



Series 7, Wall - Mount Units

Technical Data - 60Hz

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Air Handling Unit – With Air-cooled Remote Outdoor Condensing Unit (7AC**)

Model no.		7AH15	7AH20	7AH25
Cooling Capacity - Rated at standard air volume, and 95°F ambient temperature				
79°F (26°C) DB, 50%rh				
Total	BTUH	21726	23234	30275
Sensible	BTUH	18646	20356	27245
79°F (26°C) DB, 45%rh				
Total	BTUH	21278	22809	30152
Sensible	BTUH	19601	21562	29506
75°F (24°C) DB, 50%rh				
Total	BTUH	20755	22064	28744
Sensible	BTUH	17840	19529	26382
75°F (24°C) DB, 45%rh				
Total	BTUH	20823	22042	28425
Sensible	BTUH	19589	21240	28197
72°F (22°C) DB, 50%rh				
Total	BTUH	20178	21254	27305
Sensible	BTUH	17965	19357	25476
72°F (22°C) DB, 45%rh				
Total	BTUH	20114	21172	27172
Sensible	BTUH	19033	20589	27172
Fan Section – Tangential blower system				
Standard Air Volume	CFM	800	900	1300
Quantity of Fans		1	1	1
Total Fan Motor Power	Hp	0.1	0.1	0.25
Evaporator Coil - Copper tube /enhanced aluminium fin - Stainless steel drain pan				
Face Area	ft ²	3.3	3.3	3.3
Rows Deep		3	3	3
Fins per inch	fpi	9	9	9
Face Velocity	fpm	240	270	390
Reheat Section – Electric Reheat - finned tubular type heater, -Optional				
Capacity	kW	2	2	2
Quantity of Heaters		1	1	1
Humidifier - Electrode boiler type, -Optional				
Steam Generation Capacity	Lb/hr	5.0	5.0	5.0
Humidifier Power	kW	1.7	1.7	1.7

Model no.		7AH15	7AH20	7AH25
Filter Section - Pleated disposable type				
Quantity of Filters		1	1	1
Nominal Size	WxHxD in		30 x 14.5 x 1	
Piping Connection Size				
Liquid Line	- ODM -in	3/8"	3/8"	3/8"
Suction Line	- ODM -in	5/8"	5/8"	5/8"
Humidifier Water	- ODM -in	1/4"	1/4"	1/4"
Condensate Drain	- ODM -in	5/8"	5/8"	5/8"
Physical Details				
Width x Depth x Height	in		42 x 12 x 21	
Weight	lbs	95	95	95

Air-cooled Remote Outdoor Condensing Unit

Model no.		7AC15	7AC20	7AC25
Fan Section – Direct drive Propeller Fan				
Standard Air Volume	CFM	1600	1600	2200
Quantity of Fans		1	1	1
Total Fan Motor Power	Hp	0.25	0.25	0.25
Compressor - Refrigerant R22, Located in outdoor unit				
Quantity of Compressors		1	1	1
Type		Scroll	Scroll	Scroll
Condenser Coil - Copper tube / aluminium fin				
Face Area	ft ²	4.2	4.2	4.2
Rows Deep		3	3	3
Fins per inch		13	13	13
Face Velocity	fpm	384	384	528
Normal Refrigerant Charge	lbs	2.4	2.4	2.4
Flooded Refrigerant Charge	lbs	5.3	5.3	5.3
Piping Connection Size				
Liquid Line	- ODM -in	3/8"	3/8"	3/8"
Suction Line	- ODM -in	5/8"	5/8"	5/8"
Physical Details				
Width x Depth x Height	in		41 x 13 x 26	
Weight	lbs	145	145	145

Air Handling Unit – With Water-cooled Remote Indoor Condensing Unit (7WC**)

