

Inverter Heat Pump Systems • Up to 15.5 SEER2 • Platinum Light Series

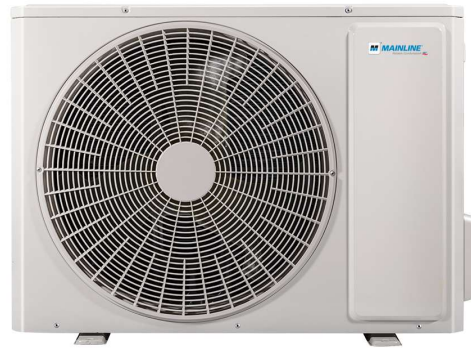
Product Specifications



MAINLINE

Reliably Comfortable.®

The Mainline Platinum light series is an inverter driven, high efficiency, forced air ducted heating & cooling system. Features a smaller footprint with dramatically lower noise levels. These systems utilize R-410A refrigerant, and are compatible with standard 24 volt thermostats. 208/230 volt, single phase only.



FEATURES

- Low ambient cooling operation to 5°F
- Heating to 5°F
- Upflow or horizontal airflow only. Not downflow configurable.
- Base pan heater
- 2 to 5 Ton capacities
- Flare connection
- High & low pressure protection
- Intelligent defrost eliminates unnecessary defrost cycles & prevents cold airflow at startup
- Optional electric heater kits available
- Side discharge condenser
- Diagnostic troubleshooting
- Adjustable defrost
- Field selectable airflow levels
- Pre-Charged for 25' of line set
- Over 100' maximum line set length
- Precision electronic expansion valve

| Available 208/230 Volt Model | |
|------------------------------|--------------|
| Outdoor Model | Indoor Model |
| BBD24W2DDU | BBD24AH2DDU |
| BBD30W2DDU | BBD30AH2DDU |
| BBD36W2DDU | BBD36AH2DDU |
| BBD42W2DDU | BBD42AH2DDU |
| BBD48W2DDU | BBD48AH2DDU |
| BBD60W2DDU | BBD60AH2DDU |

BB Prefix = Mainline Branded Product

TU Prefix = Tosot Branded Product

| Available Electric Heater Kit Model 208/230-1 Phase | |
|--|------------------|
| LYQ-08-A | 5KW – 208/230-1 |
| LYQ-08-B | 8KW – 208/230-1 |
| LYQ-08-C | 10KW – 208/230-1 |
| LYQ-08-D | 15KW – 208/230-1 |
| LYQ-08-E | 20KW – 208/230-1 |

Warranty

See warranty information for more details.

All dimensions listed are nominal. MAINLINE® reserves the right to make product and material changes at any time without notice.



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TECHNICAL SPECIFICATIONS

| Outdoor Model | Indoor Model | Nominal BTUH | Clg. Cap. BTUH | Htg. Cap. BTUH | SEER2 |
|---------------|--------------|--------------|----------------|----------------|-------|
| BBD24W2DDU | BBD24AH2DDU | 24,000 | 23,000 | 23,000 | 15.5 |
| BBD30W2DDU | BBD30AH2DDU | 30,000 | 28,600 | 28,600 | 15.2 |
| BBD36W2DDU | BBD36AH2DDU | 36,000 | 34,000 | 34,000 | 15.5 |
| BBD42W2DDU | BBD42AH2DDU | 42,000 | 40,000 | 40,000 | 15.5 |
| BBD48W2DDU | BBD48AH2DDU | 48,000 | 46,000 | 46,000 | 15 |
| BBD60W2DDU | BBD60AH2DDU | 60,000 | 54,000 | 54,000 | 15.2 |

