



TOSOT

SUBMITTAL DATA

UNIX 16 Seer 24KBTU

Model: TUD24-R32AHEDU/ TU24-R32WEDU

Job Name

Location

Date

Purchaser

Engineer

Submitted to

For

Unit Designation

Schedule No.



TUD24-R32AHEDU



TU24-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			TU24-R32WEDU
Indoor Model			TUD24-R32AHEDU
Power Supply		V/Ph/Hz	208/230V~ 60Hz
Cooling	Capacity	Btu/h	24000
	Power	W	2051
	EER2	Btu/h/W	11.7
	SEER2	-	16.0
Heating	Capacity	Btu/h	24000
	Power	W	2010
	COP2	W/W	3.50
	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	39×14-9/16×37-13/16
	Package	inch	45-3/8×18-13/16×43-11/16
Outdoor Unit Weight	Net	lbs	187.4
	Gross	lbs	211.6
Indoor Unit Dimension (W×D×H)	Outline	inch	18-1/8×21-1/4×43-1/2
	Package	inch	20-5/8×26×45-5/8
Indoor Unit Weight	Net	lbs	135.6
	Gross	lbs	144.4
Connecting Pipe	Liquid	inch	3/8
	Gas	inch	3/4
	Max Height	ft	98
	Max Length	ft	165
Operation Temperature Range	Cooling	°F	5~129
	Heating	°F	-22~75

