



Project Submittal

Project Name: Broken Arrow-Oliver Middle School
Project Number: 624683
Project Altitude: 500
Project Location:
 Broken Arrow, Oklahoma US

Date: 3/13/2024
Quote: 438020A
Roof Top Units: 5
Split Systems: 16

Customer: Broken Arrow Public Schools

Table of Contents

Tag	Qty	Model	Description
<u>Condensing Unit 1</u>	1	24A92	EL072XCSST1G AC/6TON/460-3
<u>V01,V63</u>	2	19V20	ML196UH090XE36C Furnace-Gas/90Btuh/3Ton
<u>V01,V63 Coils</u>	2	10C51	CX35-30/36C-6F-20 Coil/2.5TON/CASED
<u>CU/F-4,5,6,8,21</u>	5	10P67	SSB060H4S45G Condenser/5Ton/460-3
	5	16Y15	CHX35-51/61C-6F-1 COIL/4-5 Ton/Cased
	5	19A35	ML196UH110XE60C Furnace-Gas/110Btuh/5Ton
<u>CU-7</u>	1	10P67	SSB060H4S45G Condenser/5Ton/460-3
<u>CU/F-2</u>	1	10P65	SSB036H4S45G Condenser/3Ton/460-3
	1	10C51	CX35-30/36C-6F-20 Coil/2.5TON/CASED
	1	19V20	ML196UH090XE36C Furnace-Gas/90Btuh/3Ton
<u>CU/F-11</u>	1	23A66	ML17XC1-030-230 Condenser/2.5 Ton/230
	1	10C51	CX35-30/36C-6F-20 Coil/2.5TON/CASED
	1	19V20	ML196UH090XE36C Furnace-Gas/90Btuh/3Ton
<u>CU/F-10</u>	1	23A64	ML17XC1-018-230 Condenser/1.5 Ton/230
	1	10C42	CX35-18/24B-6F-20 Coil/2TON/CASED
	1	19A33	ML196UH070XE36B Furnace-Gas/70Btuh/3Ton
<u>CU-22</u>	1	15W61	SSB048H4S44G Condenser/4Ton/460-3
<u>CU/F-12</u>	1	15W61	SSB048H4S44G Condenser/4Ton/460-3
	1	10C55	CX35-48C-6F-20 Coil/4TON/CASED
	1	19A34	ML196UH090XE48C Furnace-Gas/90Btuh/4Ton
<u>5 Ton Xion</u>	2	KGB060S4B	KGB060S4B-G 5T CONF S= 14.0
<u>7.5 Ton Xion</u>	3	KGC092S4M	KGC092S4M-G 7.5T CONF E= 11.0

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Project Submittal

Tag: Condensing Unit 1
Condenser: EL072XCSST-460-3

Condenser			
Voltage	460 Volt 3 Phase V / 3Ph / 60Hz	Dimensions	48.38 in. x 39.88 in. x 48.75 in.
Tons	6.0	Total Weight	318 lb
MCA / MOCP	12.00 / 20.00 amp		
Condenser Oper Range-Nom Volt	+/- 10%		
Compressors		Refrigerant	
Cooling Stages	Two	Type	R-410A
Compressor Qty	1	Cond Suction Line	1 1/8
		Cond Liquid Line	3/8



Project Submittal

Tag: Condensing Unit 1

Field Installed Accessories

Catalog Number	Qty	Description
13T29	1	Coil / Hail Guard Combo Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
Copper Tube / Aluminum Fin Coils

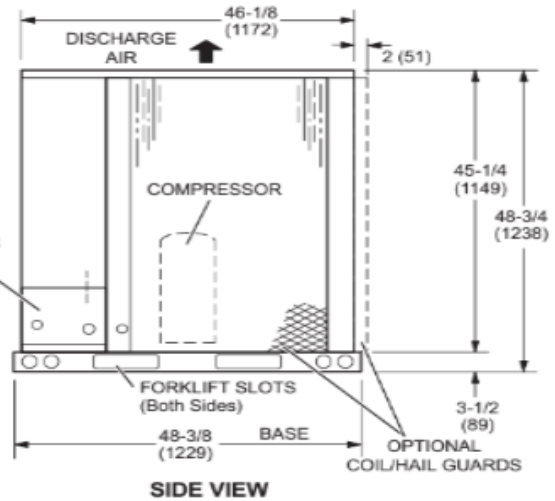
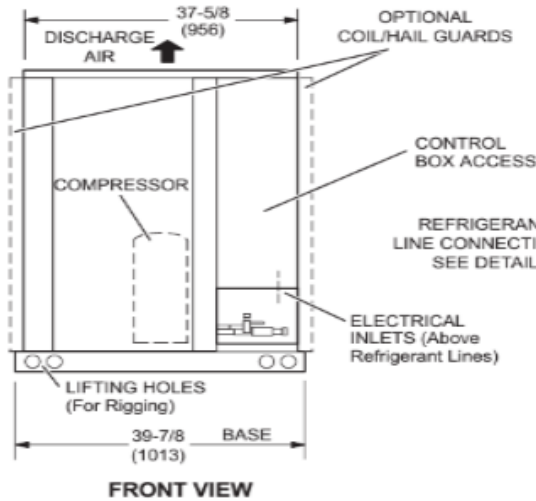
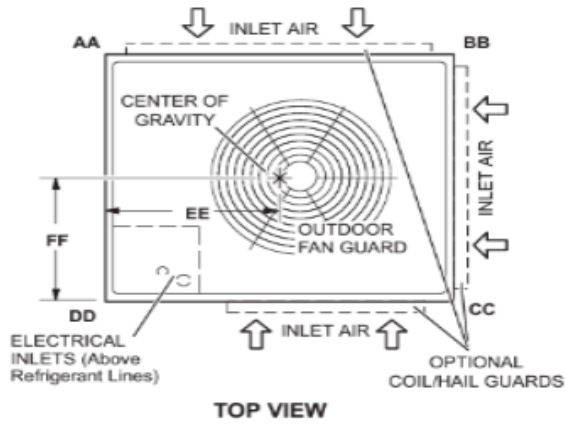
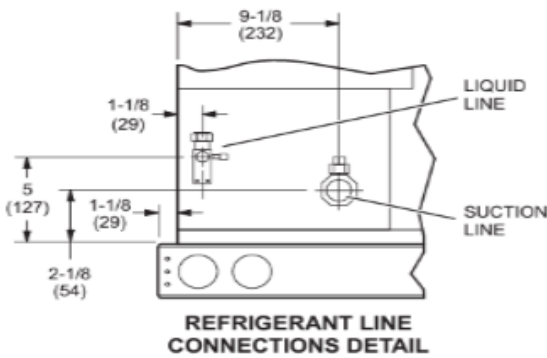
Cooling System

Non Chlorine, Ozone Friendly Refrigerant, R410A
Scroll Compressor
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch

Warranty

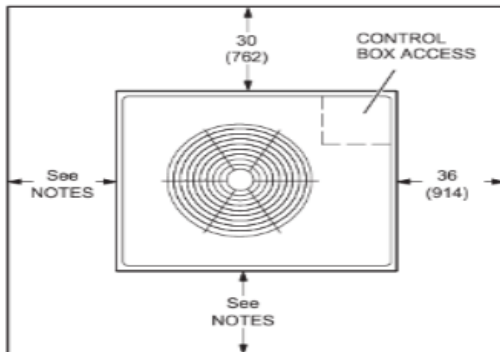
Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations

DIMENSIONS		EL072XCSS EL090XCSS										
Model No.	CORNER WEIGHTS								CENTER OF GRAVITY			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
EL072XCSS	66	30	73	33	97	44	82	37	23-1/4	591	19-1/4	489
EL090XCSS	75	34	89	40	112	51	88	40	25	635	20-1/4	514



UNIT CLEARANCES

EL072 and EL090



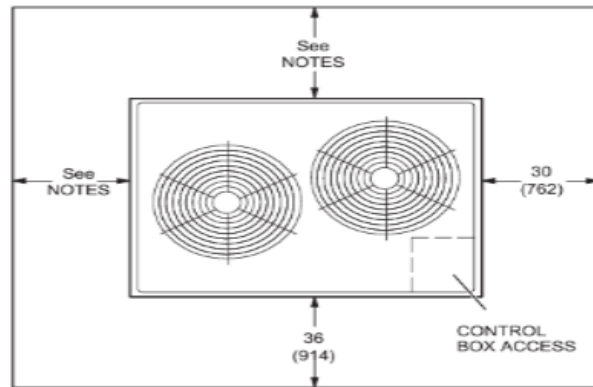
NOTES:

Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).
 A clearance of 24 in. (610 mm) must be maintained between two units.
 48 in. (1219 mm) clearance required on top of unit.

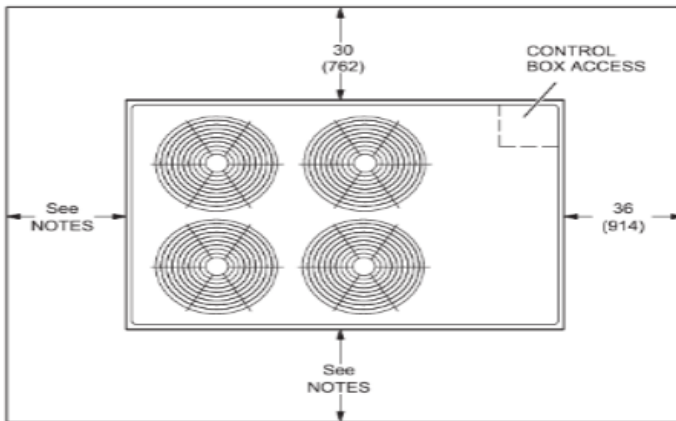
EL120 and EL150

NOTES:

Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).
 A clearance of 24 in. (610 mm) must be maintained between two units.
 48 in. (1219 mm) clearance required on top of unit.



EL180 and EL240



NOTES:

Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).
 A clearance of 24 in. (610 mm) must be maintained between two units.
 48 in. (1219 mm) clearance required on top of unit.



Project Submittal

Tag: V01,V63
Furnace: ML196UH090XE36C

Furnace					
Output (High/Low)	85.6 / MBH	Voltage	120V / 1Ph / 60Hz	Dimensions	28.75 in. x 21.00 in. x 33.00 in.
Input (High/Low)	88.0 / MBH	MCA		Total Weight	142 lb
Nominal Power	0.5hp	MOC	15 amp	Thermal	96.0%
Supply Air Flow	0	ESP	0.50 in.WC	Efficiency	0.5 in.
				Gas Line Size	



Project Submittal

Tag: V01,V63

Field Installed Accessories

Catalog Number	Qty	Description
60L46	2	3" Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy Gauge Cold Rolled Steel Cabinet

Heating System

Aluminized Steel Inshot Burners

Aluminized Steel Tubular Heat Exchanger

SureLight(R) Hot Surface Ignition

Furnace Limited Warranty 10 Years Comm

Warranty

Furnace See Limited Warranty Certificate included with unit for details

Furnace Limited warranty on heat exchanger of 20 years

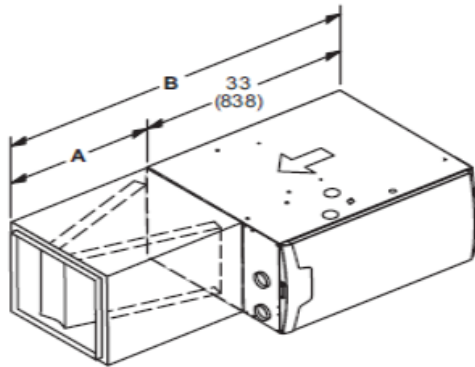
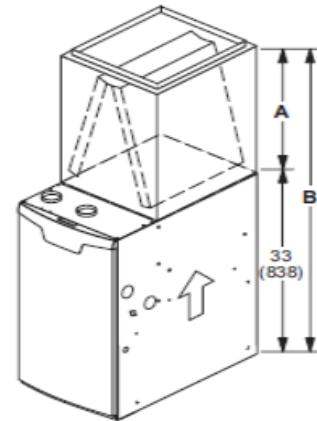
Furnace Limited warranty on all other covered components of 1 year (Comm Use)

Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

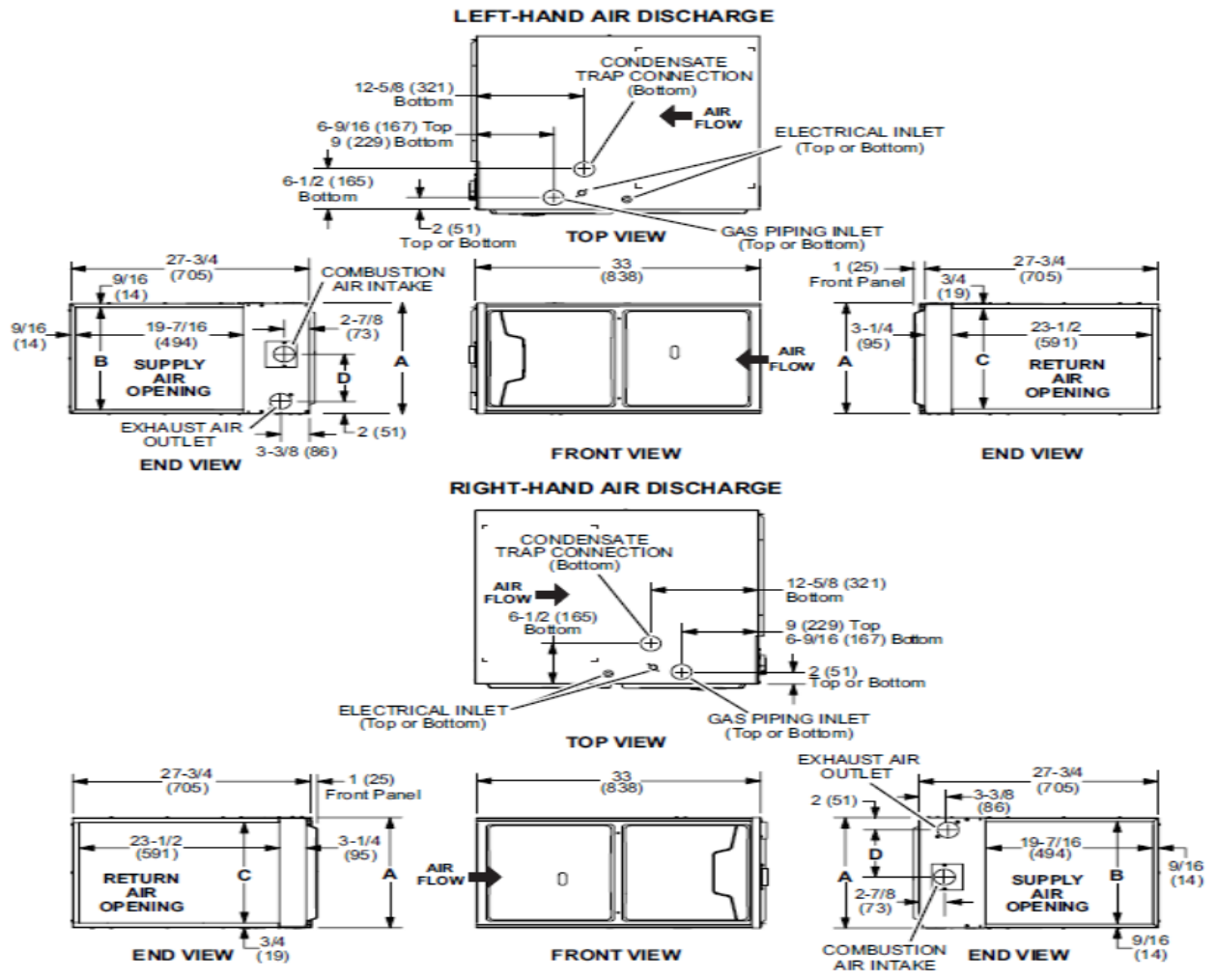
Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C				
CH35/CHX35-42B	31-1/2	880	64-1/2	1638
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				

