



PRECISION CONTROLS

& SERVICE LLC.

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E-mail: Precisioncontrolsoffice@gmail.com

To: Randy Nelson
From: Don Wallace
Subject: Water Source Heat Pump Replacements

Hi Randy

As per our conversation, this is a quote to install three Daikin Water Source Heat Pump Replacements. Pricing is good for 30 days, after which I will have to re-confirm prices and freight. Right now, lead time is about 2 weeks from the order date.

Unit 1 – currently failing
Unit 2 – also having trouble
Unit 3 – close in size to Unit 1

Labor, Parts to connect and re-wire all three units

With current cost, we estimate the total to be \$16,910

Please see the attached Daikin cut sheets.

Thank you Randy, for the opportunity. Let me know if you have any questions.

Note: If one of those units would fail prior to a decision being made, we have access to it's replacement and would be glad to expedite the unit needed. The only thing that would change from the price calculated in this quote would be the added shipping to cover the cost to speed up the delivery.



SUBMITTAL DATA

for

Richland County Courthouse 2021 WSHPs

Prepared for

Precision Controls

Attn: Don Wallace

Job Number: LGZK0Z

Customer PO#:

Prepared by

Masters Building Solutions

Dan Bohm

4/13/2021

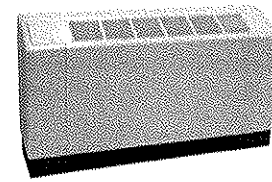
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Technical Data Sheet for 9 MBH Console

Job Information Technical Data Sheet

Job Name	Richland County Courthouse 2021 WSHPs
Date	4/13/2021
Submitted By	Daniel Bohm
Software Version	09.80
Unit Tag	9 MBH Console



Unit Overview							
Stock Part Number	Voltage V/Hz/Phase	Air Flow CFM	Fluid Flow gpm	Cooling Capacity Btu/hr	Cooling Efficiency EER @ design	Heating Capacity Btu/hr	Heating Efficiency COP @ design
910283244	208-230/60/1	345	2.40	9722	14.68	10912	5.04

Unit	
Model Number:	WMHC2009
Unit Type:	Console Standard Range
Unit Construction:	Standard Fiberglass Insulation
Approval:	None
Refrigerant Type	R-410A
Refrigerant Weight	21.0 oz

Unit Performance									
Air & Water Flow									
Airflow		Fluid Flow				Fluid Type		Fluid Pressure Drop	
345 CFM		2.40 gpm / 3.20 gpm/ton				Water		3.13 ft H ₂ O	
Cooling Performance									
Fluid Temperature		Air Temperature				Capacity		Heat of Rejection Btu/hr	EER @ design
Entering °F	Leaving °F	Entering Dry Bulb °F	Wet Bulb °F	Leaving Dry Bulb °F	Wet Bulb °F	Total Btu/hr	Sensible Btu/hr		
85.0	95.0	80.0	67.0	61.1	57.8	9722	6916	11982	14.68
Heating Performance									
Fluid Temperature		Air Temperature				Capacity	Heat of Absorption	COP @ design	
Entering °F	Leaving °F	Entering Dry Bulb °F		Leaving Dry Bulb °F		Total Btu/hr	Btu/hr		
70.0	62.7	70.0		99.3		10912	8749	5.04	

Electrical			
Unit Voltage	Minimum Voltage	Total Unit MCA	Total Unit Full Load Current
208-230/60/1	187 V	4.9 A	4.0 A
Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
3.60 A	21.0 A	0.4 A	15 A

*Short-Circuit Current = 5 kA rms symmetrical, 600 V maximum

Technical Data Sheet for 9 MBH Console

Physical						
Unit						
Length	Height	Width	Weight		Connections	
			Shipping	Operating	Water, OD	Condensate, ID
46.0 in	25.0 in	10.8 in	164 lb	144 lb	0.625 in	0.75 in
Cabinet						
Construction Type				Cabinet Type		
Standard Fiberglass Insulation				Flat Top		
Piping Hand		Cabinet Height		Discharge Grille		
Right Hand		High Sill - 25"		Standard 1-piece Steel		
Cabinet		Color		Grille		
Antique Ivory		Oxford Brown		Oxford Brown		
Fan					Controls	
Type	Type	Motor	Horsepower	Drive Type	Type	
Tangential	Standard PSC		0.033 HP	Direct	Microtech III Unit Controller - Standalone	
(1) 29.25 in x 9.75 in x 0.5 in						

