



TOSOT

SUBMITTAL DATA

UNIX 16 Seer 48KBTU

Model: TUD48-R32AHEDU/ TU48-R32WEDU

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



TUD48-R32AHEDU



TU48-R32WEDU

GENERAL FEATURES:

- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- 8 Speed Fan Motor
- Matched with Tosot Indoor Units
- Designed for New Construction or Replacement Market
- Compact and Quiet, as low as 56 dB(A) Side Discharge outdoor unit
- Cooling down to -15°C (5°F)
- Heating down to -30°C (-22°F)
- Coil (Outdoor) Copper Tube/Aluminum Fin with Anti-Corrosion
- Coil Coating (Gold Colored Fin - 1500Hr Salt Spray Rating)
- Coil (Indoor) Copper Tube/Aluminum Fin with Anti-Corrosion
- Coil Coating (Blue Colored Fin - 500Hr Salt Spray Rating)

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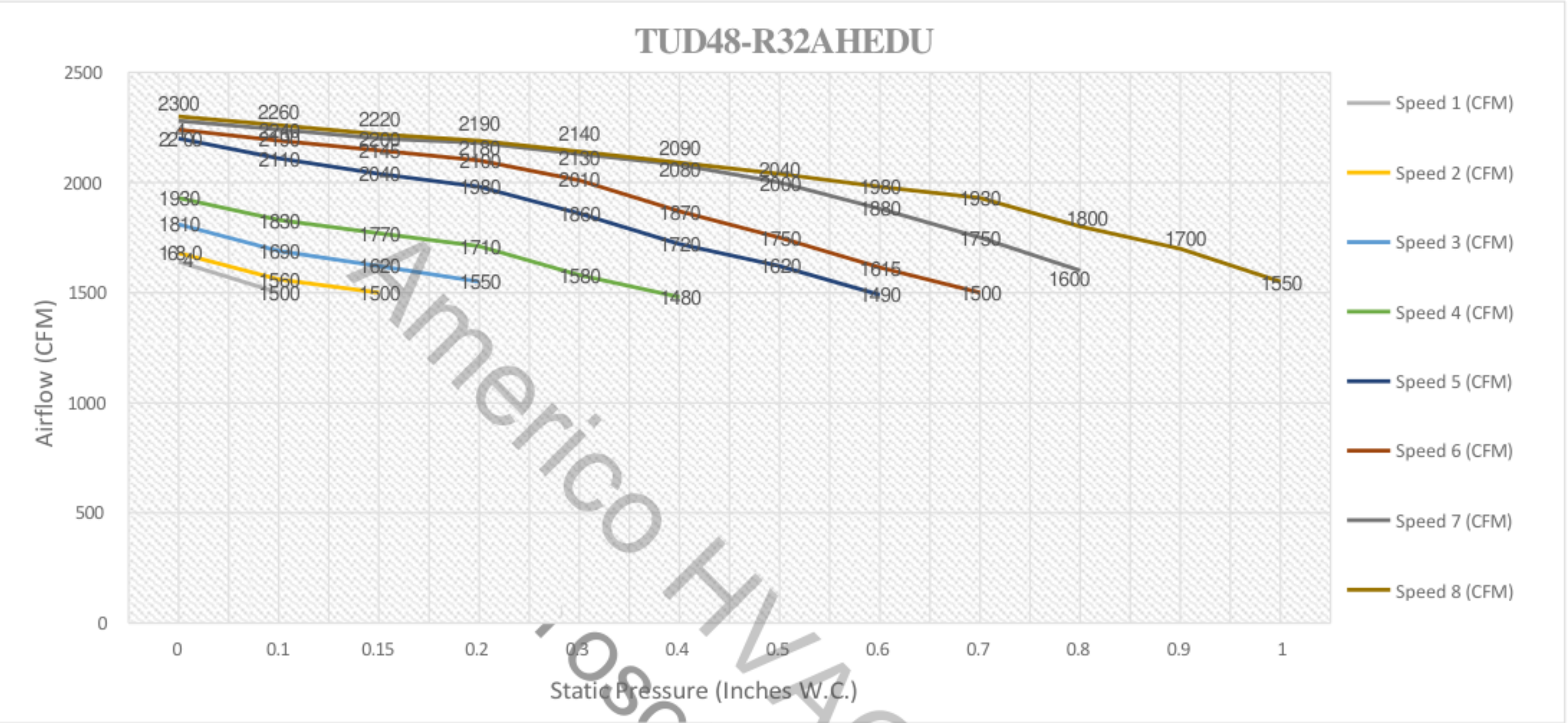