Model no.		7AH15	7AH20	7AH25
Cooling Capacity - Rated at standard air volume, 115°F condensing temperature				
79°F (26°C) DB, 50%rh				
Total	BTUH	20511	22445	30257
Sensible	BTUH	18111	20019	27238
79°F (26°C) DB, 45%rh				
Total	BTUH	19902	21913	30122
Sensible	BTUH	18958	21159	29494
75°F (24°C) DB, 50%rh				
Total	BTUH	19164	20945	28548
Sensible	BTUH	17076	19013	26302
75°F (24°C) DB, 45%rh				
Total	BTUH	19316	20954	28193
Sensible	BTUH	18868	20730	28097
72°F (22°C) DB, 50%rh				
Total	BTUH	18362	19901	26915
Sensible	BTUH	17090	18715	25301
72°F (22°C) DB, 45%rh				
Total	BTUH	18312	19830	26778
Sensible	BTUH	18110	19830	26778
Fan Section – Tangential blower system				
Standard Air Volume	CFM	800	900	1300
Quantity of Fans		1	1	1
Total Fan Motor Power	Hp	0.25	0.25	0.25
Evaporator Coil - Copper tube /enhanced aluminium fin - Stainless steel drain pan				
Face Area	ft ²	3.3	3.3	3.3
Rows Deep		3	3	3
Fins per inch	fpi	9	9	9
Face Velocity	fpm	240	270	390
Reheat Section – Electric Reheat - finned tubular type heater, -Optional				
Capacity	kW	2	2	2
Quantity of Heaters		1	1	1
Humidifier - Electrode boiler type, -Optional				
Steam Generation Capacity	Lb/hr	5.0	5.0	5.0
Humidifier Power	kW	1.7	1.7	1.7

Model no.		7AH15	7AH20	7AH25
Filter Section - Pleated disposable type				
Quantity of Filters		1	1	1
Nominal Size	WxHxD in		30 x 14.5 x 1	
Piping Connection Size				
Liquid Line	- ODM -in	3/8"	3/8"	3/8"
Suction Line	- ODM -in	5/8"	5/8"	5/8"
Humidifier Water	- ODM -in	1/4"	1/4"	1/4"
Condensate Drain	- ODM -in	5/8"	5/8"	5/8"
Condensing Water	- ODM -in	1/2"	1/2"	1/2"
Physical Details				
Width x Depth x Height	in		42 x 12 x 21	
Weight	lbs		95	

Water-cooled Remote Indoor Condensing Unit

Model no.		7WC15	7WC20	7WC25
Compressor - Refrigerant R22, located in remote unit				
Quantity of Compressors		1	1	1
Type		Scroll	Scroll	Scroll
Condensing Water Requirement				
75°F EWT				
Flow Rate	GPM	1.8	2.3	3.6
Unit Pressure Drop	ft-H ₂ O	4.4	6.3	12.5
85°F EWT				
Flow Rate	GPM	2.4	3.0	4.8
Unit Pressure Drop	ft-H ₂ O	6.8	9.9	21.9
Physical Details Water Regulating Valve - 2-way, head pressure controlled				
Size	in.	3/8	3/8	3/8
Piping Connection Size				
Liquid Line	- ODM -in	3/8"	3/8"	3/8"
Suction Line	- ODM -in	5/8"	5/8"	5/8"
Condensing Water	- ODM -in	1/2"	1/2"	1/2"
Physical Details				
Width x Depth x Height	in		26 x 13 x 16	
Weight	lbs		195	

Air Handling Unit – With Glycol-cooled Remote Indoor Condensing Unit (7GC**)