Options	
Heating	
Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
Controls	
Thermostat Mounting:	Unit Mounted Thermostat
Thermostat Type:	Non-Programmable
Control Transformer:	50VA Control Transformer

Warranty	
Unit Warranty:	4 Yr Refrigerant Circuit Only Extended Parts Warranty, 1st Yr Labor Allowance

AHRI Certification	
	All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

Accessories	
Optional	
Part Number	Description
107293071	MT III Infinity BACNet Comm Module for WSHF

MHC-W_009_HS_F_R_Features-Dim-Phys_Data_Drawing for 9 MBH Console

Certified Drawing		MHC-MHW-FT-HS-R-009 Specs
The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.		Group: WSHP
		Type: Console
		Date: August 2017

Console Water Source Heat Pump – Flat Top Unit, High Sill, Right Hand Models MHC/MHW – Unit Size 009

Cabinets – Selectable flat top or slope top cabinet configuration with multiple grille options. Individual panels- top, front and end panels are designed for easy removal and provides easy access to unit components for service and maintenance.

Compressor – High efficiency rotary type, using R-410A refrigerant with zero ozone depletion potential or phase-out date.

Gentleflo™ Fan – User selectable, multi-speed tangential fan system provides high efficiency and very quiet operation suitable for noise sensitive applications.

LED Annunciator – LED status lights display fault conditions to provide easy troubleshooting and diagnosis. Accessed by removing the left or right end panel to the control enclosure.

Filter – Units come standard with a 1/2" (12.7mm) thick disposable filter that is easy to access and replace without removing panels.

Hinged Control Box – Provides added accessibility to plumbing and compartment for easier access for service.

MicroTech® III Unit Controller – Designed for flexibility, the main control board is used in standalone applications. An optional I/O expansion module can be used to control electric heat and multiple fan speeds. A separate LonWorks® or BACnet® communication module can be easily snapped onto the board to accommodate the building automation system of your choice.

Double-Sloped Drain Pan – Made of durable, non-corrosive polymer, promotes positive condensate drainage for superior Indoor Air Quality (IAQ). Drain Pan is easy to remove for cleaning.

Air Dampers (Field-Installed Accessory) – Motorized or manually operated outside air dampers provide ventilation air.

Unit Flexibility – Selectable for standard (boiler/tower) or extended range (geothermal) applications to achieve the highest efficiency for your application requirements.

Options (Factory Installed)

Indoor Air Quality (IAQ)

- ☐ Non-Fibrous Insulation - Closed-cell type (Rubatex)

Controls

- ☐ MicroTech III Unit Controller - Standalone operation
☐ LonWorks® Communication Module
☐ BACnet® Communication Module

Warranty

- ☐ Ext. 4-Yr. Parts (Compressor Only)
☐ Ext. 4-Yr. Parts (Refrigerant Circuit)

2-Way Motorized Valve Packages (Option)

Factory-installed or field-installed accessory for variable pumping applications. Other valve options available upon request.

Extended End Pocket (Option)

Selectable end pocket provides 11" of additional area inside the left or right hand end of the unit for piping, or a field-installed pump.

Multi-Directional Grilles (Option)

Selectable plastic Multi-Directional Grilles can rotate 90, 180 or 270 degrees for added control of discharge air direction.