| Outdoor Model | Indoor Model | Liq. Conn. (Flare) | Suct. Conn. (Flare) | Refrig. Charge | Charge Length | Max Pipe Length | Add'l Charge Oz/Ft. | Max. Vert. Rise |
|---------------|--------------|--------------------|---------------------|----------------|---------------|-----------------|---------------------|-----------------|
| BBD24W2DDU | BBD24AH2DDU | 3/8" | 3/4" | 70.6 Oz. | 25' | 98' | .2 | 49' |
| BBD30W2DDU | BBD30AH2DDU | 3/8" | 3/4" | 77.6 Oz. | 25' | 98' | .2 | 49' |
| BBD36W2DDU | BBD36AH2DDU | 3/8" | 3/4" | 105.8 Oz. | 25' | 164' | .2 | 98' |
| BBD42W2DDU | BBD42AH2DDU | 3/8" | 3/4" | 123.5 Oz. | 25' | 164' | .2 | 98' |
| BBD48W2DDU | BBD48AH2DDU | 3/8" | 3/4" | 158.8 Oz. | 25' | 164' | .2 | 98' |
| BBD60W2DDU | BBD60AH2DDU | 3/8" | 3/4" | 197.6 Oz. | 25' | 164' | .2 | 98' |

SEER2=Seasonal Energy Efficiency Ratio – M1 Compliant
 EER2=Energy Efficiency Ratio – M1 Compliant
 HSPF2=Heating Season Performance Factor – M1 Compliant
 COP=Coefficient of Performance
 MOP = Maximum Overcurrent Protection
 MCA = Minimum Circuit Ampacity



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ELECTRICAL SPECIFICATIONS

| Outdoor Model | MOP | MCA | Indoor Weight | Outdoor Weight |
|---------------|-----|-----|---------------|----------------|
| BBD24W2DDU | 20 | 17 | 125 Lbs. | 99 Lbs. |
| BBD30W2DDU | 25 | 20 | 125 Lbs. | 119 Lbs. |
| BBD36W2DDU | 30 | 23 | 154 Lbs. | 132 Lbs. |
| BBD42W2DDU | 35 | 25 | 154 Lbs. | 132 Lbs. |
| BBD48W2DDU | 40 | 29 | 198 Lbs. | 164 Lbs. |
| BBD60W2DDU | 45 | 32 | 189 Lbs. | 200 Lbs. |

SEER2=Seasonal Energy Efficiency Ratio – M1 Compliant
 EER2=Energy Efficiency Ratio – M1 Compliant
 HSPF2=Heating Season Performance Factor – M1 Compliant
 COP=Coefficient of Performance
 MOP = Maximum Overcurrent Protection
 MCA = Minimum Circuit Ampacity

| Indoor Model | No heat | | 5 kw Heat | | 8kw Heat | | 10kw Heat | | 15kw Heat | | 20kw Heat | |
|--------------|---------|-----|-----------|-----|----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | Kit | | Kit | | Kit | | Kit | | Kit | | Kit | |
| | MOP | MCA | MOP | MCA | MOP | MCA | MOP | MCA | MOP | MCA | MOP | MCA |
| BBD24AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | NA | NA | NA | NA |
| BBD30AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | NA | NA | NA | NA |
| BBD36AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | NA | NA | NA | NA |
| BBD42AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | 90 | 75 | 120 | 100 |
| BBD48AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | 90 | 75 | 120 | 100 |
| BBD60AH2DDU | 15 | 5 | 30 | 25 | 45 | 40 | 60 | 50 | 90 | 75 | 120 | 100 |