Model no.		7AH15	7AH20	7AH25
Cooling Capacity - Rated at standard air volume				
79°F (26°C) DB, 50%rh				
Total	BTUH	20511	22445	30257
Sensible	BTUH	18111	20019	27238
79°F (26°C) DB, 45%rh				
Total	BTUH	19902	21913	30122
Sensible	BTUH	18958	21159	29494
75°F (24°C) DB, 50%rh				
Total	BTUH	19164	20945	28548
Sensible	BTUH	17076	19013	26302
75°F (24°C) DB, 45%rh				
Total	BTUH	19316	20954	28193
Sensible	BTUH	18868	20730	28097
72°F (22°C) DB, 50%rh				
Total	BTUH	18362	19901	26915
Sensible	BTUH	17090	18715	25301
72°F (22°C) DB, 45%rh				
Total	BTUH	18312	19830	26778
Sensible	BTUH	18110	19830	26778
Fan Section – Tangential blower system				
Standard Air Volume	CFM	800	900	1300
Quantity of Fans		1	1	1
Total Fan Motor Power	Hp	0.25	0.25	0.25
Evaporator Coil - Copper tube /enhanced aluminium fin - Stainless steel drain pan				
Face Area	ft ²	3.3	3.3	3.3
Rows Deep		3	3	3
Fins per inch	fpi	9	9	9
Face Velocity	fpm	240	270	390
Reheat Section – Electric Reheat - finned tubular type heater, -Optional				
Capacity	kW	2	2	2
Quantity of Heaters		1	1	1
Humidifier - Electrode boiler type, -Optional				
Steam Generation Capacity	Lb/hr	5.0	5.0	5.0
Humidifier Power	kW	1.7	1.7	1.7

Model no.	7AH15	7AH20	7AH25
Filter Section - Pleated disposable type			
Quantity of Filters	1	1	1
Nominal Size WxHxD in		30 x 14.5 x 1	
Piping Connection Size			
Liquid Line - ODM -in	3/8"	3/8"	3/8"
Suction Line - ODM -in	5/8"	5/8"	5/8"
Humidifier Water - ODM -in	1/4"	1/4"	1/4"
Condensate Drain - ODM -in	5/8"	5/8"	5/8"
Glycol Solution - OD -in	1/2"	3/4"	3/4"
Physical Details			
Width x Depth x Height in		29 x 13 x 19	
Weight lbs		195	

Glycol-cooled Remote Indoor Condensing Unit

Model no.	7GC15	7GC20	7GC25
Compressor - Refrigerant R22, located in remote unit			
Quantity of Compressors	1	1	1
Type	Scroll	Scroll	Scroll
Glycol Solution Requirement			
95°F EWT			
Flow Rate GPM	3.0	3.9	5.5
Unit Pressure Drop ft-H ₂ O	8.8	6.1	9.1
105°F EWT			
Flow Rate GPM	4.5	5.8	8.2
Unit Pressure Drop ft-H ₂ O	14.3	14.4	22.4
Glycol Solution Regulating Valve – 2 way, head pressure controlled			
Size in.	3/8	1/2	1/2
Piping Connection Size			
Liquid Line - ODM -in	3/8"	3/8"	3/8"
Suction Line - ODM -in	1/2"	1/2"	1/2"
Glycol Solution - OD -in	1/2"	3/4"	3/4"
Physical Details			
Width x Depth x Height in		40 x 14 x 25 1/4	
Weight lbs		145	