SPECIFICATIONS & FUNCTIONS:

Outdoor Model			TU48-R32WEDU
Indoor Model			TUD48-R32AHEDU
Power Supply		V/Ph/Hz	208/230V~ 60Hz
Cooling	Capacity	Btu/h	48000
	Power	W	4174
	EER2	Btu/h/W	11.5
	SEER2	-	17.0
Heating	Capacity	Btu/h	48000
	Power	W	4263
	COP2	W/W	3.30
	HSPF2	-	9.5
External Static Pressure	Rated	in.wc	0.5
	Range	in.wc	0~1.0
Outdoor Unit Dimension (W×D×H)	Outline	inch	35-7/16×13-3/8×49-5/8
	Package	inch	40-11/16×17-3/8×55-3/16
Outdoor Unit Weight	Net	lbs	241.4
	Gross	lbs	263.5
Indoor Unit Dimension (W×D×H)	Outline	inch	24-13/16×21-1/4×52
	Package	inch	27-1/4×26×54-3/16
Indoor Unit Weight	Net	lbs	199.5
	Gross	lbs	218.3
Connecting Pipe	Liquid	inch	3/8
	Gas	inch	3/4
	Max Height	ft	50
	Max Length	ft	98
Operation Temperature Range	Cooling	°F	5~129
	Heating	°F	-22~75

FAN PERFORMANCE

Static Pressure (Inches W.C.)	0	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Speed 1 (CFM)	1640	1500										
Speed 2 (CFM)	1680	1560	1500									
Speed 3 (CFM)	1810	1690	1620	1550								
Speed 4 (CFM)	1930	1830	1770	1710	1580	1480						
Speed 5 (CFM)	2200	2110	2040	1980	1860	1720	1620	1490				
Speed 6 (CFM)	2240	2190	2145	2100	2010	1870	1750	1615	1500			
Speed 7 (CFM)	2280	2240	2200	2180	2130	2080	2000	1880	1750	1600		
Speed 8 (CFM)	2300	2260	2220	2190	2140	2090	2040	1980	1930	1800	1700	1550



- NOTE:
- 1. Above chart CFM ratings are based on dry coil with factory filter installed.
 - 2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

