Project Submittal

Project Name:

Project Number:
Project Altitude:
Project Location:

Customer:

Date:
Quote:

Roof Top Units: 0
Split Systems: 11

Table of Contents

Tag	Qty	Model	Description
1 Ton	7	27K85	MWHD012S6S SZ HP 12K 208/230V
	7	27K92	MWHD012S6 SZ IDU Wall 12K 208/230V
1.5 Ton	2	27K86	MWHD018S6S SZ HP 18K 208/230V
	2	27K93	MWHD018S6 SZ IDU Wall 18K 208/230V
2.5 Ton Split System	2	25C67	ML13KC1-030 Condenser/2.5 Ton/230
	2	25U77	CK40CT-30/36B COIL 2.5-3.0T R454B
	2	ML196UH070XE36BK	ML196UH070XE36BK UH 70KBTU NOX 3T
Miscellaneous Items			

Revit® Building Information Modeling (BIM) - Click here

AutoCAD® Templates - Click here

Field Installed Accessories

Catalog Number	Qty	Description
29F41	7	Duct-Strip 5 Mini-Split Cable, 250 Pull
Y8171	7	L1 1/4 X 3/8 X 1/2 X 25 DL W/NUT EZ-PULL
Y3400	7	DI 230-B2LType 2 Wall Brackets Lg

SUBMITTAL DATA – **WALL MOUNTED**
MWHD012S6S-1P – MWHD012S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

Job: **Engineer:**

Location: **Architect:**

Schedule No.: **Date:**

System Designation: **For:** ☐ Reference ☐ Approval ☐ Review ☐ Construction

FEATURES

- The indoor unit shall feature WindFree™* mode. When activated in cooling mode the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants.
- The system shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- Outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.

Construction

- Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket
- The indoor unit shall have easy access to wire, pipe, and drain connections via the access panel on the bottom of the unit for simple installation and service
- The outdoor unit shall be galvanized steel with a baked-on powder coated finish for durability

Heat Exchanger

- The heat exchangers shall be mechanically bonded fin to copper tube

Refrigerant System

- The system shall utilize low-GWP R-32 refrigerant
- The compressor shall be hermetically sealed, inverter controlled, BLDC Rotary
- Refrigerant flow shall be controlled by an electronic expansion valve at the outdoor unit

Indoor Fan

- The indoor fan shall be a single cross-flow type
- Three fan speed settings and auto setting
- Automatic (motorized) vertical swing (up/down) and horizontal swing (left/right) louvers

Controls

- The indoor unit shall ship with a rechargeable, solar-cell wireless controller and holder. The wireless controller battery shall be charged with a USB C cable or the integral solar panel.
- The included wireless controller shall have a pixel display that is visible in low light conditions.
- Dual set temperature support when connected to supported wired controllers.
- The indoor unit shall include an integral humidity sensor for improved humidity control functions.
- The indoor unit shall have a simple connection for condensate overflow detection devices or any normally closed contact for simple unit shutdown.
- Samsung central control compatible (accessory required)
- Interconnect control wire between the outdoor and indoor unit shall be 16AWG X 2

External Heat Control

- External heat control functionality allows for configuration of fan operation during auxiliary heat operation, defrost, and emergency heat (VSTAT10P-1 accessory required).
- External heat control configuration settings includes outside ambient external heat lockout, outside ambient compressor lockout, and time delay options (VSTAT10P-1 accessory required).
- Emergency heat functionality allows the system to continue controlling the exter-nal heat source even when system errors prevent the heat pump from operating (VSTAT10P-1 accessory required).

Convenience

- 7-segment digital display on the front of the unit to display temperature and unit status
- Washable main filter as standard accessible from the top of the unit
- System energy consumption can be viewed using the Samsung SmartThings mobile app or on the indoor unit display using the included wireless controller (conditions apply).
- AI (artificial intelligence) Auto Mode technology monitors factors such as indoor temperature, outdoor temperature, set temperature, and operating time to learn the patterns within your home to automatically adjust system operation to maximize occupant comfort and efficiency (Wi-Fi connection required).
- AI Energy mode technology enhances energy saving operation using advanced compressor control techniques
- Eco Mode to reduce energy consumption during low demand operation
- Smart install mode - Startup system diagnostics operation to ensure system readiness during initial operation
- Auto restart after power loss
- Other Features and functions: Auto changeover, Auto Clean Function, Freeze Wash Function, MAX mode to quickly reach set temperature, Good'sleep mode, Quiet mode, Dry mode, Simple ON/OFF time function (activated with wireless controller), Filter cleaning reminder

Outdoor Unit: MWHD012S6S-1P

Indoor Unit: MWHD012S6-1P

PRODUCT WARRANTY

Compressor – Seven year warranty

All other covered components - Five year warranty

ACCESSORIES

VSTAT02P-1 Touch Screen Wired Controller*	37P79
VSTAT04P-1 Programmable Wired Controller*	37Y74
VSTAT09P-1 24V Thermostat Adapter	37Y96
VSTAT06P-1 Wall Mnt Mini-Splt Wired Cntrlr Sub PCB	37Y83
VCTRL06P-1 Interface Module Comm Adaptor ERV Kits	37Y82
VCTRL11P-1 External Room Temp. Sensor	37Y77
VSTAT10P-1 External Contact Control	37Y69

*VSTAT06P-1 (37Y83) is REQUIRED with the selection of this accessory

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SUBMITTAL DATA – **WALL MOUNTED**
MWHD012S6S-1P – MWHD012S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

