SUBMITTAL DATA

TUD36-32AH2EDU / TU36-32WEDU
36000 BTU/H Unitary Heat Pump Split System

Job Name	Location	Date

Purchaser	Engineer

Submmited to	For

Unit Designation	Schedule No.

TUD36-32AH2EDU

TU36-32WEDU

GENERAL FEATURES

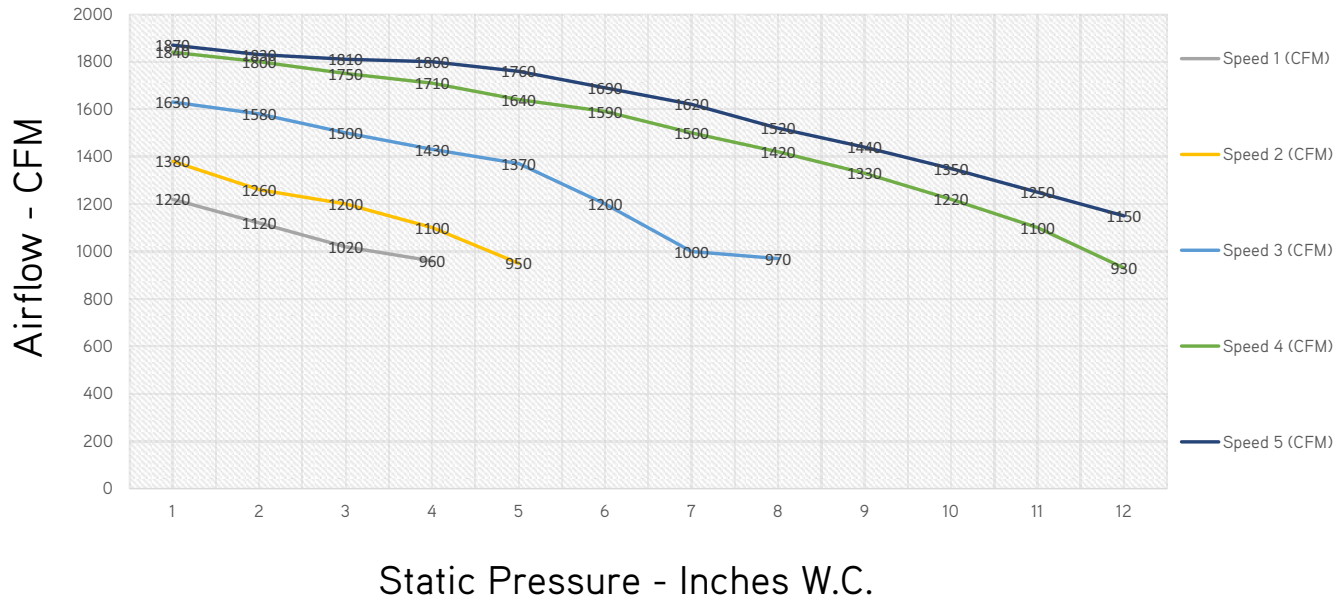
- High Efficiency DC Inverter Technology
- 24VAC Thermostat Compatible
- Zero Lot Line Design
- Match with CompetitiveIndoor Unit
- New R32 Refrigerant
- Designed for New Construction or Replacement Market
- Low Ambient Cooling down to -15˚C (5˚F)
- Low Ambient Heating down to -30˚C (-22˚F)
- Coil (Outdoor) 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)