Chilled Water System

Model no.		7CW15	7CW20	7CW25
Cooling Capacity - Rated at standard air volume, 45°F (7.2°C) entering water & 10°F (5.6°C) temperature rise				
79°F (26°C) DB, 50%rh				
Total	BTUH	23168	25556	33717
Sensible	BTUH	19437	21520	28938
Flow Rate	GPM	4.6	5.1	6.7
Unit Pressure Drop	ft-H ₂ O	7.8	9.4	14.2
79°F (26°C) DB, 45%rh				
Total	BTUH	21668	23957	31509
Sensible	BTUH	20139	22312	29823
Flow Rate	GPM	4.3	4.8	6.3
Unit Pressure Drop	ft-H ₂ O	7.0	8.4	12.9
75°F (24°C) DB, 50%rh				
Total	BTUH	17608	19508	26067
Sensible	BTUH	16676	18481	24863
Flow Rate	GPM	3.5	3.9	5.2
Unit Pressure Drop	ft-H ₂ O	4.9	6.0	9.5
75°F (24°C) DB, 45%rh				
Total	BTUH	16541	18374	24439
Sensible	BTUH	16541	18374	24439
Flow Rate	GPM	3.3	3.7	4.9
Unit Pressure Drop	ft-H ₂ O	4.5	5.2	8.7
72°F (22°C) DB, 50%rh				
Total	BTUH	12601	14036	18977
Sensible	BTUH	12601	14036	18977
Flow Rate	GPM	2.5	2.8	3.8
Unit Pressure Drop	ft-H ₂ O	2.6	3.4	5.7
72°F (22°C) DB, 45%rh				
Total	BTUH	12583	14015	18949
Sensible	BTUH	12583	14015	18949
Flow Rate	GPM	2.4	2.8	3.8
Unit Pressure Drop	ft-H ₂ O	2.5	3.4	5.7
Fan Section – Tangential blower system				
Standard Air Volume	CFM	800	900	1300
Quantity of Fans		1	1	1
Total Fan Motor Power	Hp	0.25	0.25	0.25

Model no.		7CW15	7CW20	7CW25
Evaporator Coil - Copper tube /enhanced aluminium fin - Stainless steel drain pan				
Face Area	ft ²	3.3	3.3	3.3
Rows Deep		3	3	3
Fins per inch	fpi	9	9	9
Face Velocity	ft/min	240	270	390
Reheat Section – Electric Reheat - finned tubular type heater, -Optional				
Capacity	kW	2	2	2
Quantity of Heaters		1	1	1
Humidifier - Electrode boiler type, -Optional				
Steam Generation Capacity	Lb/hr	5.0	5.0	5.0
Humidifier Power	kW	1.7	1.7	1.7
Filter Section - Pleated disposable type				
Quantity of Filters		1	1	1
Nominal Size	WxHxD in		30 x 14.5 x 1	
Piping Connection Size				
Chilled Water	- ODM -in	5/8"	5/8"	5/8"
Humidifier Water	- ODM -in	1/4"	1/4"	1/4"
Condensate Drain	- ODM -in	5/8"	5/8"	5/8"
Chilled-water Valve - 2-Way modulating				
Valve Size	in.	1/2	1/2	1/2
Physical Details				
Width x Depth x Height	in		42 x 11 x 21	
Weight	lbs		95	

Electrical Data - 208Volts/1 Phase/60 Hertz

Indoor Unit *

Model	7AH/CW15			7AH/CW20			7AH/CW25		
Reheat Option / Humidifier Option	FLA	MCA	MFS	FLA	MCA	MFS	FLA	MCA	MFS
Electric / Boiler	19.9	22.7	25	19.9	22.7	25	20.7	23.7	25
Electric / None	11.7	13.9	15	11.7	13.9	15	12.5	14.9	15
None / Boiler	10.3	12.7	15	10.3	12.7	15	11.1	13.7	15
None/ None	2.1	2.5	15	2.1	2.5	15	2.9	3.5	15

Condensing Unit *

Model	7_C15			7_C20			7_C25		
	FLA	MCA	MFS	FLA	MCA	MFS	FLA	MCA	MFS
Air-Cooled (7A...)	11.3	13.8	20	12.0	14.7	25	16.3	20.1	35
Water-Cooled (7W...)	10.0	12.5	20	10.7	13.4	20	15.0	18.8	30
Glycol-Cooled (7G...)	10.0	12.5	20	10.7	13.4	20	15.0	18.8	30