FAN PERFORMANCE



- 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

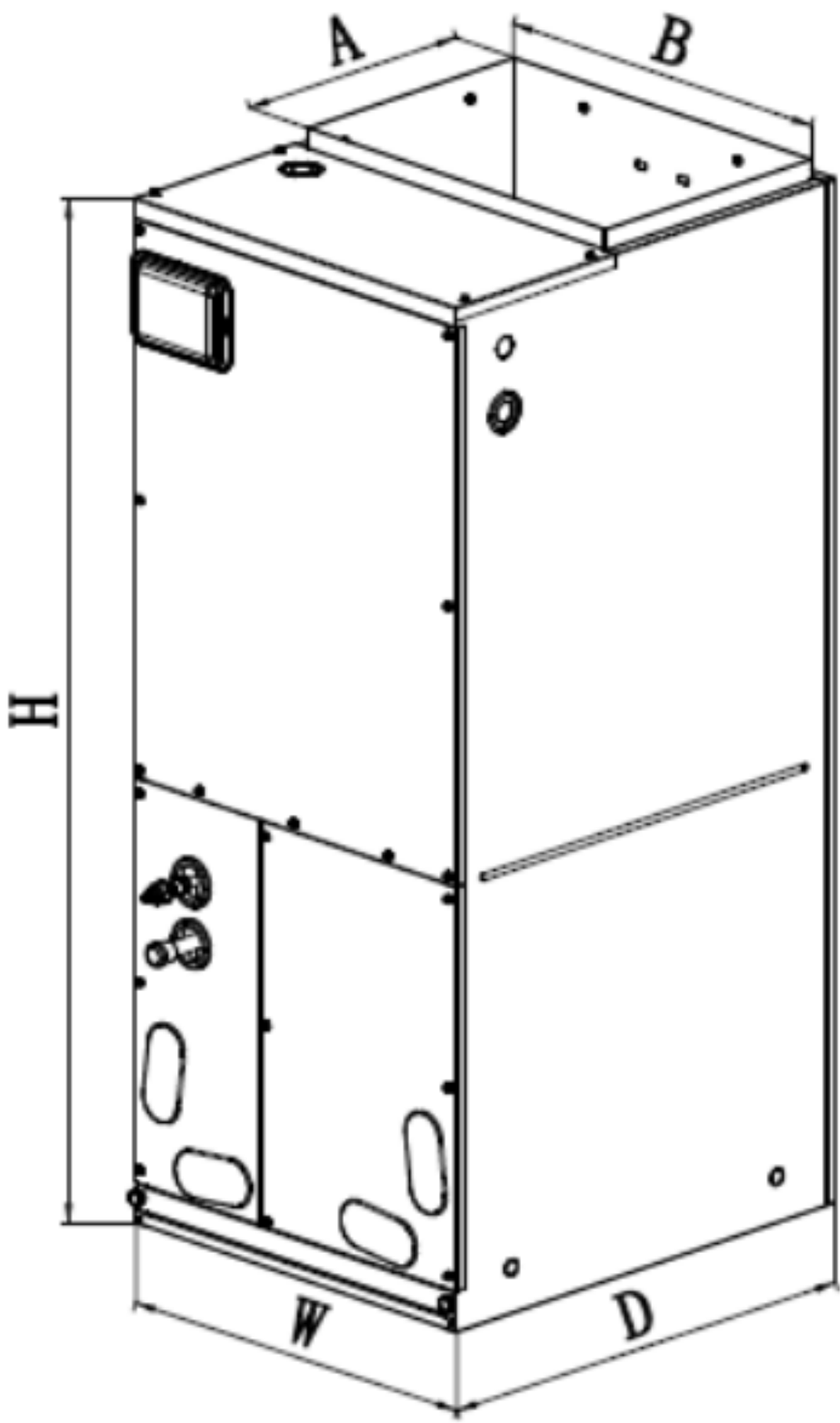
INDOOR UNIT

Unit: inch

TUD24-R32AHEDU	
DIMENSIONS	
A	11-5/8
B	16-3/4
H	43-1/2
W	18-1/8
D	21-1/4

FILTER SIZE	
Supplied*	16-1/2 x 20-3/8 x 5/8
Suggested	16-1/2 x 20-3/8 x 1