SYSTEM COMBINATION CHART

| AHRI Number | Brand | Outdoor Model | Indoor Model | SEER2 | EER2 | HSPF2 | Clg. Cap. | Htg. Cap. |
|-------------|-------|---------------|--------------|-------|------|-------|-----------|-----------|
| 211078853 | TOSOT | BBD24W2DDU | BBD24AH2DDU | 15.5 | 10.5 | 7.8 | 23,000 | 23,000 |
| 211078854 | TOSOT | BBD30W2DDU | BBD30AH2DDU | 15.2 | 10 | 7.8 | 28,600 | 28,600 |
| 211078855 | TOSOT | BBD36W2DDU | BBD36AH2DDU | 15.5 | 10 | 7.7 | 34,000 | 34,000 |
| 211078856 | TOSOT | BBD42W2DDU | BBD42AH2DDU | 15.5 | 10 | 7.8 | 40,000 | 40,000 |
| 211078857 | TOSOT | BBD48W2DDU | BBD48AH2DDU | 15 | 8.6 | 7.8 | 46,000 | 46,000 |
| 211078858 | TOSOT | BBD60W2DDU | BBD60AH2DDU | 15.2 | 10 | 7.8 | 54,000 | 54,000 |

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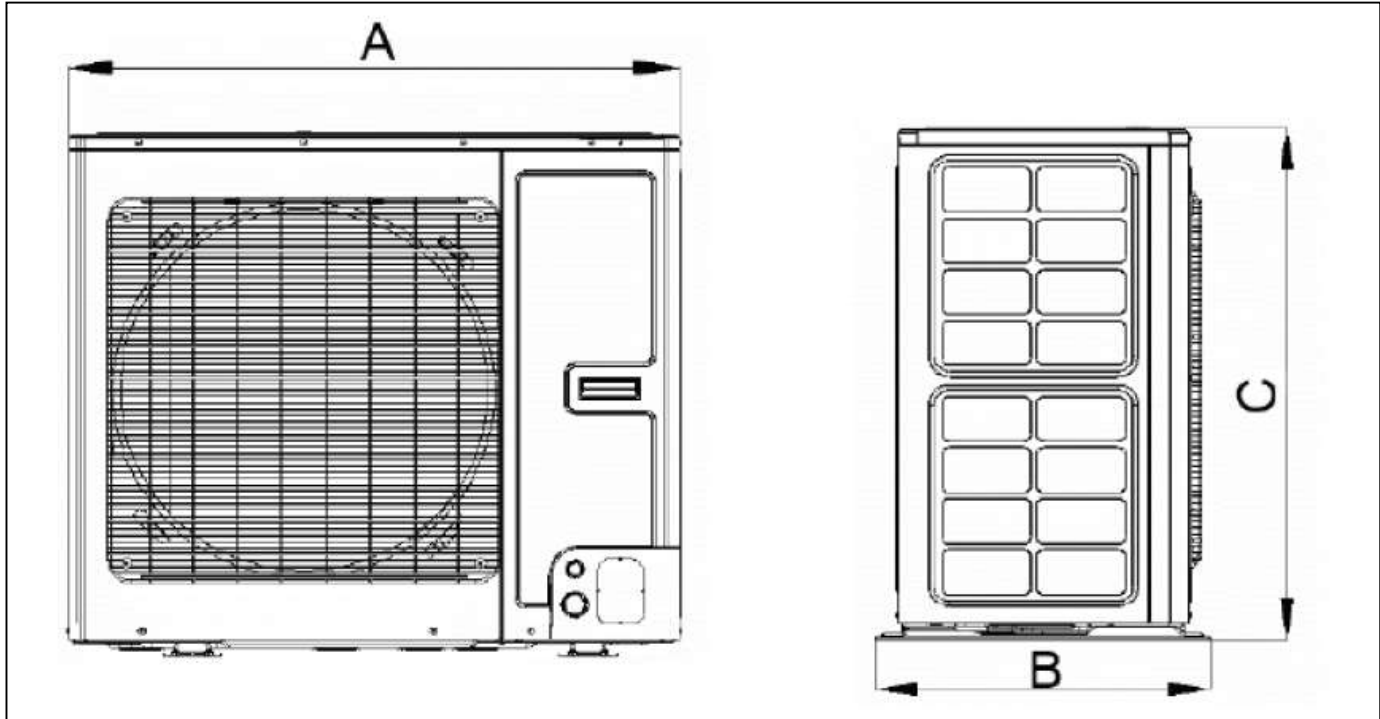
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| Model | Dimensions | | |
|------------|------------|-----------|-----------|
| | A | B | C |
| BBD24W2DDU | 35" | 15-13/16" | 25-7/8" |
| BBD30W2DDU | 36-5/16" | 16-13/16" | 29-3/8" |
| BBD36W2DDU | 36-5/16" | 16-13/16" | 29-3/8" |
| BBD42W2DDU | 37-1/8" | 16-13/16" | 32-1/2" |
| BBD48W2DDU | 37-1/8" | 16-13/16" | 32-1/2" |
| BBD60W2DDU | 39" | 16-13/16" | 37-13/16" |