Physical Data

Unit Size	009
Fan Wheel - D x W (In.)	4 1/4 x 27 1/4
Fan Motor Horsepower	1/30
Coil Face Area (Sq. Ft.)	1.67
Coil Rows	2
Refrigerant Charge (Oz.)	19.2
Filter, (Qty.) Size (Nominal)	(1) 28 1/2 W x 9 1/2 D
Water Connections (In.)	5/8 O.D.
Condensate Connections (In.)	3/4 I.D.
Weight, Operating (Lbs.)	144
Weight, Shipping (Lbs.)	164



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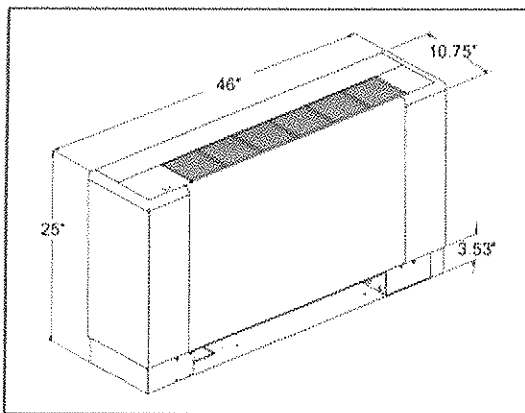
MHC-MHW-FT-HS-R-009 Specs / Page 1 of 2

MHC-W_009_HS_F_R_Features-Dim-Phys_Data_Drawing for 9 MBH Console

Flat Top Unit, High Sill, Right Hand Piping – Size 009

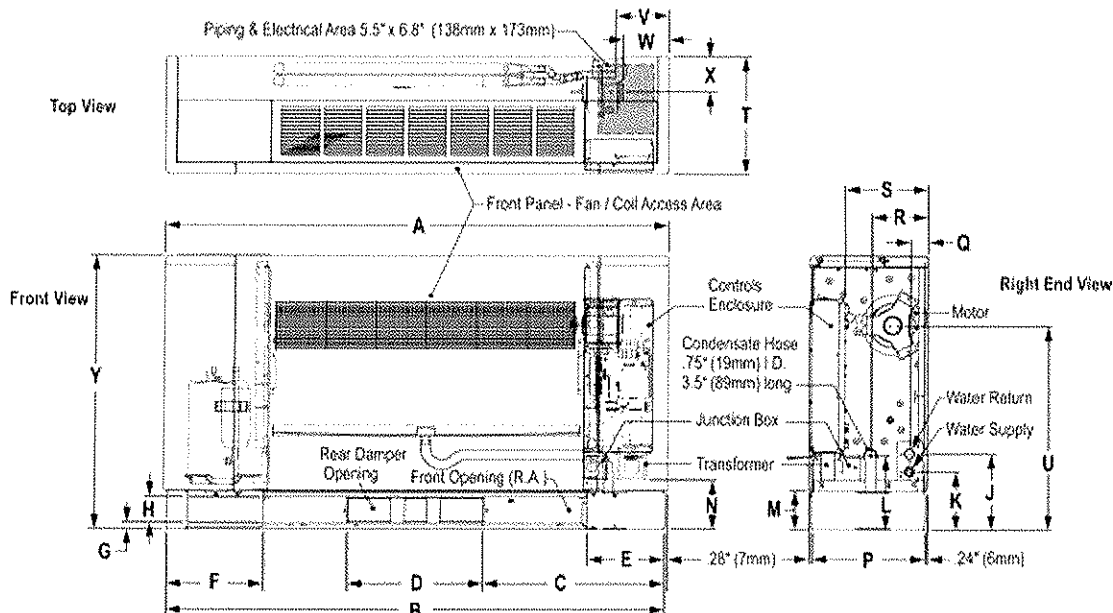
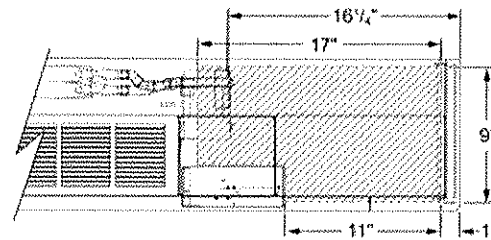
Left and right hand piping determined by facing the front of the unit.