SPECIFICATIONS

Performance	Nominal Capacity	Cooling / Heating (Btu/h)	12,000 / 12,000
	Capacity Range	Cooling (Btu/h)	3,000 - 15,500
		Heating (Btu/h)	2,200 - 23,000
	AHRI 210-240 2023	SEER2	24.00
		EER2	13.25
		HSPF2 (region IV)	9.00
		5°F COP	1.76
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Operating Current (min. / standard / max.)	Cooling (A)	1.1 / 4.8 / 6.2
		Heating (A)	1 / 4.6 / 10
	Max. Breaker	Amps	20.0
	Min. Circuit Ampacity	Amps	12.0
Dimensions	W X H X D (in.)	Indoor Unit	32 5/16 X 11 3/4 X 8 7/16
		Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
	Weight (lbs.)	Indoor Unit	20.30
		Outdoor Unit	69.20
Sound Pressure Level	Indoor Unit dB(A)	Silent / High	22 / 39
	Outdoor Unit dB(A)	Cooling (high)	46
Operating Temperatures	Outdoor	Cooling	14 - 115°F (-10 - 46°C)
		Heating	-5 - 75°F (-20.6 - 24°C)
	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side (In.)	1/4
		Low side (In.)	3/8
	Maximum (ft.)		66
	Maximum Vertical Separation (ft.)		49
	Condensate Connection		11/16” OD
Refrigerant	Type		R-32
	A2L Leak Detection		Not Included
	Factory Charge	oz.	34.0
	Charged for		24.6 ft.
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	9.2
Evaporator Fan	Type		BLDC motor with cross-flow fan
	FLA	Amps	0.12
	Output	Watts	27.0
Airflow	Air Volume (L/M/H/Turbo)	Cooling (CFM)	297 / 328 / 364 / 378
		Heating (CFM)	328 / 364 / 396 / 413
Condenser Fan	Type		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.42 / 40 / 1,589

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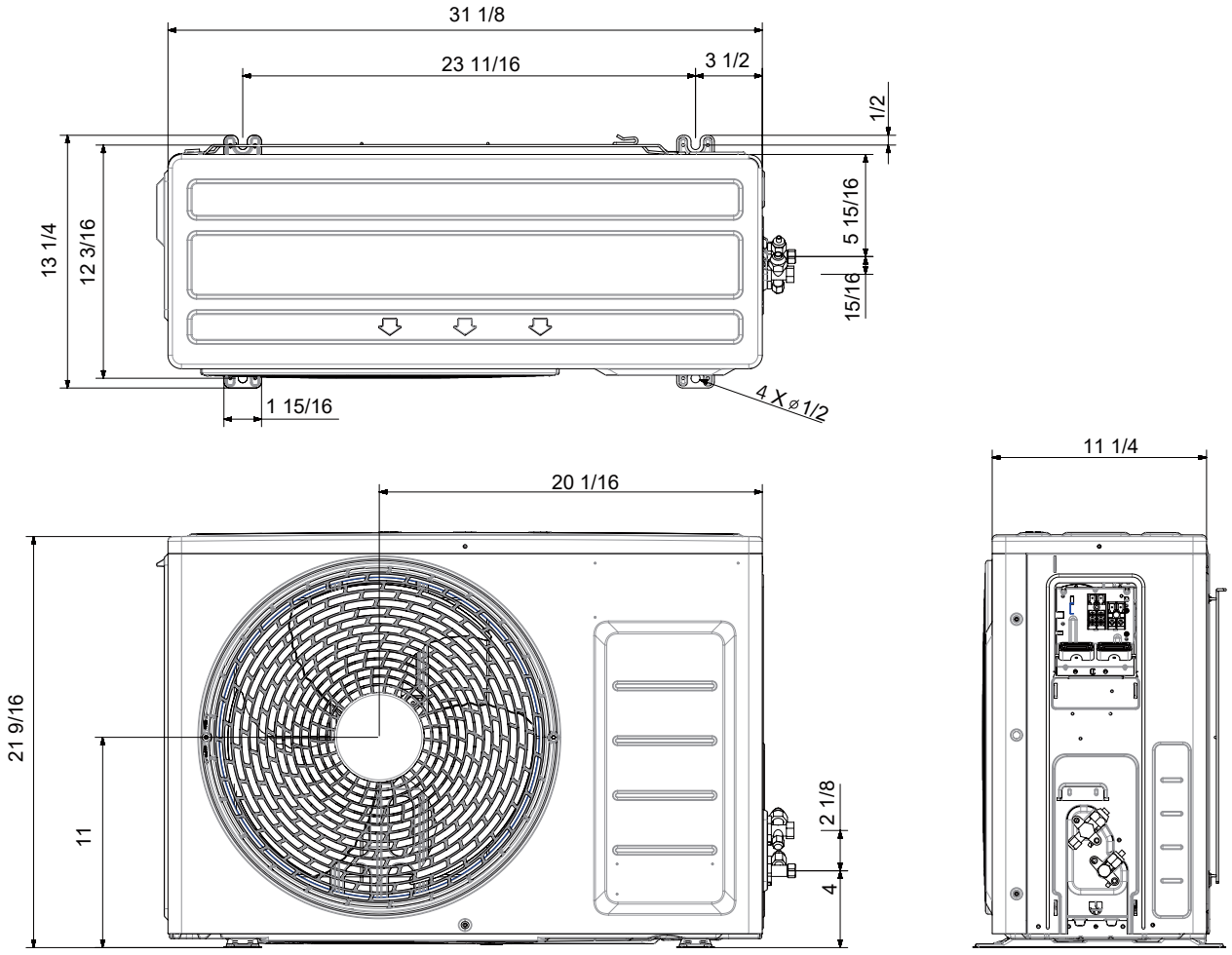
SUBMITTAL DATA – **WALL MOUNTED**

MWHD012S6S-1P – MWHD012S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

OUTDOOR DIMENSIONS IN.