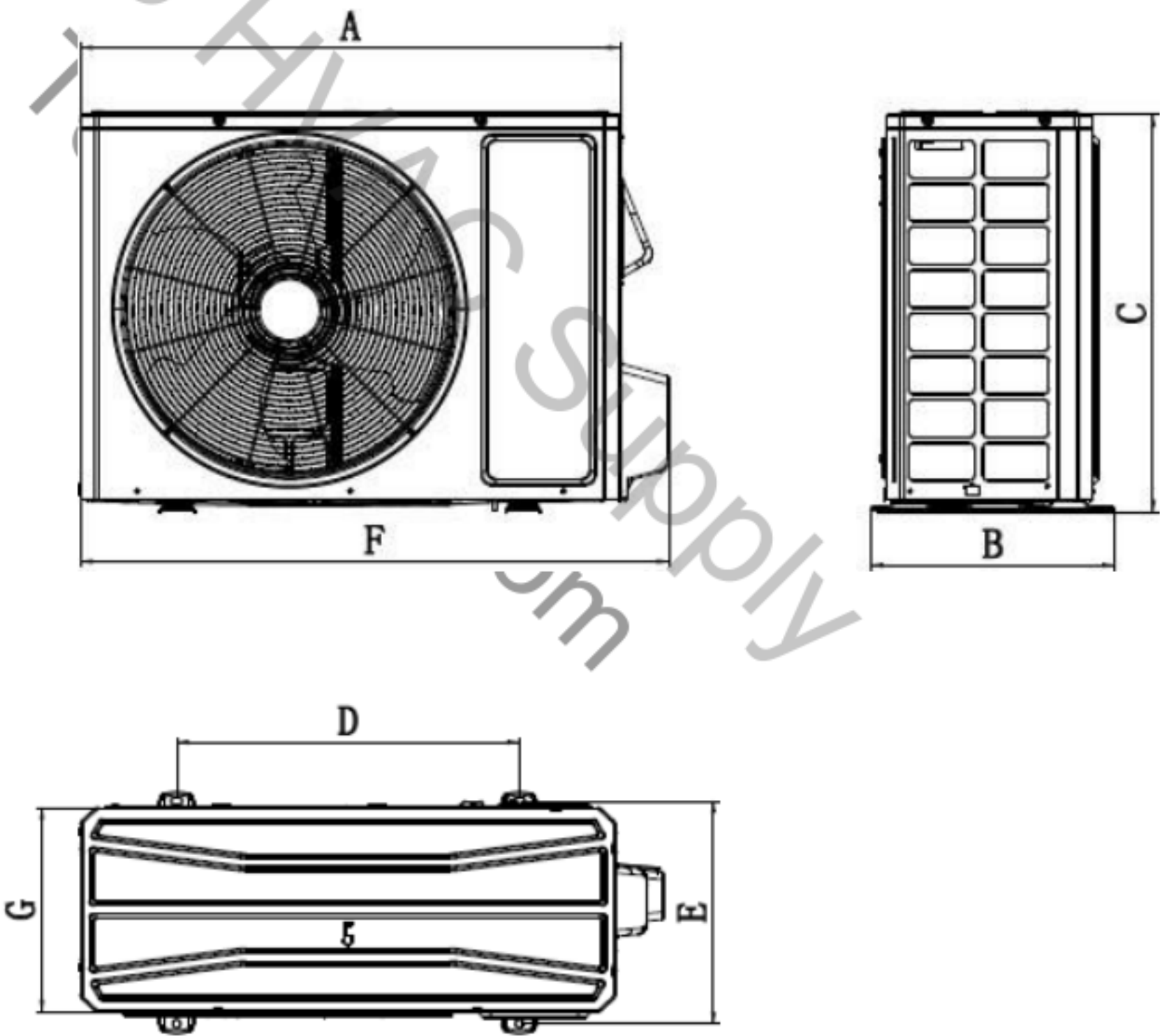
*Supplied filter is metal mesh



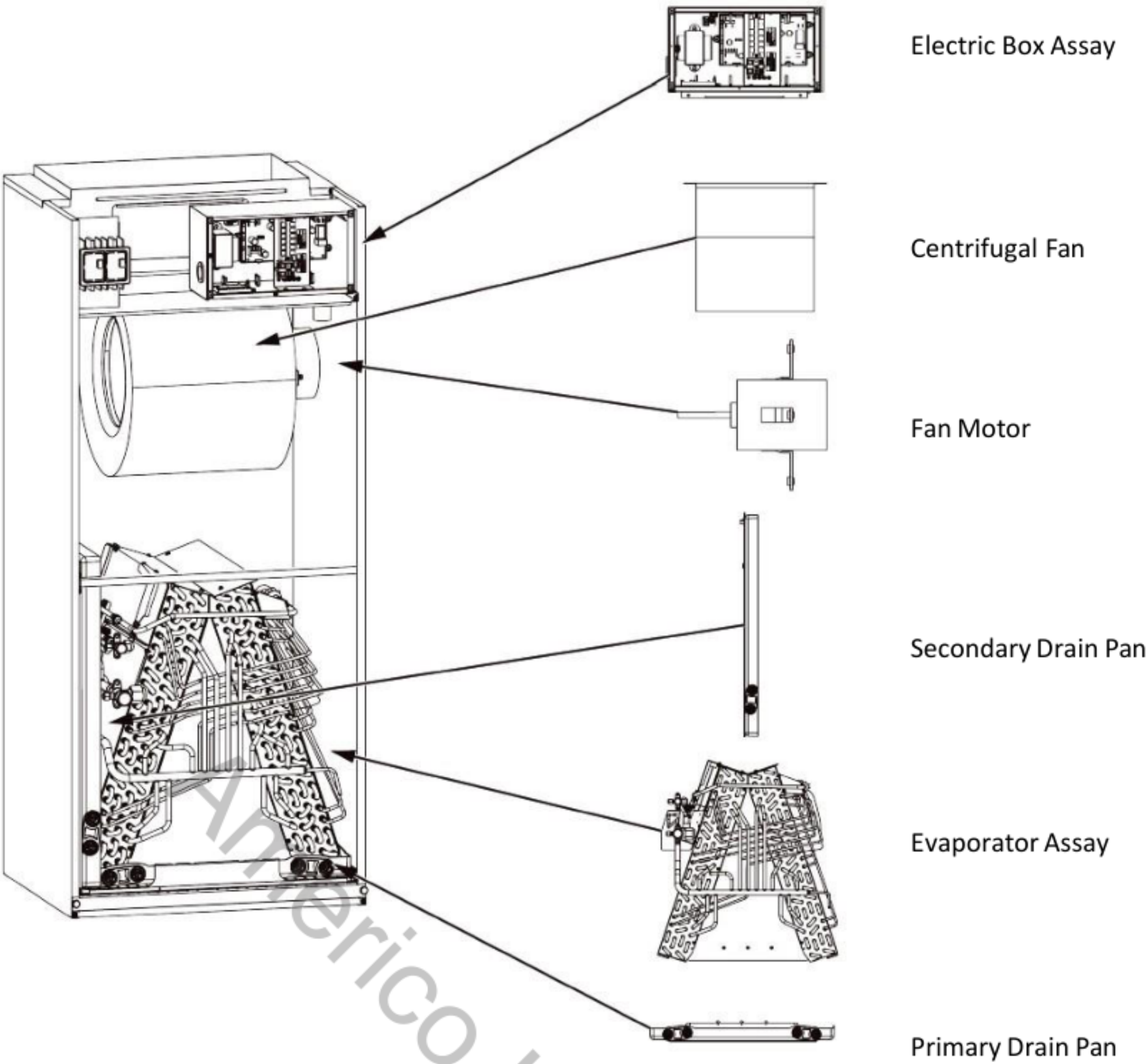
OUTDOOR UNIT

Unit: inch

TU24-R32WEDU	
DIMENSIONS	
A	35
B	15-13/16
C	25-7/8
D	22-7/16
E	14-9/16
F	38-1/4
G	13-3/8



ACCESSORY HEATER AND GENERAL INFORMATION