SPECIFICATIONS, FEATURES & FUNCTION SUMMARY

SPECIFICATIONS		TUD36-32AH2EDU / TU36-32WEDU	
System Type			HEAT PUMP
SYSTEM PERFORMANCE			
Cooling	Min - Max	Btu/h	18,000 - 37,000
	Capacity @95°F	Btu/h	34,000
Heating	Min - Max	Btu/h	
	Rated Capacity @95°F	Btu/h	34,000
	Rated Capacity @17°F	Btu/h	27,000
	Rated Capacity Max @5°F	Btu/h	32,000
SEER2			18.0
EER2			11.4
HSPF2			10
COP @5°F			1.8
COP @47°F			3.3
Cooling Temperature Range		°F	5 - 129
Heating Temperature Range		°F	-22 - 75
Refrigerant Type			R32
INDOOR UNIT			TUD36-32AH2EDU
Power Supply		VAC	208-230V / 1Ph / 60 Hz
Sound Pressure Level		dB(A)	51
Control Voltage		VAC	24
Rated Current Cooling		A	1.6
Rated Current Heating		A	1.5
MCA		A	5.3
MOCP		A	15
Electric Heater (Optional)		kW	6, 9, 12
Air Flow		CFM	1000
External Static Pressure (Up to)		In W.c.	1.0
Dehumidification		pt/hr	/
External Dimensions (W x H x D)		in	21-1/4 × 48-3/16 × 21-1/4
Package Dimension (W x H x D)		in	23-3/4 × 50-3/8 × 26
Net Weight		lbs	163.1
Gross Weight		lbs	178.6
OUTDOOR UNIT			TU36-32WEDU
Power Supply		VAC	208-230V / 1Ph / 60 Hz
Sound Pressure Level		dB(A)	60
Control Voltage		VAC	24
Rated Current Cooling		A	10.36
Rated Current Heating		A	10.05
MCA		A	21
MOCP		A	25
External Dimensions (W x H x D)		in	39 × 37-13/16 × 14-9/16
Package Dimension (W x H x D)		in	45-3/8 × 43-11/16 × 18-13/16
Net Weight		lbs	187.4
Gross Weight		lbs	211.6
Refrigerant Charge		oz	88.2
Additional Charge		oz/ft	0.323
REFRIGERANT PIPING			
Line Set Size (Liquid - Gas) - Flared Connections		in	3/8 - 3/4
Pre-Charge Length		ft	25
Pipe Length (Min - Max)		ft	10 - 164
Max. Pipe Elevation		ft	98

FEATURES & FUNCTIONS SUMMARY	TUD36-32AH2EDU / TU36-32WEDU
SYSTEM FEATURES	
Compressor	Inverter
Ultra Low Frequency Torque Control	Yes
Power Factor Correction	Yes
Compressor Type	Rotary
Outdooor Electronic Expansion Valve (EEV)	Yes
Indoor TXV Control	Yes
Basepan With Electric Heater	Yes
Compressor With Electric Heater	Yes
Fin Coating (Outdoor - Golden & Indoor - Blue)	Acrylic Resin
Intelligent Defrosting	Yes
Intelligent Preheating	Yes
Low Voltage Startup	Yes
Memory/Power Failure Recovery	Yes
Self Diagnosis	Yes
Low Ambient Cooling	Yes
24VAC Thermostat Compatible	Yes
Indoor Fan Type	Centrifugal
Multi Fan Speeds	5
Auxiliary Electrical Heater	Optional

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	1.0
Speed 1 - CFM	1220	1120	1020	960								
Speed 2 - CFM	1380	1260	1200	1100	950							
Speed 3 - CFM	1630	1580	1500	1430	1370	1200	1000	970				
Speed 4 - CFM	1840	1800	1750	1710	1640	1590	1500	1420	1330	1220	1100	930
Speed 5 - CFM	1870	1830	1810	1800	1760	1690	1620	1520	1440	1350	1250	1150

NOTE:

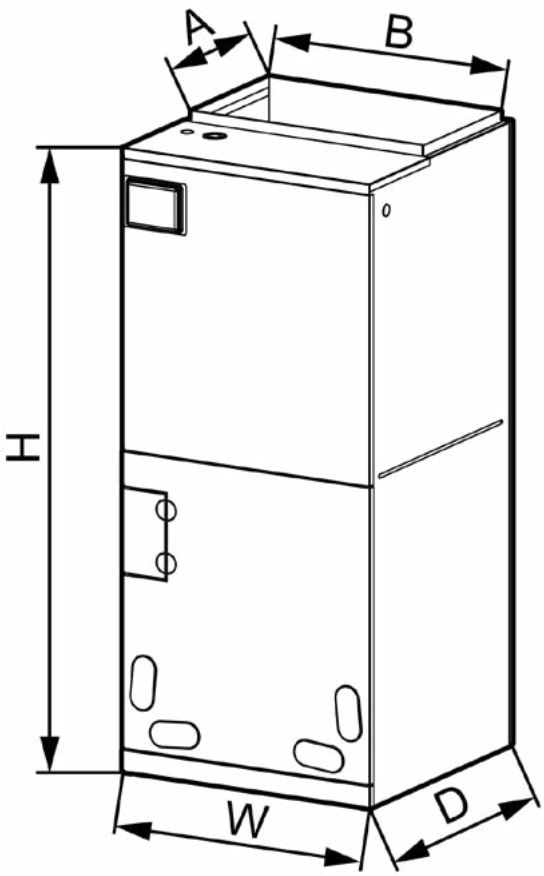
1. Above chart CFM ratings are based on dry coil with factory filter installed.
2. For wet coil CFM ratings, multiply the CFM by 0.96 correction factor.