DIMENSIONS - UNIT - HORIZONTAL POSITION



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36B ML196UH045XE36B ML196UH070XE36B ML196UH070XE48B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36C ML196UH090XE48C ML196UH090XE60C ML196UH110XE60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60D	24-1/2	622	23-3/8	594	23	584	11-1/8	283



Project Submittal

Tag: V01,V63 Coils
Evaporator Coil: CX35-30/36C-F

Evaporator Coil		Refrigerant		Condensate Drain	
	Specifications				
Orientation	Upflow	Coil Suction	3/4	Qty	2
Dimensions	21.00 in. x 21.00 in. x 24.50 in.	Line	3/8	Size	0.75 in.
Total Weight	48 lb	Coil Liquid		Pipe Thread	fpt
		Line			



Project Submittal

Tag: V01,V63 Coils

Cooling System

Twin Coils assembled in an "A" configuration
Check and Expansion Valve is factory installed

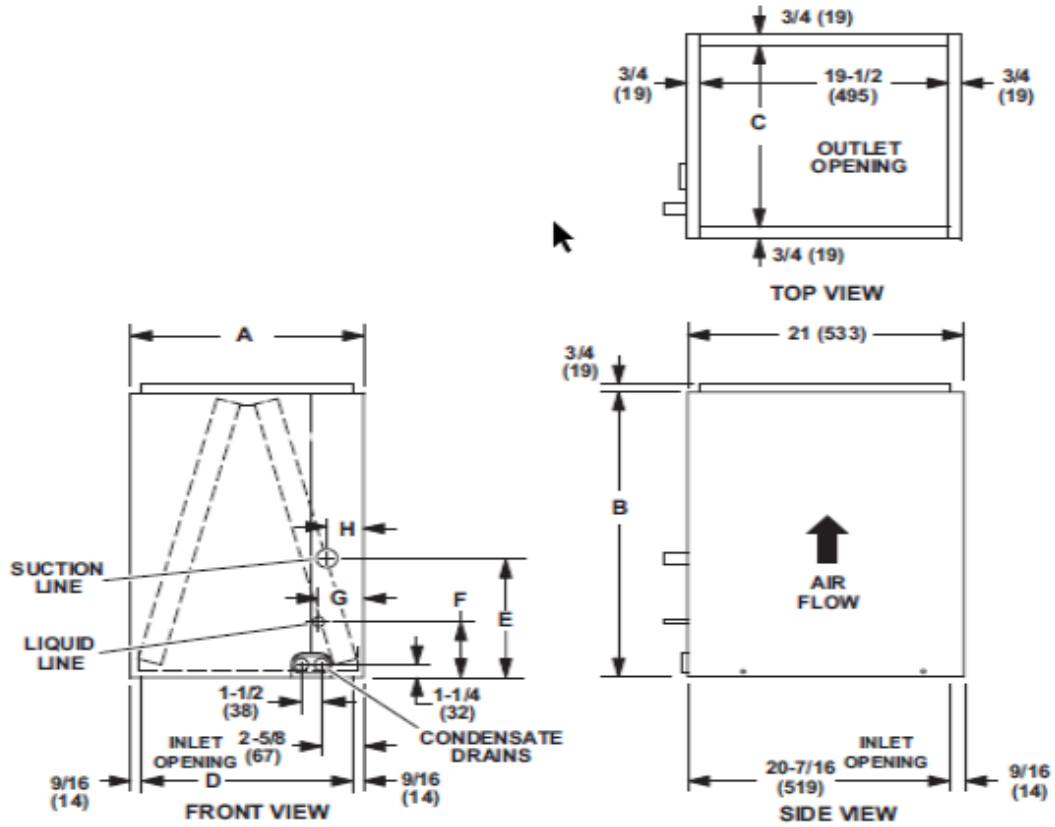
Warranty

Coil See Limited Warranty Certificate included with unit for details
Coil Limited warranty on all other covered components of 1 year (Comm Use)



Project Submittal

CX35-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CX35-18/24A-6F	14-1/2	368	16-1/2	419	13	330	13-3/8	340	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-18/24B-6F	17-1/2	445	16-1/2	419	16	408	16-3/8	416	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36B-6F	17-1/2	445	24-1/2	622	16	408	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36C-6F	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36B-6F	17-1/2	445	24-1/2	622	16	408	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60



Project Submittal

Tag: CU/F-4,5,6,8,21
Condenser: SSB060H4-460
Evaporator Coil: CHX35-51/61C-6F
Furnace: ML196UH110XE60C

UNIT OVERVIEW						AHRI Reference - 204577217		
Voltage	SEER EER	Tons	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460 Volt 3 Phase / 60Hz	15 12	5.0	58.9 / 43.4	55.7 / 40.3	1,648	0.5 / 0.8	80.0 / 67.0	53.7 / 53.7

COOLING							
Cooling Performance		Temperatures (DB/WB °F)					
Gross Cooling (Ttl/Sens)	58.9 / 43.4 MBH	Ambient	95.0				
Net Cooling (Ttl/Sens)	55.7 / 40.3 MBH	Entering	80.0 67.0				
Coil Moisture Removal	14.56 lb/hr	Total Leaving – (Coil)	53.7 53.7				
		Total Leaving – (Unit)	55.7 55.3				
ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	57.0 MBH	Cooling Stages	Two	Type	R-410A	Qty	2
		Compressor Qty	1	Cond Suction Line	1 1/8	Size	0.75 in.
				Cond Liquid Line	3/8	Pipe Thread	ft
				Coil Suction Line	7/8		
				Coil Liquid Line	3/8		

HEATING					
Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	107.2 / MBH	Total Leaving	60.2	Thermal Efficiency	96.0%
Input (High/Low)	110.0 / MBH			Gas Line Size	0.5 in.
Gas Heat Rise	60.2 °F			Heat Exchange Type	Aluminum

VENTILATION							
Air Flow (cfm)		Supply Fan			Air Resistance (in.WC)		
Supply	1,648	Nominal Power	1hp		Total	0.79	
		Drive Type	ECM Multi Speed Constant Torque			Ext Supply	0.50
		Speed	Medium-Low			Wet Coil	0.29
		Orientation	Upflow/Horizontal				

ELECTRICAL			
Condenser		Furnace	
Voltage	460 Volt 3 Phase / 60Hz	Voltage	120V / 1Ph / 60Hz
MCA	10 amp	MCA	
MOCP	20 amp	MOCP	15 amp
Condenser Oper Range-Nom Volt	+/- 10%		
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA					
Condenser		Furnace		Evaporator Coil	
Dimensions	39.50 in. x 35.50 in. x 45.00 in.	Dimensions	28.75 in. x 21.00 in. x 33.00 in.	Dimensions	21.50 in. x 31.50 in. x 21.00 in.
Total Weight	332 lb	Total Weight	164 lb	Total Weight	70 lb



Project Submittal

Tag: CU/F-4,5,6,8,21

Field Installed Accessories

Catalog Number	Qty	Description
60L46	5	3" Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
Copper Tube / Aluminum Fin Coils
Non-corrosive drain pan
Fully Insulated heavy gauge steel cabinet
Heavy Gauge Cold Rolled Steel Cabinet

Cooling System

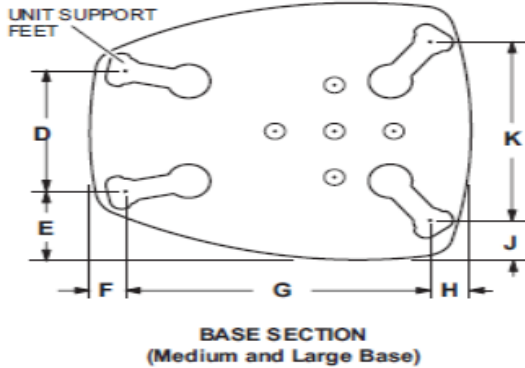
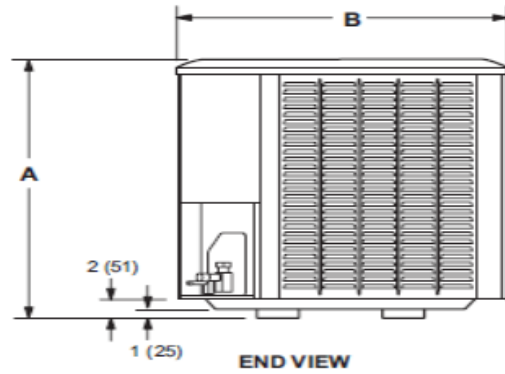
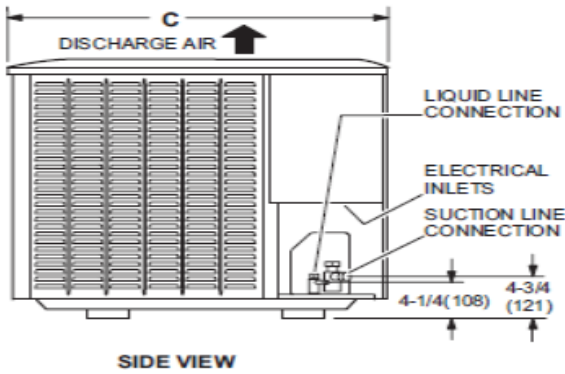
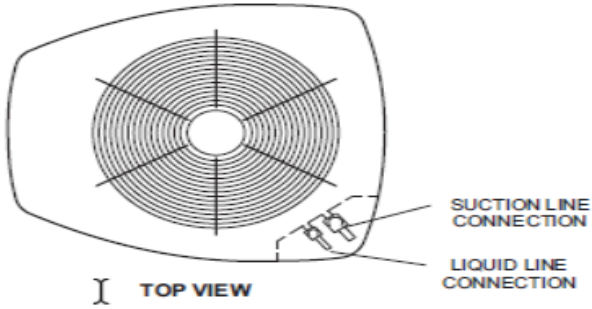
Non Chlorine, Ozone Friendly Refrigerant, R410A
High Pressure Switch (Manual Reset)
Scroll Compressor
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch
Twin Coils assembled in an "A" configuration
Check and Expansion Valve is factory installed

Heating System

Aluminized Steel Inshot Burners
Aluminized Steel Tubular Heat Exchanger
SureLight(R) Hot Surface Ignition
Furnace Limited Warranty 10 Years Comm

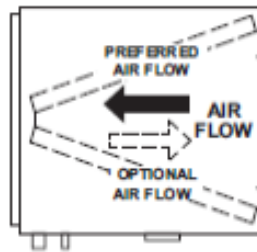
Warranty

Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations
Coil See Limited Warranty Certificate included with unit for details
Coil Limited warranty on all other covered components of 1 year (Comm Use)
Furnace See Limited Warranty Certificate included with unit for details
Furnace Limited warranty on heat exchanger of 20 years
Furnace Limited warranty on all other covered components of 1 year (Comm Use)
Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)

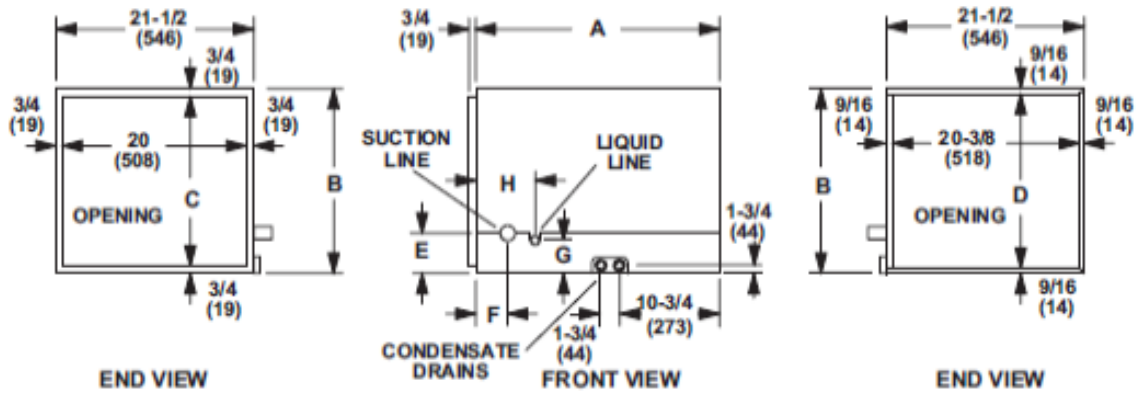


Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SSB036H4	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB048H4	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB060H4	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683

¹ Optional right-hand airflow requires a field fabricated 6 in. (152 mm) spacer in-between the furnace and coil.



TOP VIEW



END VIEW

FRONT VIEW

END VIEW

Model No.	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CHX35-18A-6F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-24A-6F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-24B-6F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-30A-6F	31-1/2	800	14-1/2	368	13	330	13-3/8	340	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-30B-6F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-36A-6F	26-1/2	673	14-1/2	368	13	330	13-3/8	340	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-36B-6F	26-1/2	673	17-1/2	444	16	406	16-3/8	416	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-36C-6F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-42B-6F	31-1/2	800	17-1/2	444	16	406	16-3/8	416	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-42C-6F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-48B-6F	31-1/2	800	17-1/2	444	16	406	16-3/8	416	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-48C-6F	26-1/2	673	21	533	19-1/2	495	19-7/8	505	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-51/61C-6F	31-1/2	800	21	533	19-1/2	495	19-7/8	505	4	102	2-1/8	54	3	76	4-7/8	124
CHX35-60D-6F	31-1/2	800	24-1/2	622	23	584	23-3/8	594	4	102	2-1/8	54	3	76	4-7/8	124

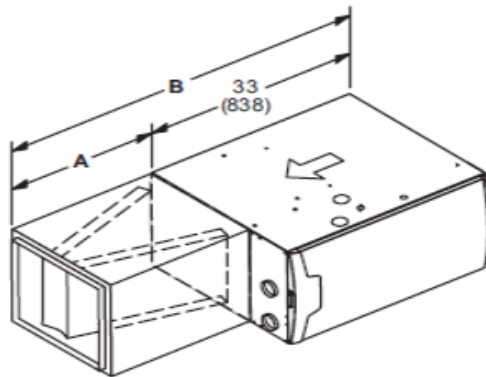
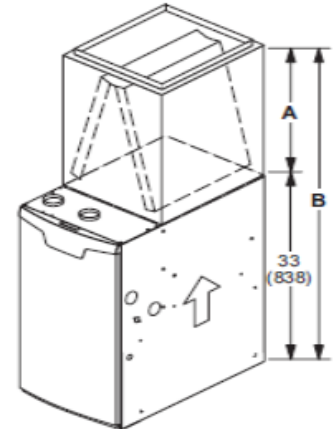


