



SUBMITTAL DATA

UNIX ECO 18.5 Seer 24KBTU

Model: TUD24-R32AHEDU/ TU24-R32WGDU

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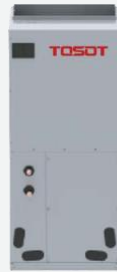
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GENERAL FEATURES:

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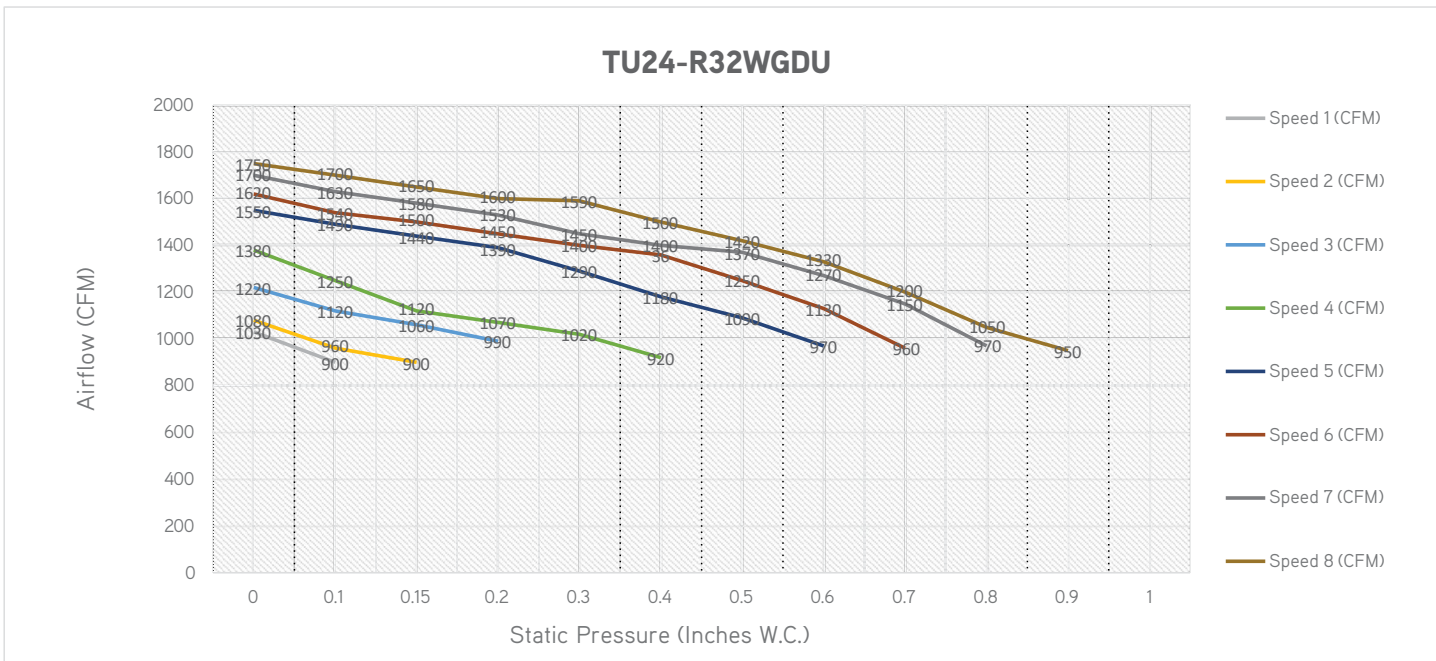


SPECIFICATIONS & FUNCTIONS:

Air Handler		TUD24-R32AHEDU
Power Supply	V~/Phases/Hz	208-230/1/60
Air Flow Volume	CFM	760
External Static Pressure	W.C.	0.5
External Static Pressure Range	W.C.	0~1
Sound Pressure Level	dB	50
Rated Voltage	V	208/230
Rated Frequency	Hz	60
Phases	-	1
Fuse Current	A	3.15
Circuit Breaker	A	15
Output of Heater	W	6000
MOCP	A	15
Motor Full Load Amp(FLA)	A	1.20
Fan Motor Drive Type	-	Direct-driven
Fan Motor Speed	rpm	1010
Fan Motor Power Output	HP	1/2
Evaporator Material	-	Inner groove copper tube-Aluminum fin
Evaporator Face Area	sq.ft	3.45
Evaporator Pipe Diameter	inch	0.28
Evaporator Number of Rows	-	3
Evaporator Tube Pitch×Row Pitch	inch	0.75×0.50
Evaporator Fin Pitch	inch	0.062
Evaporator Number of Circuits	-	10
Evaporator L×H×W	inch	16.3×15×1.5
Evaporator Max. Allowable Pressure	MPa	12.7
Air Filter	-	Metal
Air Filter Size L×W/NO.	inch	19.3×20.3/1
Air Filter Size (Thickness)	inch	0.6
Drainage Connection Size	inch	φ1×0.05
Cooling Temperature Range	°F	64.4~89.6
Heating Temperature Range	°F	50~80.6
Refrigerant	-	R32
Dimension of Outline(W×D×H)	inch	18.11×21.26×43.5
Dimension of Package(L×W×H)	inch	25.98×20.59×46.26
Net Weight	lbs	135.6
Gross Weight	lbs	144.4

Product Model		TU24-R32WGDU
Power Supply	VAC/Phase/Hz	208~230/1/60
Cooling Capacity	Btu/h	24000
Heating Capacity	Btu/h	24000
EER	(Btu/h)/W	11.7
COP	(Btu/h)/W	11.9
SEER	-	18.5
HSPF	-	8.3
Air Flow Volume	CFM	2235
Sound Pressure Level	dB(A)	52
MOCP	A	25
MCA	A	21.6
Compressor Model	-	FTz-SM240AHAD
Compressor Type	-	Inverter Rotary
Compressor Refrigerant Oil Type	-	FW68L
Compressor Refrigerant Oil Charge Volume	L	0.66
Condenser Material	-	Inner Groove Copper Tube-Aluminum Fin
Condenser Face Area	sq.ft	7.53
Condenser Pipe Diameter	inch	φ0.27
Condenser Number of Rows	-	2
Condenser Tube Pitch(a)×Row Pitch(b)	inch	0.87×0.75
Condenser Fin Pitch	inch	0.055
Condenser Fins per Inch (FPI)	-	18
Condenser Number of Circuits	-	4
Condenser L×H×W	inch	29.8×27.7×1.5
Cooling Temperature Range	°F	5~118.4
Heating Temperature Range	°F	5~75.2
Defrosting Method	-	Automatic Defrosting
Refrigerant Charge-R32	oz	67
Dimension of Outline(W×D×H)	inch	36 1/4×14 9/16×3/8/29
Dimension of Package(L×W×H)	inch	42 1/2×19×31 1/2
Net Weight	lbs	113.5
Gross Weight	lbs	122.4
Connection Pipe Length	ft	24.6
Not Additional Gas Connection Pipe Length	ft	31.2
Connection Pipe Gas Additional Charge	oz/ft	0.215
Line Set Size (Liquid - Gas)	inch	3/8"-3/4"
Connection Pipe Max. Distance H×L	ft	49.2×98.4

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)	1030	900										
Speed 2 (CFM)	1080	960	900									
Speed 3 (CFM)	1220	1120	1060	990								
Speed 4 (CFM)	1380	1250	1120	1070	1020	920						
Speed 5 (CFM)	1550	1490	1440	1390	1290	1180	1090	970				
Speed 6 (CFM)	1620	1540	1500	1450	1400	1360	1250	1130	960			
Speed 7 (CFM)	1700	1630	1580	1530	1450	1400	1370	1270	1150	970		
Speed 8 (CFM)	1750	1700	1650	1600	1590	1500	1420	1330	1200	1050	950	

