

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other _____

V3642B-*EC*C*

3.5-ton Vertical AHU w/ Chilled Water Coil

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

(Company)

(Project Manager)



V3642B-1EC2CX



Control Box



EZ Trap

Features

- Easy service EC Motor (Variable Speed)
- Removable access panels for ease of service
- ASHRAE 62.2-2010 ventilation mode
- Optional hot water coil for heating
- Heavy-duty closed cell insulation (no exposed fiberglass insulation)
- Programmable airflow using USB and PC
- Constant Airflow Blower (6 modes)
- Includes (shipped loose):
 - Condensate trap
 - S.M.A.R.T. control board

Indoor Unit Size

3642

General Data:

Maximum Motor Speed	1800 RPM
Nominal Airflow	875 CFM (413 L/s)
Static Pressure at Nominal Airflow	1.5 in. w.g. (0.373 kPa)
Sound Pressure (high)	56 dB(A)
Net Coil Face Area	4.75 ft ² (0.44 m ²)
Tube Diameter	3/8 in. (9.52 mm)
Number of Rows	4
Number of Circuits	10
Fin Density	14/in. (551/m)
Coil Design Pressure	320 psig (2.2 MPa)
Cooling Temperature Range	40 – 50°F (4.4 – 12.8°C)
Heating Temperature Range	95 – 140°F (35 – 60°C)
Fluid Type	Water/Water-Glycol
Connection Size	7/8 in. (22.2 mm) OD
Drain Size	3/4" FNPT
Net Unit Weight	163 lbs. (74 kg)
Shipping Weight	227 lbs. (103 kg)

Operating Range:

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

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-V3642)
- ☐ Control box extension cable, 59" (1.5 m) (A01525-G01)

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*	C	X
Model Series	Matching ODU	Configuration		Revision	Motor Style	Cooling Coil	Heating Coil
V = Vertical	Nominal Capacity	B = Both		1 = USB	EC2 = 120V – 208/230V	C = Chilled Water Coil	X = None
	3642 = 36000 to 42000 Btu/hr				EC3 = 120V – 208/230V, CE/UKCA marked		H = Hot Water Coil

