

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other _____

V3642B-*EC***1 3.5-ton Vertical AHU

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

(Company)

(Project Manager)



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):
 - R454B/R32 sensor and mitigation control
 - Condensate trap
 - S.M.A.R.T. control board

Indoor Unit Size

3642

Operating Range:

Nominal Capacity	3.5-ton (10.5 kW)
Airflow Range	300 to 1200 CFM (510 to 2039 m³/h)

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 ft² (0.44 m²)
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	R454B / R32
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)

Electrical:

Control Box Style	EC2	EC3
Voltage	120V/208V/230V	
Power Supply (Hz, Ph)	50/60, 1	
Full Load Current	5.6 A/3.2 A	
Min. Circuit Ampacity	7.0 A/4.0 A	
Max. Overcurrent Protection	15 A	
Allowable Breaker Sizes	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.

* Use 4-ton TXV when matched to a 4-ton outdoor unit

** www.ahridirectory.org

Model Number Key:

V	3642	B	-	1	EC*	B	X	0	1
Model Series	Matching ODU	Configuration		Revision	Motor Style	Cooling Coil	Heating Coil	Coil Coating	Refrigerant Type
V = Vertical	Nominal Capacity 3642 = 36000 to 42000 Btu/hr	B = Both		1 = USB	EC2 = 120V – 208/230V EC3 = 120V – 208/230V, CE/UKCA marked	B = 3 rows E = 4 rows	X = None H = Hot Water Coil	0 = No coating C = E-Coated	1 = A2L

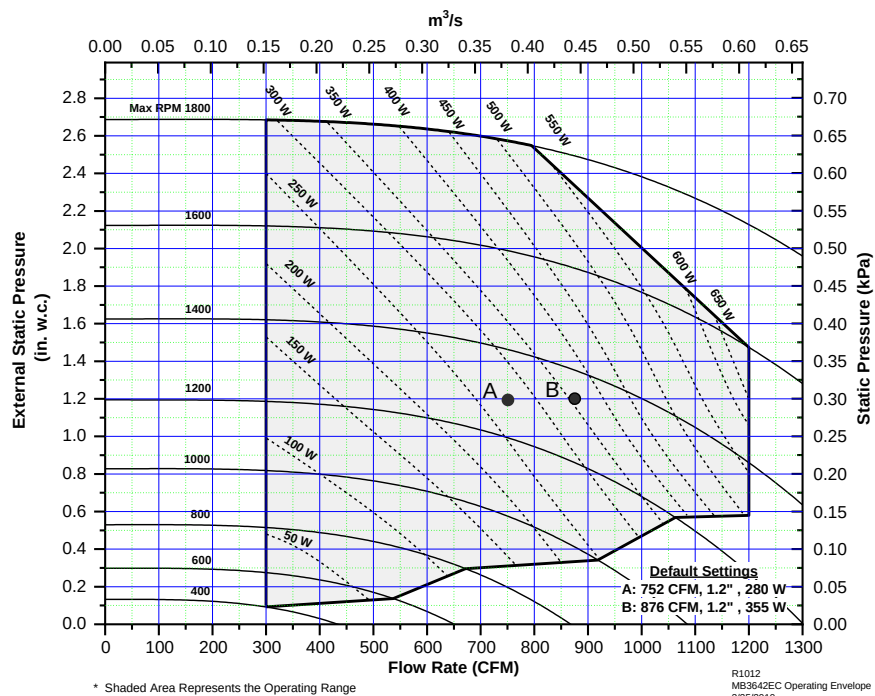
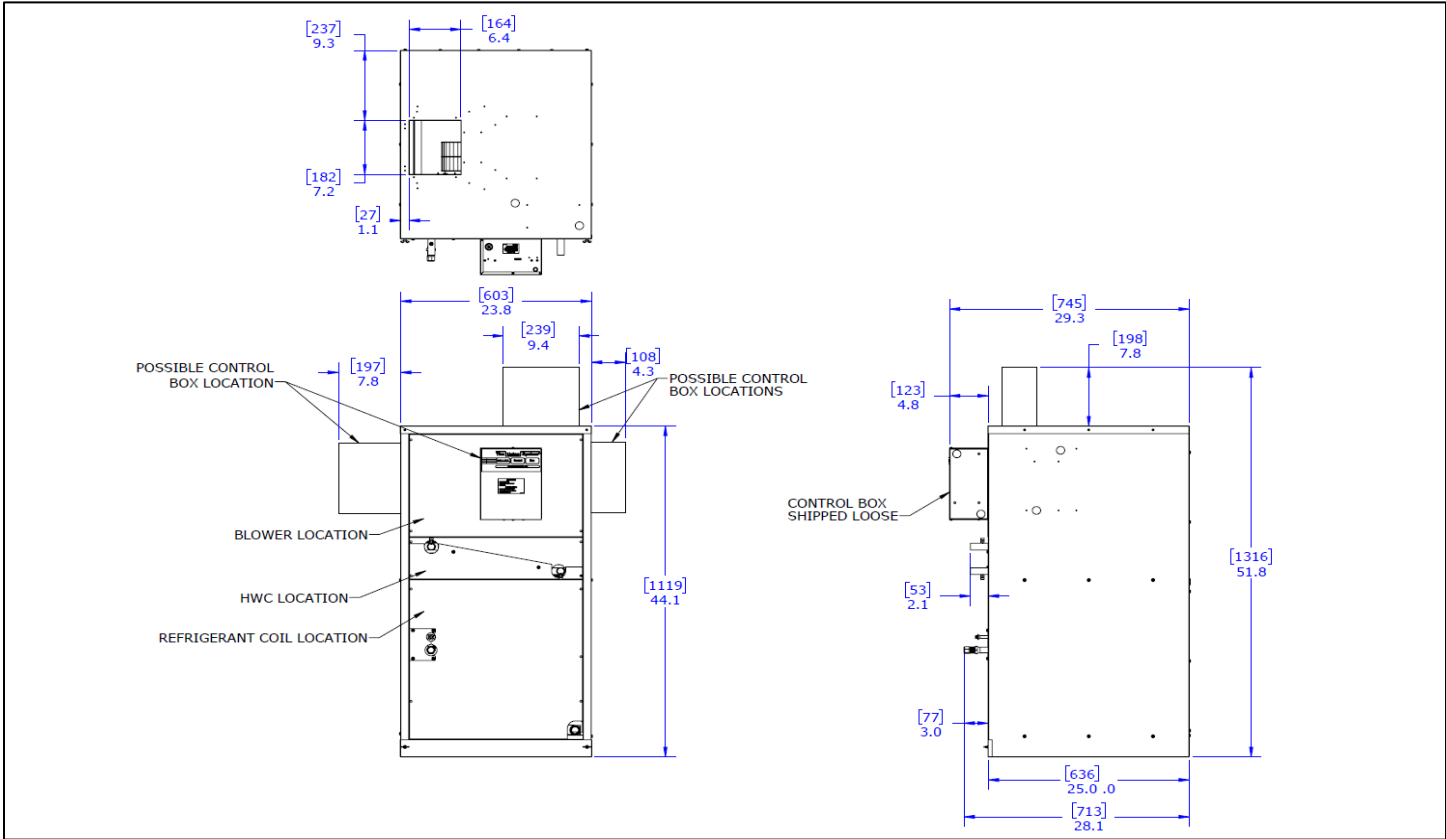
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RETURN AIR PLENUM MODULE DIMENSIONS



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