Overall Unit Dimensions: 25"H x 46"W x 10 3/4"D



Extended End Pocket (Option) – Dimensions

Overall Unit Dimensions with Extended End Pocket: 25"H x 58"W x 10 3/4"D



Dimensions

Unit Size	A	B	C	D	E	F	G	H	I	J	K	L	M
009	46" (1168mm)	46 1/2" (1183mm)	16 1/2" (418mm)	12 1/2" (318mm)	7" (181mm)	8 1/2" (225mm)	6 6" (14mm)	2 1/2" (57mm)	6 1/2" (175mm)	5 1/2" (132mm)	6 1/2" (172mm)	3 1/2" (90mm)	
N	P	Q	R	S	T	U	V	W	X	Y			
4 1/2" (118mm)	10 1/2" (260mm)	1 1/2" (41mm)	5 1/2" (134mm)	7 1/2" (192mm)	10 1/2" (273mm)	18 1/2" (478mm)	4 1/2" (118mm)	4 1/2" (108mm)	3 1/2" (83mm)	26" (635mm)			

Note: Dimensions are approximate



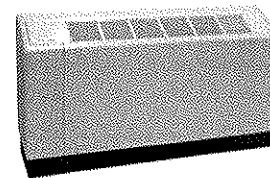
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MHC-MHW-FT-HS-R-009 Specs / Page 2 of 2

Technical Data Sheet for 15 MBH Console

Job Information Technical Data Sheet

Job Name	Richland County Courthouse 2021 WSHPs
Date	4/13/2021
Submitted By	Daniel Bohm
Software Version	09.80
Unit Tag	15 MBH Console



Unit Overview

Stock Part Number	Voltage V/Hz/Phase	Air Flow CFM	Fluid Flow gpm	Cooling Capacity Btu/hr	Cooling Efficiency EER @ design	Heating Capacity Btu/hr	Heating Efficiency COP @ design
910264951	208-230/60/1	525	3.70	14247	17.10	18271	4.81

Unit

Model Number:	WMHC2015
Unit Type:	Console Standard Range
Unit Construction:	Standard Fiberglass Insulation
Approval:	None
Refrigerant Type	R-410A
Refrigerant Weight	30.0 oz

Unit Performance

Air & Water Flow

Airflow	Fluid Flow	Fluid Type	Fluid Pressure Drop
525 CFM	3.70 gpm / 2.96 gpm/ton	Water	2.42 ft H ₂ O

Cooling Performance

Fluid Temperature		Air Temperature				Capacity		Heat of Rejection	EER @ design
Entering °F	Leaving °F	Entering Dry Bulb °F	Wet Bulb °F	Leaving Dry Bulb °F	Wet Bulb °F	Total Btu/hr	Sensible Btu/hr	Btu/hr	
85.0	94.2	80.0	67.0	64.0	58.2	14247	8892	17091	17.10

Heating Performance

Fluid Temperature		Air Temperature		Capacity	Heat of Absorption	COP @ design
Entering °F	Leaving °F	Entering Dry Bulb °F	Leaving Dry Bulb °F	Total Btu/hr	Btu/hr	
70.0	62.2	70.0	102.3	18271	14478	4.81

Electrical

Unit Voltage	Minimum Voltage	Total Unit MCA	Total Unit Full Load Current
208-230/60/1	187 V	6.7 A	5.5 A
Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
5.00 A	30.0 A	0.5 A	15 A

*Short-Circuit Current = 5 kA rms symmetrical, 600 V maximum

Technical Data Sheet for 15 MBH Console

Physical						
Unit						
Length	Height	Width	Weight		Connections	
			Shipping	Operating	Water, OD	Condensate, ID
54.0 in	25.0 in	10.8 in	196 lb	166 lb	0.625 in	0.75 in
Cabinet						
Construction Type				Cabinet Type		
Standard Fiberglass Insulation				Flat Top		
Piping Hand		Cabinet Height		Discharge Grille		
Right Hand		High Sill - 25"		Standard 1-piece Steel		
		Color				
Cabinet		Subbase		Grille		
Antique Ivory		Oxford Brown		Oxford Brown		
Fan					Controls	
Type	Motor		Drive		Type	
	Type	Horsepower	Type			
Tangential	Standard PSC		0.056 HP		Direct	Microtech III Unit Controller - Standalone
(1) 37.25 in x 9.75 in x 0.5 in						

