



SUBMITTAL - 18,000BTU CEILING CASSETTE - M25

Job Name:

Location:

Engineer:

Submitted By:

Submitted To:

WARRANTY

Standard 10 Years Parts & Compressor

Terms & Conditions Apply. TYPE

Air Source Heat Pump \checkmark Cold Climate Air Source Heat Pump

| IVI | DE | LS |
|-----|----|----|
| | | |

Indoor DUA18HICU230X5 Outdoor

DMA18HOS25230E8

| Cooling 4000 16000 16000 Heating 5700 19000 19000 HEATING PERFORMANCE ² Output (Btu/h) Min. Rated Max $47°F$ (8.3°C) 5700 19000 19000 $17°F$ (-8.3°C) 3600 12000 13600 $5°F$ (-15°C) 2600 12700 12700 $-13°F$ (-25°C) 1200 6500 6500 OUTDOOR TEMPERATURE OPERATING RANGE Cooling -25~50°C -13~122°F Heating ³ -25~24°C -13~75°F Flareet Line SET & REFRIGERANT Liquid (in.) 1/4" Gas (in.) 1/2 Connection Type Flareet Flareet Pre-Charge Length (ft) 98.4 Max. Length (ft) 98.4 Max. Length (ft) 98.4 Additional Charge per Foot (oz) 0.10 Oil Type VG74 Oil Volume (ml) 440 | | | _ | | |
|---|---------------------------------|-------------------------------|------------------|------------------|--------|
| $\begin{tabular}{ c $ | CAPACITY | RANGE ¹ | | | |
| Heating57001900019000HEATING PERFORMANCE2Output (Btu/h)Min.RatedMax $47^{\circ}F(8.3^{\circ}C)$ 57001900019000 $17^{\circ}F(-8.3^{\circ}C)$ 36001200013600 $5^{\circ}F(-15^{\circ}C)$ 26001270012700 $-13^{\circ}F(-25^{\circ}C)$ 120065006500OUTDOOR TEMPERATURE OPERATING RANGECooling $-25 \sim 50^{\circ}C$ $-13 \sim 122^{\circ}F$ Heating ³ $-25 \sim 24^{\circ}C$ $-13 \sim 75^{\circ}F$ LINE SET & REFRIGERANTLiquid (in.) $1/4^{"}$ Gas (in.) $1/4^{"}$ Gas (in.) $1/2$ Connection TypeFlaredPre-Charge Length (ft)29Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4100Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml)0il TypeVG74Oil Volume (ml) | Output (Btu/h) | | Min. | Rated | Max. |
| HEATING PERFORMANCE2Output (Btu/h)Min.RatedMax $47^{\circ}F$ (8.3°C)57001900019000 $17^{\circ}F$ (-8.3°C)36001200013600 $5^{\circ}F$ (-15°C)26001270012700 $-13^{\circ}F$ (-25°C)120065006500OUTDOOR TEMPERATURE OPERATING RANGECooling $-25\sim50^{\circ}C$ $-13\sim122^{\circ}F$ Heating3 $-25\sim24^{\circ}C$ $-13\sim75^{\circ}F$ LINE SET & REFRIGERANTLiquid (in.) $1/4^{"}$ Gas (in.) $1/2^{\circ}$ Connection TypeFlaredPre-Charge Length (ft)22Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeS6.44Additional Charge per Foot (oz)0.16Oil TypeVG74Oil Volume (ml)0440 | Cooling | | 4000 | 16000 | 16000 |