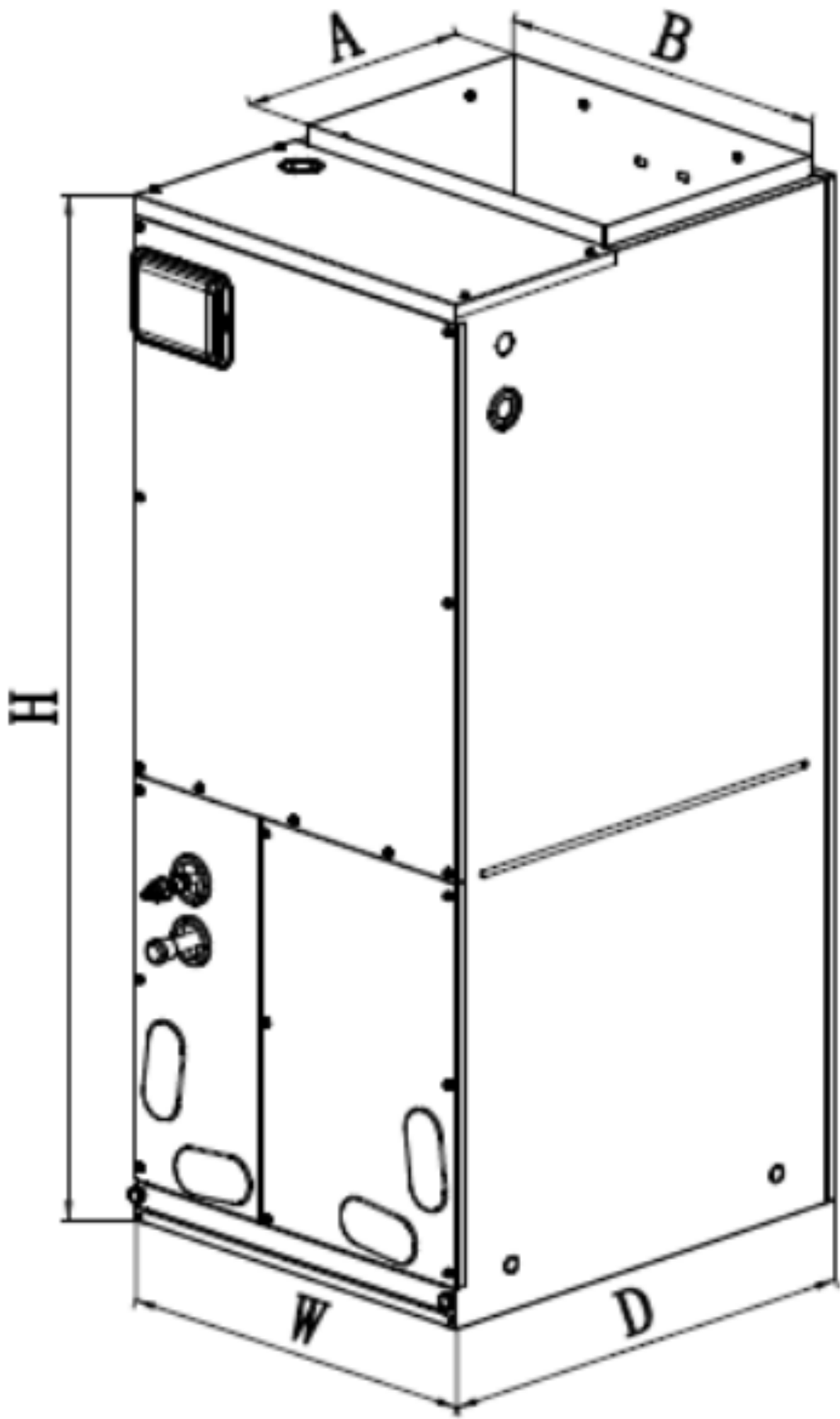
INDOOR UNIT

Unit: inch

TUD48-R32AHEDU	
DIMENSIONS	
A	11-5/8
B	20
H	52
W	24-3/4
D	21-1/4

FILTER SIZE	
Supplied*	20-3/4 x 20-3/8 x 5/8
Suggested	20-3/4 x 20-3/8 x 1

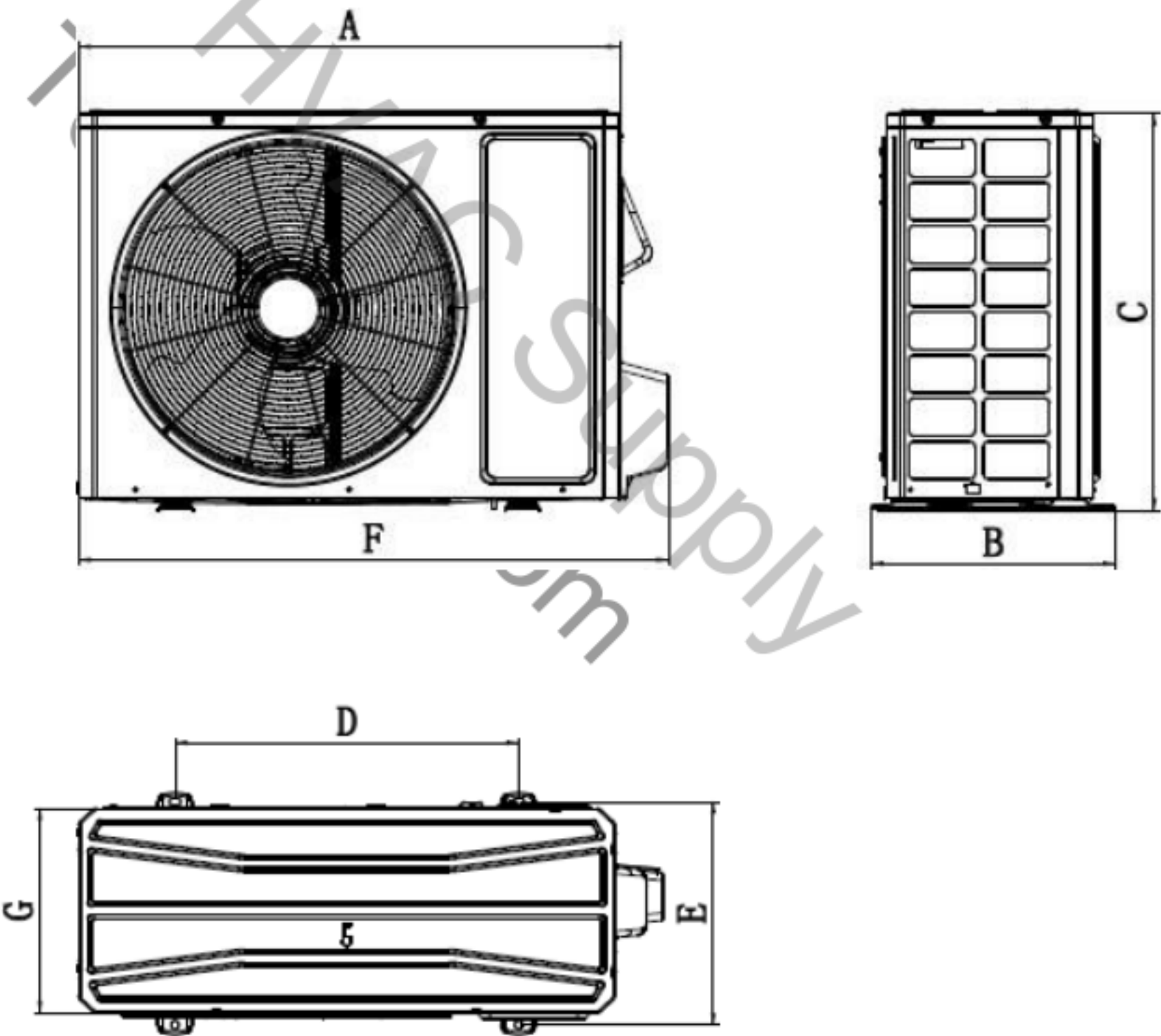
*Supplied filter is metal mesh



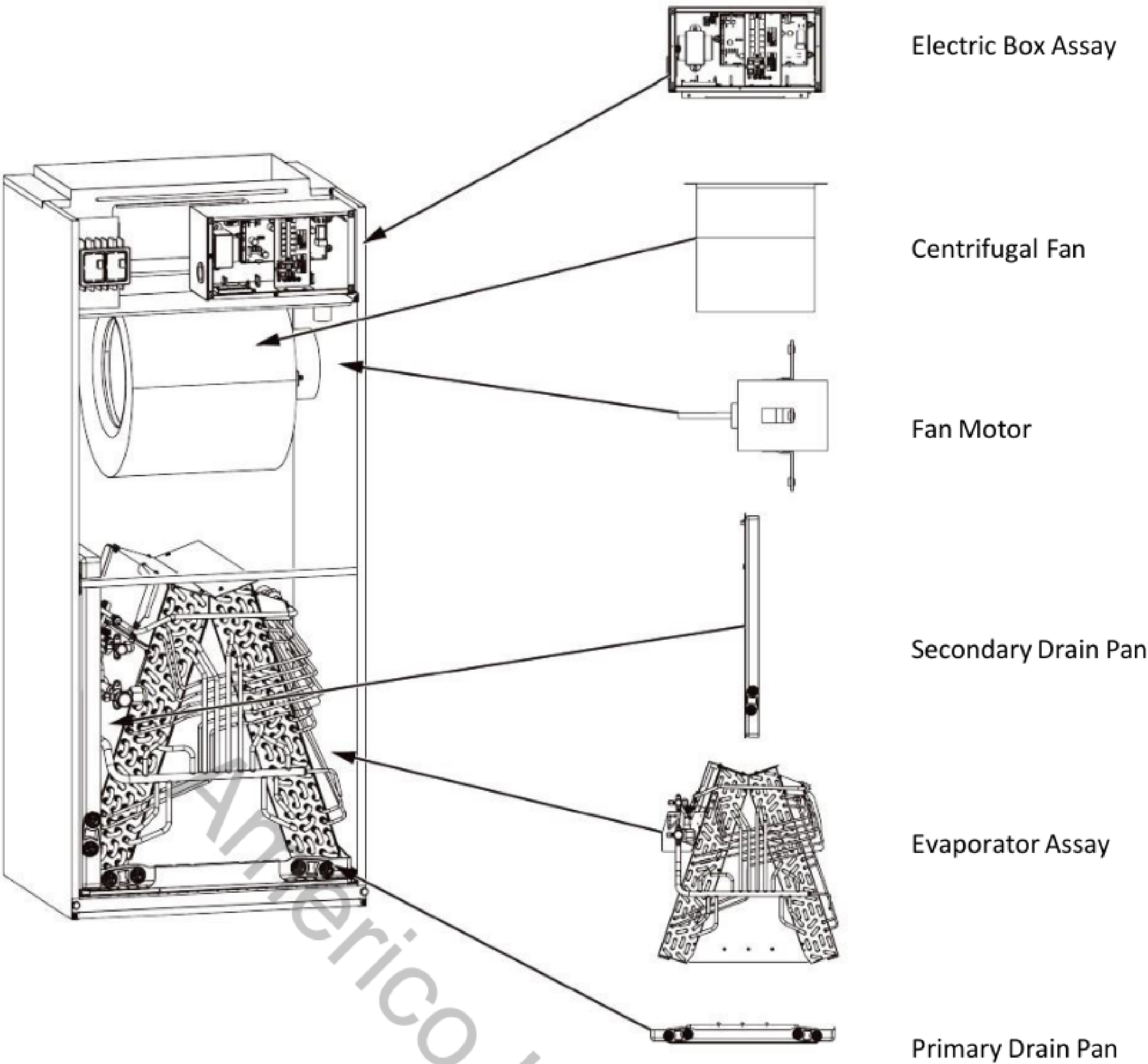
OUTDOOR UNIT

Unit: inch

TU48-R32WEDU	
DIMENSIONS	
A	37-1/8
B	15-13/16
C	32-1/2
D	22-7/16
E	14-9/16
F	38-1/4
G	14-5/8



ACCESSORY HEATER AND GENERAL INFORMATION



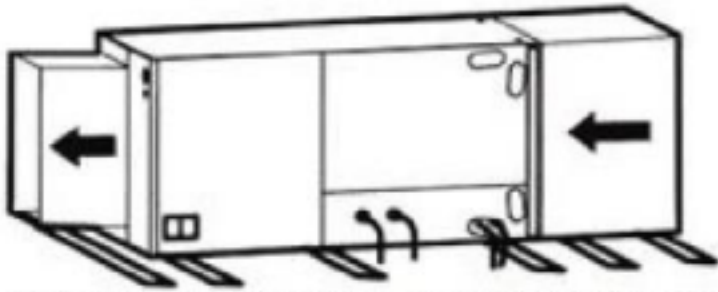
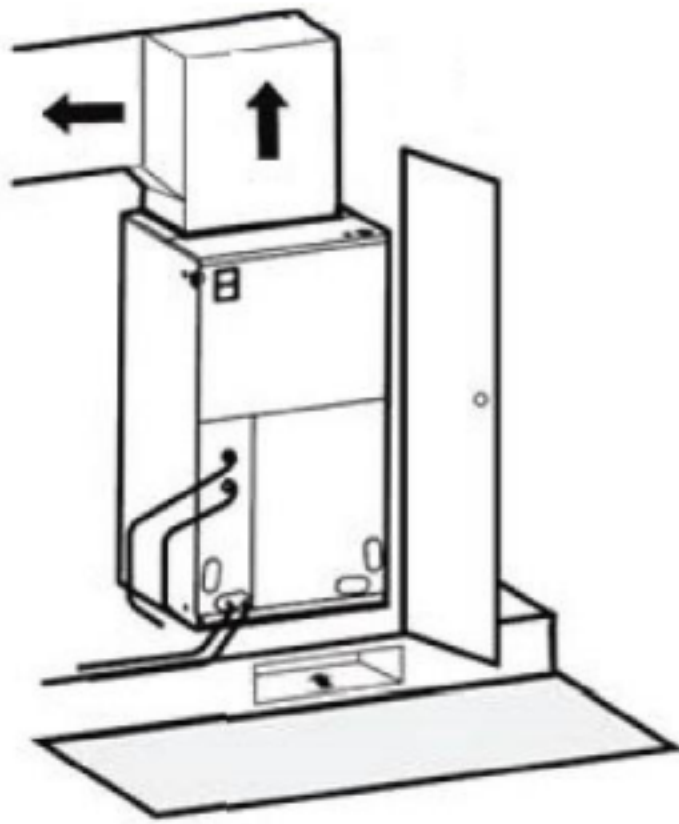