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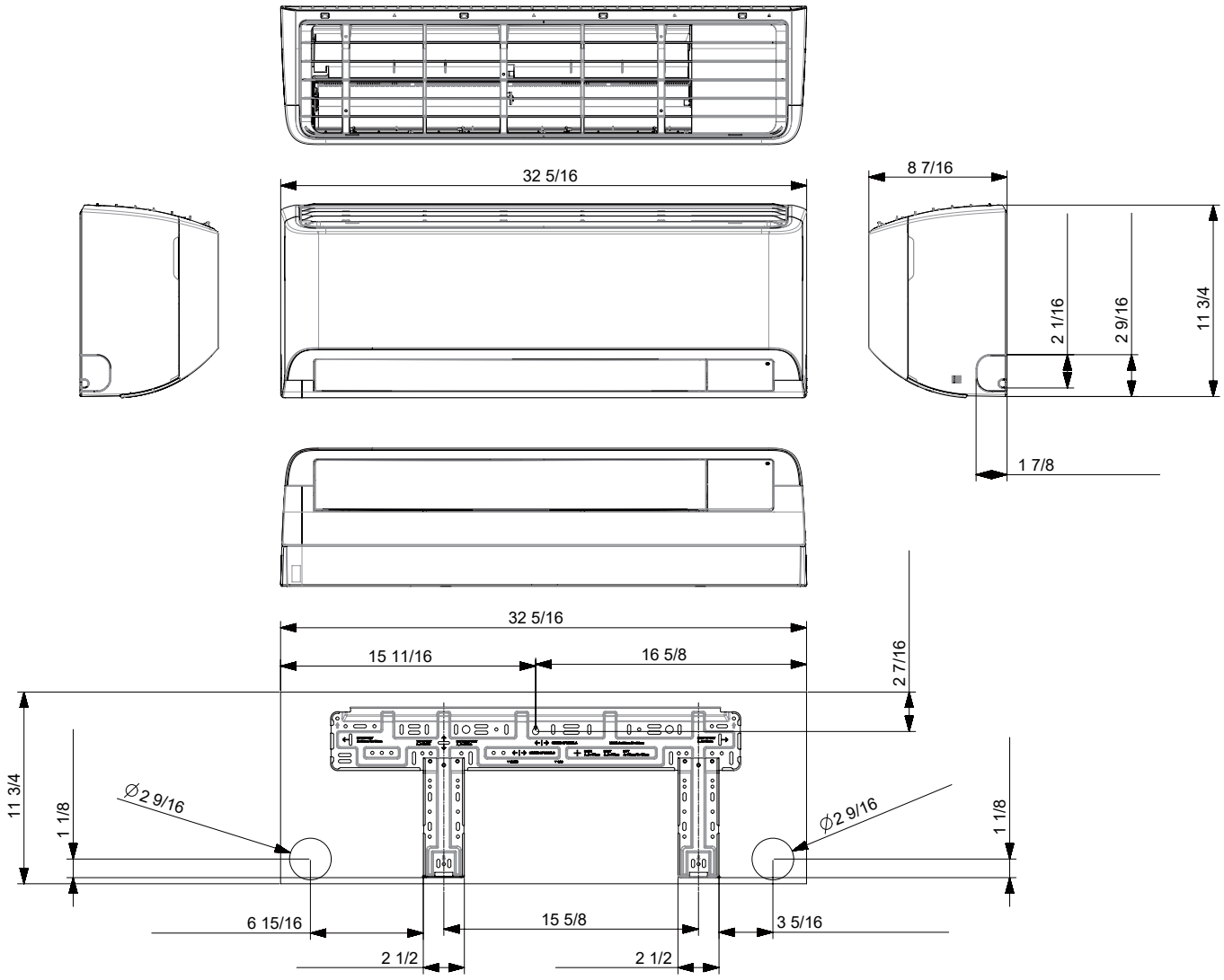
MWHD012S6S-1P – MWHD012S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

INDOOR DIMENSIONS IN.



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Field Installed Accessories

Catalog Number	Qty	Description
Y3400	2	DI 230-B2LType 2 Wall Brackets Lg
Y8174	2	L1 1/4 X 1/2 X 1/2 X 50 DL W/NUT EZ-PULL

SUBMITTAL DATA – **WALL MOUNTED**
MWHD018S6S-1P – MWHD018S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

Job: **Engineer:**

Location: **Architect:**

Schedule No.: **Date:**

System Designation: **For:** ☐ Reference ☐ Approval ☐ Review ☐ Construction

FEATURES

- The indoor unit shall feature WindFree™* mode. When activated in cooling mode the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants.
- The system shall have a built-in Wi-Fi adapter as standard to allow control and monitoring using the Samsung SmartThings app.
- Outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.