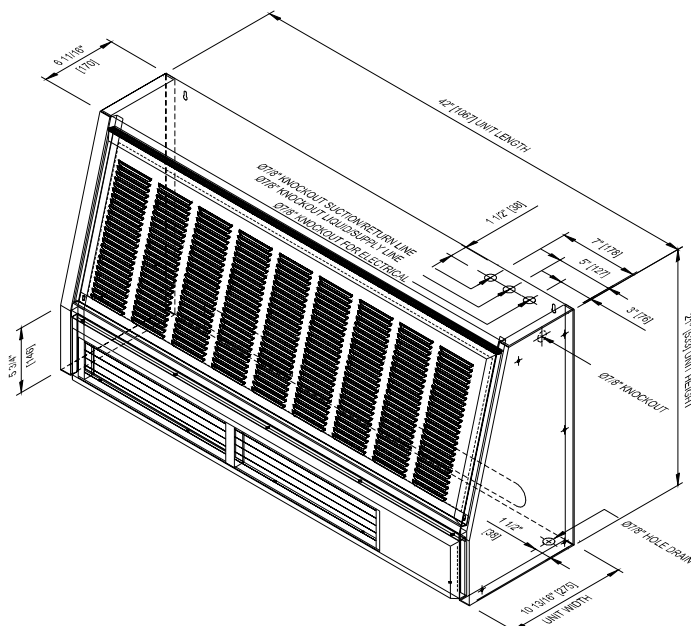
- FLA is based on full load current of individual components that result in maximum electrical load condition during normal operation.
FLA = Full Load Amps, MCA = Minimum Circuit Ampacity, MFS = Maximum Fuse Size

Appendix A: Dimensional Drawings

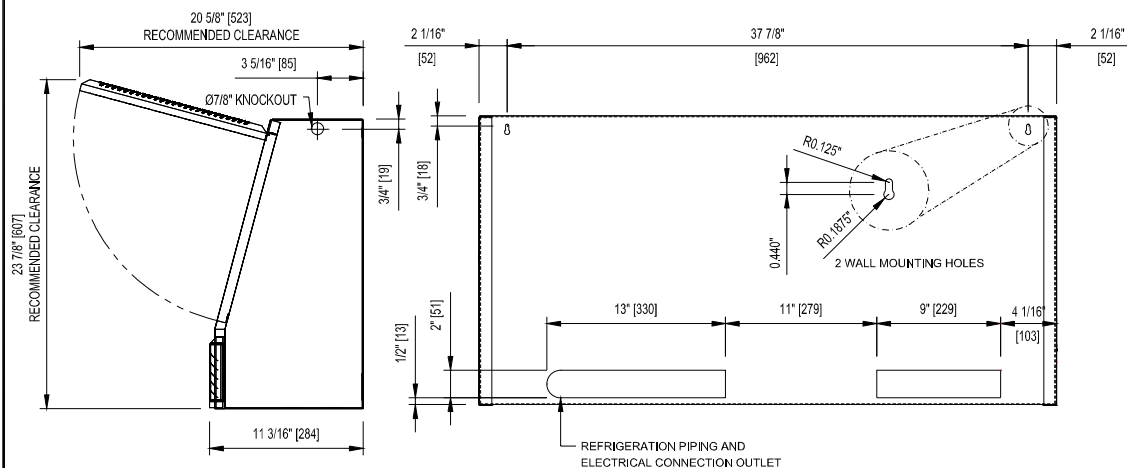
<u>Drawing Title</u>	<u>Drawing No.</u>	<u>Page No.</u>
Indoor Evaporative Unit Dimensional Detail	S7DD101C	13
Indoor Evaporative Unit with Humidifier Detail	S7DD102C	14
Outdoor Condensing Unit	S7DD302E	15
Water/Glycol Cooled Condensing Unit Detail	S7DD401C	16