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

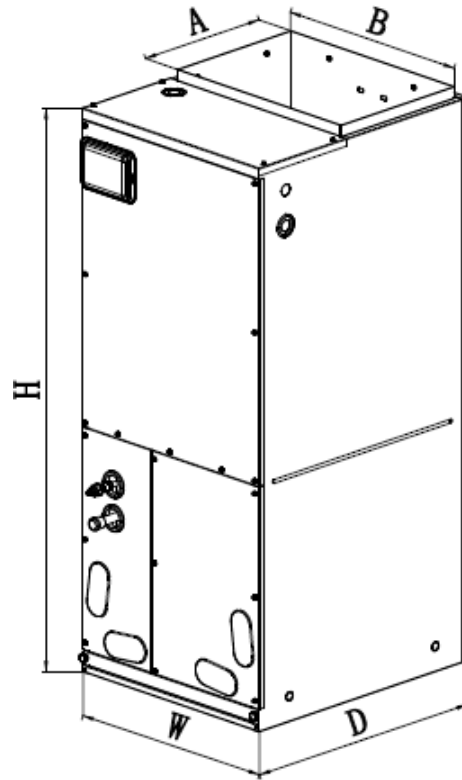
DIMENSIONS

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



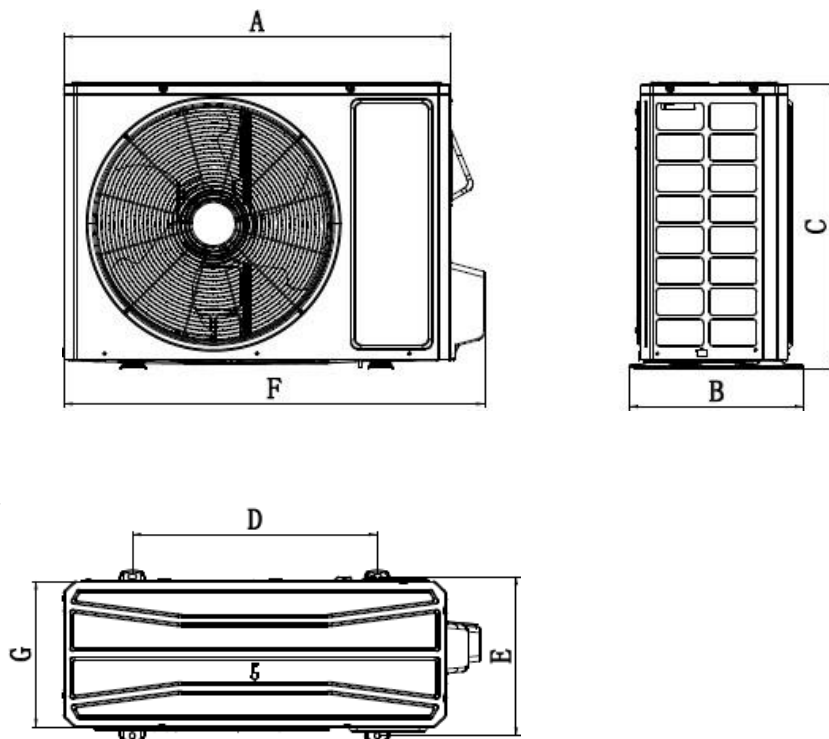
OUTDOOR UNIT

Unit: inch

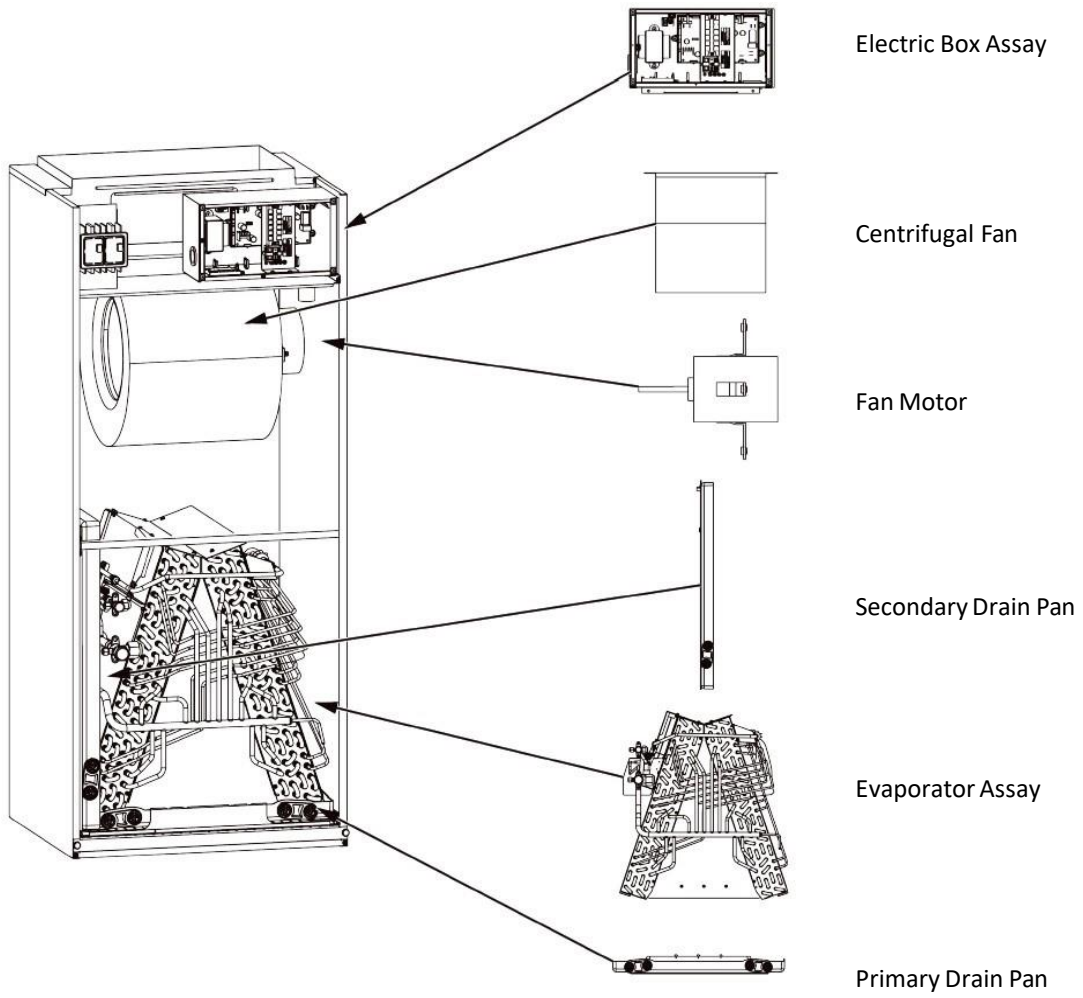
TU24-R32WGDU

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



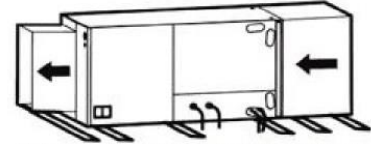
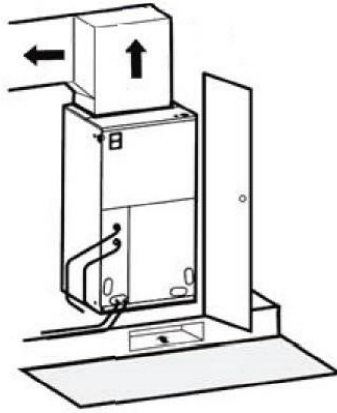