| Output (Btu/h) Min. Rated Max $47^{\circ}F(8.3^{\circ}C)$ 5700 19000 19000 $17^{\circ}F(-8.3^{\circ}C)$ 3600 12000 13600 $5^{\circ}F(-15^{\circ}C)$ 2600 12700 12700 $-13^{\circ}F(-25^{\circ}C)$ 1200 6500 6500 OUTDOOR TEMPERATURE OPERATION RANGE Cooling $-25^{\circ}50^{\circ}C$ $-13^{\circ}712^{\circ}F$ Heating ³ $-25^{\circ}24^{\circ}C$ $-13^{\circ}75^{\circ}F$ LINE SET & REFRIGERANT Liquid (in.) $1/4^{"}$ Gas (in.) $1/2^{\circ}C$ Connection Type Flared Pre-Charge Same and Max. Length (ft) $1/2^{\circ}C$ $65.0^{\circ}C$ Max. Length (ft) $98.4^{\circ}C$ $65.0^{\circ}C$ Refrigerant Type K4100/ Pre-Charge (oz) $56.4^{\circ}C$ $56.4^{\circ}C$ Additional Charge per Fort (oz) $0.16^{\circ}C$ $0.16^{\circ}C$ Oil Type VG74 $0.16^{\circ}C$ $0.16^{\circ}C$ | | Heating | 5700 | 19000 | 19000 |
| $47^{\circ}F(8.3^{\circ}C)$ 5700 19000 19000 $17^{\circ}F(-8.3^{\circ}C)$ 3600 12000 13600 $5^{\circ}F(-15^{\circ}C)$ 2600 12700 12700 $-13^{\circ}F(-25^{\circ}C)$ 1200 6500 6500 OUTDOOR TEMPERATURE OPERATING RANGE Cooling $-25 \sim 50^{\circ}C$ $-13 \sim 122^{\circ}F$ Heating ³ $-25 \sim 24^{\circ}C$ $-13 \sim 75^{\circ}F$ LINE SET & REFRIGERANT Liquid (in.) $1/4^{"}$ Gas (in.) $1/2$ Connection Type F lared Pre-Charge Length (ft) 98.4 Max. Length (ft) 98.4 Max. Height Difference (ft) 65.4 Nature of too (oz) 0.16 Pre-Charge (oz) 56.44 Additional Charge per Foot (oz) 0.16 Oil Volume (mil) 4440 | HEATING P | ERFORMAN | ICE ² | | |
| $17^{\circ}F(-8.3^{\circ}C)$ 3600 12000 13600 $5^{\circ}F(-15^{\circ}C)$ 2600 12700 12700 $-13^{\circ}F(-25^{\circ}C)$ 1200 6500 6500 OUTDOOR TEMPERATURE OPERATING RANGE Cooling $-25 \sim 50^{\circ}C$ $-13 \sim 122^{\circ}F$ Heating ³ $-25 \sim 24^{\circ}C$ $-13 \sim 75^{\circ}F$ LINE SET & REFRIGERANT Liquid (in.) $1/4^{"}$ Gas (in.) $1/2$ Connection Type Flared Pre-Charge Length (ft) 56.4 Max. Length (ft) 98.4 Max. Height Difference (ft) 65.0 65.0 Refrigerant Type S6.4 Additional Charge per Foot (oz) 0.16 Oil Type VG74 Oil Volume (ml) 440 | Output (Btu | u/h) | Min. | Rated | Max. |
| 5°F(-15°C) 2600 12700 12700 $-13°F(-25°C)$ 1200 6500 6500 OUTDOOR TEMPERATURE OPERATING RANGE Cooling $-25~50$ °C $-13~122$ °F Heating³ $-25~24$ °C $-13~75$ °F LINE SET & REFRIGERANT Liquid (in.) $1/4"$ Gas (in.) $1/2$ Connection Type Flared Pre-Charge Length (ft) 98.4 Max. Length (ft) 98.4 Max. Height Difference (ft) 65.0 Refrigerant Type R4104 Pre-Charge (oz) 56.44 Additional Charge per Foot (oz) 0.16 Oil Type VG74 Oil Vume (ml) | L | 17°F (8.3°C) | 5700 | 19000 | 19000 |
| $-13^{\circ}F(-25^{\circ}C)$ 1200 6500 6500 OUTDOOR TEMPERATURE OPERATING RANGE Cooling $-25^{\circ}50^{\circ}C$ $-13^{\circ}122^{\circ}F$ Heating ³ $-25^{\circ}24^{\circ}C$ $-13^{\circ}75^{\circ}F$ LINE SET & REFRIGERANT Liquid (in.) $1/4^{"}$ Gas (in.) $1/2^{\circ}C$ Connection Type Flared Pre-Charge Length (ft) 22 Max. Length (ft) 98.4 Max. Height Difference (ft) 65.0 Refrigerant Type R4100 Pre-Charge (oz) 56.44 Additional Charge per Foot (oz) 0.16 Oil Type VG74 Oil Volume (ml) | 1 | 7°F (-8.3°C) | 3600 | 12000 | 13600 |