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- The system shall utilize low-GWP R-32 refrigerant
- The compressor shall be hermetically sealed, inverter controlled, BLDC Rotary
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- The indoor fan shall be a single cross-flow type
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- AI Energy mode technology enhances energy saving operation using advanced compressor control techniques
- Eco Mode to reduce energy consumption during low demand operation
- Smart install mode - Startup system diagnostics operation to ensure system readiness during initial operation
- Auto restart after power loss
- Other Features and functions: Auto changeover, Auto Clean Function, Freeze Wash Function, MAX mode to quickly reach set temperature, Good'sleep mode, Quiet mode, Dry mode, Simple ON/OFF time function (activated with wireless controller), Filter cleaning reminder

Outdoor Unit: MWHD018S6S-1P

Indoor Unit: MWHD018S6-1P

PRODUCT WARRANTY

Compressor – Seven year warranty

All other covered components - Five year warranty

ACCESSORIES

VSTAT02P-1 Touch Screen Wired Controller*	37P79
VSTAT04P-1 Programmable Wired Controller*	37Y74
VSTAT09P-1 24V Thermostat Adapter	37Y96
VSTAT06P-1 Wall Mnt Mini-Splt Wired Cntrlr Sub PCB	37Y83
VCTRL06P-1 Interface Module Comm Adaptor ERV Kits	37Y82
VCTRL11P-1 External Room Temp. Sensor	37Y77
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*VSTAT06P-1 (37Y83) is REQUIRED with the selection of this accessory

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SUBMITTAL DATA – **WALL MOUNTED**

MWHD018S6S-1P – MWHD018S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

SPECIFICATIONS

Performance	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 21,000
	Capacity Range	Cooling (Btu/h)	4,500 - 22,000
		Heating (Btu/h)	4,000 - 27,500
	AHRI 210-240 2023	SEER2	21.50
		EER2	12.85
		HSPF2 (region IV)	9.00
		5°F COP	2.09
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		187 - 253
	Operating Current (min. / standard / max.)	Cooling (A)	1.7 / 6.2 / 8.6
		Heating (A)	1.6 / 8 / 10.1
	Max. Breaker	Amps	25.0
	Min. Circuit Ampacity	Amps	16.0
Dimensions	W X H X D (in.)	Indoor Unit	41 9/16 X 11 3/4 X 8 7/16
		Outdoor Unit	34 5/8 X 31 7/16 X 12 3/16
	Weight (lbs.)	Indoor Unit	25.40
		Outdoor Unit	108.00
Sound Pressure Level	Indoor Unit dB(A)	Silent / High	27 / 41
	Outdoor Unit dB(A)	Cooling (high)	51
Operating Temperatures	Outdoor	Cooling	14 - 115°F (-10 - 46°C)
		Heating	-5 - 75°F (-20.6 - 24°C)
	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 86°F (30°C)
Pipe Connections	Indoor & Outdoor	High side (In.)	1/4
		Low side (In.)	1/2
	Maximum (ft.)		98
	Maximum Vertical Separation (ft.)		66
	Condensate Connection		11/16" OD
Refrigerant	Type		R-32
	A2L Leak Detection		Not Included
	Factory Charge	oz.	52.9
	Charged for		24.6 ft.
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	15.2
Evaporator Fan	Type		BLDC motor with cross-flow fan
	FLA	Amps	0.12
	Output	Watts	27.0
Airflow	Air Volume (L/M/H/Turbo)	Cooling (CFM)	445 / 494 / 540 / 586
		Heating (CFM)	445 / 494 / 540 / 586
Condenser Fan	Type		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		1.25 / 125 / 2,013

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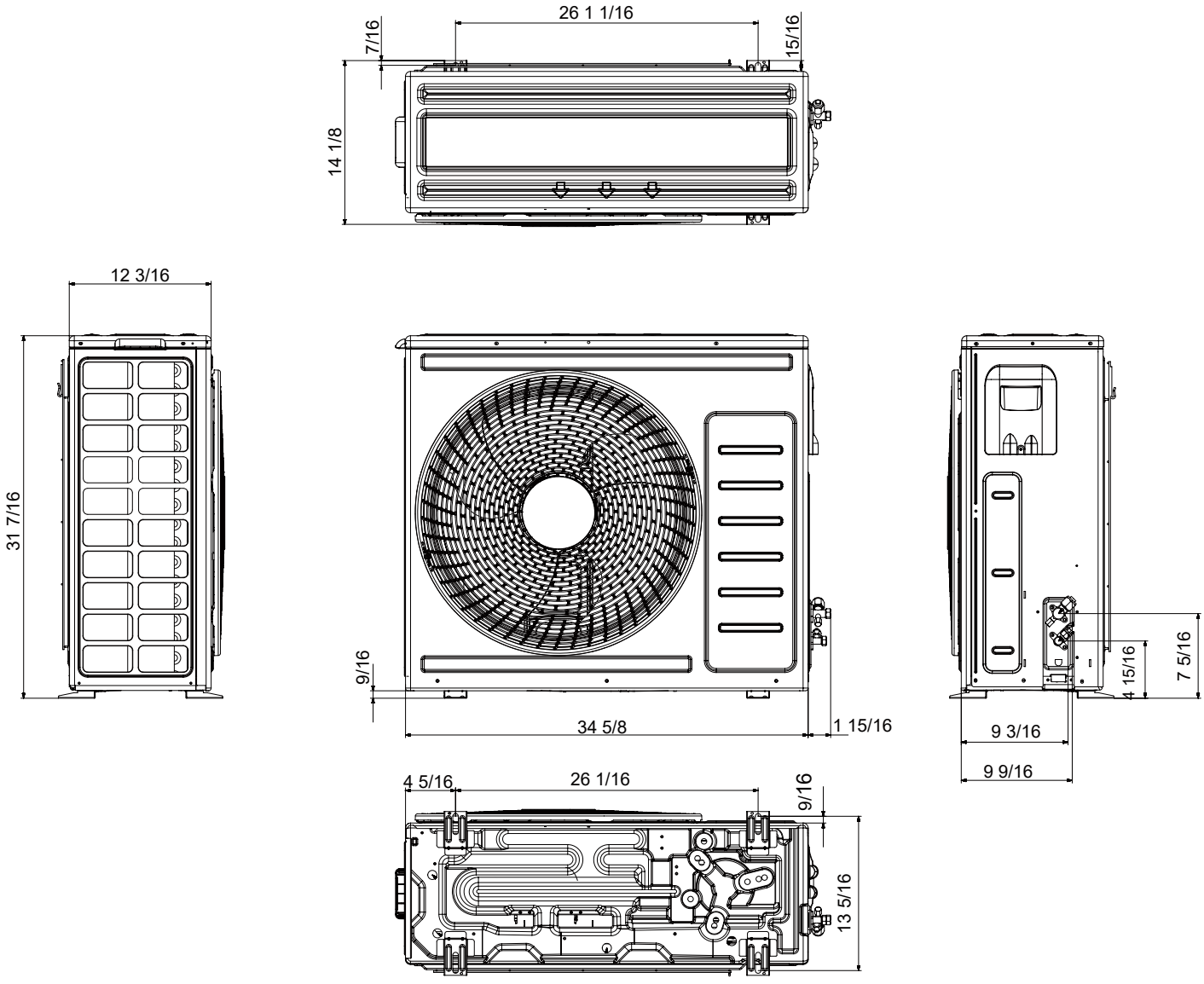
SUBMITTAL DATA – **WALL MOUNTED**

