

For: File Resubmit Approval Other _____

V3642B-1EC1/EC2BX

3.5-ton Vertical AHU

| | |
|-------------|--------------|
| Job Name: | Location: |
| Date: | Tag #: |
| Architect: | Engineer: |
| Mechanical: | Distributor: |
| Rep: | |

(Company)

(Project Manager)



V3642B-1EC2BX



Control Box



EZ Trap



TXV

Indoor Unit Size

3642

Features

- Easy service EC Motor (Variable Speed)
- Removable access panels for ease of service
- ASHRAE 62.2-2010 ventilation mode
- Use as cooling only or heat pump
- Optional hot water coil for heating
- Heavy-duty closed cell insulation (no exposed fiberglass insulation)
- Includes (shipped loose):
 - R-410A TXV
 - Condensate trap
 - S.M.A.R.T. control board

General Data:

| | |
|--|---|
| Compatible Outdoor unit nominal capacity | 3.0 to 4.0-ton* (7.0 to 10.5 kW) |
| Fan Speeds | Variable |
| Maximum Motor Speed | 1800 RPM |
| Nominal Airflow | 900 CFM (425 L/s) |
| Static Pressure at Nominal Airflow | 1.5 in. w.g. (0.373 kPa) |
| Sound Pressure (high) | 56 dB(A) |
| Rated performance | see AHRI directory** |
| Net coil face area | 4.75 ft ² (0.44 m ²) |
| Tube diameter | 3/8 in. (9.52 mm) |
| Number of rows | 3 (B) 4 (E) |
| Number of Circuits | 6 (B) 8 (E) |
| Fin density | 15/in. (590/m) (B) 14/in. (551/m) (E) |
| Design pressure | 500 psig (3.45 MPa) |
| Refrigerant type | R410A, R22, R407C |
| Suction line size | 3/4 in. (19.05 mm) OD |
| Liquid line size | 3/8 in. (9.52 mm) OD |
| Drain size | 3/4" FNPT |
| Net unit weight | 163 lbs. (74 kg) |
| Shipping Weight | 227 lbs. (103 kg) |

* Use 4-ton TXV (A00808-015) when matched to a 4-ton outdoor unit

** www.ahridirectory.org

Operating Range:

| | |
|------------------|--|
| Nominal Capacity | 3.5-ton (10.5 kW) |
| Airflow Range | 300 to 1200 CFM (510 to 2039 m ³ /h) |

Electrical:

| Motor Type | 1EC1 | 1EC2 |
|-----------------------------|-------------------------------|-----------|
| Electrical Power | 1Ph, 50/60 Hz, 1 HP (0.75 kW) | |
| Voltage | 120V | 208-230 V |
| Min. Circuit Ampacity | 12.8 A | 7.7 A |
| Max. Overcurrent Protection | 20 A | 15 A |
| Motor Full Load Current | 10.5 A | 6.1 A |
| Allowable Breaker Sizes | 20 A | 15 A |

Optional Accessories:

- Hot water coil (HW-3642)
- Control box extension cable, 98" (2.5 m) (A01525-G02)

Notes:

1. All wiring and piping must comply with applicable local and national code.
2. Absolute operating voltage range: 198 – 253V.
3. Refer to installation manual for more information.

Model Number Key:

| V | 3642 | B | - | 1 | EC* | B | X |
|--------------|-------------------------------|---------------|---|----------|--------------------------------|--------------------------|--------------------------------|
| Model Series | Matching ODU Nominal Capacity | Configuration | | Revision | Motor Style | Cooling Coil | Heating Coil |
| V = Vertical | 3642 = 36000 to 42000 Btu/hr | B = Both | | | EC1 = 120V EC2 = 208 – 230V | B = 3 rows E = 4 rows | X = None H = Hot Water Coil |

ODU = Outdoor Unit

Note – for continuous product improvement, Unico reserves the right to change specifications without notice.

