A-COIL for UNITARY SIDE DISCHARGE SPLIT SYSTEM 24VAC CONTROL

42,000 BTU / H UNITARY HEAT PUMP SPLIT SYSTEM

SUBMITTAL DATA: TCAT60H/NaA TUD42W2/D-D(U)

Job Name	Location		Date	
Purchaser	Engineer			
Submitted To	For	Reference	Approval	Construction
Unit Designation	Schedule No.			

SYSTEM TYPE: HEAT PUMP



TUD42W2/D-D(U)



TCAT60H/NaA

GENERAL FEATURES

- High Efficiency DC Inverter Technology
- Compact and Quiet 62 dB(A) Outdoor Unit
- Zero Lot Line Design
- Compatible with 3rd party furnace or blower
- Designed for New Construction or Retrofit Market
- 24VAC Thermostat Compatible
- Low Ambient Cooling down to 5°F/-15°C
- Low Ambient Heating down to -5°F/-15°C
- Outdoor Coil has Copper Tube/Aluminum Fin with Acetal-Resin Coating (Golden Fin - 1500Hr Salt Spray)
- Indoor Coil has Copper Tube/Aluminum Fin with Acetal-Resin Coating (Blue Fin - 500Hr Salt Spray)
- Limited Warranty: 10 Year Parts, 10 Years Compressor
- Residential & Commercial

SYSTEM PERFORMANCE				
Cooling	Rated Capacity @ 95°F		Btu/h	40,000
	Min-Max Capacity		Btu/h	10,200-40,000
Heating	Rated Capacity @ 47°F		Btu/h	40,000
	Min-Max Capacity		Btu/h	9,800-40,000
SEER2 / EER2				15.5 / 10.0
HSPF2				7.8
COP @47°F				2.82
Cooling Temperature Range			°F / °C	5 – 115 / -15 – 46
Heating Temperature Range			°F / °C	5 – 75 / -15 – 24
INDOOR UNIT				**TCAT60H/NaA**
Dehumidification			pt/hr	8.88
Condensate Drain Hose Size(OD)			in	3/4
Unit Dimension (WxHxD)			in	24-1/2 x 28-1/2 x 21-1/4
Refrigerant Pre-charged (R410A)			oz	8.8
Weight (Net / Gross)			lbs	95/110
OUTDOOR UNIT				**TUD42W2/D-D(U)**
Compressor Type				Inverter Rotary
Compressor RLA			A	16.0
Fan Motor Output Power			HP	1/6
Fan Motor			A	2.5
Sound Pressure Level			dB(A)	62 (58 – 64)
Unit Dimension (WxHxD)			in	39 x 37-13/16 x 14-9/16
Weight (Net / Gross)			lbs	152 / 163
Refrigerant Pre-charged (R410A)			oz	123.5
Coil Type (Golden Fin)				Copper Tube / Aluminum Fin
REFRIGERANT PIPING				
Line Set Size (Liquid - Gas)			in	3/8 - 3/4
Pre-charged Piping Length			ft	31
Additional Charge			oz/ft	0.32
Toal Pipe Length (Min - Max)			ft	10 – 164
Max. Pipe Elevation			ft	100
ELECTRICAL				
Power Supply				208/230V / 1Ph / 60 Hz
Outdoor Unit	Rated Current (Cooling / Heating)		A	22.0/20.8
	MCA / MOCP		A	29 / 40
Main Power Wire Size			AWG	Size Per Local Code
LIMITED WARRANTY	10 Year Parts, 10 Years Compressor - Residential & Commercial			

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FEATURES SUMMARY: TCAT60H/NaA TUD42W2/D-D(U)

SYSTEM FEATURES	
Compressor	Inverter
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Rotary
Refrigerant Type	R410A
Outdooor Electronic Expansion Valve (EEV)	YES
Indoor TXV Control	YES
Basepan With Electric Heater	YES
Fin Coating (Outdoor & Indoor)	Acrylic Resin
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Low Ambient Cooling	YES