DIMENSIONS

INDOOR UNIT

Unit: inch

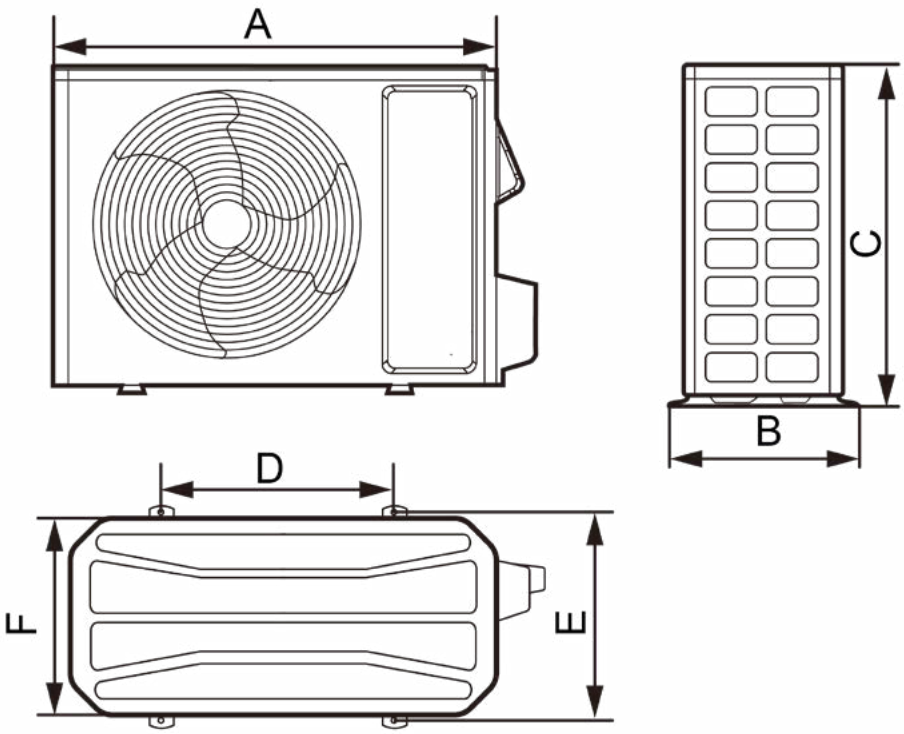
TUD36-32AH2EDU DIMENSIONS	
A	11-5/8
B	20
H	48-3/16
W	21-1/4
D	21-1/4