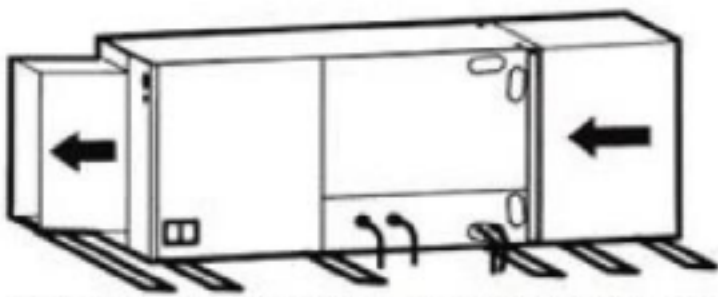
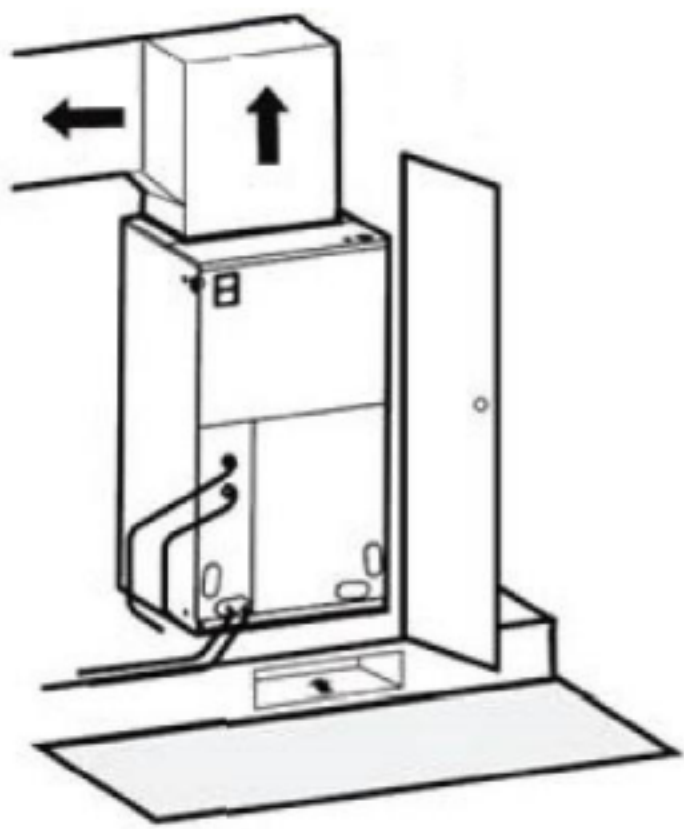
Model	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
		208V	230V	208V	230V	208V	230V
TUD24-R32AHEDU	ELEMHT16-5KW	3.74	4.6	31	33	35	35
	ELEMHT16-8KW	6.03	7.36	44	48	45	50