Model	Heat Kit Model	Electric Heat (kW)		Min. Circuit Ampacity (A)		Max Fuse or Breaker (A)	
		208V	230V	208V	230V	208V	230V
TUD24-R32AHEDU	ELEMHT16-5KW	3.74	4.6	31	33	35	35
	ELEMHT16-8KW	6.03	7.36	44	48	45	50

CLEARANCES

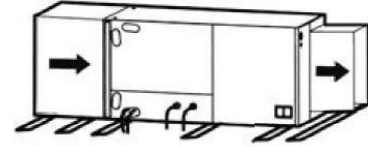
INDOOR UNIT

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

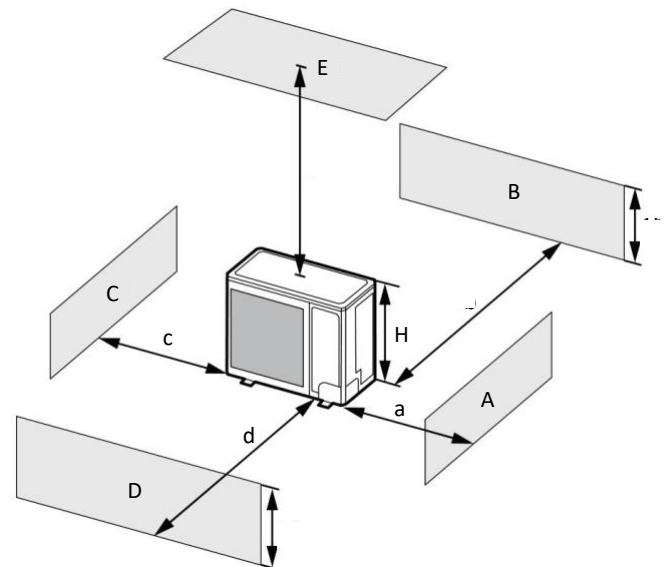
Minimum clearance

NOTE:

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

1. When one outdoor unit is to be installed.

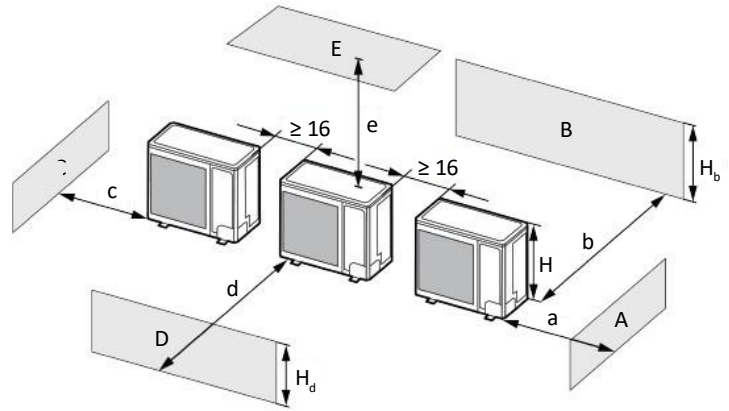
A - E	H_b	H_d	H	(in)				
				a	b	c	d	e
B	-	-	-	-	≥ 4	-	-	-
A, B, C	-	-	-	≥ 12	≥ 4	≥ 4	-	-
B, E	-	-	-	-	≥ 4	-	-	≥ 40
A, B, C, E	-	-	-	≥ 12	≥ 6	≥ 6	-	≥ 40
D	-	-	-	-	-	-	≥ 40	-
D, E	-	-	-	-	-	-	≥ 40	≥ 40
B, D	$H_b < H_d$	$H_d < H$	-	≥ 4	-	-	≥ 40	-
	$H_b > H_d$	$H_d > H$	-	≥ 4	-	-	≥ 40	-
B, D, E	$H_b < H_d$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



CLEARANCES

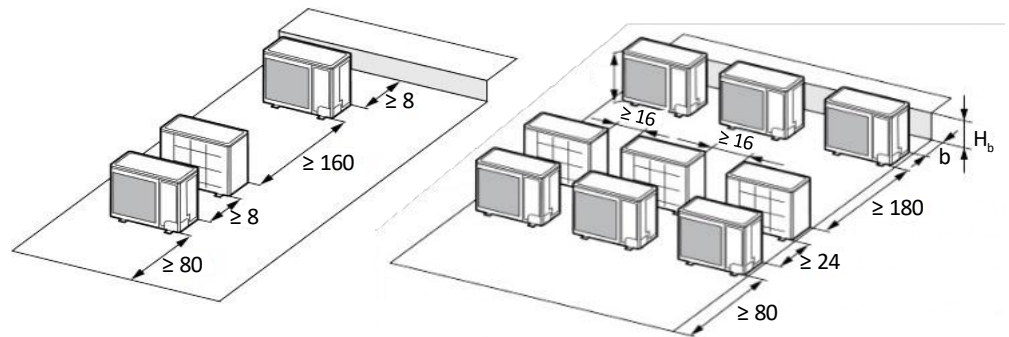
2. When two or more outdoor units are to be installed side by side.

A - E	H_b H_d H	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	
B, D, E	$H_b > H_d$	$H_d \leq 1/2H$	-	≥ 10	-	≥ 80	
		$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	
	$H_b < H_d$	$H_d \leq 1/2H$	-	≥ 12	-	≥ 80	≥ 40
		$1/2H < H_d \leq H$	-	≥ 12	-	≥ 100	≥ 40
B, D, E	$H_b > H_d$	$H_d > H$	Prohibited			-	
		$H_d \leq 1/2H$	-	≥ 10	-	≥ 100	≥ 40
	$H_b > H_d$	$1/2H < H_d \leq H$	-	≥ 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.