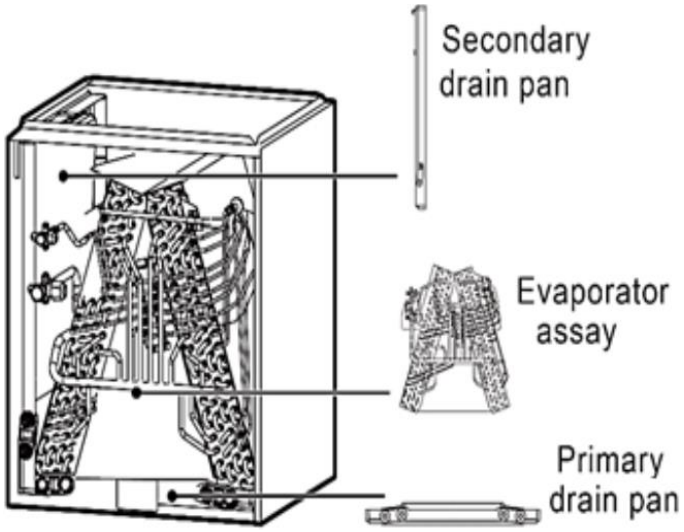
EXTERNAL STATIC PRESSURE

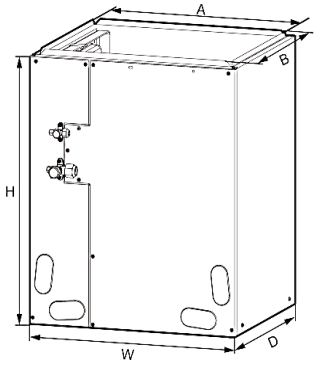
UNIT: inwc	STANDARD CFM											
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
TCAT48H/NaA				0.165	0.194	0.226	0.260	0.298	0.338	0.380	0.422	0.468
TCAT60H/NaA				0.171	0.195	0.234	0.267	0.307	0.344	0.389	0.427	0.478

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STRUCTURE & INSTALLATION INFORMATION: TCAT60H/NaA

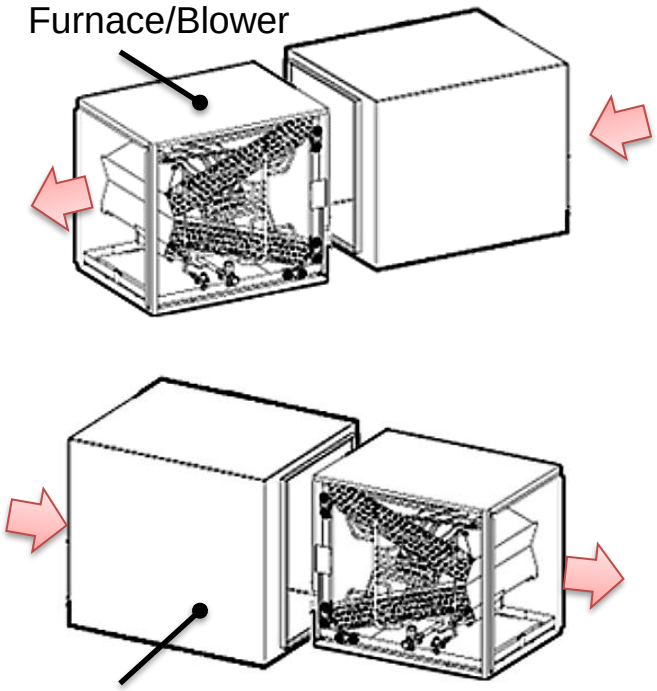




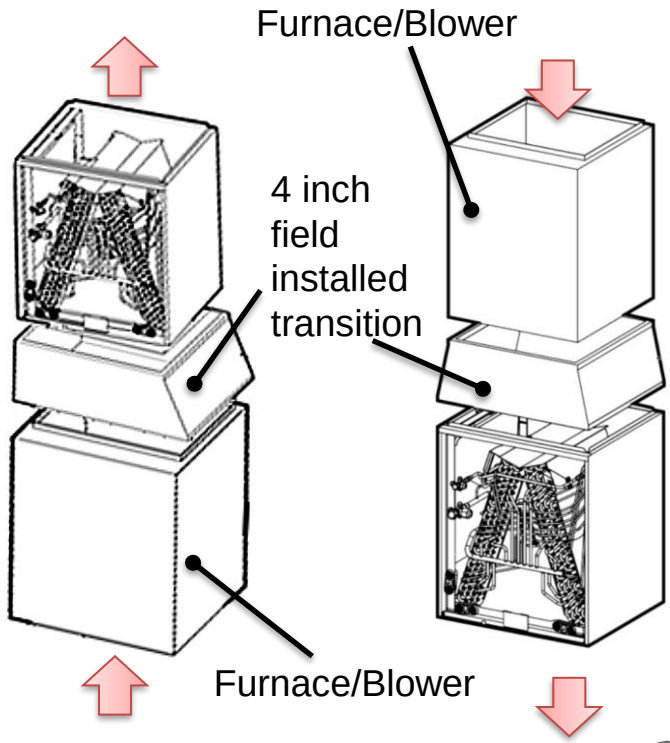
Unit: inch(mm)