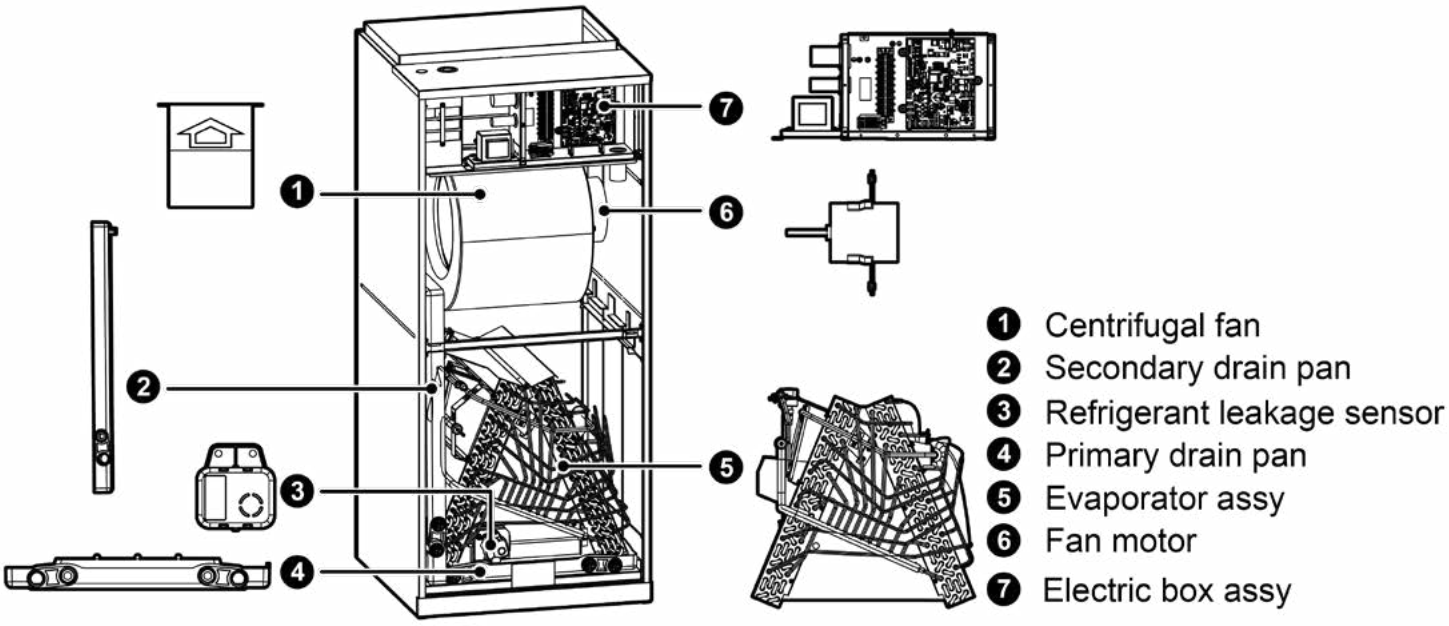
OUTDOOR UNIT

Unit: inch

TU36-32WEDU DIMENSIONS	
A	39
B	16-13/16
C	37-13/16
D	29-3/4
E	15-9/16
F	14-9/16



ACCESSORY HEATER AND GENERAL INFORMATION

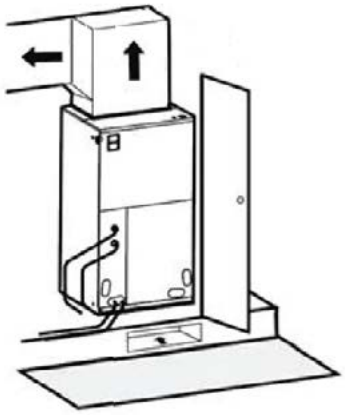


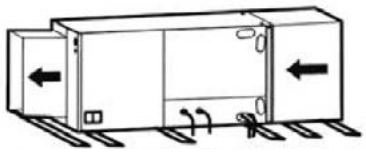
MODEL	Heat Kit Model	Part Number	Electric Heat (kW)		Min. Circuit Ampacity (A)				Max Fuse or Breaker (A)			
			208V	230V	208V		230V		208V		230V	
TUD36-32AH2EDU	One Mains Supply											
	320004060223	FLEXA2LHTR06	3.74	4.6	31		33		35		35	
	Two Mains Supply											
					Power A	Power B	Power A	Power B	Power A	Power B	Power A	Power B
	320004060224	FLEXA2LHTR09	6.03	7.36	32.7	13.8	35.2	15	35	15	40	20
	320004060225	FLEXA2LHTR12	7.49	9.2	32.7	27.5	35.2	30	35	30	40	35