| OUTDOOR TEMPERATURE OPERATING RANGECooling $-25 \sim 50 \ ^{\circ}C$ $-13 \sim 122 \ ^{\circ}F$ Heating³ $-25 \sim 24 \ ^{\circ}C$ $-13 \sim 75 \ ^{\circ}F$ LINE SET & REFRIGERANTLiquid (in.) $1/4^{"}$ Gas (in.) $1/2^{"}$ Connection $1/2^{"}$ ConnectionTypeFlaredPre-Charge Length (ft) $29^{"}$ Max. Length (ft) $98.4^{"}$ Max. Height Difference (ft) $65.0^{"}$ Refrigerant Type $8410^{"}$ Pre-Charge (oz) $56.4^{"}$ Additional Charge per Foot (oz) $0.16^{"}$ Oil TypeVG74Oil Volume (ml) | | 5°F (-15°C) | 2600 | 12700 | 12700 |
| Cooling $-25 \sim 50$ °C $-13 \sim 122$ °F Heating ³ $-25 \sim 24$ °C $-13 \sim 75$ °F LINE SET & FEFRIGERANT Liquid (in.) $1/4^{"}$ Gas (in.) $1/2$ Connection Type Flared Pre-Charge Length (ft) 98.4 Max. Length (ft) 98.4 Max. Height Difference (ft) 65.0 Refrigerant Type R4100 Pre-Charge (oz) 56.44 Additional Charge per Fot (oz) 0.16 Oil Type VG74 Oil Volume (ml) | -1 | .3°F (-25°C) | 1200 | 6500 | 6500 |
| Heating³ $-25 \sim 24 \ ^{\circ}$ C $-13 \sim 75 \ ^{\circ}$ FLINE SET & REFRIGERANTLiquid (in.) $1/4^{"}$ Gas (in.) $1/2$ ConnectionTypeFlarePre-Charge Length (ft)29Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.16Oil TypeVG74Oil Volume (ml)440 | OUTDOOR | TEMPERAT | URE OPERA | TING RANG | βE |
| LINE SET & REFRIGERANTLiquid (in.)1/4"Gas (in.)1/2Connection TypeFlaredPre-Charge Length (ft)29Max. Length (ft)98.4Max. Length (ft)98.4Max. Height Difference (ft)65.6Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.16Oil TypeVG74Oil Volume (ml)440 | Cooling | -25~50 | °C | -13 ~ 122 | °F |
| Liquid (in.) $1/4"$ Gas (in.) $1/2$ Connection TypeFlaredPre-Charge Length (ft)29Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | Heating ³ | -25 ~ 24 | °C | -13 ~ 75 | °F |
| Connection TypeFlaredPre-Charge Length (ft)29Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | LINE SET & | REFRIGERA | NT | | |
| Pre-Charge Length (ft)2!Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | Liquid (in.) | 1/4" | | Gas (in.) | 1/2" |
| Max. Length (ft)98.4Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | Connection Type | | | | Flared |
| Max. Height Difference (ft)65.0Refrigerant TypeR4104Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | Pre-Charge | Length (ft) | | | 25 |
| Refrigerant TypeR410/Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml) | Max. Lengt | 98.4 | | | |
| Pre-Charge (oz)56.44Additional Charge per Foot (oz)0.16Oil TypeVG74Oil Volume (ml) | Max. Heigh | 65.6 | | | |
| Additional Charge per Foot (oz)0.10Oil TypeVG74Oil Volume (ml)440 | Refrigerant Type | | | | R410A |
| Oil Type VG74 Oil Volume (ml) 440 | Pre-Charge | 56.44 | | | |
| | Additional Charge per Foot (oz) | | | | 0.16 |
| Drain Pipe O.D. (mm) 25 | Oil Type | Oil Type VG74 Oil Volume (ml) | | | |
| | Drain Pipe O.D. (mm) | | | | 25 |