Model	Dimension				
	W	D	H	A	B
TCAT24F/NaA	17-1/2(445)	21-1/4(540)	23(584)	15-7/8(403)	19-3/8(492)
TCAT36F/NaA	17-1/2(445)	21-1/4(540)	23(584)	15-7/8(403)	19-3/8(492)
TCAT48H/NaA	24-1/2(622)	21-1/4(540)	28-1/2(724)	22-7/8(581)	19-3/8(492)
TCAT60H/NaA	24-1/2(622)	21-1/4(540)	28-1/2(724)	22-7/8(581)	19-3/8(492)

❑ Horizontal Installation



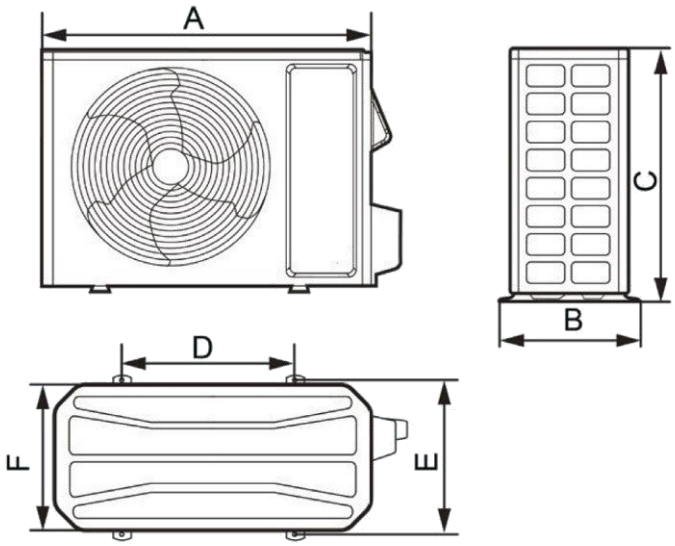
❑ Vertical Installation



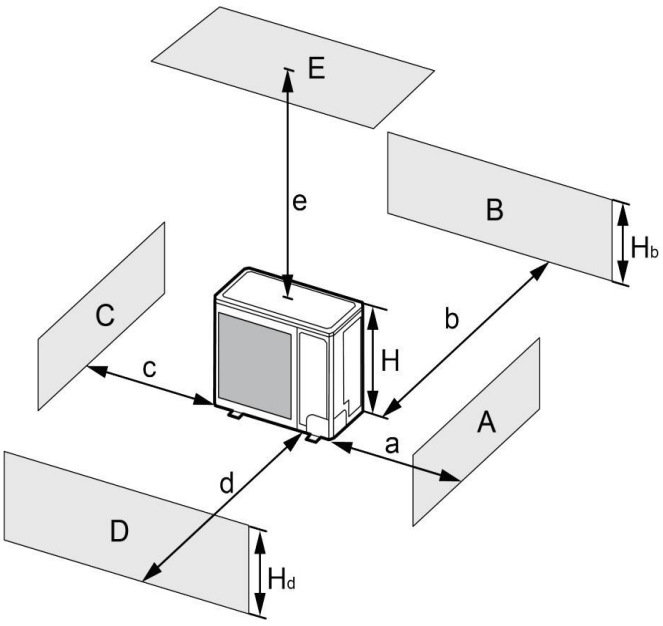
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DIMENSIONS & CLEARANCES: TUD42W2/D-D(U)



Dimensions	
A	39
B	16-13/16
C	37-13/16
D	25
E	15-9/16
F	14-9/16



Obstacle/Wall A~E	Obstacle/Wall Hb Hd H		Clearance (in)				
			A	b	c	d	e
B	—		-	⩾4	-	-	-
A,B,C,	—		⩾12	⩾4	⩾4	-	-
B,E	—		-	⩾4	-	-	⩾10
A,B,C,E	—		⩾12	⩾6	⩾6	-	⩾40
A,C,E	—		⩾8	-	⩾20	-	⩾10
D	—		-	-	-	⩾40	-
D,E	—		-	-	-	⩾40	⩾40
B,D	Hb < Hd	Hd > H	-	⩾4	-	⩾40	-
	Hb > Hd	Hd < H	-	⩾4	-	⩾40	-
B,D,E	Hb < Hd	Hb⩽1/2H	-	⩾10	-	⩾80	⩾40
		1/2H < Hb⩽H	-	⩾10	-	⩾80	⩾40
		Hb > H	Prohibited				
	Hb > Hd	Hd⩽1/2H	-	⩾4	-	⩾80	⩾40
		1/2H < Hd⩽H	-	⩾8	-	⩾80	⩾40
		Hd > H	Prohibited				

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