Model	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
		208V	230V	208V	230V	208V	230V
TUD48-R32AHEDU	One Mains Supply						
	ELEMHT16-5KW	3.74	4.6	31	33	35	35
	ELEMHT16-5KW	6.03	7.36	44	48	45	50
	ELEMHT16-5KW	7.49	9.2	53	58	60	60
	Two Mains Supply						
		Power A	Power B	Power A	Power B	Power A	Power B
	ELEMHT16-15KW	7.49	3.74	9.2	4.6	53	23
	ELEMHT16-20KW	7.49	7.49	9.2	9.2	53	46

CLEARANCES

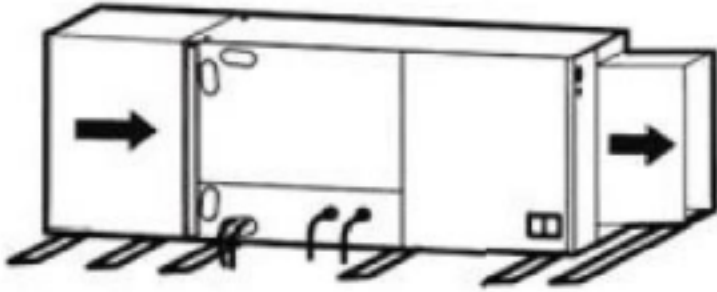
INDOOR UNIT

Minimum clearance

FRONT	> 24
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Horizontal Left Configuration - No Modification Needed



Horizontal Right Configuration - Must Relocate Drain Pan

NOTE:
Allow a minimum of 24” in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. **See local and state codes for requirements.** When installing this unit in an area that may become wet, elevate the unit with a sturdy, non-porous material. In installations that may lead to physical damage (i.e. a garage) it is advised to install a protective barrier to prevent such damage. This air handler is designed for a complete supply and return ductwork system.