SERIES 7 - DIMENSIONAL DETAIL WALL MOUNT INDOOR UNIT



ISOMETRIC DETAIL



SIDE PANEL DETAIL

BACK PANEL MOUNTING DETAIL

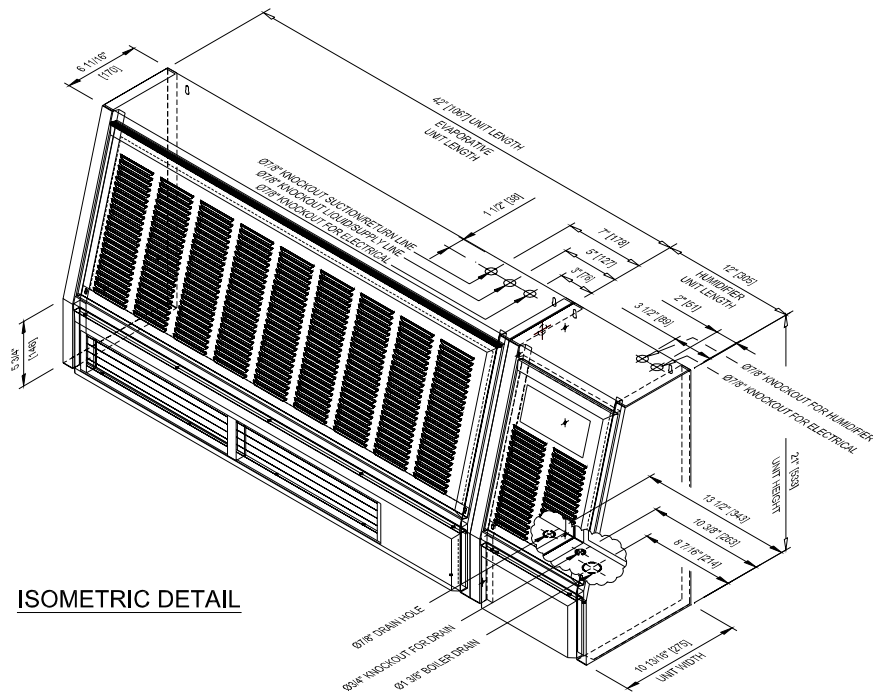
PIPING CONNECTION SIZE

MODEL NO. SUFFIX		7AH15	7AH20	7AH25	7CW15	7CW20	7CW25
Liquid Line	-ODM in	3/8"	3/8"	3/8"	-	-	-
Suction Line	-ODM in	1/2"	1/2"	1/2"	-	-	-
Humidifier Water	-ODM in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Condensate Drain	-ODM in	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Chilled Water	-ODM in	-	-	-	5/8"	5/8"	5/8"

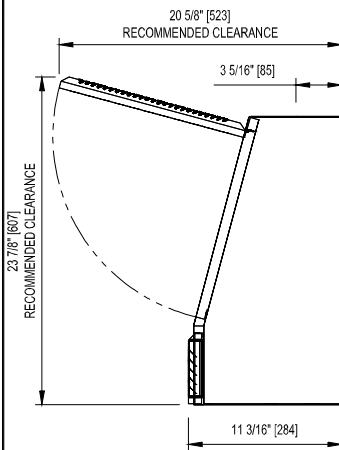
ODM - Outside Diameter of copper pipe in inches for soldering