Project Submittal

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

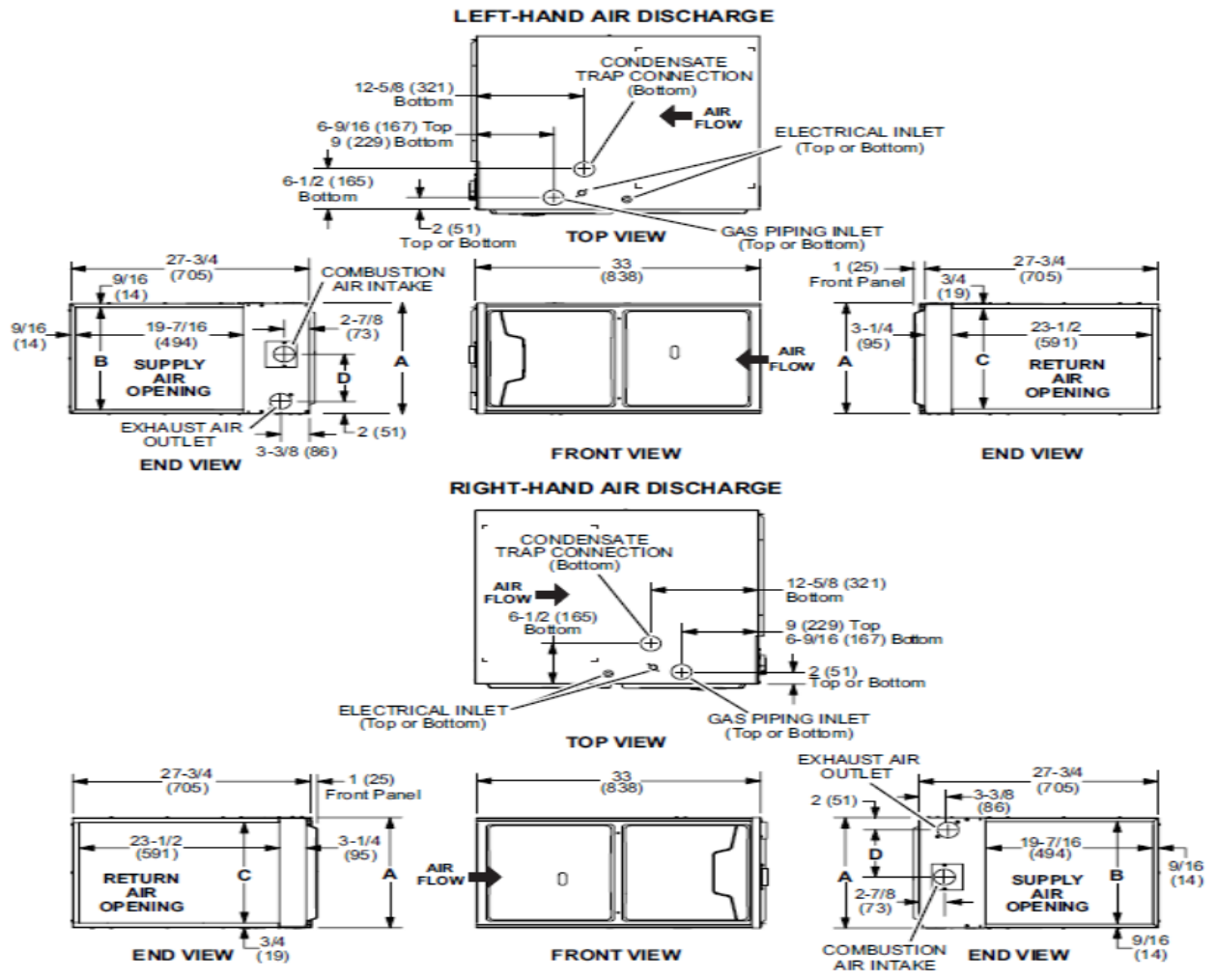
Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C	31-1/2	880	64-1/2	1638
CH35/CHX35-42B				
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				

DIMENSIONS - UNIT - HORIZONTAL POSITION



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36B ML196UH045XE36B ML196UH070XE36B ML196UH070XE48B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36C ML196UH090XE48C ML196UH090XE60C ML196UH110XE60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60D	24-1/2	622	23-3/8	594	23	584	11-1/8	283



Project Submittal

Tag: CU-7
Condenser: SSB060H4-460

Condenser			
Voltage	460 Volt 3 Phase V / 3Ph / 60Hz	Dimensions	39.50 in. x 35.50 in. x 45.00 in.
Tons	5.0	Total Weight	332 lb
MCA / MOCP	10.05 / 20.00 amp		
Condenser Oper Range-Nom Volt	+/- 10%		
Compressors		Refrigerant	
Cooling Stages	Two	Type	R-410A
Compressor Qty	1	Cond Suction Line	1 1/8
		Cond Liquid Line	3/8



Project Submittal

Tag: CU-7

Product Features

Cabinet

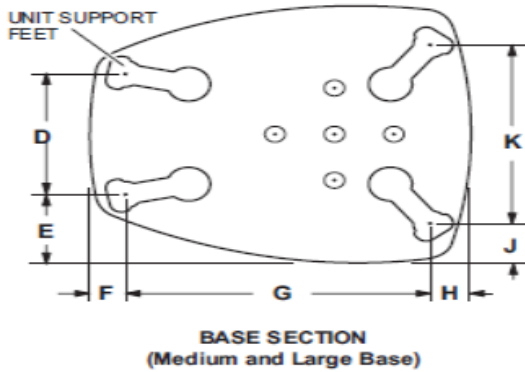
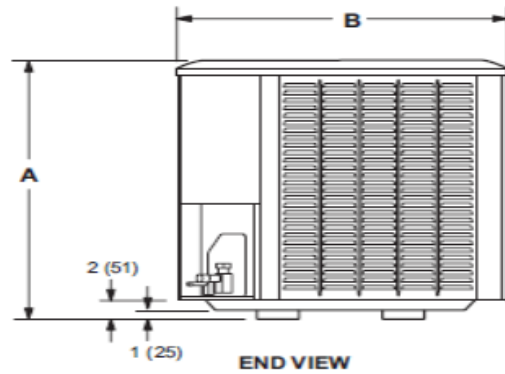
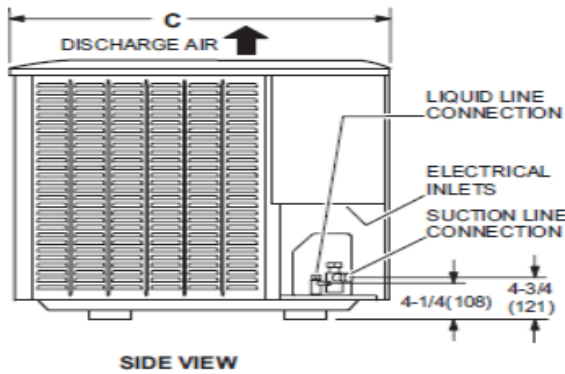
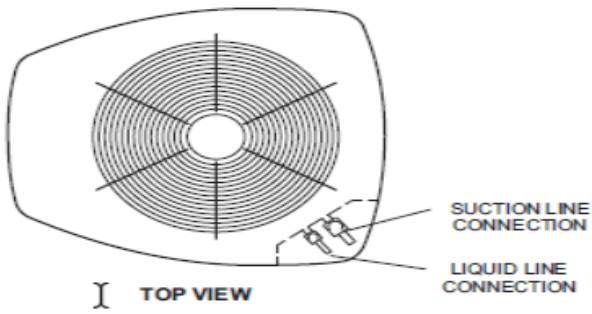
Heavy gauge galvanized steel cabinet
Copper Tube / Aluminum Fin Coils

Cooling System

Non Chlorine, Ozone Friendly Refrigerant, R410A
High Pressure Switch (Manual Reset)
Scroll Compressor
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch

Warranty

Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations



Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SSB036H4	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB048H4	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB080H4	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	28-7/8	683



Project Submittal

Tag: CU/F-2
Condenser: SSB036H4-460
Evaporator Coil: CX35-30/36C-F
Furnace: ML196UH090XE36C

UNIT OVERVIEW						AHRI Reference - 206008311		
Voltage	SEER EER	Tons	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460 Volt 3 Phase / 60Hz	15.5 12	3.0	34.7 / 25.6	33.2 / 24.1	1,022	0.5 / 0.7	80.0 / 67.0	54.1 / 54.1

COOLING							
Cooling Performance		Temperatures (DB/WB °F)					
Gross Cooling (Ttl/Sens)	34.7 / 25.6 MBH	Ambient	95.0				
Net Cooling (Ttl/Sens)	33.2 / 24.1 MBH	Entering	80.0 67.0				
Coil Moisture Removal	8.57 lb/hr	Total Leaving – (Coil)	54.1 54.1				
		Total Leaving – (Unit)	55.8 55.4				
ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	35.0 MBH	Cooling Stages	Two	Type	R-410A	Qty	2
		Compressor Qty	1	Cond Suction Line	7/8	Size	0.75 in.
				Cond Liquid Line	3/8	Pipe Thread	1/2 in.
				Coil Suction Line	3/4		
				Coil Liquid Line	3/8		

HEATING					
Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	85.6 / MBH	Total Leaving	77.6	Thermal Efficiency	96.0%
Input (High/Low)	88.0 / MBH			Gas Line Size	0.5 in.
Gas Heat Rise	77.6 °F			Heat Exchange Type	Aluminum

VENTILATION							
Air Flow (cfm)		Supply Fan			Air Resistance (in.WC)		
Supply	1,022	Nominal Power	0.5hp		Total	0.65	
		Drive Type	ECM Multi Speed Constant Torque			Ext Supply	0.50
		Speed	Medium-Low			Wet Coil	0.15
		Orientation	Upflow/Horizontal				

ELECTRICAL			
Condenser		Furnace	
Voltage	460 Volt 3 Phase / 60Hz	Voltage	120V / 1Ph / 60Hz
MCA	8 amp	MCA	
MOCP	10 amp	MOCP	15 amp
Condenser Oper Range-Nom Volt	+/- 10%		
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA					
Condenser		Furnace		Evaporator Coil	
Dimensions	35.00 in. x 30.50 in. x 31.00 in.	Dimensions	28.75 in. x 21.00 in. x 33.00 in.	Dimensions	21.00 in. x 21.00 in. x 24.50 in.
Total Weight	243 lb	Total Weight	142 lb	Total Weight	48 lb



Project Submittal

Tag: CU/F-2

Field Installed Accessories

Catalog Number	Qty	Description
60L46	1	3" Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
 Copper Tube / Aluminum Fin Coils
 Heavy Gauge Cold Rolled Steel Cabinet

Cooling System

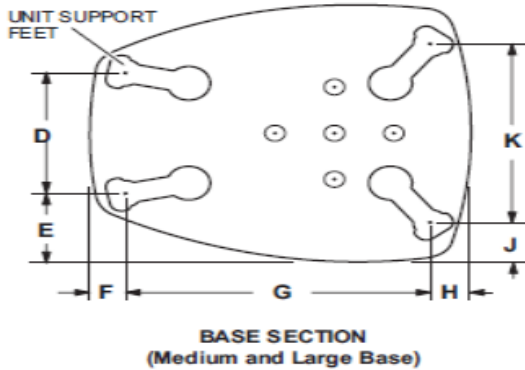
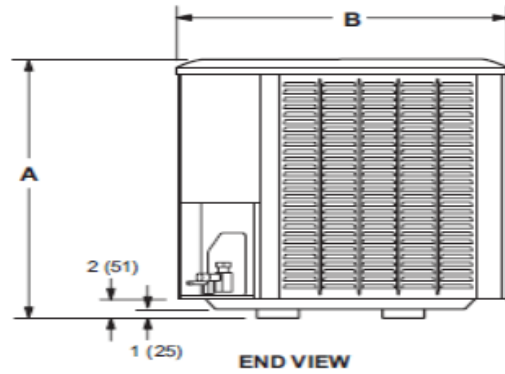
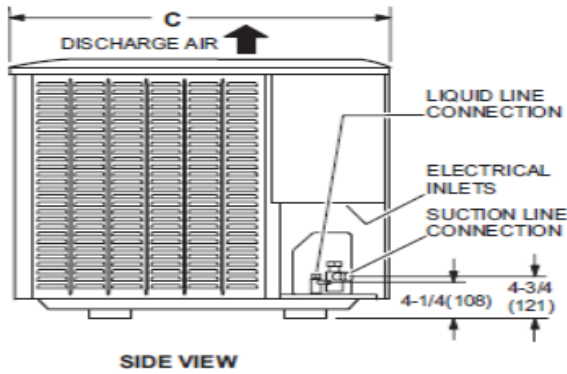
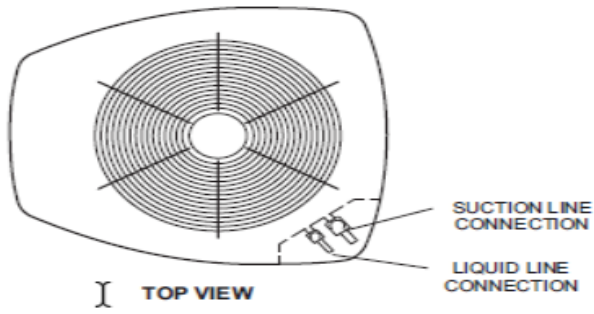
Non Chlorine, Ozone Friendly Refrigerant, R410A
 High Pressure Switch (Manual Reset)
 Scroll Compressor
 Hi-Capacity Drier factory installed in liquid line
 Low Pressure Switch
 Twin Coils assembled in an "A" configuration
 Check and Expansion Valve is factory installed

Heating System

Aluminized Steel Inshot Burners
 Aluminized Steel Tubular Heat Exchanger
 SureLight(R) Hot Surface Ignition
 Furnace Limited Warranty 10 Years Comm

Warranty

Condenser See Limited Warranty Certificate included with unit for details
 Condenser Limited compressor warranty of 5 years for Non-Residential Installations
 Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations
 Coil See Limited Warranty Certificate included with unit for details
 Coil Limited warranty on all other covered components of 1 year (Comm Use)
 Furnace See Limited Warranty Certificate included with unit for details
 Furnace Limited warranty on heat exchanger of 20 years
 Furnace Limited warranty on all other covered components of 1 year (Comm Use)
 Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)

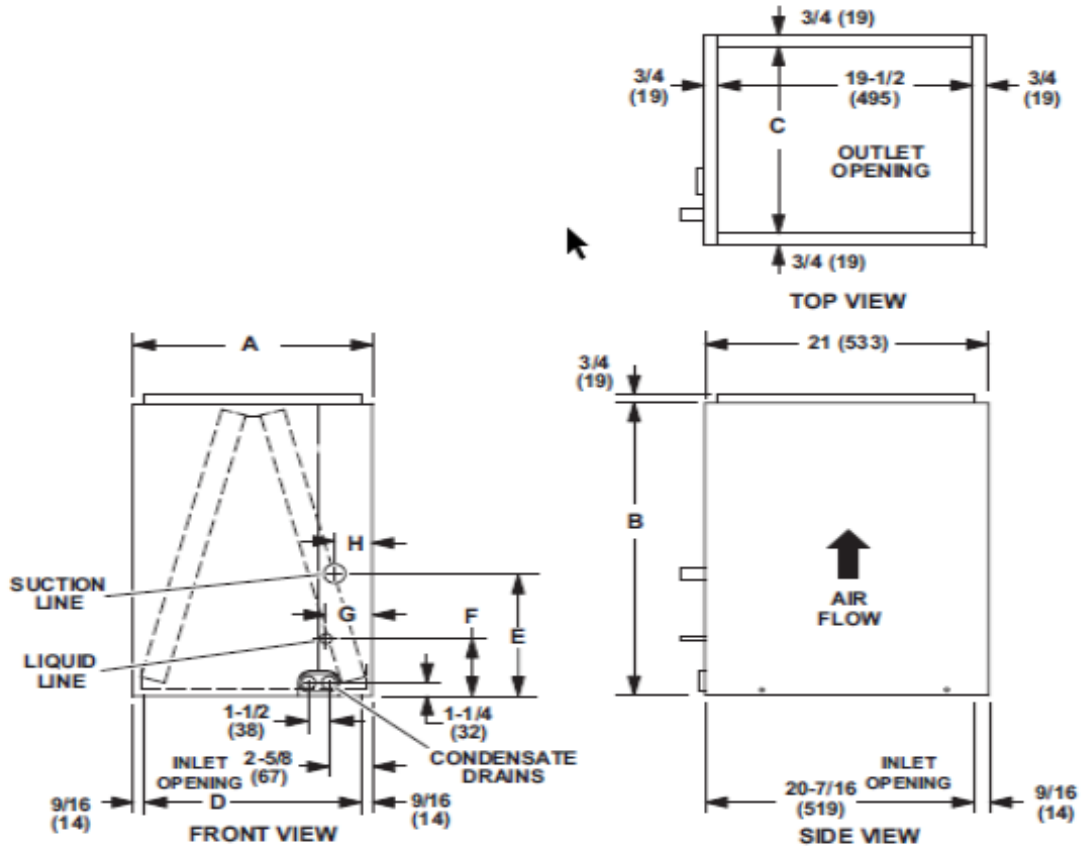


Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SSB036H4	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB048H4	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB060H4	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683