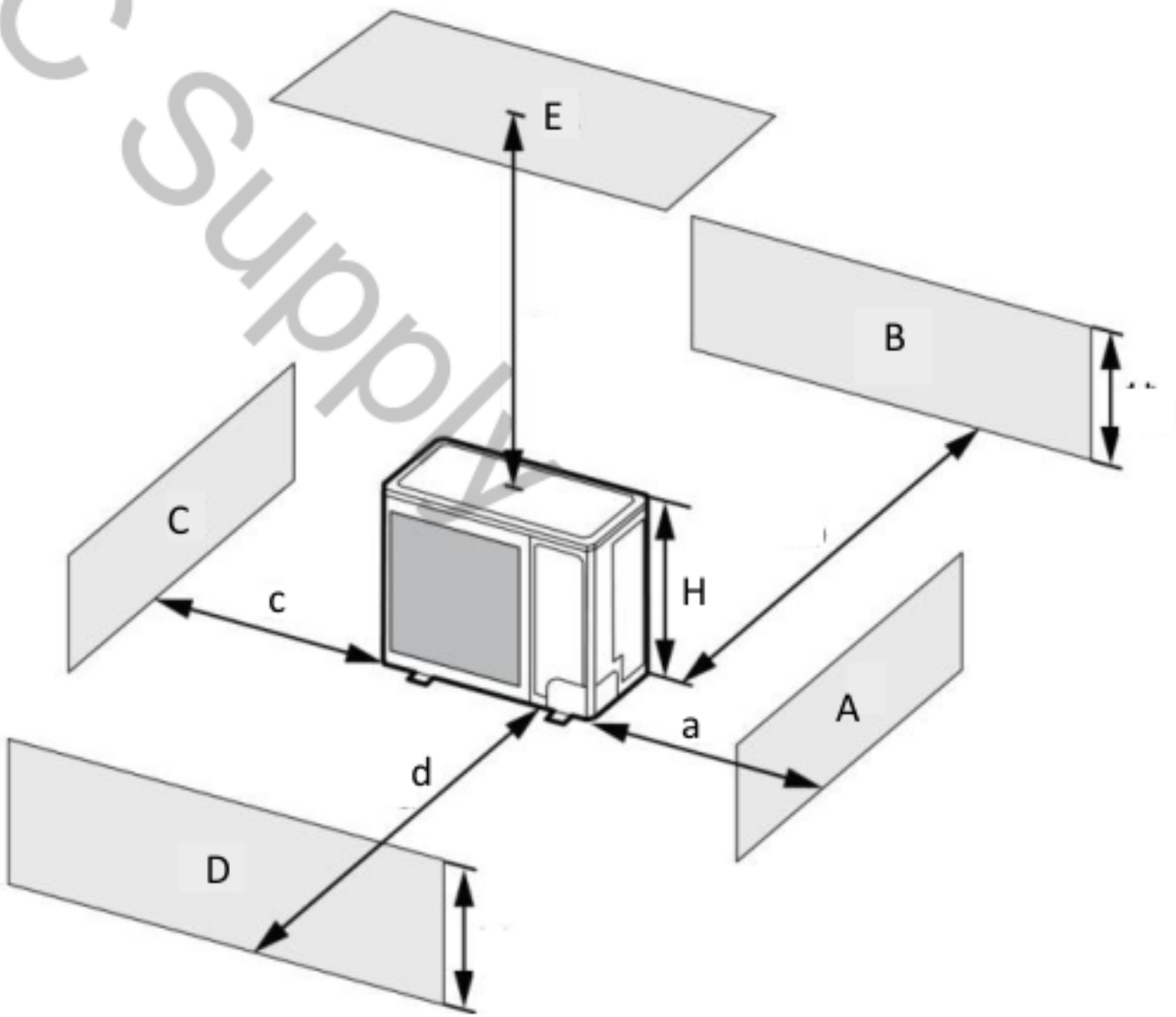
OUTDOOR UNIT

Minimum clearance

NOTE:
Install the Outdoor Unit **2 Inches**
Above the Expected Snow Line

1. When one outdoor unit is to be installed.

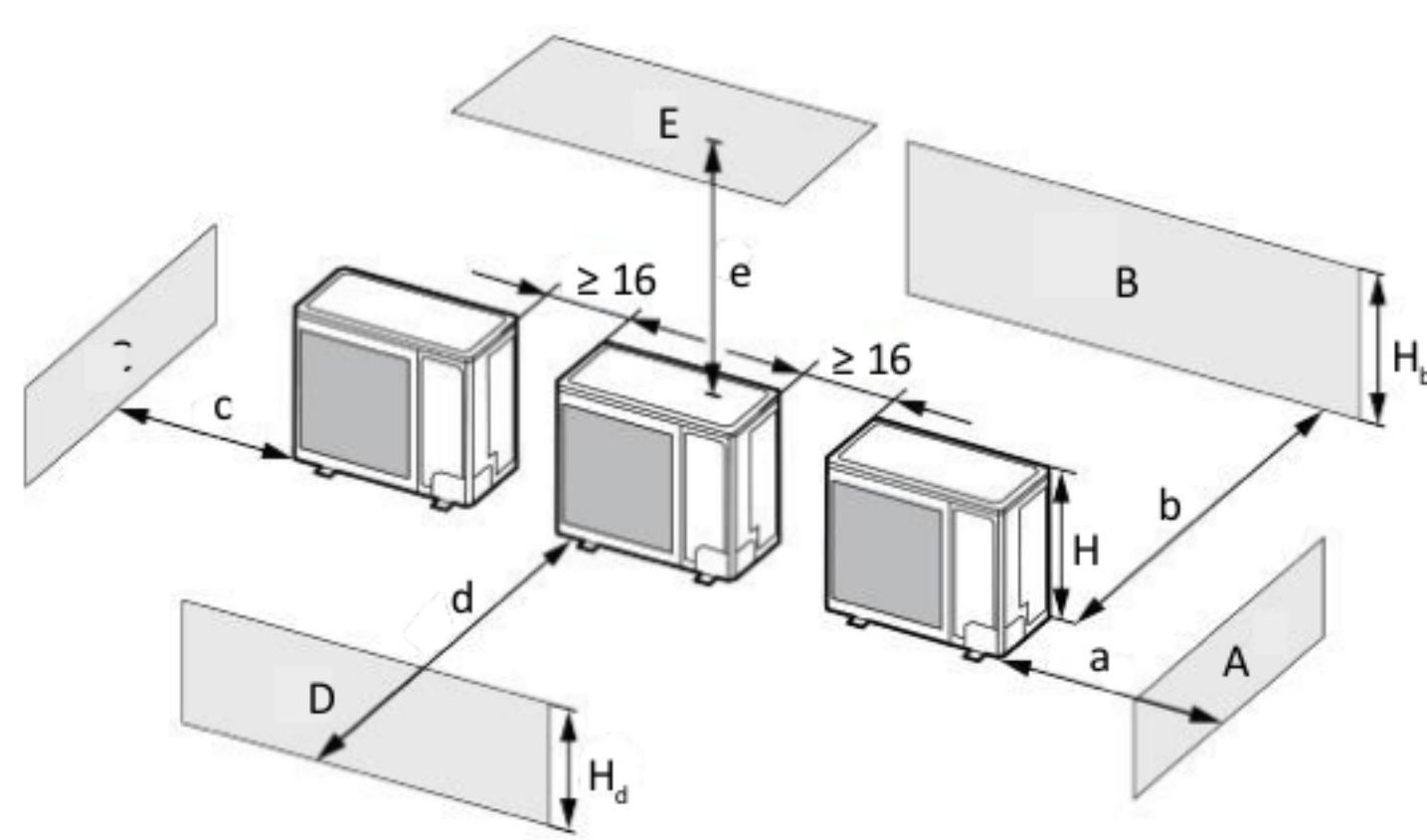
A - E			H _b H _d H		(in)				
			a	b	c	d	e		
B			-	≥ 4	-	-	-		
A, B, C	-		≥ 12	≥ 4	≥ 4	-	-		
B, E			-	≥ 4	-	-	≥ 40		
A, B, C, E	-		≥ 12	≥ 6	≥ 6	-	≥ 40		
D			-	-	-	≥ 40	-		
D, E	-		-	-	-	≥ 40	≥ 40		
B, D	H _b < H _d	H _d < H	-	≥ 4	-	≥ 40	-		
	H _b > H _d	H _d > H	-	≥ 4	-	≥ 40	-		
B, D, E	H _b < H _d	H _b ≤ 1/2H	-	≥ 10	-	≥ 80	≥ 40		
		1/2H < H _b ≤ H	-	≥ 10	-	≥ 80	≥ 40		
	H _b > H		Prohibited						
	H _b > H _d	H _d ≤ 1/2H	-	≥ 4	-	≥ 80	≥ 40		
		1/2H < H _d ≤ H	-	≥ 8	-	≥ 80	≥ 40		
		H _d > H	Prohibited						