CLEARANCES

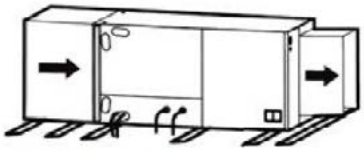
INDOOR UNIT
Minimum clearance

FRONT	› 24





Horizontal Left Configuration - No Modification Needed



Horizontal Right Configuration - Must Relocate Drain Pan

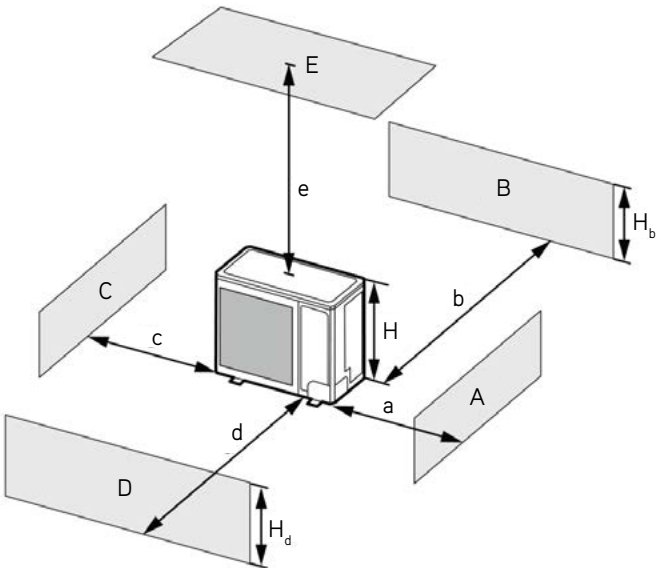
NOTE:
Allow a minimum of 24" in front of the unit for service clearance. When installing in an area directly over a finished ceiling (such as an attic), an emergency drain pan is required directly under the unit. **See local and state codes for requirements.** When installing this unit in an area that 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.

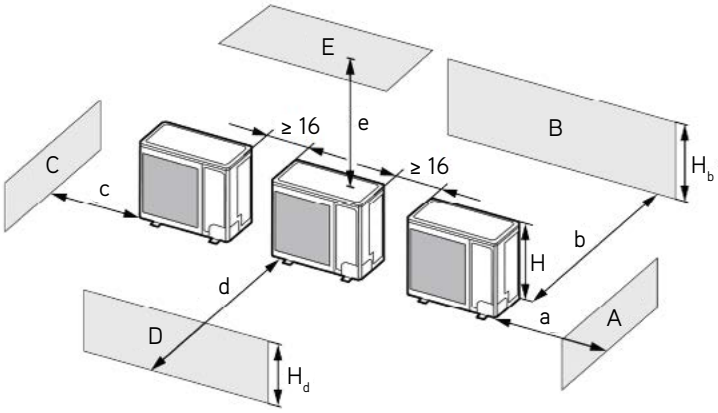
A - E	H_b H_d H		(in)				
			a	b	c	d	e
B	-		-	≥ 4	-	-	-
A, B, C	-		≥ 12	≥ 4	≥ 4	-	-
B, E	-		-	≥ 4	-	-	≥ 40
A, B, C, E	-		≥ 12	≥ 6	≥ 6	-	≥ 40
D	-		-	-	-	≥ 40	-
D, E	-		-	-	-	≥ 40	≥ 40
B, D	H_b < H_d	H_d < H	-	≥ 4	-	≥ 40	-
	H_b > H_d	H_d > H	-	≥ 4	-	≥ 40	-
B, D, E	H_b < H_d	H_b ≤ 1/2H	-	≥ 10	-	≥ 80	≥ 40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

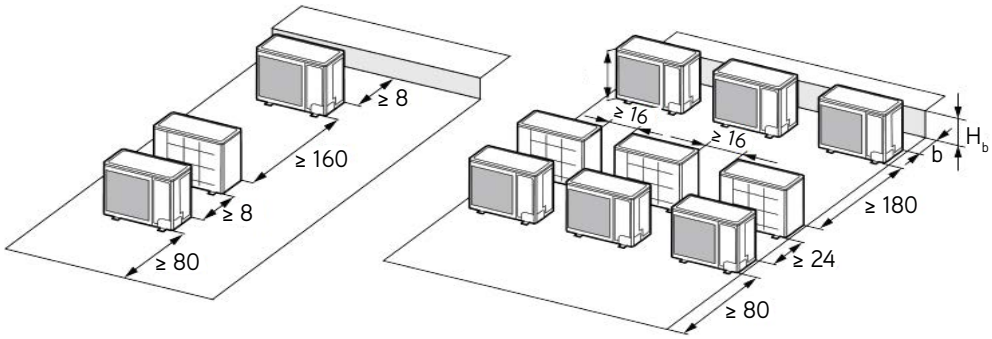
2. When two or more outdoor units are to be installed side by side.

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



4. When outdoor units are installed one above another.