Project Submittal

CX35-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CX35-18/24A-6F	14-1/2	368	16-1/2	419	13	330	13-3/8	340	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-18/24B-6F	17-1/2	445	16-1/2	419	16	406	16-3/8	416	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36C-6F	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60

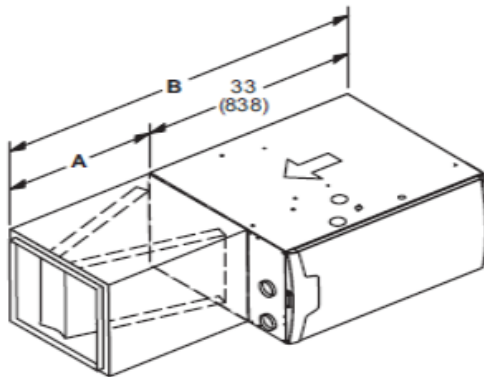
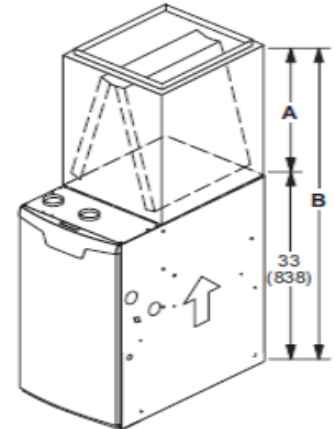


Project Submittal

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C								
C35/CX35-36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C								
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

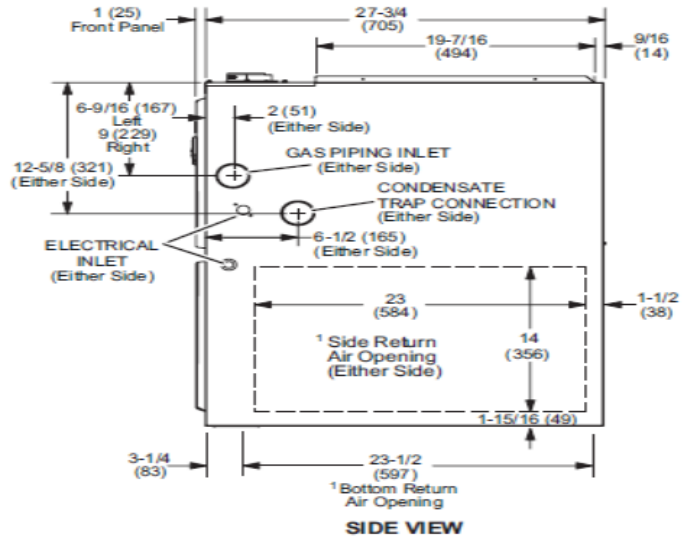
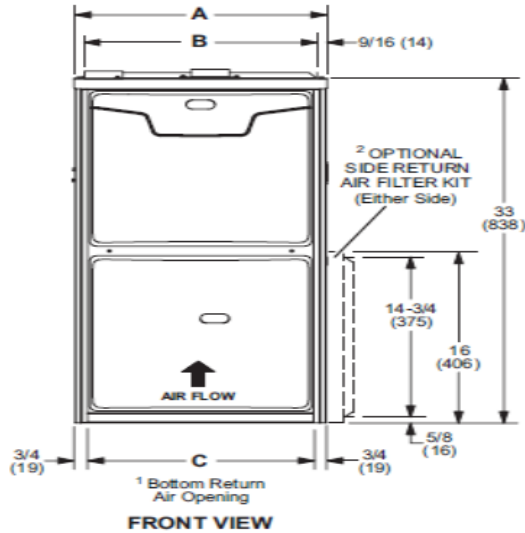
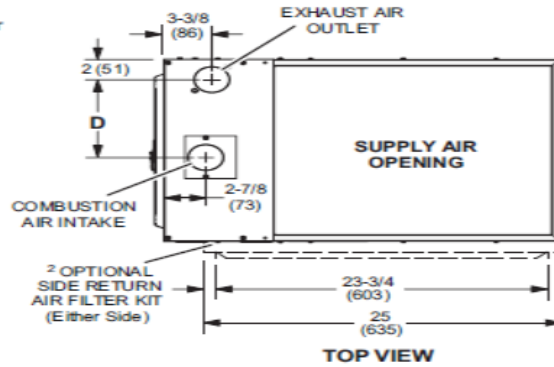
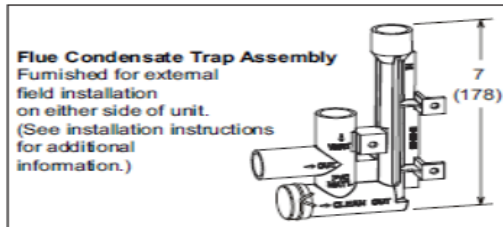
Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C	31-1/2	880	64-1/2	1638
CH35/CHX35-42B				
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				

DIMENSIONS - UNIT - UPFLOW POSITION

¹ NOTE - 60C and 60D size units that require air volumes over 1800 cfm must have one of the following:

1. Single side return air and Optional Return Air Base with transition that must accommodate required 20 x 25 x 1 inch (508 x 635 x 25 mm) air filter to maintain proper velocity.
 2. Bottom return air.
 3. Return air from both sides.
 4. Bottom and one side return air.
- See Blower Performance Tables for additional information.

² Optional Side Return Air Filter Kit is not for use with the Optional Return Air Base.



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36B ML196UH045XE36B ML196UH070XE36B ML196UH070XE48B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36C ML196UH090XE48C ML196UH090XE60C ML196UH110XE60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60D	24-1/2	622	23-3/8	594	23	584	11-1/8	283



Project Submittal

Tag: CU/F-11
Condenser: ML17XC1-030-230
Evaporator Coil: CX35-30/36C-F
Furnace: ML196UH090XE36C

UNIT OVERVIEW						AHRI Reference - 208803338		
Voltage	SEER SEER2 EER EER2	Tons	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
208 Volt 1 Phase / 60Hz	16 15.2 13 12.5	2.5	29.2 / 23.1	27.6 / 21.5	1,036	0.5 / 0.6	80.0 / 67.0	52.1 / 52.1

COOLING							
Cooling Performance				Temperatures (DB/WB °F)			
Gross Cooling (Ttl/Sens)		29.2 / 23.1 MBH		Ambient		95.0	
Net Cooling (Ttl/Sens)		27.6 / 21.5 MBH		Entering		80.0 / 67.0	
Coil Moisture Removal		5.82 lb/hr		Total Leaving – (Coil)		52.1 / 52.1	
				Total Leaving – (Unit)		54.0 / 54.0	
ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling 28.0 MBH		Cooling Stages Single Compressor Qty 1		Type R-410A Cond Suction Line 3/4 Cond Liquid Line 3/8 Coil Suction Line 3/4 Coil Liquid Line 3/8		Qty 2 Size 0.75 in. Pipe Thread fpt	

HEATING					
Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low) 85.6 / MBH		Total Leaving 76.5		Thermal Efficiency 96.0%	
Input (High/Low) 88.0 / MBH				Gas Line Size 0.5 in.	
Gas Heat Rise 76.5 °F				Heat Exchange Type Aluminum	

VENTILATION						
Air Flow (cfm)		Supply Fan			Air Resistance (in.WC)	
Supply 1,036		Nominal Power 0.5hp Drive Type ECM Multi Speed Constant Torque Speed Medium-Low Orientation Upflow/Horizontal			Total 0.61 Ext Supply 0.50 Wet Coil 0.11	

ELECTRICAL			
Condenser		Furnace	
Voltage 208 Volt 1 Phase / 60Hz		Voltage 120V / 1Ph / 60Hz	
MCA 18 amp		MCA	
MOCP 25 amp		MOCP 15 amp	
Condenser Oper Range-Nom Volt +/- 10%			
Oper Range-Nom Volt +/- 10%			

ADDITIONAL DATA					
Condenser		Furnace		Evaporator Coil	
Dimensions 28.25 in. x 28.25 in. x 37.25 in.		Dimensions 28.75 in. x 21.00 in. x 33.00 in.		Dimensions 21.00 in. x 21.00 in. x 24.50 in.	
Total Weight 180 lb		Total Weight 142 lb		Total Weight 48 lb	



Project Submittal

Tag: CU/F-11

Field Installed Accessories

Catalog Number	Qty	Description
60L46	1	3" Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
Heavy Gauge Cold Rolled Steel Cabinet
PermaGuard™ Unit Base

Cooling System

Non Chlorine, Ozone Friendly Refrigerant, R410A
RFC IV Metering Device furnished (easily removed for expansion valve use)
High Pressure Switch (Manual Reset)
Scroll Compressor
Quantum Coil / Fortified aluminum allow tube/enhanced fin coil
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch
Twin Coils assembled in an "A" configuration
Check and Expansion Valve is factory installed

Heating System

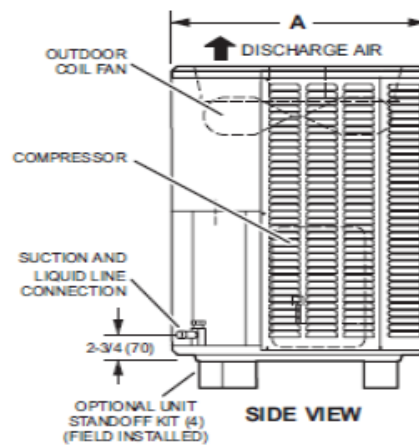
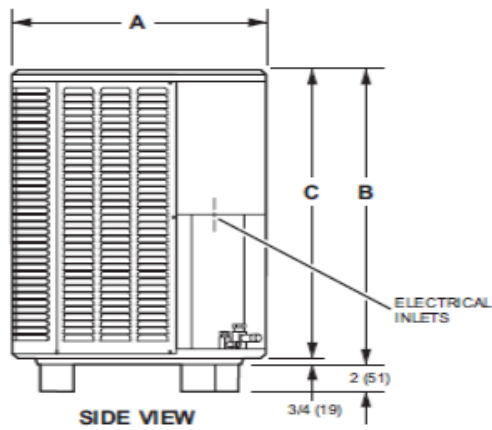
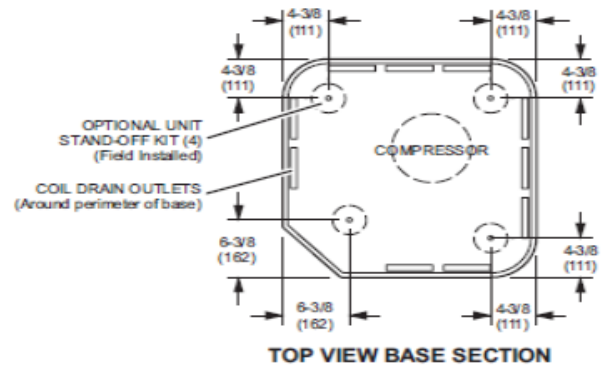
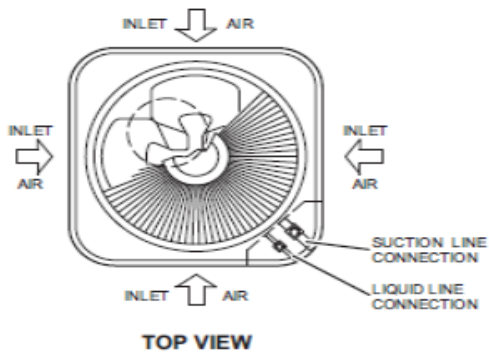
Aluminized Steel Inshot Burners
Aluminized Steel Tubular Heat Exchanger
SureLight(R) Hot Surface Ignition
Furnace Limited Warranty 10 Years Comm

Warranty

Condenser Limited compressor warranty of 5 years for Residential Installations
Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations
Coil See Limited Warranty Certificate included with unit for details
Coil Limited warranty on all other covered components of 1 year (Comm Use)
Furnace See Limited Warranty Certificate included with unit for details
Furnace Limited warranty on heat exchanger of 20 years
Furnace Limited warranty on all other covered components of 1 year (Comm Use)
Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)



Project Submittal

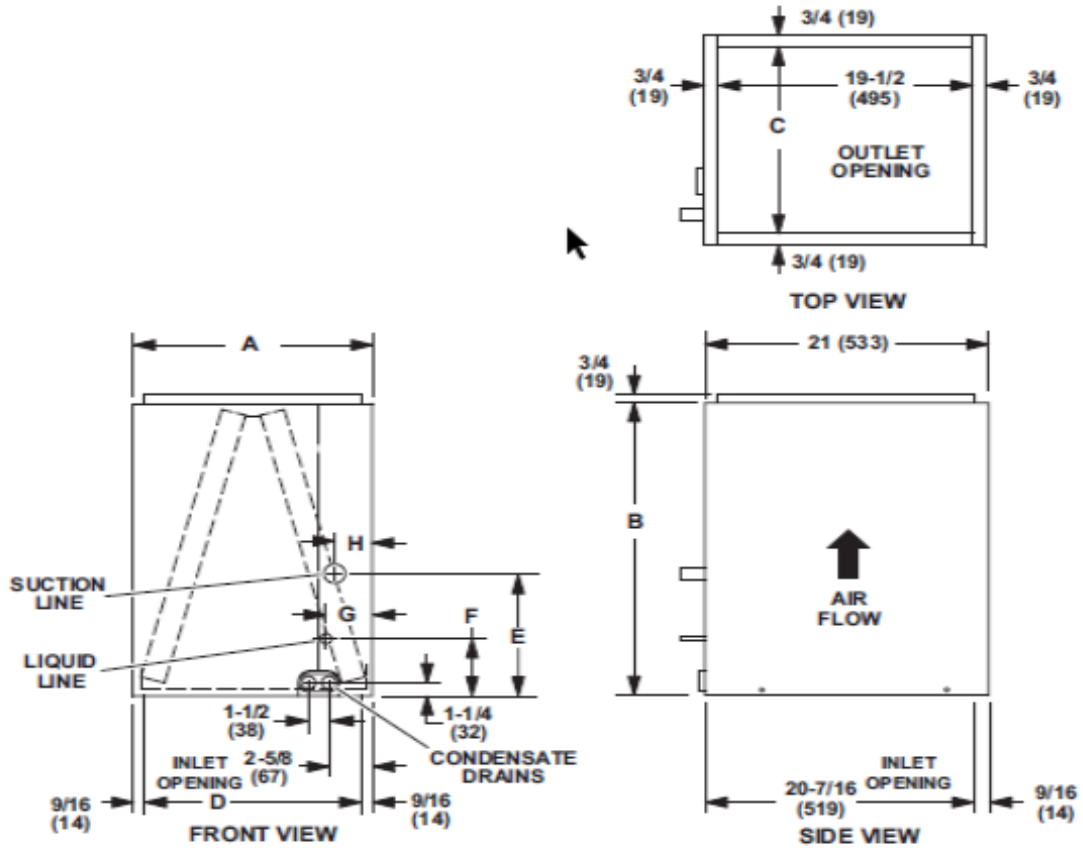


Model	A		B		C	
	inches	mm	inches	mm	inches	mm
018	28-1/4	718	29-1/4	743	28-1/2	724
024	28-1/4	718	37-1/4	946	36-1/2	927
030	28-1/4	718	29-1/4	743	28-1/2	724
036	28-1/4	718	37-1/4	946	36-1/2	927
041	32-1/4	819	33-1/4	845	32-1/2	826
042	32-1/4	819	33-1/4	845	32-1/2	826
047	32-1/4	819	33-1/4	845	32-1/2	826
048	28-1/4	718	43-1/4	1099	42-1/2	1080
059	32-1/4	819	43-1/4	1099	42-1/2	1080
060	32-1/4	819	43-1/4	1099	42-1/2	1080