MWHD018S6S-1P – MWHD018S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

OUTDOOR DIMENSIONS IN.



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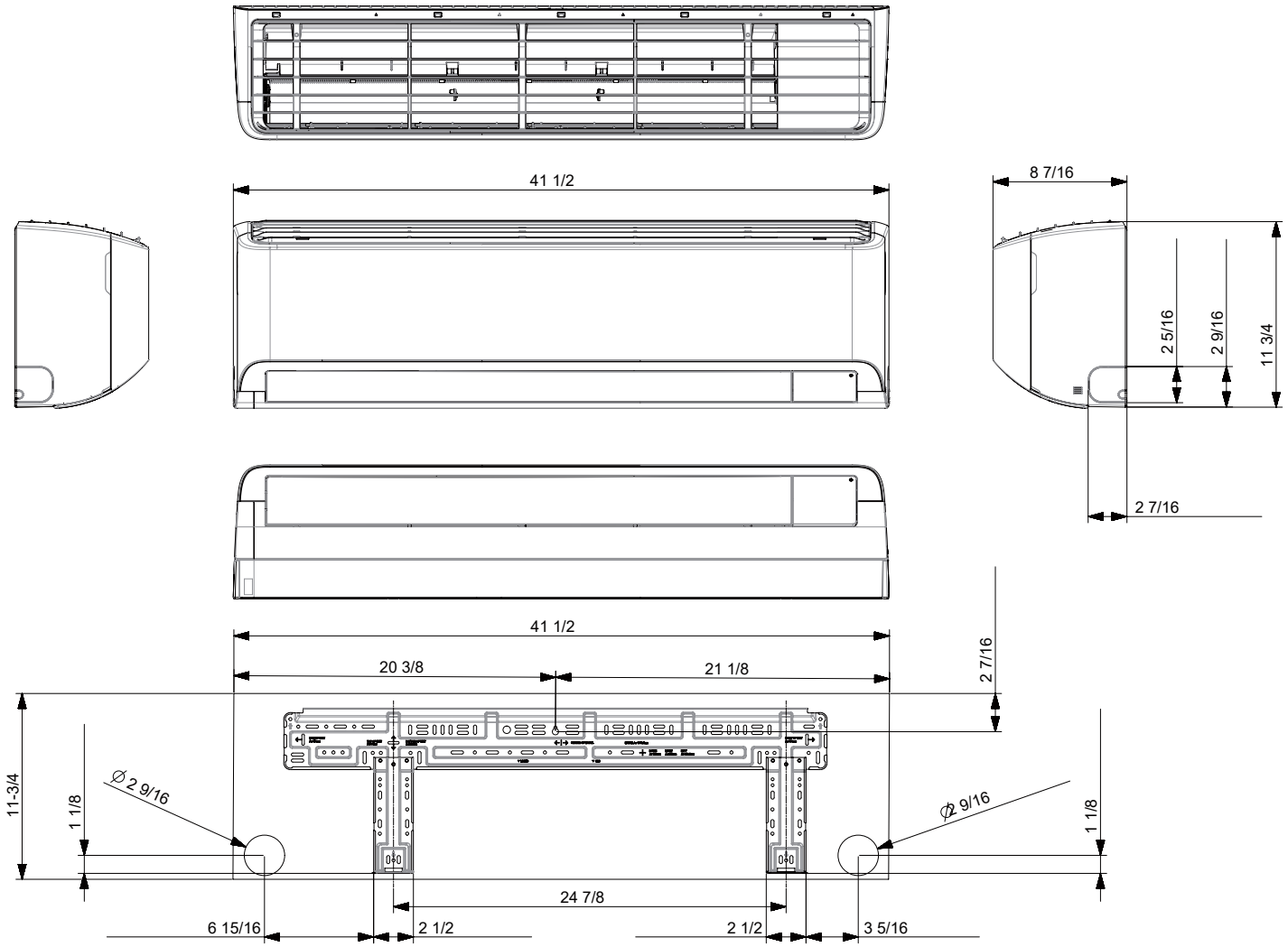
MWHD018S6S-1P – MWHD018S6-1P

SINGLE ZONE MINI-SPLIT HEAT PUMP

INDOOR DIMENSIONS IN.