(1) 37.25 in x 9.75 in x 0.5 in

Options	
Heating	
Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
Controls	
Thermostat Mounting:	Unit Mounted Thermostat
Thermostat Type:	Non-Programmable
Control Transformer:	50VA Control Transformer

Warranty

Unit Warranty: 4 Yr Refrigerant Circuit Only Extended Parts Warranty, 1st Yr Labor Allowance

AHRI Certification



All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

Accessories

Optional	
Part Number	Description
107293071	MT III Infinity BACNet Comm Module for WSHF

MHC-W_015_HS_F_R_Features-Dim-Phys_Data_Drawing for 15 MBH Console

Certified Drawing	MHC-MHW-FT-HS-R-015 Specs
The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.	Group: WSHP
	Type: Console
	Date: August 2017

Console Water Source Heat Pump – Flat Top Unit, High Sill, Right Hand Models MHC/MHW – Unit Size 015

Cabinets - Selectable flat top or slope top cabinet configuration with multiple grille options. Individual panels- top, front and end panels are designed for easy removal and provides easy access to unit components for service and maintenance.

Compressor - High efficiency rotary type, using R-410A refrigerant with zero ozone depletion potential or phase-out date.

Gentleflo™ Fan - User selectable, multi-speed tangential fan system provides high efficiency and very quiet operation suitable for noise sensitive applications.

LED Annunciator - LED status lights display fault conditions to provide easy troubleshooting and diagnosis. Accessed by removing the left or right end panel to the control enclosure.

Filter - Units come standard with a 1/2" (12.7mm) thick disposable filter that is easy to access and replace without removing panels.

Hinged Control Box - Provides added accessibility to plumbing end compartment for easier access for service.

MicroTech® III Unit Controller - Designed for flexibility, the main control board is used in standalone applications. An optional I/O expansion module can be used to control electric heat and multiple fan speeds. A separate LonWorks® or BACnet® communication module can be easily snapped onto the board to accommodate the building automation system of your choice.

Double-Sloped Drain Pan - Made of durable, non-corrosive polymer, promotes positive condensate drainage for superior Indoor Air Quality (IAQ). Drain Pan is easy to remove for cleaning.

Air Dampers (Field-installed Accessory) - Motorized or manually operated outside air dampers provide ventilation air.

Unit Flexibility - Selectable for standard (boiler/tower) or extended range (geothermal) applications to achieve the highest efficiency for your application requirements.

Options (Factory Installed)

Indoor Air Quality (IAQ)

- ☐ Non-Fibrous Insulation - Closed-cell type (Rubatex)

Controls

- ☐ MicroTech III Unit Controller - Standalone operation
☐ LonWorks® Communication Module
☐ BACnet® Communication Module

Warranty

- ☐ Ext. 4-Yr. Parts (Compressor Only)
☐ Ext. 4-Yr. Parts (Refrigerant Circuit)

2-Way Motorized Valve Packages (Option)

Factory-installed or field-installed accessory for variable pumping applications. Other valve options available upon request.

Extended End Pocket (Option)

Selectable end pocket provides 11" of additional area inside the left or right hand end of the unit for piping, or a field-installed pump.

Multi-Directional Grilles (Option)

Selectable plastic Multi-Directional Grilles can rotate 90, 180 or 270 degrees for added control of discharge air direction.

Physical Data

Unit Size	015
Fan Wheel - Ø x W (in.)	4 1/4 x 35 1/4
Fan Motor Horsepower	1/15
Coil Face Area (Sq. Ft.)	2.22
Coil Rows	2
Refrigerant Charge (Oz.)	29.9
Filter, (Qty.) Size (Nominal)	(1) 37 1/2" W x 9 1/2" D
Water Connections (in.)	5/8 O.D.
Condensate Connections (in.)	3/4 I.D.
Weight, Operating (Lbs.)	166
Weight, Shipping (Lbs.)	196