Submitted For:

Reference

Approval

Date:

Construction

Unit Tag:

Drawing No.:





Images for reference only.

| CERTIFIED | | | - | |
|------------------|-----------|------------|--------------|-------------|
| AHRI NO. | | | 2 | |
| 20774 | 42504 | | L) US TED | energy Star |
| EFFICIENCY | (RATINGS | | | |
| SEER2 | | | | 20.5 |
| EER2 | | | | 12.5 |
| HSPF2 (4) | | | | 10.5 |
| HSPF2 (5) | | | | 8 |
| COP ² | 47°F | 17°F | 5°F | -13°F |
| | (8.3°C) | (-8.3°C) | (-15°C) | (-25°C) |
| | 2.78 | 2.51 | 2.16 | 1.5 |
| ELECTRICA | L | | | |
| Power Sup | ply | (V/Ph/Hz) | 208-230/1/6 | |
| Voltage Ra | nge | (V) 187-25 | | 187-253 |
| MCA (A) | 19 | Max Fuse | e (ODU) (A) | 30 |
| Power Inpu | ıt (W) | Min. | Rated | Max. |
| | Cooling | 230 | 1340 | 1340 |
| | Heating | 470 | 1950 | 1950 |
| Current (A) | | Min. | Rated | Max. |
| | Cooling | 1.9 | 6 | 6.01 |
| | Heating | 3.23 | 8.21 | 8.21 |

1. Cooling Capacity Conditions: Indoor Temperature @ 80°F (26.7°C) DB; 67°F (19.4°C) WB with Outdoor Temperature @ 95°F (35°C) DB; 75°F (23.9°C) WB. Heating Capacity Conditions: Indoor Temperature @ 70°F (21.1°C) DB; 60°F (15.6°C) WB with Outdoor Temperature @ 47°F (8.3°C) DB; 43°F (6.1°C) WB. Line Set @ 25ft (7.5m); Height Difference @ 0ft (0m). 2. COP for all temperatures is @ rated output except when rated output is not given. In that case, COP is @ max. output. 3. System continues to operate below rated outdoor temperature operating range, subject to varying conditions. System has no low temperature cutout. Capacity is not tested outside of the rated temperature range. | Master Group is not responsible for the accuracy and validity of any changes made to this document without the written authorization of Master Group. Specifications subject to change without notice.





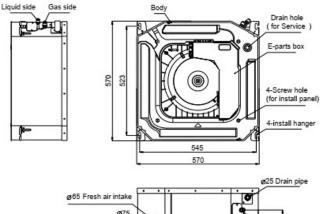
| DIMENSIONS & WEIGHTS | | | | | | |
|---------------------------------|--------------------------------------|-----------------------|------------|--|--|--|
| Indoor | Net (WxDxH; in.) 22.44x22 | | 2.44x10.24 | | | |
| | Gross (WxDxH; in.) 26.06x26 | | 6.06x12.48 | | | |
| | Net Weight lbs kg | 16.2 | | | | |
| | Gross Weight lbs kg | 46.96 | 21.3 | | | |
| Outdoor | Net (WxDxH; in.) | 35.04x1 | 3.46x26.50 | | | |
| | Gross (WxDxH; in.) 39 | | | | | |
| | Net Weight lbs kg | Weight lbs kg 94.36 | | | | |
| | Gross Weight lbs kg | 45.8 | | | | |
| KEY FEATU | JRES | | | | | |
| Rotary Inv | erter Compressor | | ~ | | | |
| Twin Rotary Inverter Compressor | | | | | | |
| Base Pan H | ~ | | | | | |
| Crankcase Heater | | | | | | |
| INCLUDED | ACCESSORIES | | | | | |
| RG10B(D1 | RG10B(D1)/BGEFU1 - Remote Controller | | | | | |
| | | | | | | |