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Tag: 2.5 Ton Split System
Condenser: ML13KC1-030-230
Evaporator Coil: CK40CT-30/36B (R454B)
Furnace: ML196UH070XE36BK (RDS)

UNIT OVERVIEW

AHRI Reference - 215586576

Voltage	AHRI SEER2 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	14.3 12.2	2.5	28.0 / 20.8	26.4 / 19.2	958	0.5 / 0.6	80.0 / 67.0	50.1 / 50.1

COOLING

Cooling Performance		Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	28.0 / 20.8 MBH	Ambient	95.0	
Net Cooling (Ttl/Sens)	26.4 / 19.2 MBH	Entering	80.0	67.0
Coil Moisture Removal	6.77 lb/hr	Total Leaving – (Coil)	50.1	50.1
		Total Leaving – (Unit)	52.5	52.5

ARI Performance		Compressors		Refrigerant		Condensate Drain	
AHRI Cooling	28.0 MBH	Cooling Stages	Single	Type	R-454B	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	Gas Heat Rise	61.8°F	Thermal Efficiency	96.0%
Input (High/Low)	66.0 / MBH	Total Leaving	61.8	Gas Line Size	0.5 in.
				Heat Exchange Type	Aluminum

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	958	Nominal Power	0.5hp	Total	0.61
		Drive Type	ECM Multi Speed Constant Torque	Ext Supply	0.50
		Speed	Medium-Low	Wet Coil	0.11
		Orientation	Upflow/Horizontal		

ELECTRICAL

Condenser		Furnace	
Voltage	208 Volt 1 Phase / 60Hz	Voltage	120V / 1Ph / 60Hz
MCA	17 amp	MCA	
MOCP	25 amp	MOCP	15.0 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 24.50 in.
Total Weight	152 lb	Total Weight	129 lb	Total Weight	45 lb

Field Installed Accessories

Catalog Number	Qty	Description
26P11	2	ML196UH070XE36BK Furnace-Gas/70Btuh/3Ton

Product Features

Cabinet
Heavy gauge galvanized steel cabinet
Non-corrosive drain pan
Fully Insulated heavy gauge steel cabinet
Heavy Gauge Cold Rolled Steel Cabinet

Cooling System
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

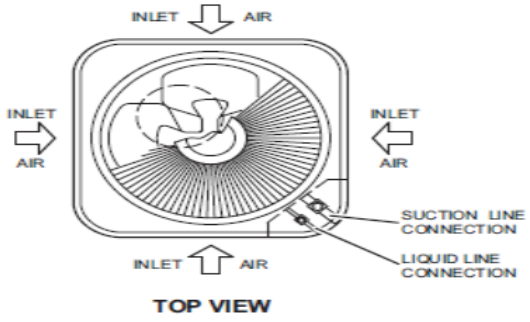
Heating System
Aluminized Steel Inshot Burners
Aluminized Steel Tubular Heat Exchanger
SureLight(R) Hot Surface Ignition
Furnace Liminted Warranty 10 Years Comm

Control System
Indoor Refirgerant Detection System (RDS)

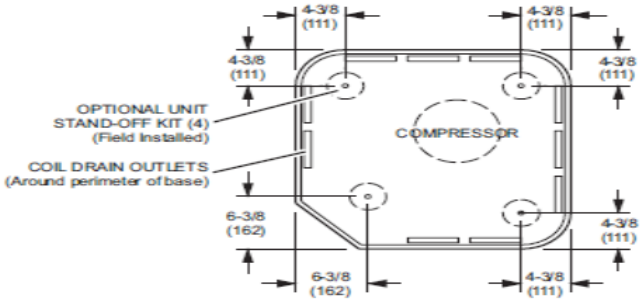
Approvals and Compliance
Only refrigerants in compliance with New York State regulations can be used in the state of New York

Warranty
Condenser Limited compressor warranty of 5 years for Residential Installations Condenser See Limited Warranty Certificate included with unit for detailsCondenser Limited compressor warranty of 5 years for Non-Residential InstallationsCondenser Limited warranty on all covered components of 1 year in Non-Residential InstallationsCoil See Limited Warranty Certificate included with unit for detailsCoil Limited warranty on all other covered components of 1 year (Comm Use)Furnace See Limited Warranty Certificate included with unit for detailsFurnace Limited warranty on heat exchanger of 20 yearsFurnace 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)