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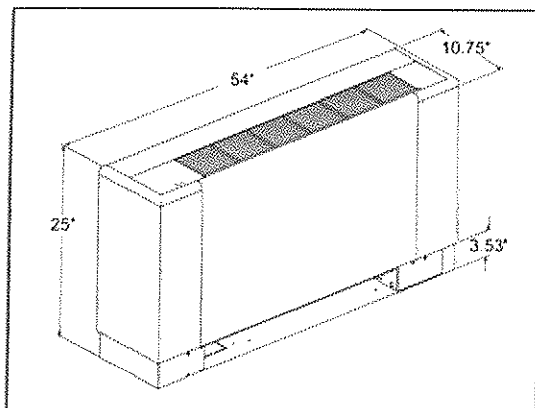
MHC-MHW-FT-HS-R-015 Specs / Page 1 of 2

MHC-W_015_HS_F_R_Features-Dim-Phys_Data_Drawing for 15 MBH Console

Flat Top Unit, High Sill, Right Hand Piping – Size 015

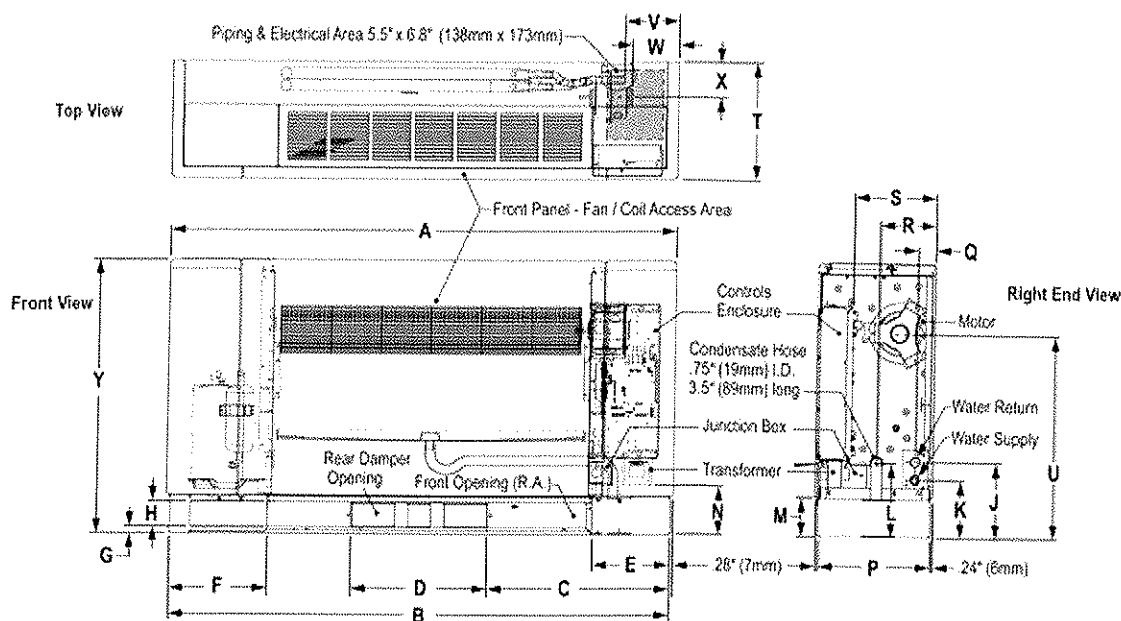
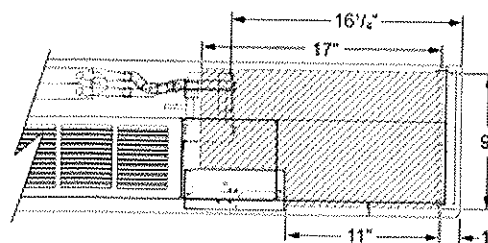
Left and right hand piping determined by facing the front of the unit.