V3642B-*EC*C*

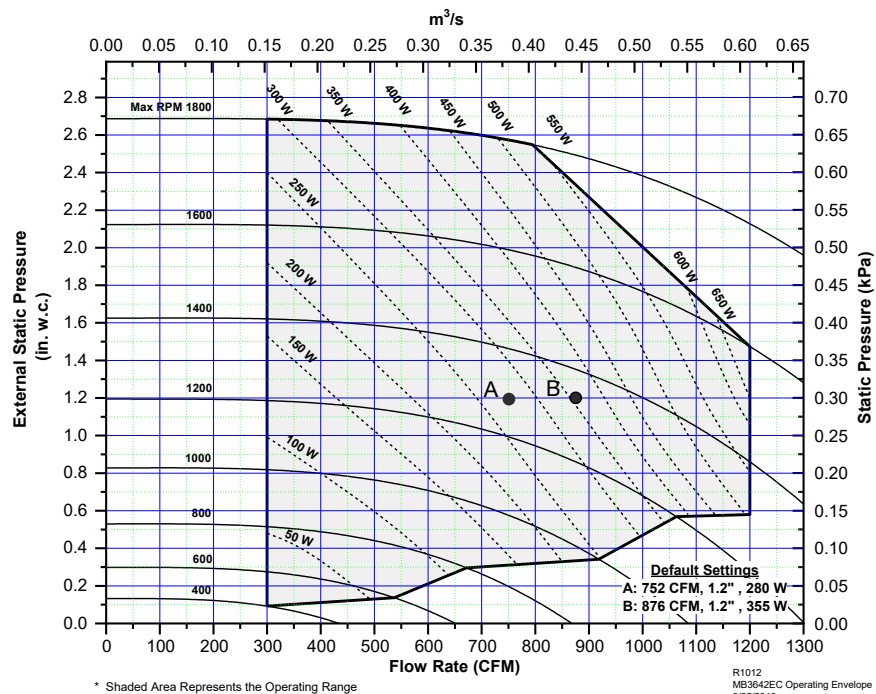
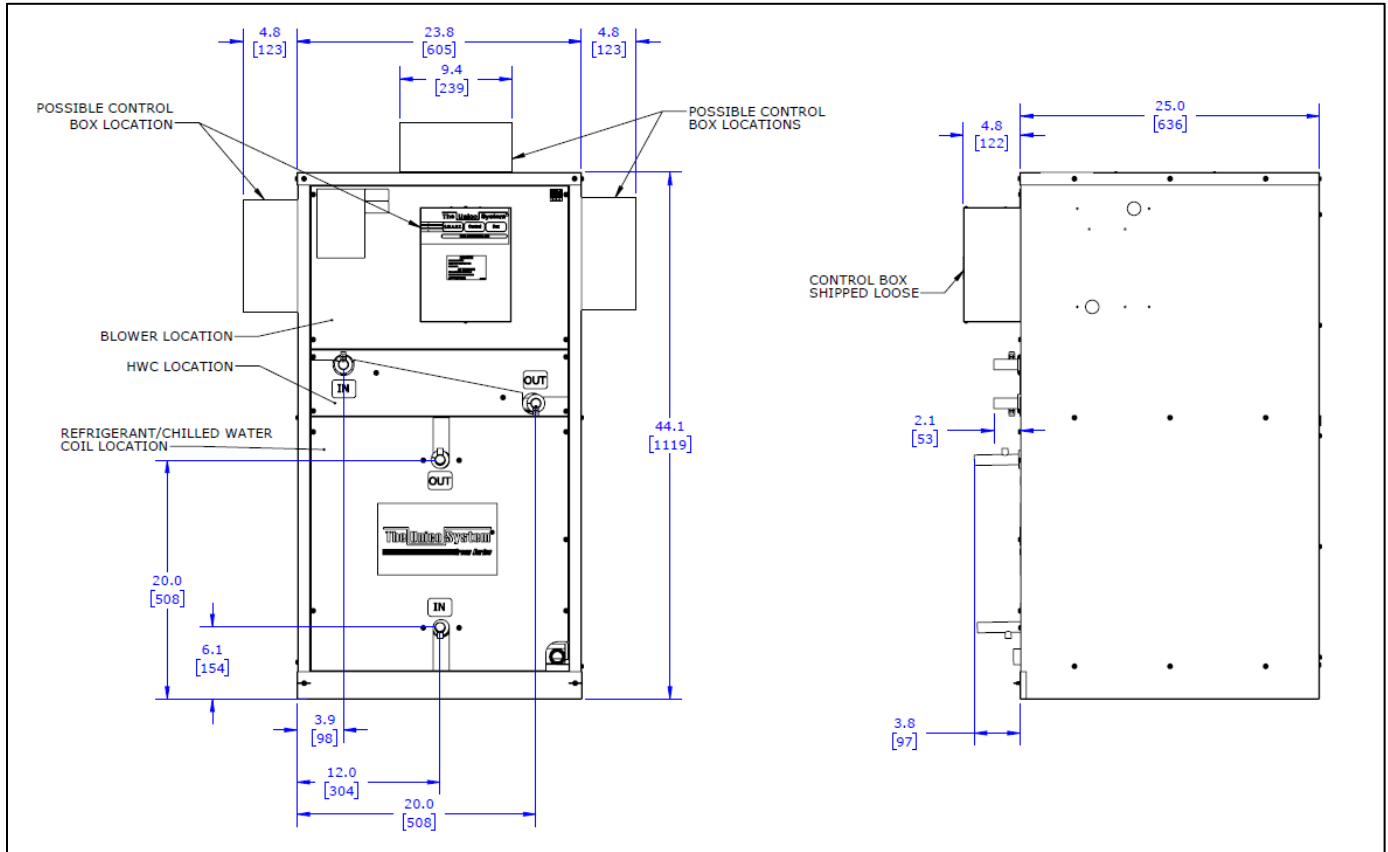
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VERTICAL AIR HANDLER DIMENSIONS



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

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