CLEARANCES

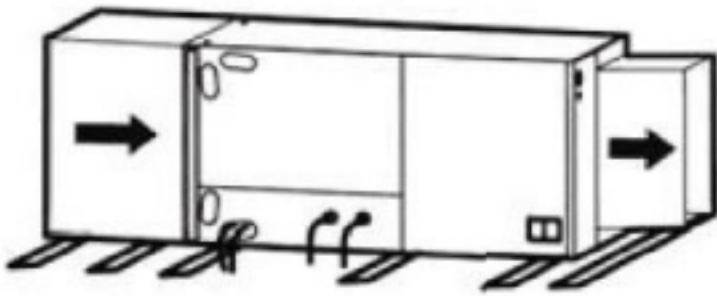
INDOOR UNIT

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.

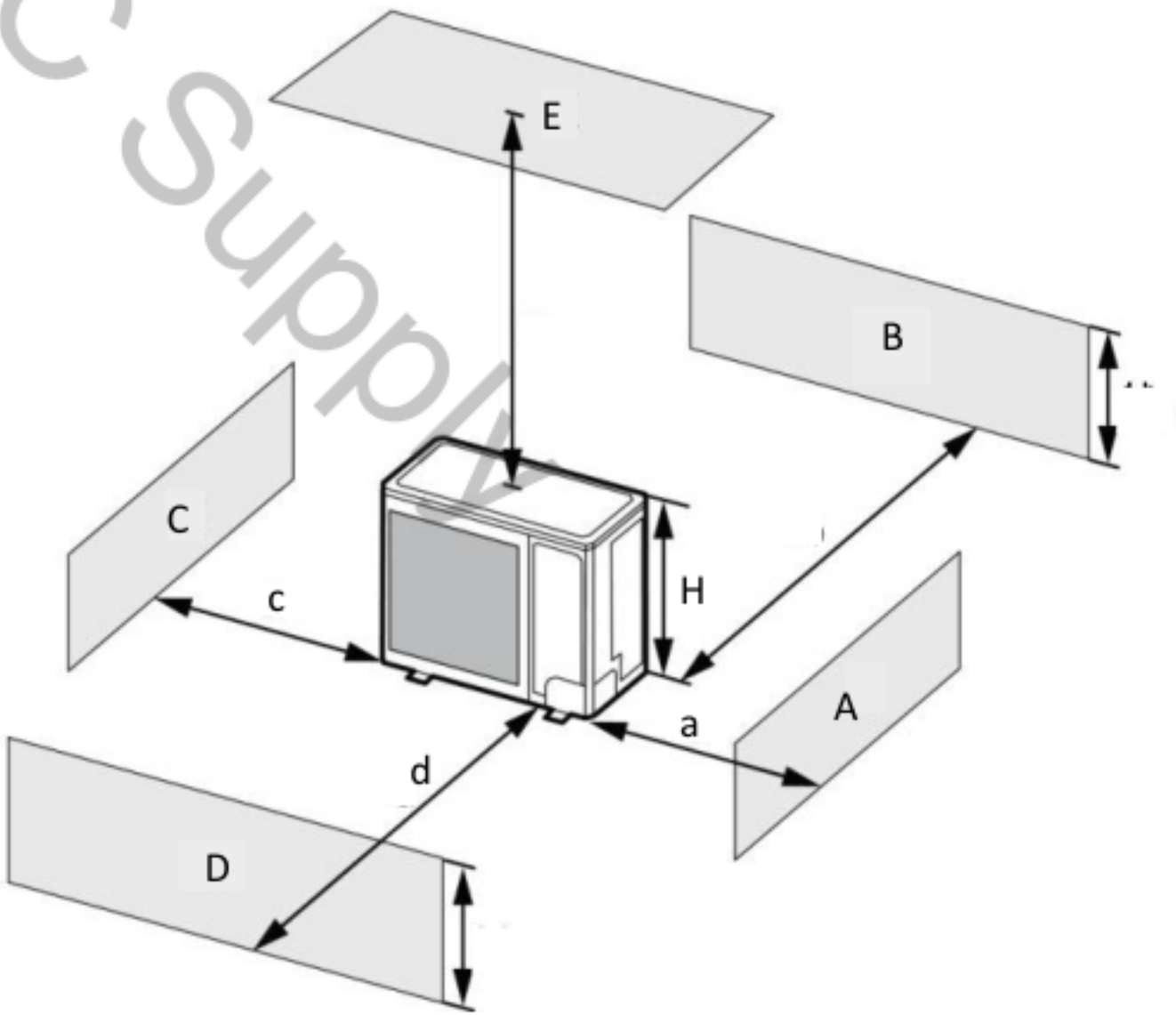
OUTDOOR UNIT

Minimum clearance

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

1. When one outdoor unit is to be installed.

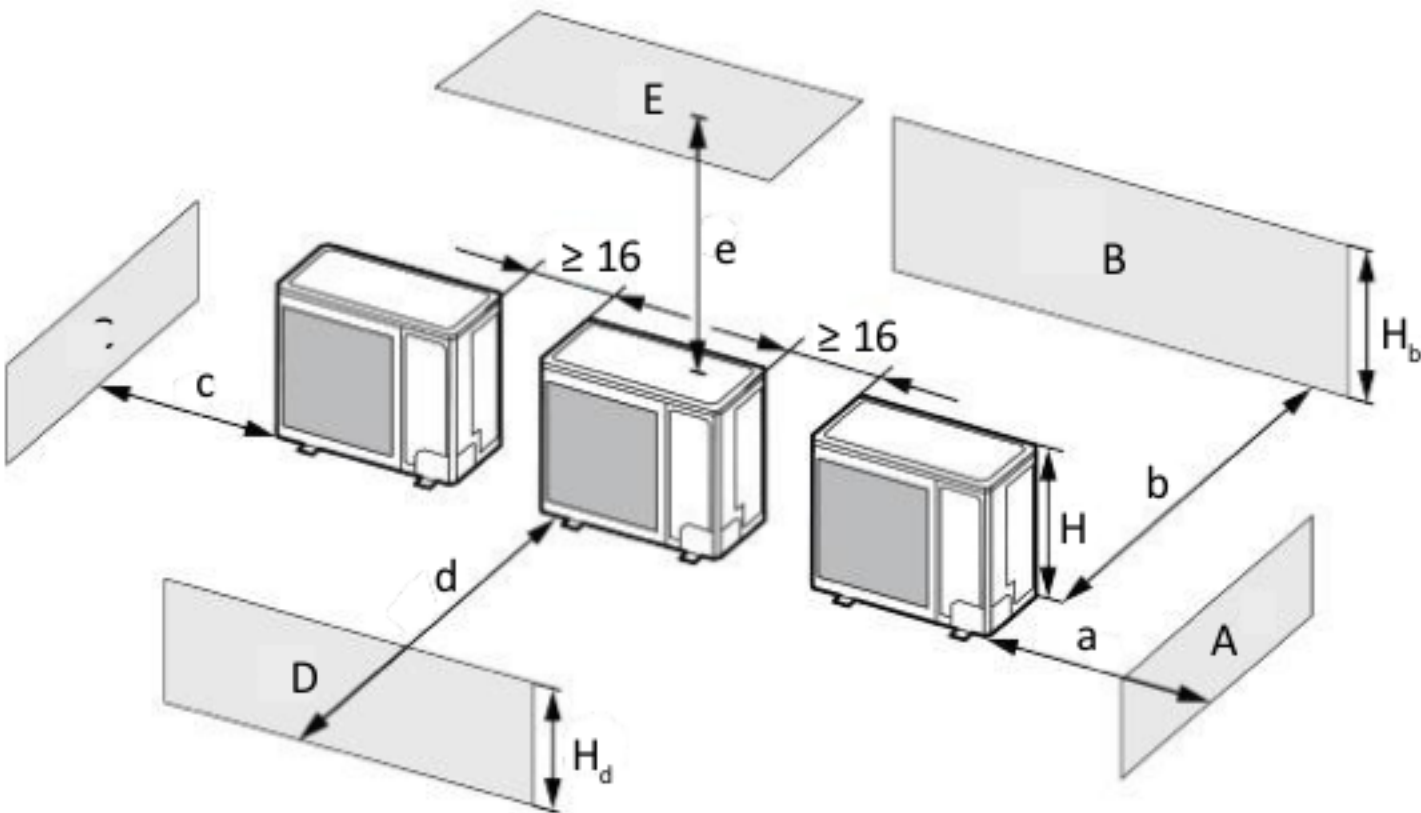
A - E		H_b H_d H		(in)				
				a	b	c	d	e
B		-	-	-	≥ 4	-	-	-
A, B, C		-	-	≥ 12	≥ 4	≥ 4	-	-
B, E		-	-	-	≥ 4	-	-	≥ 40
A, B, C, E		-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D		-	-	-	-	-	≥ 40	-
D, E		-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	≥ 40	-	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	≥ 40	-	-
B, D, E	$H_b < H_d$	$H_b \leq 1/2H$	-	≥ 10	-	≥ 80	≥ 40	-
		$1/2H < H_b \leq H$	-	≥ 10	-	≥ 80	≥ 40	-
		$H_b > H$	Prohibited					
	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 4	-	≥ 80	≥ 40	-
		$1/2H < H_d \leq H$	-	≥ 8	-	≥ 80	≥ 40	-
		$H_d > H$	Prohibited					