Overall Unit Dimensions: 25"H x 54"W x 10 1/2"D



Extended End Pocket (Option) – Dimensions

Overall Unit Dimensions with Extended End Pocket: 25 1/2"H x 68"W x 10 1/2"D



Dimensions

Unit Size	A	B	C	D	E	F	G	H	J	K	L	M
015	54"	53 1/2"	20 1/2"	12 1/2"	7"	8 1/2"	0.6"	2 1/2"	6 1/2"	5 1/2"	6 1/2"	3 1/4"
	(1372mm)	(1356mm)	(516mm)	(318mm)	(181mm)	(225mm)	(14mm)	(57mm)	(175mm)	(132mm)	(172mm)	(90mm)
	N	P	Q	R	S	T	V	W	X	Y		
4 1/2"	10 1/2"	1 1/2"	8 1/2"	7 1/2"	19 1/2"	18 1/2"	4 1/2"	4 1/2"	3 1/2"	25"		
	(109mm)	(260mm)	(41mm)	(134mm)	(192mm)	(273mm)	(476mm)	(118mm)	(83mm)	(635mm)		

Note: Dimensions are approximate.



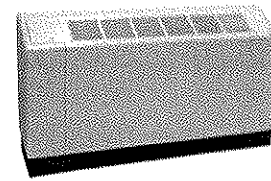
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MHC-MHW-FT-HS-R-015 Specs / Page 2 of 2

Technical Data Sheet for 18 MBH Console

Job Information

Job Name Richland County Courthouse 2021 WSHPs
Date 4/13/2021
Submitted By Daniel Bohm
Software Version 09.80
Unit Tag 18 MBH Console



Unit Overview

Stock Part Number	Voltage V/Hz/Phase	Air Flow CFM	Fluid Flow GPM	Cooling Capacity Btu/hr	Cooling Efficiency EER @ design	Heating Capacity Btu/hr	Heating Efficiency COP @ design
910283249	208-230/60/1	475	4.60	16837	16.63	20876	4.88

Unit

Model Number:	WMHC2018
Unit Type:	Console Standard Range
Unit Construction:	Standard Fiberglass Insulation
Approval:	None
Refrigerant Type	R-410A
Refrigerant Weight	33.0 oz

Unit Performance

Air & Water Flow

Airflow	Fluid Flow	Fluid Type	Fluid Pressure Drop
475 CFM	4.60 gpm / 3.07 gpm/ton	Water	3.45 ft H ₂ O

Cooling Performance

Fluid Temperature		Air Temperature				Capacity		Heat of Rejection	EER @ design
Entering	Leaving	Entering	Leaving	Entering	Leaving	Total	Sensible	Btu/hr	
°F	°F	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Btu/hr	Btu/hr		
°F	°F	°F	°F	°F	°F				
85.0	93.8	80.0	67.0	59.8	55.1	16837	10192	20293	16.63

Heating Performance

Fluid Temperature		Air Temperature		Capacity	Heat of Absorption	COP @ design
Entering	Leaving	Entering	Leaving	Total	Btu/hr	
°F	°F	Dry Bulb	Dry Bulb	Btu/hr		
°F	°F	°F	°F			
70.0	62.8	70.0	110.8	20876	16597	4.88

Electrical

Unit Voltage	Minimum Voltage	Total Unit MCA	Total Unit Full Load Current
208-230/60/1	187 V	8.2 A	6.7 A
Compressor RLA	Compressor LRA	Motor FLA	Maximum Recommended Fuse Size / HACR Breaker Size
6.20 A	32.0 A	0.5 A	15 A

*Short-Circuit Current = 5 kA rms symmetrical, 600 V maximum

Technical Data Sheet for 18 MBH Console

Physical						
Unit						
Length	Height	Width	Weight		Connections	
			Shipping	Operating	Water, OD	Condensate, ID
54.0 in	25.0 in	10.8 in	201 lb	171 lb	0.625 in	0.75 in
Cabinet						
Construction Type				Cabinet Type		
Standard Fiberglass Insulation				Flat Top		
Piping Hand		Cabinet Height		Discharge Grille		
Right Hand		High Sill - 25"		Standard 1-piece Steel		
Color		Grille				
Cabinet	Subbase	Grille				
Antique Ivory	Oxford Brown	Oxford Brown				
Fan					Controls	
Type	Motor	Drive		Type		
	Type	Horsepower	Type			
Tangential	Standard PSC	0.056 HP	Direct	Microtech III Unit Controller - Standalone		
(1) 37.25 in x 9.75 in x 0.5 in						