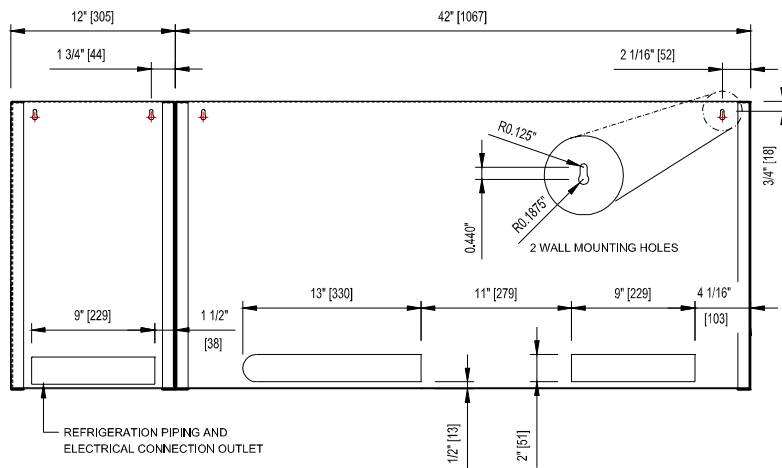
SERIES 7 - DIMENSIONAL DETAIL WALL MOUNT INDOOR EVAP UNIT W/ HUMIDIFIER



ISOMETRIC DETAIL



SIDE PANEL DETAIL



BACK PANEL MOUNTING DETAIL

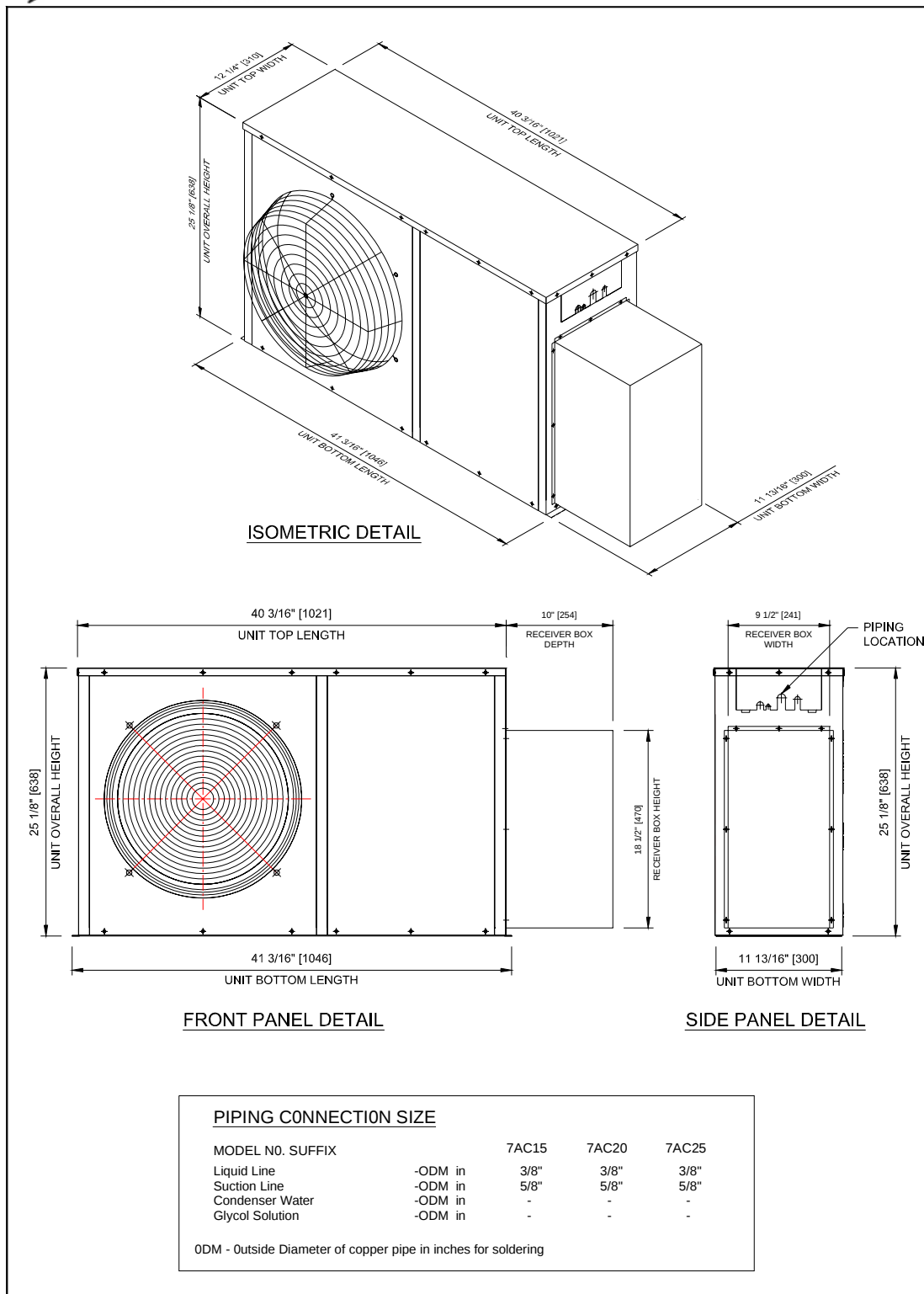
PIPING CONNECTION SIZE

MODEL NO. SUFFIX		7AH15	7AH20	7AH25	7CW15	7CW20	7CW25
Liquid Line	-ODM in	3/8"	3/8"	3/8"	-	-	-
Suction Line	-ODM in	1/2"	1/2"	1/2"	-	-	-
Humidifier Water	-ODM in	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Condensate Drain	-ODM in	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Chilled Water	-ODM in	-	-	-	5/8"	5/8"	5/8"

ODM - Outside Diameter of copper pipe in inches for soldering



SERIES 7 - DIMENSIONAL DETAIL OUTDOOR CONDENSING UNIT W/ HEAD PRESS. CTRL.



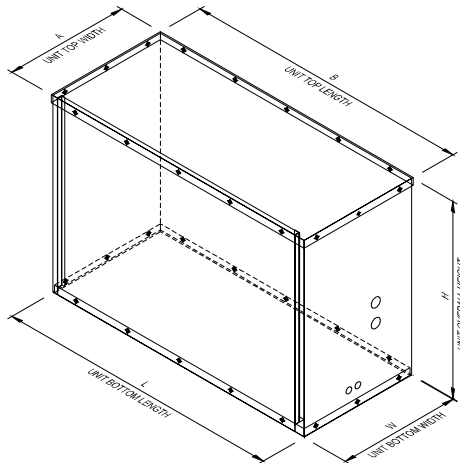