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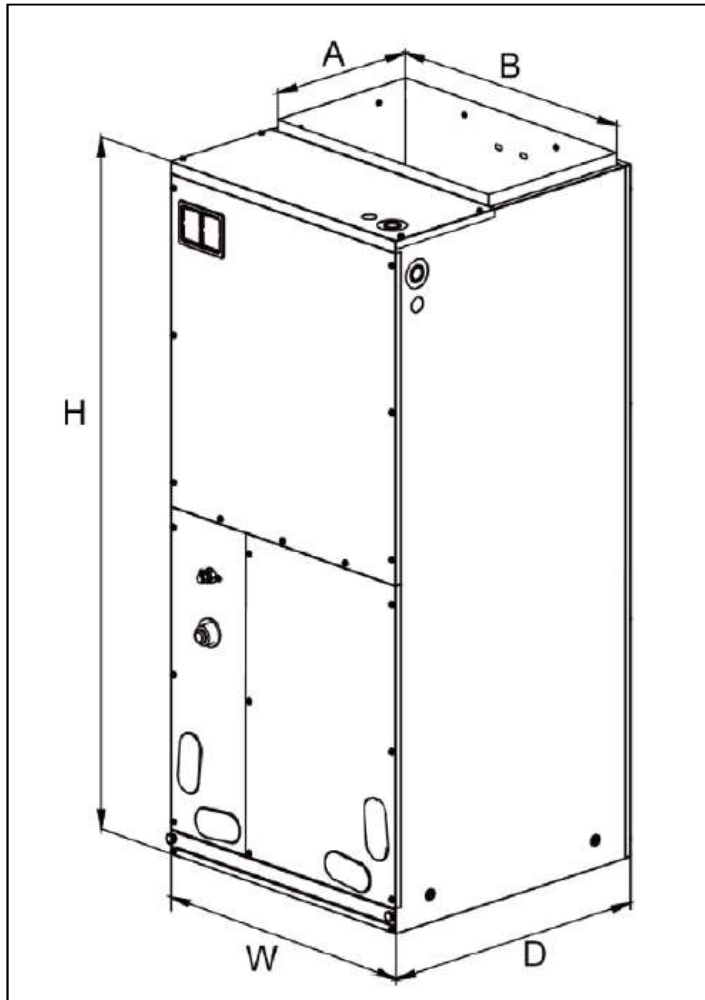
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| Model | Dimensions | | | | |
|-------------|------------|---------|----------|---------|---------|
| | W | D | H | A | B |
| BBD24AH2DDU | 18-1/8" | 21-1/4" | 43-1/2" | 11-5/8" | 16-3/4" |
| BBD30AH2DDU | 18-1/8" | 21-1/4" | 43-1/2" | 11-5/8" | 16-3/4" |
| BBD36AH2DDU | 21-1/4" | 21-1/4" | 48-3/16" | 11-5/8" | 20" |
| BBD42AH2DDU | 21-1/4" | 21-1/4" | 48-3/16" | 11-5/8" | 20" |
| BBD48AH2DDU | 24-13/16" | 21-1/4" | 52" | 11-5/8" | 20" |
| BBD60AH2DDU | 24-13/16" | 21-1/4" | 52" | 11-5/8" | 20" |



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