Project Submittal

CX35-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils

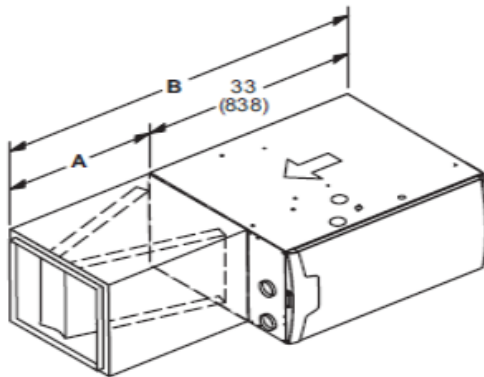
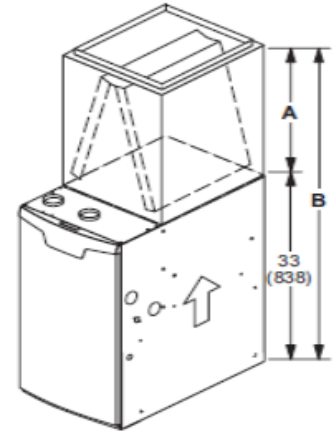


Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CX35-18/24A-6F	14-1/2	368	16-1/2	419	13	330	13-3/8	340	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-18/24B-6F	17-1/2	445	16-1/2	419	16	406	16-3/8	416	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36C-6F	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C								
C35/CX35-36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C								
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C	31-1/2	880	64-1/2	1638
CH35/CHX35-42B				
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				



Project Submittal

Tag: CU/F-10
Condenser: ML17XC1-018-230
Evaporator Coil: CX35-18/24B-F
Furnace: ML196UH070XE36B

UNIT OVERVIEW						AHRI Reference - 208801251		
Voltage	SEER SEER2 EER EER2	Tons	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
208 Volt 1 Phase / 60Hz	15.5 14.7 13.5 12.2	1.5	18.0 / 14.1	16.4 / 12.5	631	0.5 / 0.6	80.0 / 67.0	51.5 / 51.5

COOLING							
Cooling Performance				Temperatures (DB/WB °F)			
Gross Cooling (Ttl/Sens)		18.0 / 14.1 MBH		Ambient		95.0	
Net Cooling (Ttl/Sens)		16.4 / 12.5 MBH		Entering		80.0 67.0	
Coil Moisture Removal		3.69 lb/hr		Total Leaving – (Coil)		51.5 51.5	
				Total Leaving – (Unit)		54.8 54.8	
ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling 17.1 MBH		Cooling Stages Single		Type R-410A		Qty 2	
		Compressor Qty 1		Cond Suction Line 3/4		Size 0.75 in.	
				Cond Liquid Line 3/8		Pipe Thread fpt	
				Coil Suction Line 3/4			
				Coil Liquid Line 3/8			

HEATING					
Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low) 63.9 / MBH		Total Leaving 93.7		Thermal Efficiency 96.0%	
Input (High/Low) 66.0 / MBH				Gas Line Size 0.5 in.	
Gas Heat Rise 93.7 °F				Heat Exchange Type Aluminum	

VENTILATION						
Air Flow (cfm)		Supply Fan			Air Resistance (in.WC)	
Supply 631		Nominal Power 0.5hp			Total 0.62	
		Drive Type ECM Multi Speed Constant Torque			Ext Supply 0.50	
		Speed Low			Wet Coil 0.12	
		Orientation Upflow/Horizontal				

ELECTRICAL			
Condenser		Furnace	
Voltage 208 Volt 1 Phase / 60Hz		Voltage 120V / 1Ph / 60Hz	
MCA 12 amp		MCA	
MOCP 15 amp		MOCP 15 amp	
Condenser Oper Range-Nom Volt +/- 10%			
Oper Range-Nom Volt +/- 10%			

ADDITIONAL DATA					
Condenser		Furnace		Evaporator Coil	
Dimensions 28.25 in. x 28.25 in. x 29.25 in.		Dimensions 28.75 in. x 17.50 in. x 33.00 in.		Dimensions 21.00 in. x 17.50 in. x 16.50 in.	
Total Weight 155 lb		Total Weight 129 lb		Total Weight 34 lb	



Project Submittal

Tag: CU/F-10

Field Installed Accessories

Catalog Number	Qty	Description
71M80	1	1.5 Inch Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
Heavy Gauge Cold Rolled Steel Cabinet
PermaGuard™ Unit Base

Cooling System

Non Chlorine, Ozone Friendly Refrigerant, R410A
RFC IV Metering Device furnished (easily removed for expansion valve use)
High Pressure Switch (Manual Reset)
Scroll Compressor
Quantum Coil / Fortified aluminum allow tube/enhanced fin coil
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch
Twin Coils assembled in an "A" configuration
Check and Expansion Valve is factory installed

Heating System

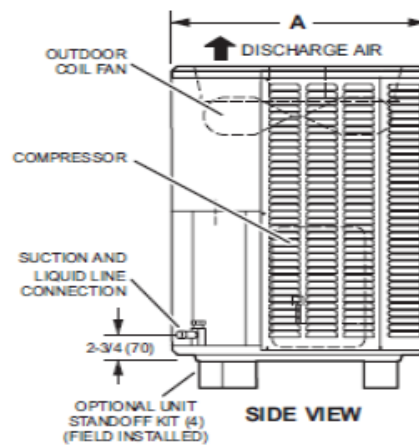
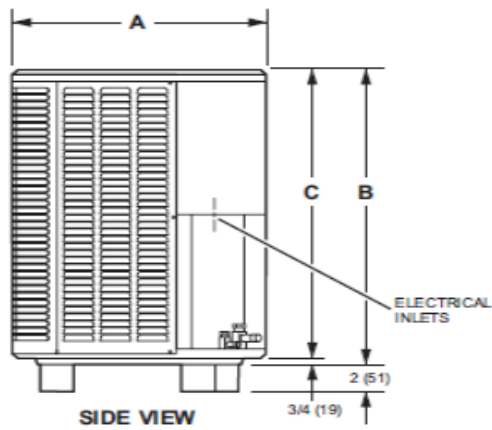
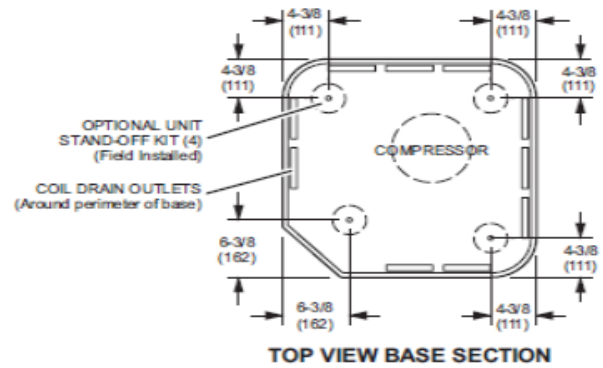
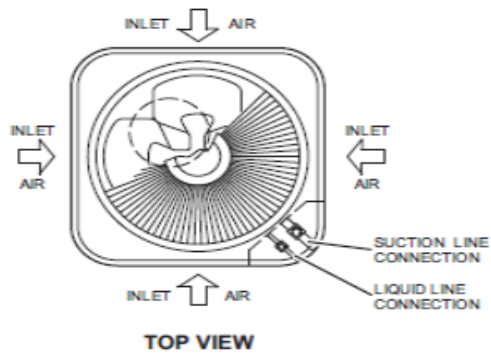
Aluminized Steel Inshot Burners
Aluminized Steel Tubular Heat Exchanger
SureLight(R) Hot Surface Ignition
Furnace Limited Warranty 10 Years Comm

Warranty

Condenser Limited compressor warranty of 5 years for Residential Installations
Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations
Coil See Limited Warranty Certificate included with unit for details
Coil Limited warranty on all other covered components of 1 year (Comm Use)
Furnace See Limited Warranty Certificate included with unit for details
Furnace Limited warranty on heat exchanger of 20 years
Furnace Limited warranty on all other covered components of 1 year (Comm Use)
Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)



Project Submittal

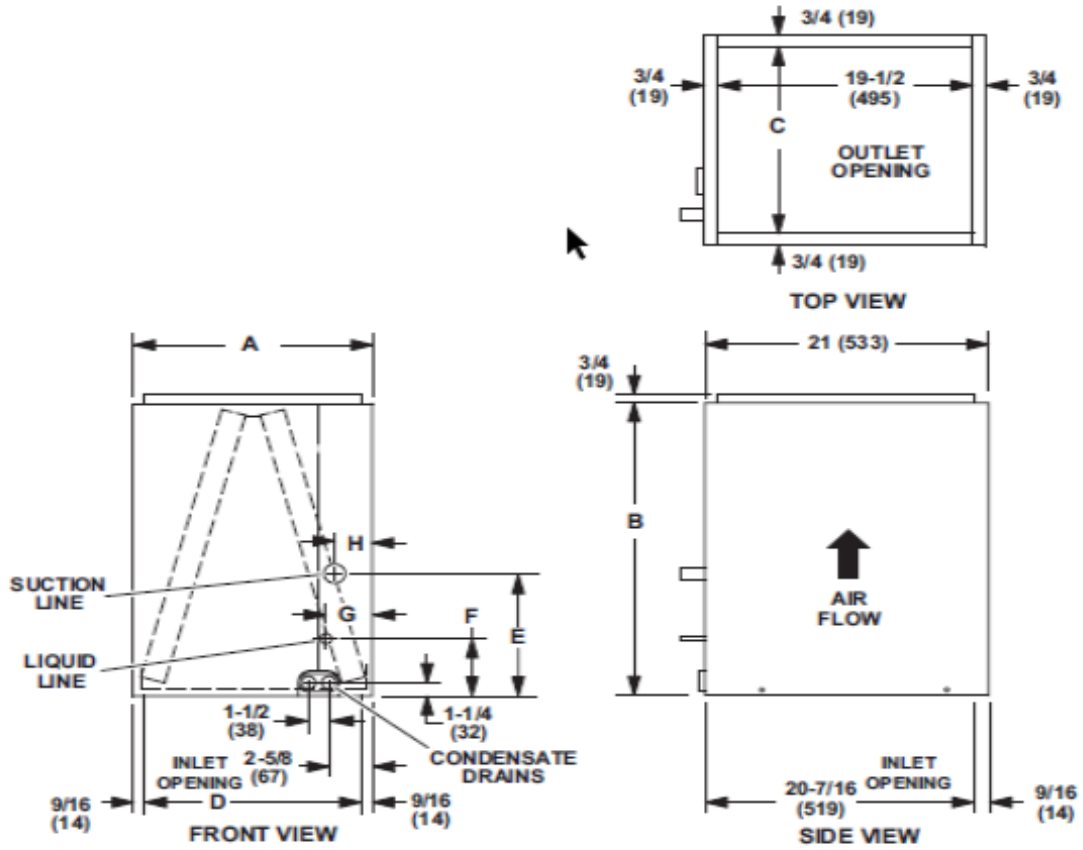


Model	A		B		C	
	inches	mm	inches	mm	inches	mm
018	28-1/4	718	29-1/4	743	28-1/2	724
024	28-1/4	718	37-1/4	946	36-1/2	927
030	28-1/4	718	29-1/4	743	28-1/2	724
036	28-1/4	718	37-1/4	946	36-1/2	927
041	32-1/4	819	33-1/4	845	32-1/2	826
042	32-1/4	819	33-1/4	845	32-1/2	826
047	32-1/4	819	33-1/4	845	32-1/2	826
048	28-1/4	718	43-1/4	1099	42-1/2	1080
059	32-1/4	819	43-1/4	1099	42-1/2	1080
060	32-1/4	819	43-1/4	1099	42-1/2	1080



Project Submittal

CX35-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CX35-18/24A-6F	14-1/2	368	16-1/2	419	13	330	13-3/8	340	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-18/24B-6F	17-1/2	445	16-1/2	419	16	406	16-3/8	416	7-1/4	185	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30/36C-6F	21	533	24-1/2	622	19-1/2	495	19-7/8	505	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36A-6F	14-1/2	368	24-1/2	622	13	330	13-3/8	340	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60
CX35-36B-6F	17-1/2	445	24-1/2	622	16	406	16-3/8	416	13-1/2	343	3-5/8	92	2-5/8	66	2-3/8	60

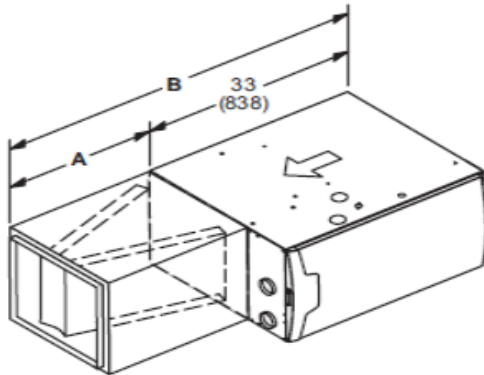
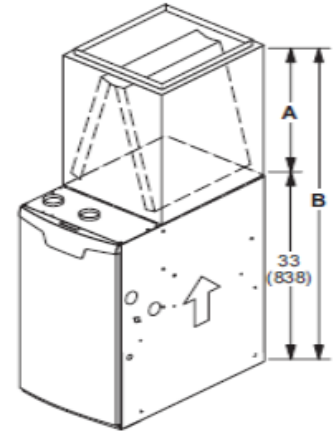


Project Submittal

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C								
C35/CX35-36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C								
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

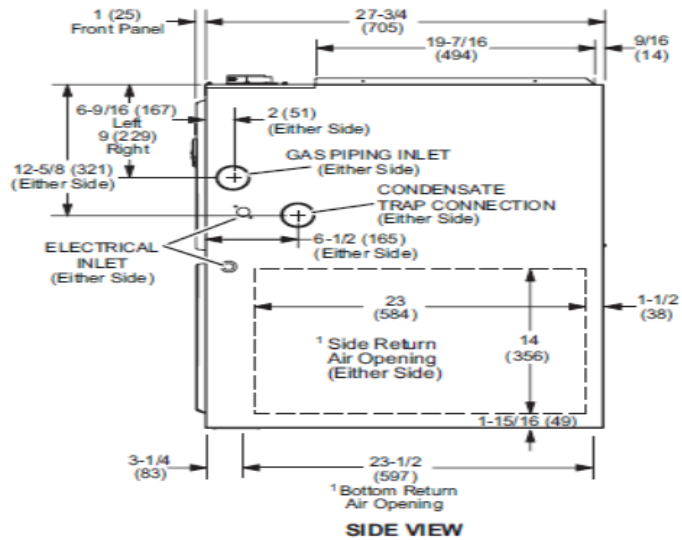
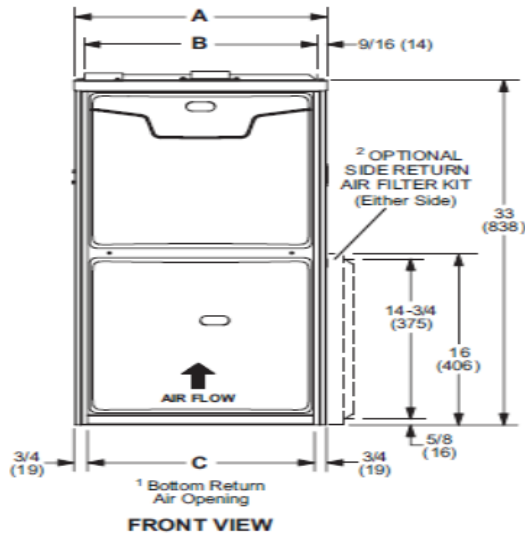
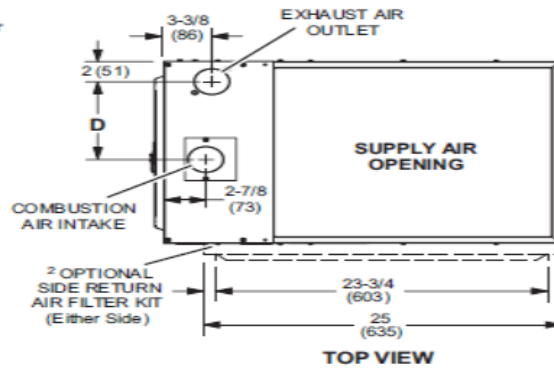
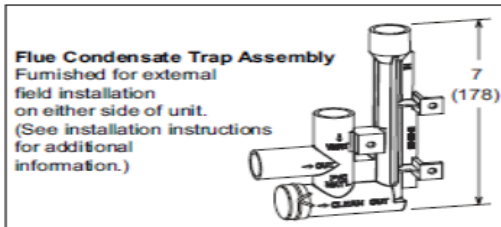
Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C	31-1/2	880	64-1/2	1638
CH35/CHX35-42B				
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				

DIMENSIONS - UNIT - UPFLOW POSITION

¹ NOTE - 60C and 60D size units that require air volumes over 1800 cfm must have one of the following:

1. Single side return air and Optional Return Air Base with transition that must accommodate required 20 x 25 x 1 inch (508 x 635 x 25 mm) air filter to maintain proper velocity.
 2. Bottom return air.
 3. Return air from both sides.
 4. Bottom and one side return air.
- See Blower Performance Tables for additional information.

