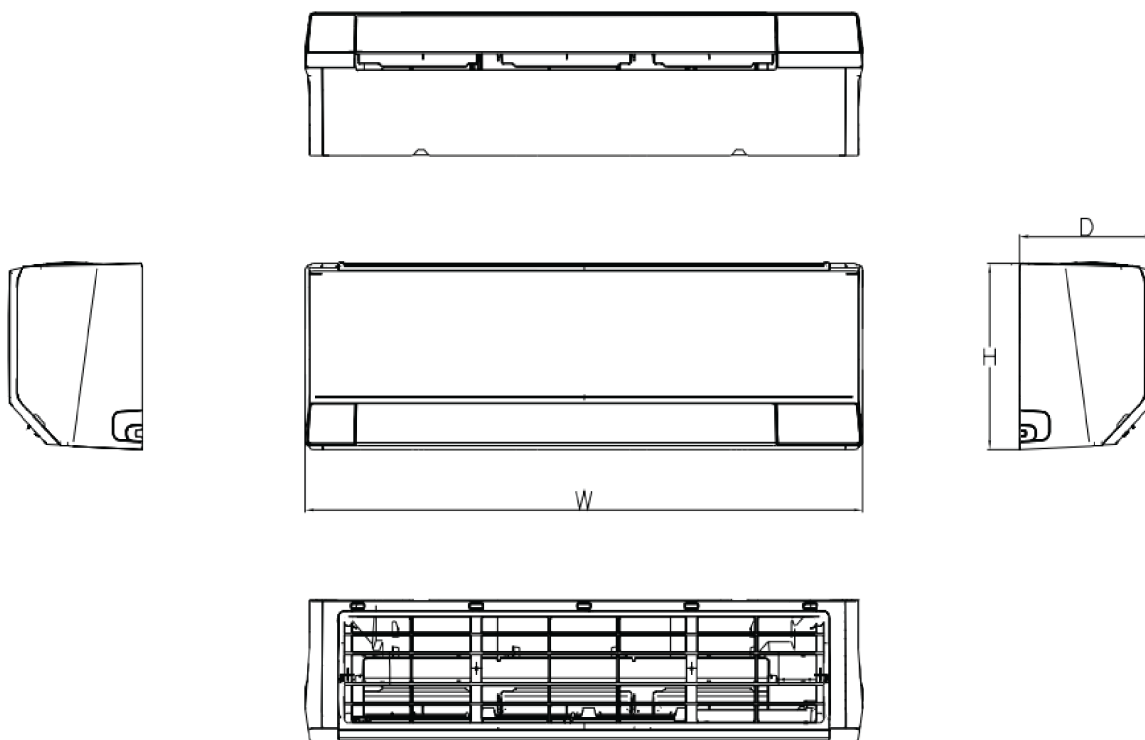
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| Indoor Model                                |                    |           | CH-RH18MASTWM-230VI                           |
|---------------------------------------------|--------------------|-----------|-----------------------------------------------|
| Power supply                                |                    | V, Ph, Hz | 208-230V, 1Ph, 60Hz                           |
| Communication wiring                        |                    |           | AWG 14-4                                      |
| Cooling                                     | Capacity           | Btu/h     | 18,000 (3,500~18,900)                         |
|                                             | Input              | W         | 1,406 (420~1,630)                             |
|                                             | Rated current      | A         | 6.3 (1.9~7.2)                                 |
|                                             | EER/EER2           | Btu/w     | 12.7                                          |
|                                             | SEER/SEER2         | Btu/w     | 23.5                                          |
| Heating at 47 °F                            | Capacity           | Btu/h     | 18,000 (7,700~21,000)                         |
|                                             | Input              | W         | 1,507 (415~1,910)                             |
|                                             | Rated current      | A         | 6.7 (2.3~8.4)                                 |
|                                             | COP                | W/W       | 3.5                                           |
|                                             | HSPF4/HSPF2-4      |           | 10.8                                          |
|                                             | HSPF5/HSPF2-5      |           | 8                                             |
| Indoor fan motor                            |                    | Qty       | 1                                             |
|                                             |                    | Input (W) | 30                                            |
|                                             |                    | RLA (A)   | 0.8                                           |
| Indoor air flow (Turbo/Hi/Med/Lo) (No duct) |                    | CFM       | 635.7 / 500.3 / 359 / 294.3                   |
| ESP (range)                                 |                    | In.wg.    |                                               |
| Indoor noise level (Hi/Med/Lo)              |                    | dB(A)     | 45/39/28                                      |
| Dehumidification                            |                    | Pnt/H     | 4.23                                          |
| Indoor unit                                 | Dimensions (WxDxH) | inch      | 40.31 x 9.69 x 12.64                          |
|                                             | Packing (WxDxH)    | inch      | 43.11x12.80x15.75                             |
|                                             | Net/Gross weight   | lbs       | 27.34/36.60                                   |
| Drainage water pipe diameter                |                    | inch      | 5/8"                                          |
| Refrigerant piping (Liquid side/Gas side)   |                    | inch      | 1/4"/1/2"                                     |
| Design pressure                             |                    | PSIG      | 550/340                                       |
| Controller                                  |                    |           | wire controller + remote controller available |
| Room temperature                            | Cooling            | F         | 60~90                                         |