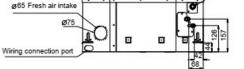
| FAN | | | | | | |
|-----------------------------------|------------|-----------|------|------|--|--|
| Indoor | Turbo | High | Med. | Low | | |
| CFM | | 562 | 485 | 438 | | |
| dB(A) | | 46 | 41.5 | 39.5 | | |
| Indoor ESP | Range inWo | G | | | | |
| Indoor Moi | sture Remo | val (l/h) | | 2.27 | | |
| Outdoor M | ax. CFM | | | 2059 | | |
| Outdoor M | ax. dB(A) | | | 60.5 | | |
| OPTIONAL ACCESSORIES ⁴ | | | | | | |
| CASSETTEG | | | | | | |
| WF-60A1-F | | | | | | |
| KJR-120L(R | | | | | | |
| KJR-120N(X | | | | | | |
| KJR-120N(X | | | | | | |
| 24VINTERF | ACEKITUNI\ | /ERSAL | | | | |
| | | | | | | |
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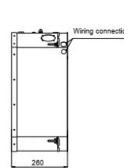
Panel

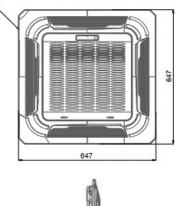
INDOOR UNIT DRAWING











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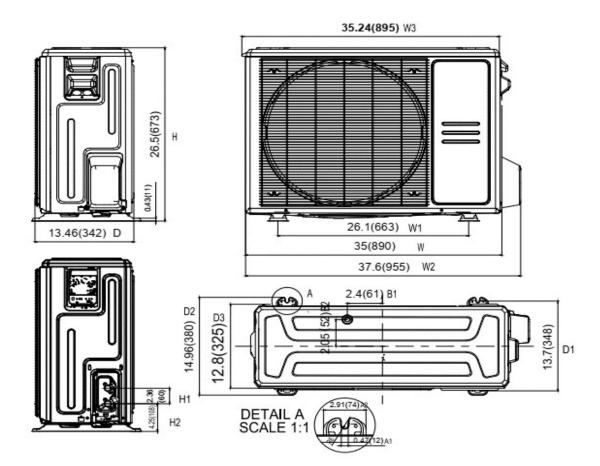
| Тад | | | | | |
|--------|--|--|--|--|--|
| inches | | | | | |
| mm | | | | | |

Drawing dimensions are nominal. Specifications subject to change without notice. 4. Connection of these accessories may require secondary items not listed; refer to full product literature.

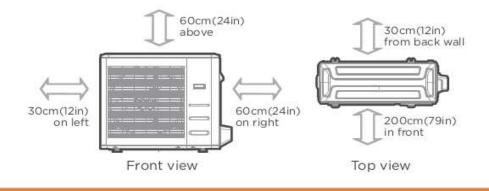




OUTDOOR UNIT DRAWING



OUTDOOR UNIT CLEARANCES



Note: Outdoor units must be elevated 12-24in. (30.5-61cm) above the surface below in heating applications to allow for snow clearance and defrost runoff. Follow local bestpractices and guidelines.

NOTES

Specifications subject to change without notice.

SUB_M_S18HIC_0_M25 Sept-24

22022016018180

Diagrams for reference only.