² Optional Side Return Air Filter Kit is not for use with the Optional Return Air Base.



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36B ML196UH045XE36B ML196UH070XE36B ML196UH070XE48B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36C ML196UH090XE48C ML196UH090XE60C ML196UH110XE60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60D	24-1/2	622	23-3/8	594	23	584	11-1/8	283



Project Submittal

Tag: CU-22
Condenser: SSB048H4-460

Condenser			
Voltage	460 Volt 3 Phase V / 3Ph / 60Hz	Dimensions	35.00 in. x 30.50 in. x 39.00 in.
Tons	4.0	Total Weight	268 lb
MCA / MOCP	9.10 / 15.00 amp		
Condenser Oper Range-Nom Volt	+/- 10%		
Compressors		Refrigerant	
Cooling Stages	Two	Type	R-410A
Compressor Qty	1	Cond Suction Line	7/8
		Cond Liquid Line	3/8



Project Submittal

Tag: CU-22

Product Features

Cabinet

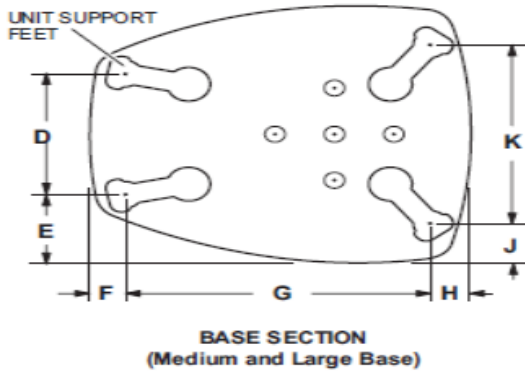
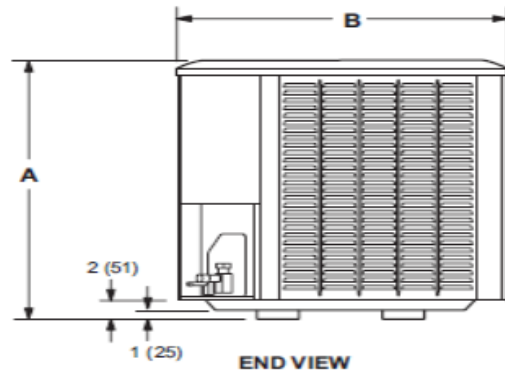
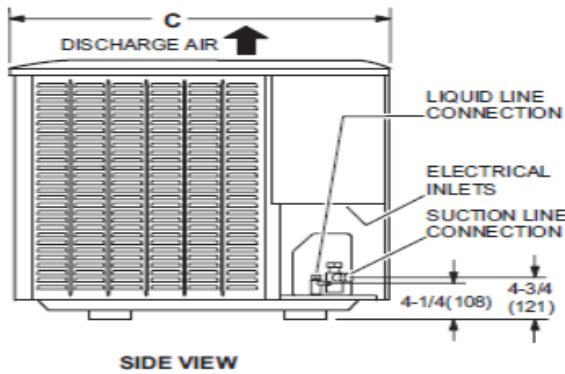
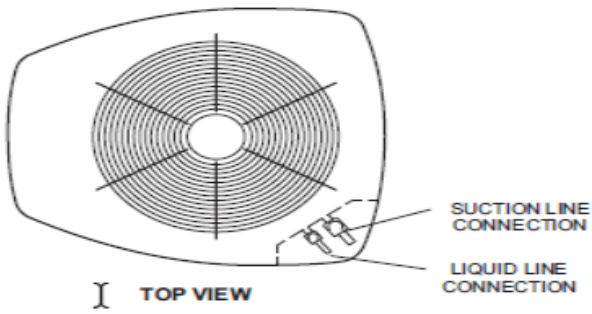
Heavy gauge galvanized steel cabinet
Copper Tube / Aluminum Fin Coils

Cooling System

Non Chlorine, Ozone Friendly Refrigerant, R410A
High Pressure Switch (Manual Reset)
Scroll Compressor
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch

Warranty

Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations



Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SSB036H4	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB048H4	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB080H4	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	28-7/8	683



Project Submittal

Tag: CU/F-12
Condenser: SSB048H4-460
Evaporator Coil: CX35-48C-F
Furnace: ML196UH090XE48C

UNIT OVERVIEW						AHRI Reference - 204472746		
Voltage	SEER EER	Tons	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460 Volt 3 Phase / 60Hz	15 11.7	4.0	45.9 / 33.8	43.5 / 31.4	1,301	0.5 / 0.6	80.0 / 67.0	54.4 / 54.4

COOLING							
Cooling Performance		Temperatures (DB/WB °F)					
Gross Cooling (Ttl/Sens)	45.9 / 33.8 MBH	Ambient	95.0				
Net Cooling (Ttl/Sens)	43.5 / 31.4 MBH	Entering	80.0 67.0				
Coil Moisture Removal	11.38 lb/hr	Total Leaving – (Coil)	54.4 54.4				
		Total Leaving – (Unit)	56.2 55.6				
ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	45.5 MBH	Cooling Stages	Two	Type	R-410A	Qty	2
		Compressor Qty	1	Cond Suction Line	7/8	Size	0.75 in.
				Cond Liquid Line	3/8	Pipe Thread	fpt
				Coil Suction Line	7/8		
				Coil Liquid Line	3/8		

HEATING					
Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	85.6 / MBH	Total Leaving	60.9	Thermal Efficiency	96.0%
Input (High/Low)	88.0 / MBH			Gas Line Size	0.5 in.
Gas Heat Rise	60.9 °F			Heat Exchange Type	Aluminum

VENTILATION							
Air Flow (cfm)		Supply Fan			Air Resistance (in.WC)		
Supply	1,301	Nominal Power	0.75hp		Total	0.64	
		Drive Type	ECM Multi Speed Constant Torque			Ext Supply	0.50
		Speed	Medium-Low			Wet Coil	0.14
		Orientation	Upflow/Horizontal				

ELECTRICAL			
Condenser		Furnace	
Voltage	460 Volt 3 Phase / 60Hz	Voltage	120V / 1Ph / 60Hz
MCA	9 amp	MCA	
MOCP	15 amp	MOCP	15 amp
Condenser Oper Range-Nom Volt	+/- 10%		
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA					
Condenser		Furnace		Evaporator Coil	
Dimensions	35.00 in. x 30.50 in. x 39.00 in.	Dimensions	28.75 in. x 21.00 in. x 33.00 in.	Dimensions	21.00 in. x 21.00 in. x 28.25 in.
Total Weight	268 lb	Total Weight	152 lb	Total Weight	60 lb



Project Submittal

Tag: CU/F-12

Field Installed Accessories

Catalog Number	Qty	Description
60L46	1	3" Concentric Vent Kit Field Installed

Product Features

Cabinet

Heavy gauge galvanized steel cabinet
Copper Tube / Aluminum Fin Coils
Heavy Gauge Cold Rolled Steel Cabinet

Cooling System

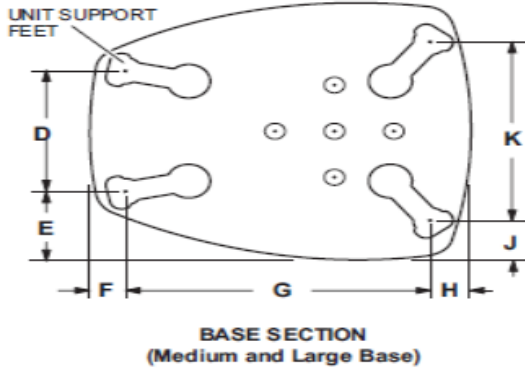
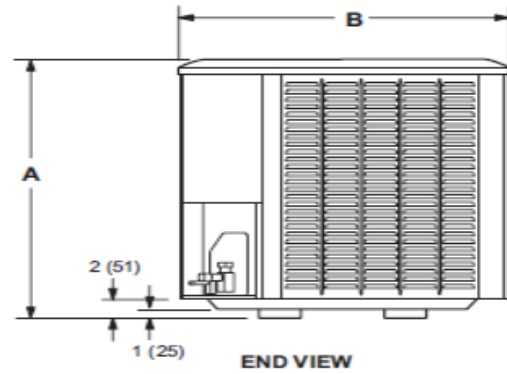
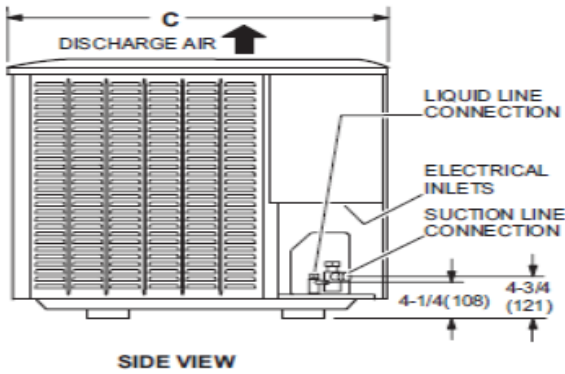
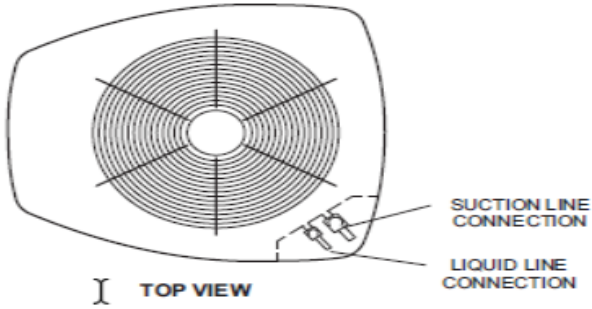
Non Chlorine, Ozone Friendly Refrigerant, R410A
High Pressure Switch (Manual Reset)
Scroll Compressor
Hi-Capacity Drier factory installed in liquid line
Low Pressure Switch
Twin Coils assembled in an "A" configuration
Check and Expansion Valve is factory installed

Heating System

Aluminized Steel Inshot Burners
Aluminized Steel Tubular Heat Exchanger
SureLight(R) Hot Surface Ignition
Furnace Limited Warranty 10 Years Comm

Warranty

Condenser See Limited Warranty Certificate included with unit for details
Condenser Limited compressor warranty of 5 years for Non-Residential Installations
Condenser Limited warranty on all covered components of 1 year in Non-Residential Installations
Coil See Limited Warranty Certificate included with unit for details
Coil Limited warranty on all other covered components of 1 year (Comm Use)
Furnace See Limited Warranty Certificate included with unit for details
Furnace Limited warranty on heat exchanger of 20 years
Furnace Limited warranty on all other covered components of 1 year (Comm Use)
Furnace Limited warranty on Surelight ignition control system of 1 Year (Comm Use)



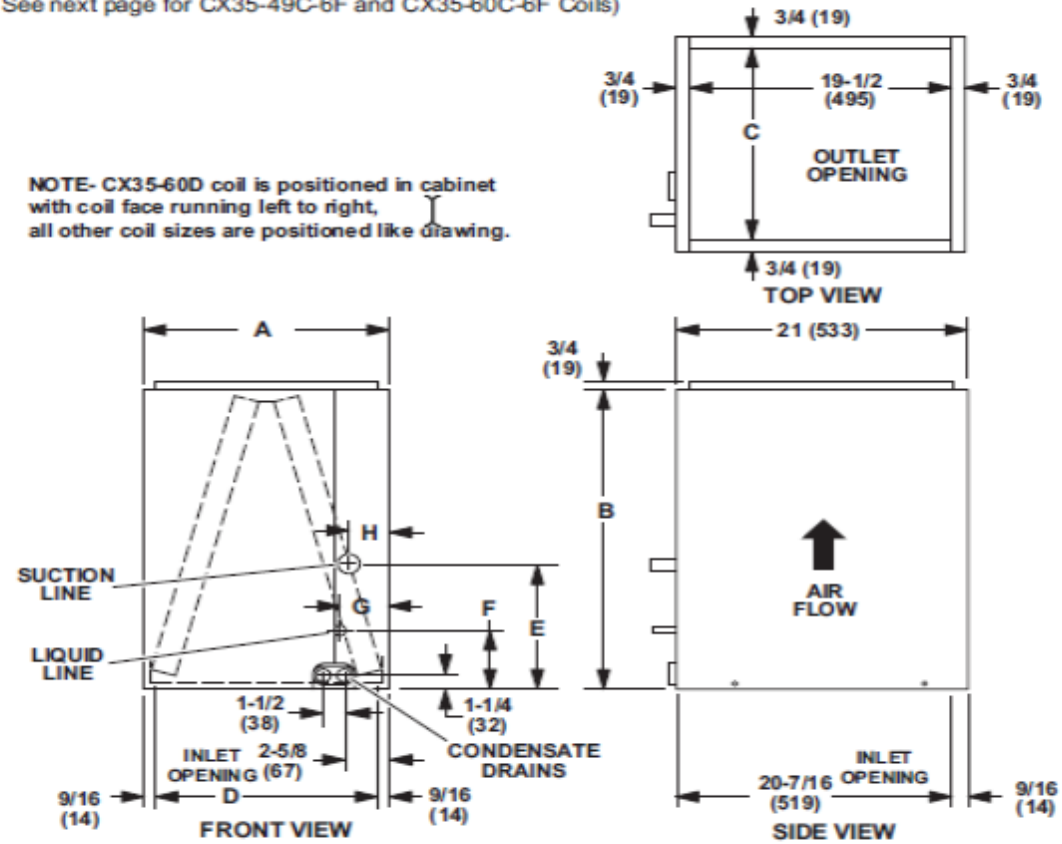
Model No.	A		B		C		D		E		F		G		H		J		K	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SSB036H4	31	787	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB048H4	39	991	30-1/2	775	35	889	13-7/8	352	7-3/4	197	3-1/4	83	27-1/8	689	3-5/8	92	4-1/2	114	20-5/8	524
SSB060H4	45	1143	35-1/2	902	39-1/2	1003	16-7/8	429	8-3/4	222	3-1/8	79	30-3/4	781	4-5/8	117	3-3/4	95	26-7/8	683



Project Submittal

CX35-24(A/B), -30(A/B), -48(B/C), -50/60C and -60D Coils
 (NOTE - See next page for CX35-49C-6F and CX35-60C-6F Coils)

NOTE- CX35-60D coil is positioned in cabinet with coil face running left to right, all other coil sizes are positioned like drawing.