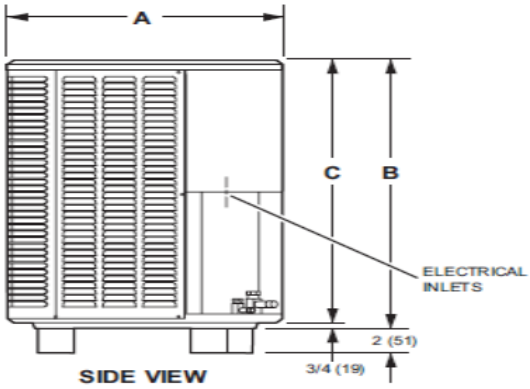
DIMENSIONS - UNIT



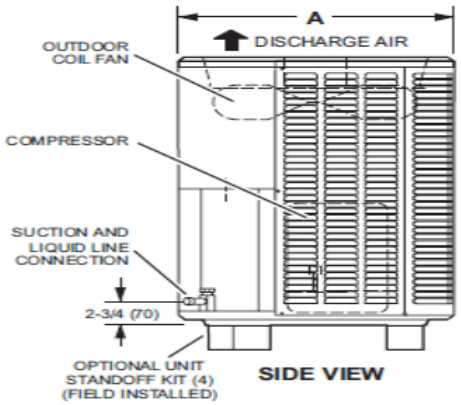
TOP VIEW



TOP VIEW BASE SECTION



SIDE VIEW

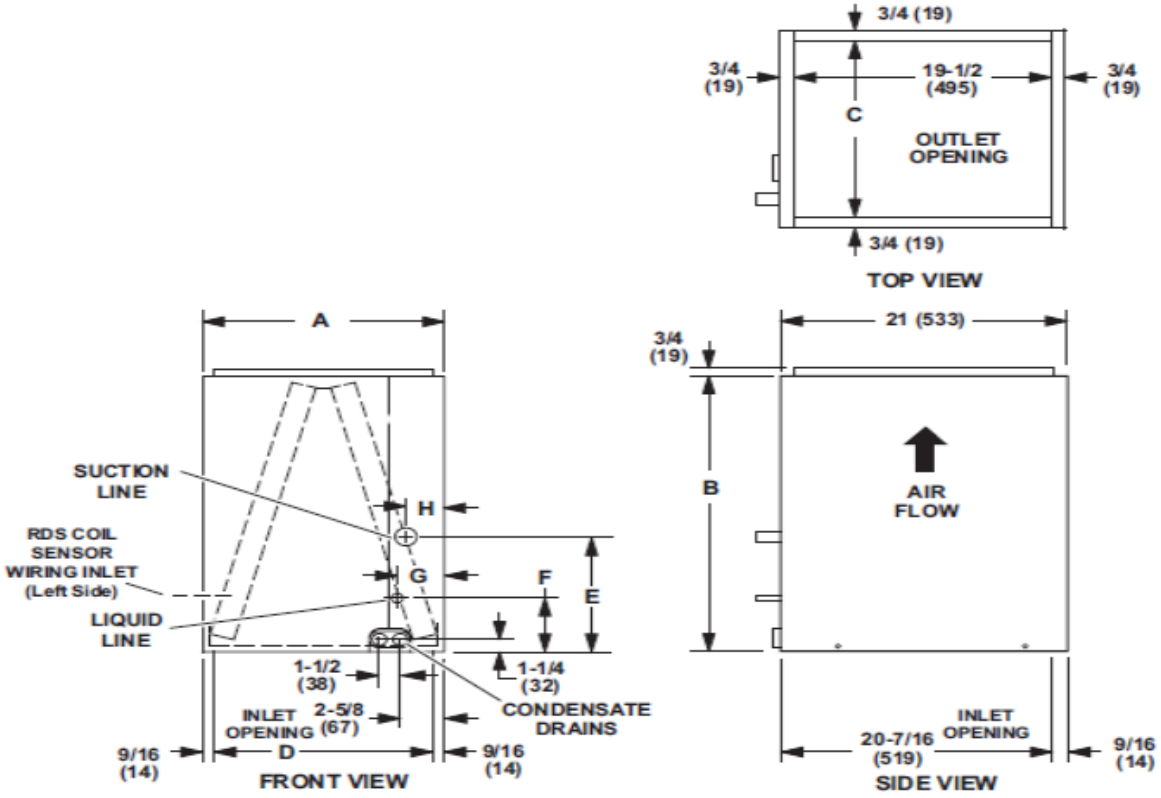


SIDE VIEW

Size	A Width and Depth		B Height		C	
	inches	mm	inches	mm	inches	mm
018	24-1/4	616	25-1/4	641	24-1/2	622
024	24-1/4	616	29-1/4	743	28-1/2	724
030	28-1/4	718	29-1/4	743	28-1/2	724
036	28-1/4	718	33-1/4	845	32-1/2	826
042	28-1/4	718	37-1/4	946	36-1/2	927
048	28-1/4	718	29-1/4	743	28-1/2	724
060	28-1/4	718	37-1/4	946	36-1/2	927

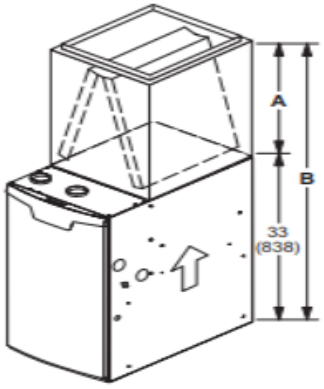
DIMENSIONS CK40CT CASED

CK40CT-18/24(A/B), -30/36(A/B/C) and -36(A/B) Coils



Size	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
18/24A	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
18/24B	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
30/36A	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
30/36B	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
30/36C	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
36A	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
36B	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

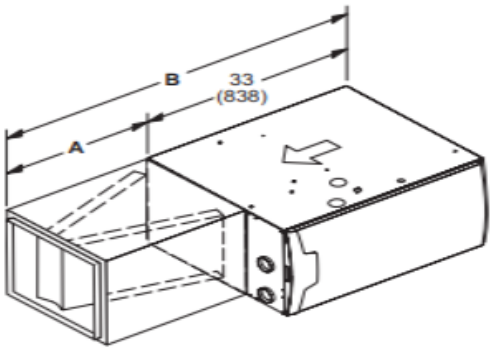


UPFLOW POSITION - CASED

Model		A		B	
CK40CT	C35/CX35	in.	mm	in.	mm
CK40CT-18/24B	C35/CX35-18/24B	16-1/2	419	49-1/2	1257
CK40CT-24B	C35/CX35-24B	18-1/2	470	51-1/2	1308
CK40CT-30B	C35/CX35-30B	22-1/2	572	55-1/2	1410
CK40CT-30/36B CK40CT-30/36C	C35/CX35-30/36B C35/CX35-30/36C	24-1/2	622	57-1/2	1461
CK40CT-36B	C35/CX35-36B	24-1/2	622	57-1/2	1461
CK40CT-48B CK40CT-48C	C35/CX35-48B C35/CX35-48C	27-1/2	699	60-1/2	1537
CK40CT-49C	C35/CX35-49C	29-1/2	749	62-1/2	1588
CK40CT-50/60C	C35/CX35-50/60C	27-1/2	699	60-1/2	1537
CK40CT-60C	CX35-60C	31-1/2	800	64-1/2	1638
CK40CT-60D	CX35-60D	29-1/2	749	62-1/2	1588