CLEARANCES

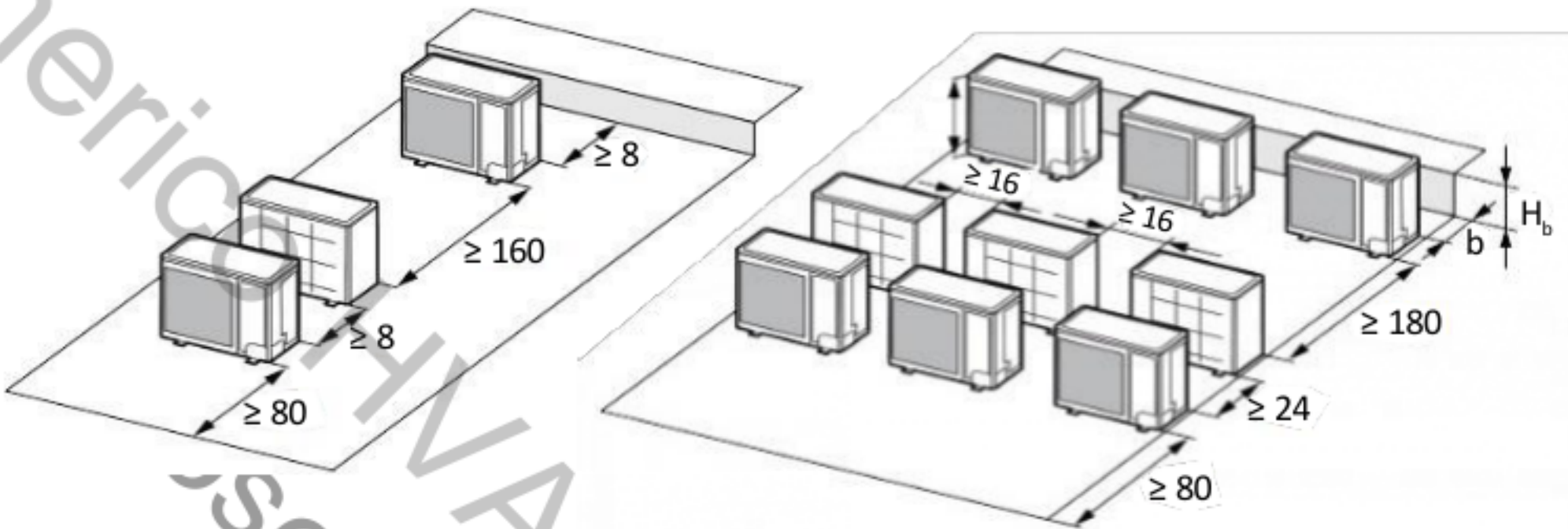
2. When two or more outdoor units are to be installed side by side.

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
	$H_b > H_d$	$H_d > H$	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.