Model Number	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
CX35-24A-6F	14-1/2	368	18-1/2	470	13	330	13-3/8	340	9-3/4	248	3-5/8	92	2-5/8	66	2-3/8	60
CX35-24B-6F	17-1/2	445	18-1/2	470	16	406	16-3/8	416	9-3/4	248	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30A-6F	14-1/2	368	22-1/2	572	13	330	13-3/8	340	11-1/2	292	3-5/8	92	2-5/8	66	2-3/8	60
CX35-30B-6F	17-1/2	445	22-1/2	572	16	406	16-3/8	416	11-1/2	292	3-5/8	92	2-5/8	66	2-3/8	60
CX35-48B-6F	17-1/2	445	27-1/2	699	16	406	16-3/8	416	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
CX35-48C-6F	21	533	27-1/2	699	19-1/2	495	19-7/8	505	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
CX35-50/60C-6F	21	533	27-1/2	699	19-1/2	495	19-7/8	505	12-1/2	318	3-5/8	92	2-5/8	66	2-3/8	60
CX35-60D-6F	24-1/2	622	29-1/2	749	23	584	23-3/8	594	10	254	3-5/8	92	2-5/8	66	2-3/8	60

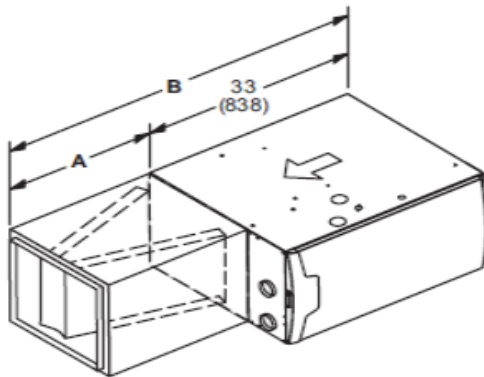
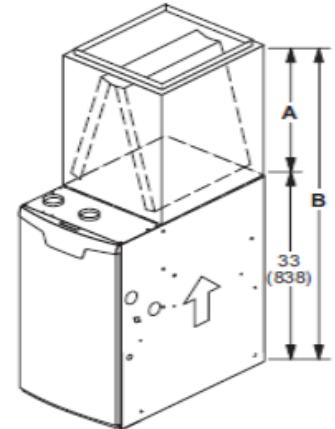


Project Submittal

DIMENSIONS - FURNACE/COIL COMBINED DIMENSIONS

UPFLOW POSITION

Model Number	C35/CX35 Cased				C35 Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
C35/CX35-18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
C35/CX35-24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
C35/CX35-30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
C35/CX35-30/36B	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
C35/CX35-30/36C	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
C35/CX35-48B	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
C35/CX35-48C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
C35/CX35-49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
C35/CX35-50/60C	27-1/2	699	60-1/2	1537	30-5/8	778	63-5/8	1616
C35/CX35-60C	29-1/2	749	62-1/2	1588	28	711	61	1549
C35/CX35-60D	29-1/2	749	62-1/2	1588	28	711	61	1549



HORIZONTAL POSITION

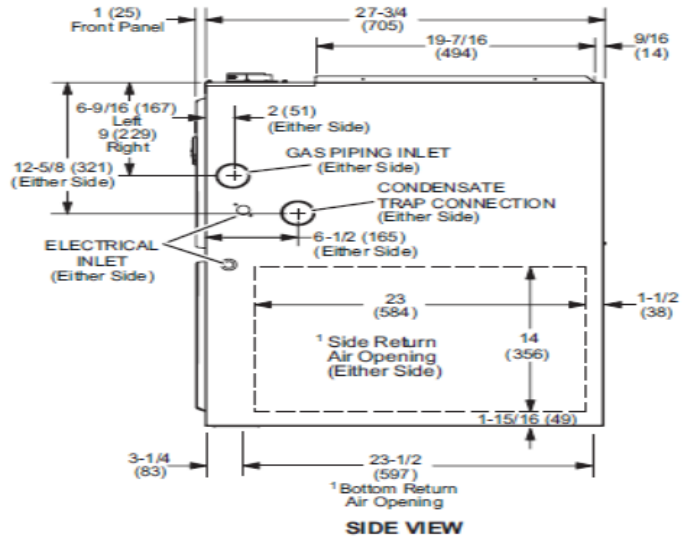
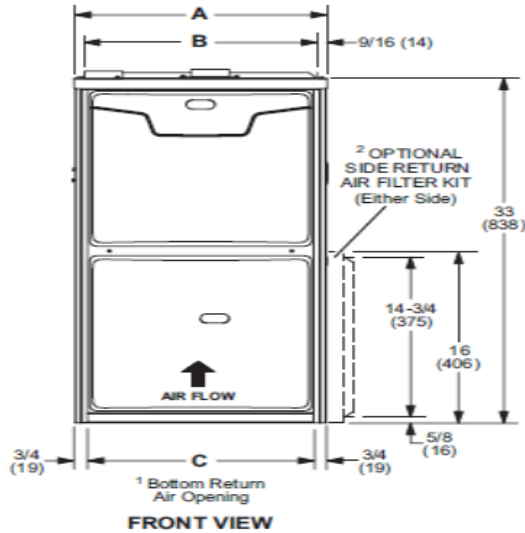
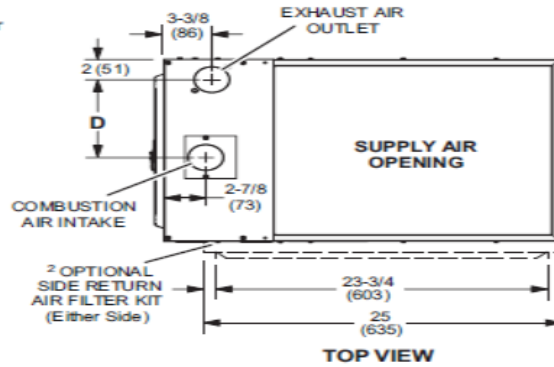
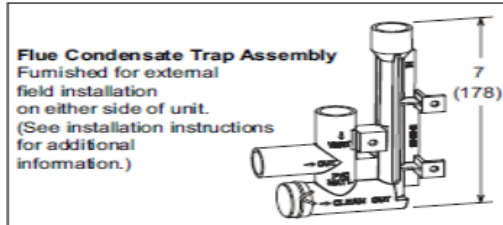
Model Number	CH35/CHX35			
	A		B	
	in.	mm	in.	mm
CH35/CHX35-24B	26-1/2	673	59-1/2	1511
CH35/CHX35-30B				
CH35/CHX35-36B				
CH35/CHX35-36C				
CH35/CHX35-42C				
CH35/CHX35-48C	31-1/2	880	64-1/2	1638
CH35/CHX35-42B				
CH35/CHX35-48B				
CH35/CHX35-51C				
CH35/CHX35-60D				

DIMENSIONS - UNIT - UPFLOW POSITION

¹ NOTE - 60C and 60D size units that require air volumes over 1800 cfm must have one of the following:

1. Single side return air and Optional Return Air Base with transition that must accommodate required 20 x 25 x 1 inch (508 x 635 x 25 mm) air filter to maintain proper velocity.
 2. Bottom return air.
 3. Return air from both sides.
 4. Bottom and one side return air.
- See Blower Performance Tables for additional information.

² Optional Side Return Air Filter Kit is not for use with the Optional Return Air Base.



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36B ML196UH045XE36B ML196UH070XE36B ML196UH070XE48B	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36C ML196UH090XE48C ML196UH090XE60C ML196UH110XE60C	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60D	24-1/2	622	23-3/8	594	23	584	11-1/8	283



Project Submittal

Tag: 5 Ton Xion
Model: KGB060S4B - KGB060S4B-G 5T CONF S=14.0

UNIT OVERVIEW

SEER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
14 11	13 / 20	64.0 / 47.4	61.6 / 45.0	2,000	0.50 / 0.68	80.0 / 67.0	57.1 / 56.4

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	64.0 / 47.4 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	61.6 / 45.0 MBH	Entering	80.0
Coil Moisture Removal	15.68 lb/hr	Total Leaving – (Coil)	57.1
System Moisture Removal	15.68 lb/hr	Total Leaving – (Unit)	58.3
			56.8

ARI Performance	Compressors	Refrigerant	Condensate Drain
ARI Cooling 60.9 / 58.5 MBH	Cooling Stages 1	Type R-410A	Qty 1
ARI Power 5,000 W	Compressor Qty 1	Charge 4 LBS. 11 OZ.	Size 1 in.
	Compressor RLA 7.8 amp		Pipe Thread npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	87.0 / 66.0 MBH	Total Leaving	39.8	Heat Stages	2
Input (High/Low)	108.0 / 81.0 MBH			Thermal Efficiency NOX	81.0%
Gas Heat Rise	39.8 °F			Gas Line Size	0.5 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)	Supply Fan	Air Resistance (in.WC)
Supply 2,000	Nominal Power 1.00 hp	Total 0.68
	Required Power 0.75 hp	Ext Supply 0.50
	Drive Type CAV Belt Drive	
	RPM Range 833 - 1,250 rpm	
	Required RPM 1,088 rpm	

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.09		0.04	0.05				

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	7.8 amp
MCA	13 amp	Cooling FLA Total	10.0 amp
MOCP	20 amp	Condenser FLA	0.1 amp
Condenser Power	375 W	Supply Fan FLA	2.1 amp
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA

Cabinet	83.25 in. x 47.00 in. x 43.38 in.	Total Weight	774 lb
Downflow Supply	18.0 in. x 20.0 in.	Base Unit Net Weight	604 lb
Downflow Return	11.0 in. x 29.0 in.	OAS/Econ Weight	131 lb
Filters	(4) 20.0 in. x 20.0 in. x 2.0 in.	Gas Heat Weight	8 lb
Sound Rating	83 dBA	Coil Hail Guard Weight	31 lb



Project Submittal

Tag: 5 Ton Xion

Factory Installed Options

- Standard Cap, Std Packaging
- Unit Orientation Downflow
- Supply Fan: CAV Belt Drive
- 440V/460V/480V 3Phase
- Supply Motor - 1.0 Hp Std Eff
- Supply Drive Kit 3 (833-1250 RPM)
- 108K S.S. (Dual Stage)
- Low Nox Factory Installed
- Hinged Access Doors Factory Installed
- Environ Evaporator and Condenser Coil System Factory Installed
- 2" MERV4 - Std. Filter Factory Installed

Field Installed Accessories

Catalog Number	Qty	Description
23T20	2	Standard Economizer Field Installed
21Z09	2	Single Enthalpy Control Field Installed
13T03	2	Combination Coil/Hail Guards Field Installed
74W42	2	Drain Pan Overflow Switch Field Installed

Product Features

Cabinet

- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Removable, Reversible Drain Pan
- Isolated Compressor Compartment

Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 30°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

- Fan and Limit Controls
- Overload Protection

Compliance

- Components are Bonded for Grounding
- Factory Test Operated

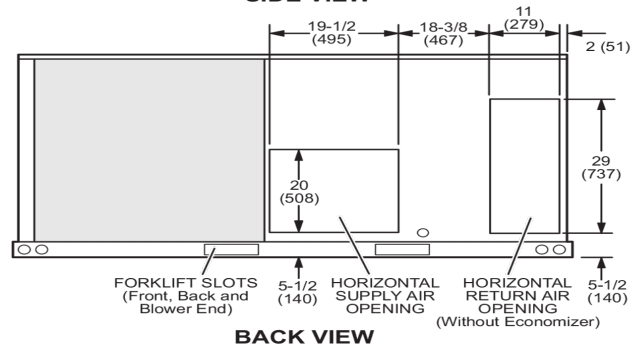
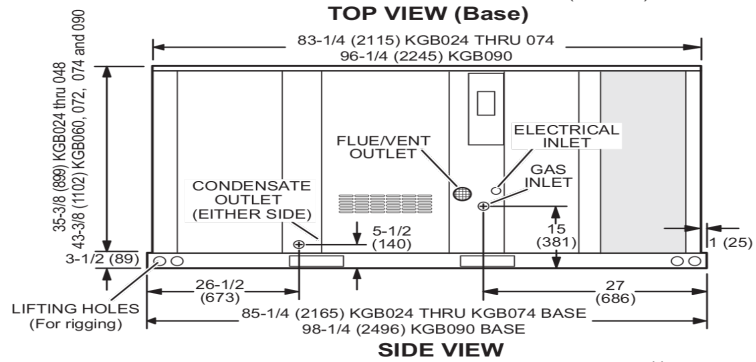
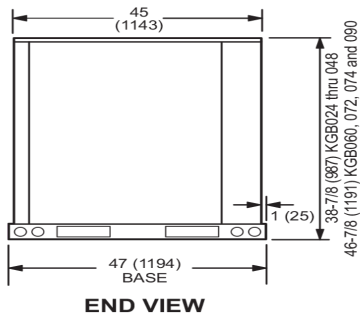
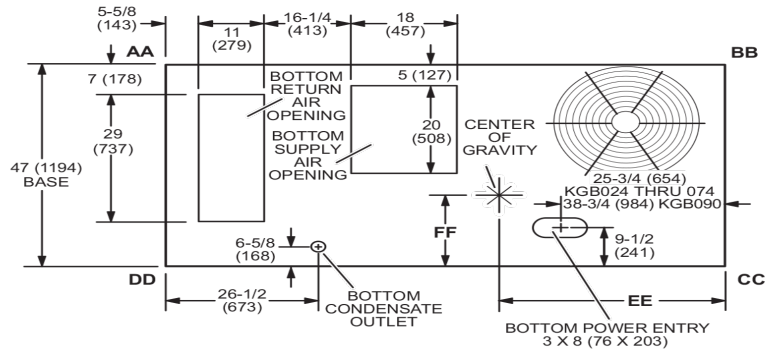
Warranty

- Limited warranty on stainless steel heat exchanger of 15 years
- Limited warranty on compressor of 5 years
- Limited warranty on Environ Coil System of 3 years
- Limited warranty on all other components of 1 year
- See Limited Warranty Certificate included with unit for details