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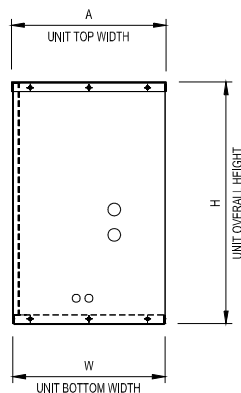
SERIES 7 - DIMENSIONAL DETAIL WATER/GLYCOL COOLED CONDENSING UNIT



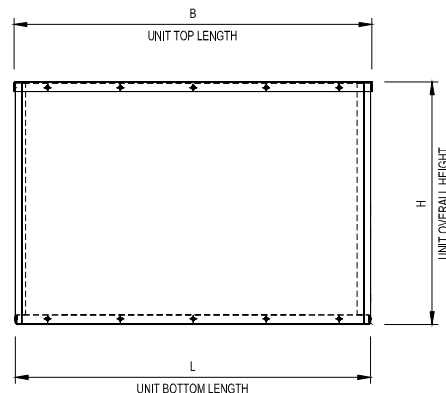
ISOMETRIC DETAIL

CONDENSER DIMENSIONS

TYPE	WATER COOLED	GLYCOL COOLED
A-Unit Top Width	12-1/4"	12-1/4"
B-Unit Top Length	25-1/4"	28-1/4"
H-Unit Overall Height	16"	19"
W-Unit Bottom Width	12"	12"
L-Unit Bottom Length	25"	28"



SIDE PANEL DETAIL



FRONT PANEL DETAIL

PIPING CONNECTION SIZE

MODEL NO. SUFFIX		7WC15	7WC20	7WC25	7GC15	7GC20	7GC25
Liquid Line	-ODM in	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Line	-ODM in	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Condenser Water	-ODM in	1/2"	1/2"	1/2"	-	-	-
Glycol Solution	-OD in	-	-	-	1/2"	3/4"	3/4"

ODM - Outside Diameter of copper pipe in inches for soldering