UPFLOW POSITION - UNCASED

Model		A		B	
CK40UT	C35	in.	mm	in.	mm
CK40UT-18/24B	C35-18/24B	14-1/8	359	47-1/8	1197
CK40UT-24B	C35-24B	16-3/8	416	49-3/8	1254
CK40UT-30B	C35-30B	20-3/4	527	53-3/4	1365
CK40UT-30/36B CK40UT-30/36C	C35-30/36B C35-30/36C	22-1/4	565	55-1/4	1403
CK40UT-36B	C35-36B	22-3/8	568	55-3/8	1407
CK40UT-48B CK40UT-48C	C35-48B C35-48C	26-1/4	667	59-1/4	1505
CK40UT-49C	C35-49C	28-1/2	724	61-1/2	1562
CK40UT-50/60C	C35-50/60C	25-7/8	657	58-7/8	1495
CK40UT-60C	C35-60C	30-5/8	778	63-5/8	1616
CK40UT-60D	C35-60D	28	711	61	1549



HORIZONTAL POSITION

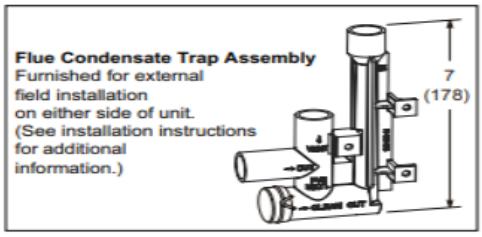
Model		A		B	
CK40HT	CHX35	in.	mm	in.	mm
CK40HT-24B CK40HT-30B CK40HT-36B CK40HT-36C CK40HT-42C CK40HT-48C	CHX35-24B CHX35-30B CHX35-36B CHX35-36C CHX35-42C CHX35-48C	26-1/2	673	59-1/2	1511
CK40CT-42B CK40CT-48B CK40CT-51/61C CK40CT-60D	CHX35-42B CHX35-48B CHX35-51/61C CHX35-60D	31-1/2	880	64-1/2	1638

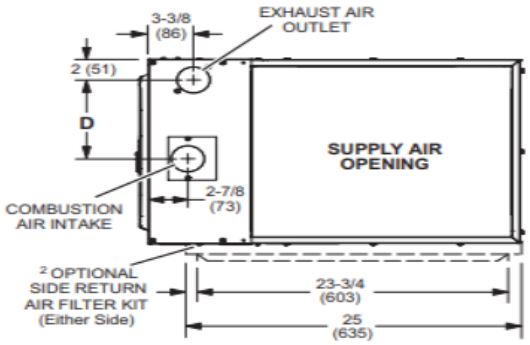
DIMENSIONS — UNIT - UPFLOW POSITION

[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.

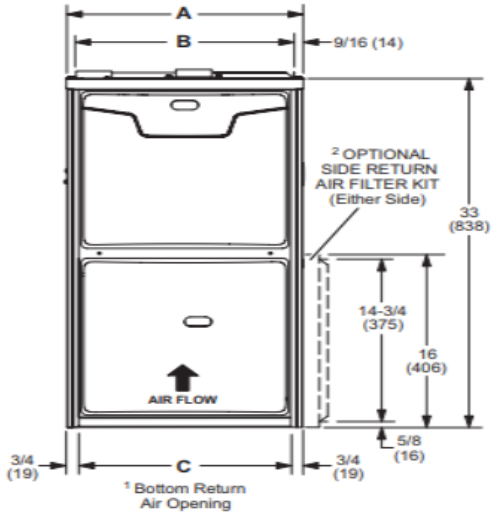
See Blower Performance Tables for additional information.

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

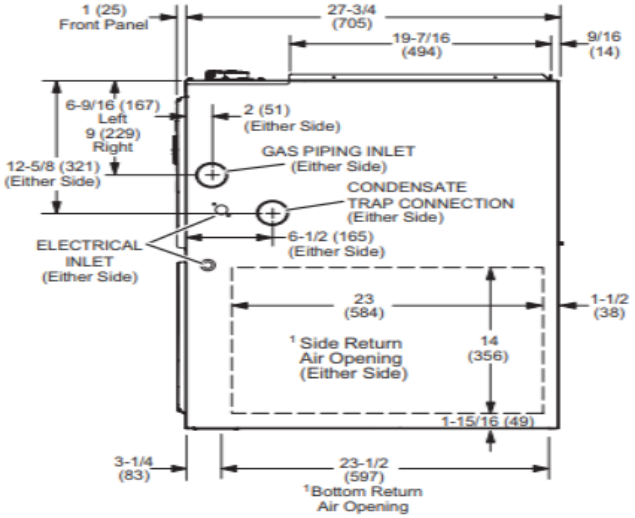




TOP VIEW



FRONT VIEW



SIDE VIEW

Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
ML196UH030XE36BK ML196UH045XE36BK ML196UH070XE36BK ML196UH070XE48BK	17-1/2	446	16-3/8	416	16	406	7-5/8	194
ML196UH090XE36CK ML196UH090XE48CK ML196UH090XE60CK ML196UH110XE60CK	21	533	19-7/8	505	19-1/2	495	9-3/8	238
ML196UH135XE60DK	24-1/2	622	23-3/8	594	23	584	11-1/8	283

Project Submittal

Tag: Miscellaneous Items

Miscellaneous Items

Tag	Catalog Number	Qty	Description
Condensate Pump			
	14T74	3	X86-003 - MicroBlue & Reservoir 110-230V