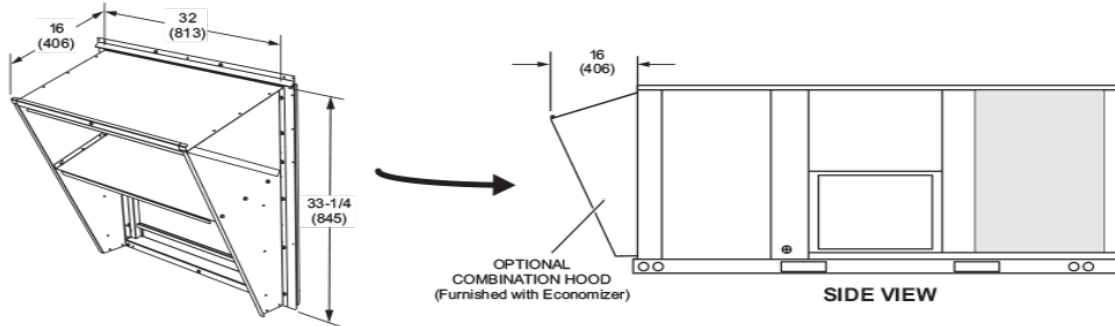


Project Submittal

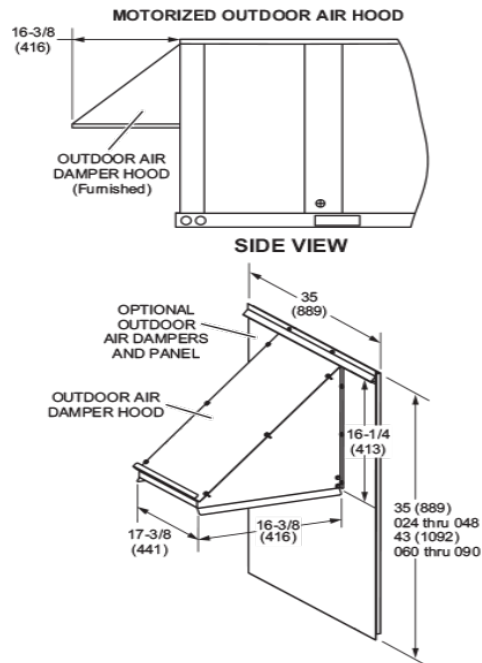
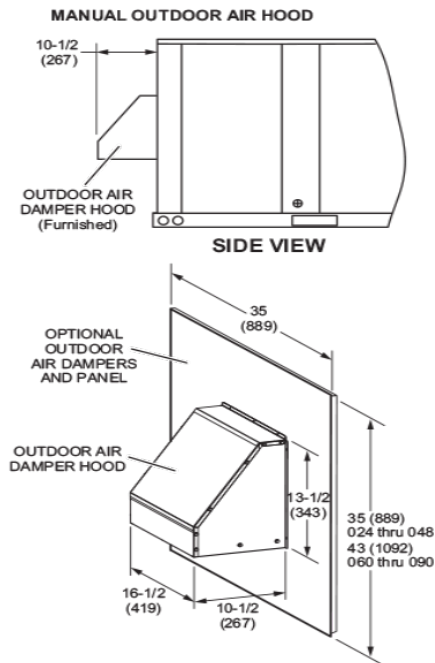
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
130	162	147	167	198	226	175	257	40.00	44.00	20.00	20.00



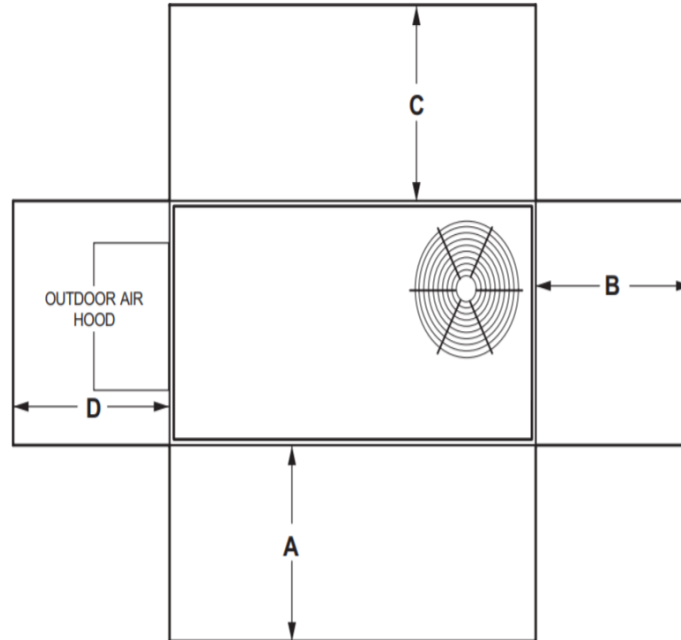
COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Furnished With Economizer for Downflow Applications)



OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)



UNIT CLEARANCES



¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	48	1219	36	914	36	914	36	914	Unobstructed
Clearance to Combustibles	36	914	1	25	1	25	1	25	
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ **Service Clearance** - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.



Project Submittal

Tag: 7.5 Ton Xion
Model: KGC092S4M - KGC092S4M-G 7.5T CONF E=11.0

UNIT OVERVIEW

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	14.6 11	20 / 25	95.1 / 68.5	92.0 / 65.4	3,000	0.50 / 0.86	80.0 / 67.0	57.9 / 56.5

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	95.1 / 68.5 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	92.0 / 65.4 MBH	Entering	80.0
Coil Moisture Removal	25.10 lb/hr	Total Leaving – (Coil)	57.9
System Moisture Removal	25.10 lb/hr	Total Leaving – (Unit)	58.9
			56.8

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	87.8 / 86.0 MBH	Cooling Stages	3	Type	R-410A	Qty	2
ARI Power	7,800 W	Compressor Qty	2	Charge	9 LBS. 1 OZ.	Size	1 in.
		Compressor RLA	12.1 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	144.0 / 93.6 MBH	Total Leaving	44.4	Heat Stages	2
Input (High/Low)	180.0 / 117.0 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	44.4 °F			Gas Line Size	0.75 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	3,000	Nominal Power	2.00 hp	Total	0.86
		Required Power	0.96 hp	Ext Supply	0.50
		Drive Type	MSAV Belt Drive		
		RPM Range	590 - 890 rpm		
		Required RPM	779 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.11		0.12	0.13				

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	12.1 amp
MCA	20 amp	Cooling FLA Total	18.1 amp
MOCP	25 amp	Condenser FLA	2.6 amp
Condenser Power	740 W	Supply Fan FLA	3.4 amp
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA

Cabinet	101.25 in. x 60.12 in. x 46.88 in.	Total Weight	1,065 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	918 lb
Downflow Return	24.0 in. x 27.0 in.	OAS/Econ Weight	83 lb
Filters	(4) 20.0 in. x 25.0 in. x 2.0 in.	Gas Heat Weight	9 lb
Sound Rating	88 dBA	Coil Hail Guard Weight	55 lb



Project Submittal

Tag: 7.5 Ton Xion

Factory Installed Options

- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 440V/460V/480V 3Phase
- 175 Amp Terminal Block Factory Installed
- Supply Motor - 2.0 Hp Std- w/ MSAV
- Supply Drive Kit 1 (590-890 RPM)
- 180K S.S. (Dual Stage)
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV4 - Std. Filter Factory Installed
- Phase Monitor Factory Installed (Standard)

Field Installed Accessories

Catalog Number	Qty	Description
13U45	3	Standard Economizer Field Installed
21Z09	3	Single Enthalpy Control Field Installed

Product Features

Cabinet

- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Isolated Compressor Compartment

Cooling System

- Scroll Compressor
- High Capacity Driers
- Crankcase Heater
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve
- System can operate from 45°F to 125°F without any additional controls

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

Control System

- Fan and Limit Controls
- Overload Protection

Compliance

- Components are Bonded for Grounding
- Factory Test Operated
- All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
- All models meet DOE 2018 and 2023 energy efficiency standards
- Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow
- ISO 9001 Registered Manufacturing Quality System

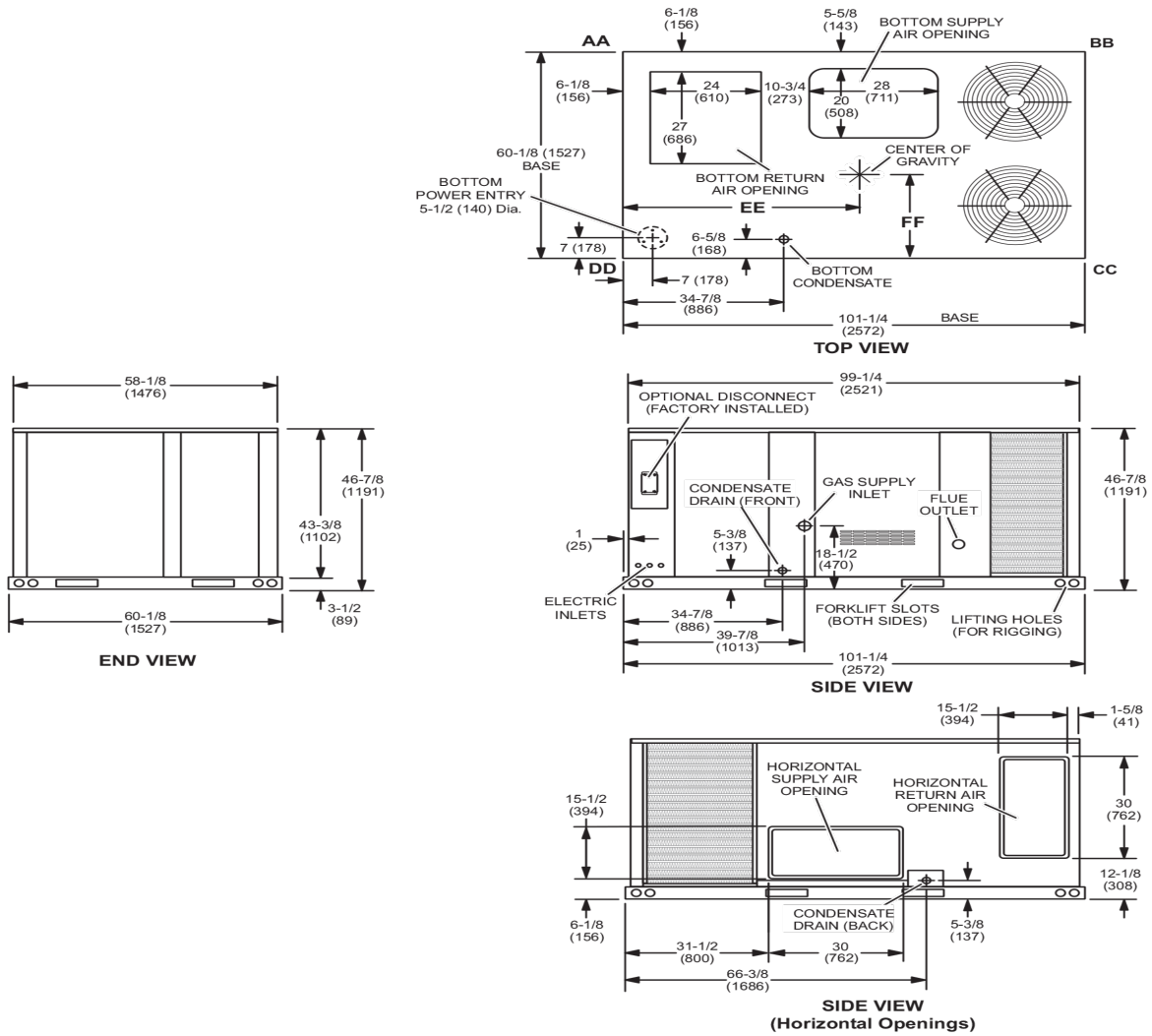
Warranty

- Limited warranty on stainless steel heat exchanger of 15 years
- Limited warranty on compressor of 5 years
- Limited warranty on Environ Coil System of 3 years
- Limited warranty on all other components of 1 year
- See Limited Warranty Certificate included with unit for details

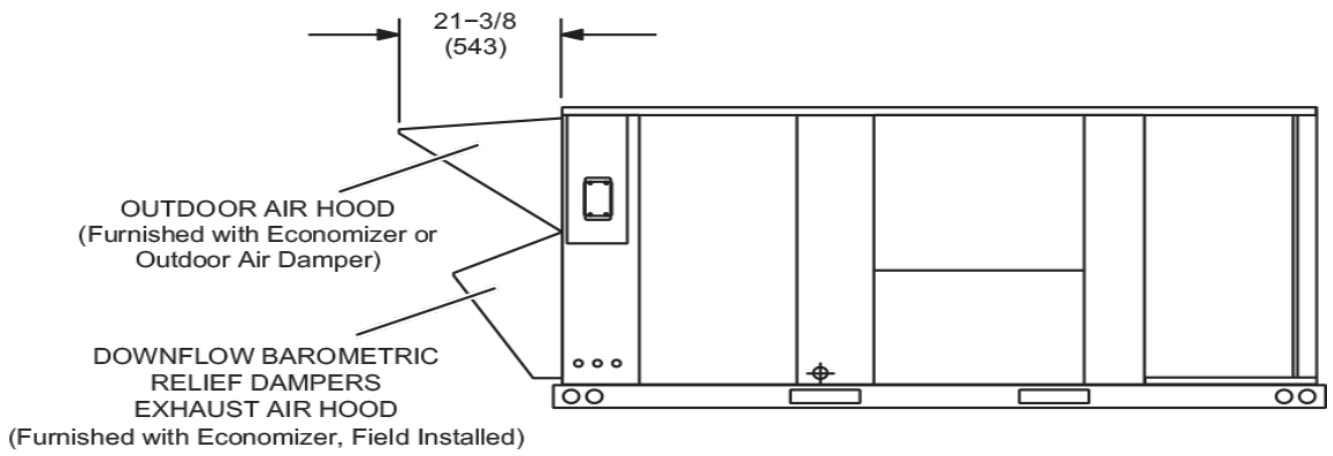


Project Submittal

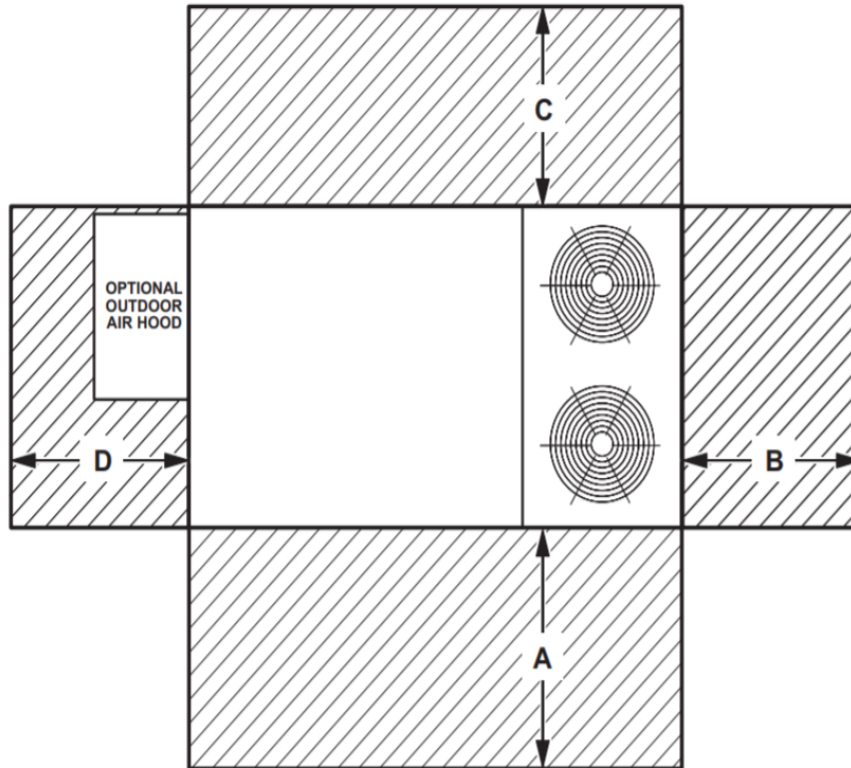
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
236	325	201	264	218	278	264	353	44.50	43.50	24.50	25.50



OUTDOOR AIR HOOD DETAIL



UNIT CLEARANCES



¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	60	1524	36	914	36	914	60	1524	Unobstructed
Clearance to Combustibles	36	914	1	25	1	25	1	25	
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required for clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.