CLEARANCES

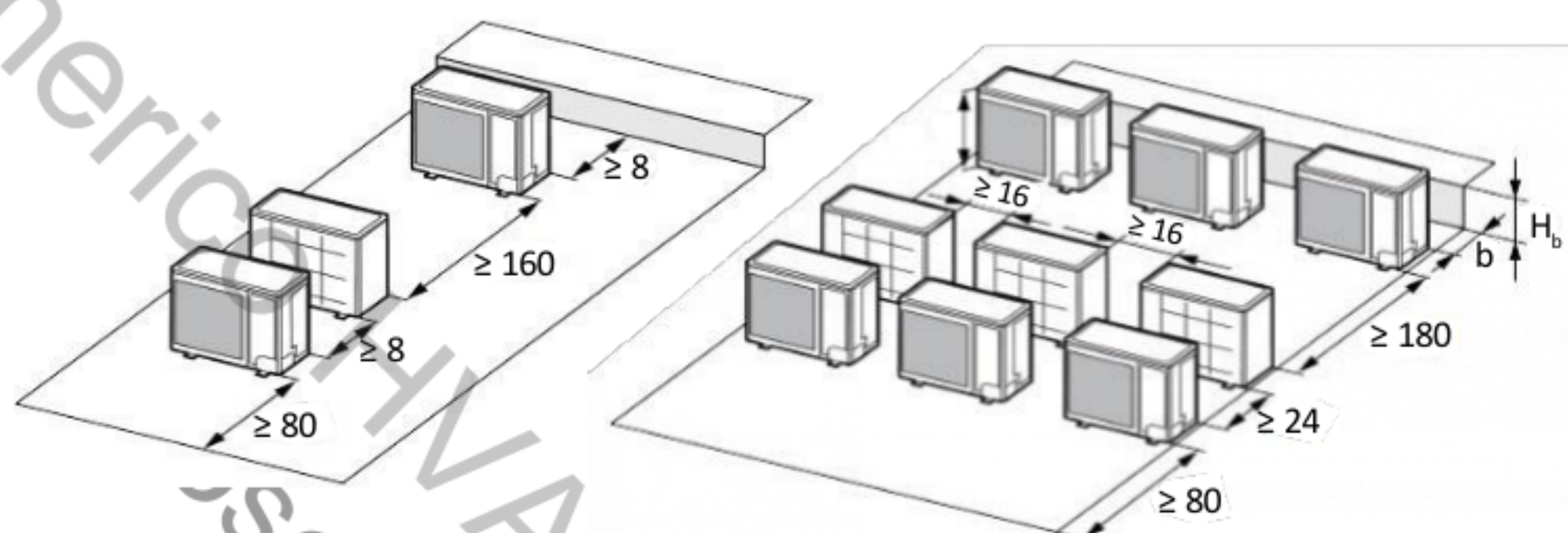
2. When two or more outdoor units are to be installed side by side.

A - E	H_b H_d H		(in)				
			a	b	c	d	e
A, B, C	-	-	≥ 12	≥ 12	≥ 40	-	-
A, B, C, E	-	-	≥ 12	≥ 12	≥ 40	-	≥ 40
D	-	-	-	-	-	≥ 80	-
D, E	-	-	-	-	-	≥ 80	≥ 40
B, D	$H_b < H_d$	$H_d > H$	-	≥ 12	-	≥ 80	-
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 80	-
B, D, E	$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	-
		$H_b \leq 1/2H$	-	≥ 12	-	≥ 80	≥ 40
	$H_b < H_d$	$1/2H < H_b \leq H$	-	≥ 12	-	≥ 100	≥ 40
		$H_b > H$	Prohibited				
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 100	≥ 40
		$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	≥ 40
	$H_d > H$		Prohibited				



3. When outdoor units are installed in rows.

H_b H_d	(in)
$H_b \leq 1/2H$	$b \leq 10$
$1/2H < H_b \leq H$	$b \leq 12$
$H_b > H_d$	Prohibited



4. When outdoor units are installed one above another.