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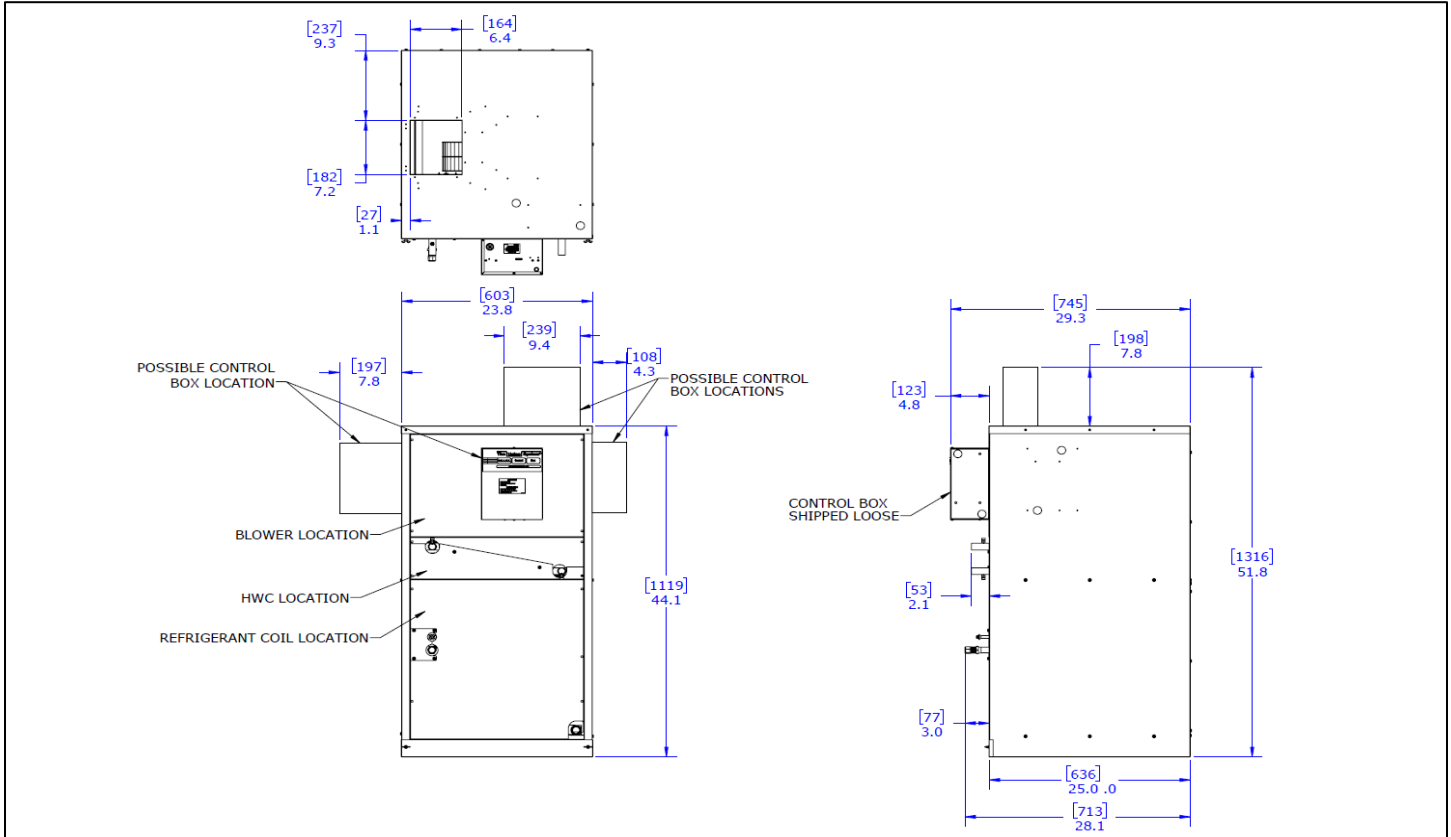
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Location:

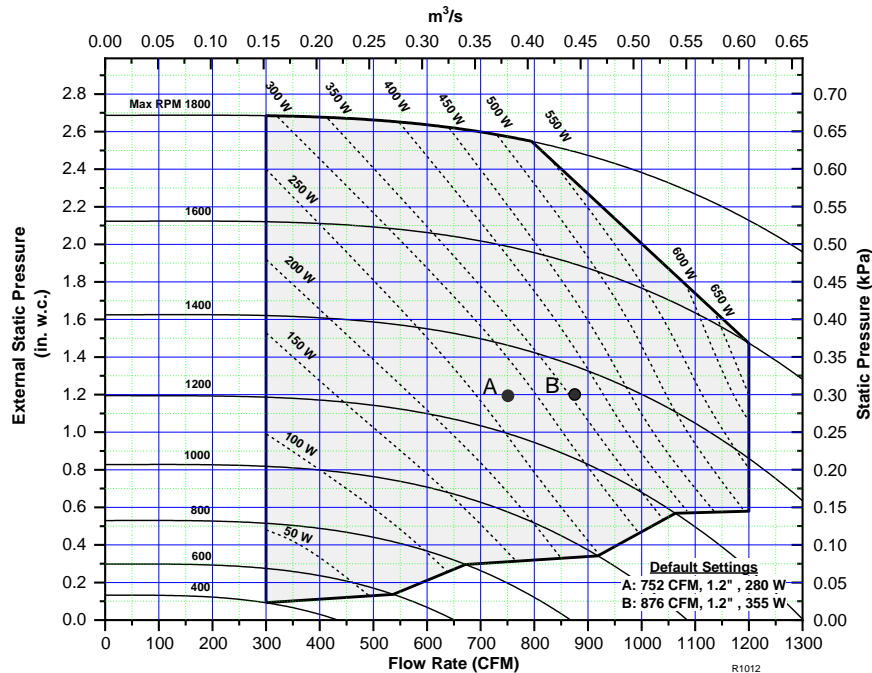
Date:

Tag #:

RETURN AIR PLENUM MODULE DIMENSIONS



* Contact Unico for dimensions of assembled modules.



* Shaded Area Represents the Operating Range

R1012
 MB3642EC Operating Envelope
 3/25/2010

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