|                                             | Heating            | F         | 32~86                                         |

| Outdoor Model                              |                          |           | CH-RES18-230VO        |
|--------------------------------------------|--------------------------|-----------|-----------------------|
| Power supply                               |                          | V, Ph, Hz | 208-230V, 1Ph, 60Hz   |
| Min. circuit ampacity                      |                          | A         | 18                    |
| Max. fuse                                  |                          | A         | 20                    |
| Compressor                                 | Model                    |           | KSN140D58UFZ          |
|                                            | Type                     |           | ROTARY                |
|                                            | Brand                    |           | GMCC                  |
|                                            | Capacity                 | Btu/h     | 14,720                |
|                                            | Input                    | W         | 1,090                 |
|                                            | Rated current (RLA)      | A         | 10                    |
|                                            | Refrigerant oil          | oz        | VG74 14.9             |
| Outdoor fan motor                          | Qty                      |           | 1                     |
|                                            | Input                    | W         | 80                    |
|                                            | RLA                      | A         | 0.9                   |
|                                            | Speed                    | r/min     | 780/700/550           |
| Outdoor air flow (Max)                     |                          | CFM       | 1,764.7               |
| Outdoor noise level (Max)                  |                          | dB(A)     | 58                    |
| Throttle type                              |                          |           | EXV+Throttle valve    |
| Outdoor unit                               | Dimensions (WxDxH)       | inch      | 35.04 x 13.46 x 26.5  |
|                                            | Packing (WxDxH)          | inch      | 39.17 x 15.67 x 29.13 |
|                                            | Net/Gross weight         | inch      | 92.59/100.31          |
| Refrigerant                                | Type                     |           | R454B                 |
|                                            | Precharge                | ft        | 25                    |
| Additional charge for 1/4 inch liquid pipe |                          | oz        | 0.16                  |
| Additional charge for 3/8 inch liquid pipe |                          | oz        | /                     |
| Refrigerant piping                         | Liquid side/Gas side     | inch      | 1/4"/1/2"             |
|                                            | Max. pipe length         | ft        | 98.4                  |
|                                            | Max. difference in level | ft        | 65.6                  |
| Ambient temperature                        | Cooling                  | F         | -13 ~ 122             |
|                                            | Heating                  | F         | -13~75                |





| Capacity | Body Code | Unit | W      | D     | H      |
|----------|-----------|------|--------|-------|--------|
| 6k~12k   | B         | mm   | 857    | 231   | 300    |
|          |           | inch | 33-3/4 | 9-1/8 | 11-3/4 |
| 18k      | C         | mm   | 1024   | 246   | 321    |
|          |           | inch | 40-1/4 | 9-3/4 | 12-5/8 |
| 24k~36k  | D         | mm   | 1197   | 280   | 371    |
|          |           | inch | 47-1/8 | 11    | 14-5/8 |