Options	
Heating	
Heat Exchanger:	Copper Inner Tube / Steel Outer Tube
Controls	
Thermostat Mounting:	Unit Mounted Thermostat
Thermostat Type:	Non-Programmable
Control Transformer:	50VA Control Transformer

Warranty	
Unit Warranty:	4 Yr Refrigerant Circuit Only Extended Parts Warranty, 1st Yr Labor Allowance

AHRI Certification	
	All equipment is rated and certified in accordance with AHRI / ISO 13256-1 and tested, investigated, and determined to comply with the requirements of the standards for Heating and Cooling Equipment UL-1995 for the United States and CAN/CSA-C22.2 NO.236 for Canada.

Accessories	
Optional	
Part Number	Description
107293071	MT III Infinity BACNet Comm Module for WSHP

MHC-W_018_HS_F_R_Features-Dim-Phys_Data_Drawing for 18 MBH Console

Certified Drawing		MHC-MHW-FT-HS-R-018 Specs
The Water Source Heat Pump product represented on this document will conform to the drawings and specifications set out below, in accordance with the express, written Limited Warranty. Purchaser's acceptance of this drawing certifies that the conforming equipment meets the order specifications. No changes may be made to this document without the prior, express, written authorization of the manufacturer.		Group: WSHP
		Type: Console
		Date: August 2017

Console Water Source Heat Pump – Flat Top Unit, High Sill, Right Hand Models MHC/MHW – Unit Size 018

Cabinets – Selectable flat top or slope top cabinet configuration with multiple grille options. Individual panels- top, front and end panels are designed for easy removal and provides easy access to unit components for service and maintenance.

Compressor – High efficiency rotary type, using R-410A refrigerant with zero ozone depletion potential or phase-out date.

Gentleflo™ Fan – User selectable, multi-speed tangential fan system provides high efficiency and very quiet operation suitable for noise sensitive applications.

LED Annunciator – LED status lights display fault conditions to provide easy troubleshooting and diagnosis. Accessed by removing the left or right end panel to the control enclosure.

Filter – Units come standard with a 1/2" (12.7mm) thick disposable filter that is easy to access and replace without removing panels.

Hinged Control Box – Provides added accessibility to plumbing end compartment for easier access for service.

MicroTech® III Unit Controller – Designed for flexibility, the main control board is used in standalone applications. An optional I/O expansion module can be used to control electric heat and multiple fan speeds. A separate LonWorks® or BACnet® communication module can be easily snapped onto the board to accommodate the building automation system of your choice.

Double-Sloped Drain Pan – Made of durable, non-corrosive polymer, promotes positive condensate drainage for superior Indoor Air Quality (IAQ). Drain Pan is easy to remove for cleaning.

Air Dampers (Field-installed Accessory) – Motorized or manually operated outside air dampers provide ventilation air.

Unit Flexibility – Selectable for standard (boiler/tower) or extended range (geothermal) applications to achieve the highest efficiency for your application requirements.

Options (Factory Installed)

Indoor Air Quality (IAQ)

- ☐ Non-Fibrous Insulation - Closed-cell type (Rubatex)

Controls

- ☐ MicroTech III Unit Controller - Standalone operation
☐ LonWorks® Communication Module
☐ BACnet® Communication Module

Warranty

- ☐ Ext. 4-Yr. Parts (Compressor Only)
☐ Ext. 4-Yr. Parts (Refrigerant Circuit)

2-Way Motorized Valve Packages (Option)

Factory-installed or field-installed accessory for variable pumping applications. Other valve options available upon request.

Extended End Pocket (Option)

Selectable end pocket provides 11" of additional area inside the left or right hand end of the unit for piping, or a field-installed pump.

Multi-Directional Grilles (Option)

Selectable plastic Multi-Directional Grilles can rotate 90, 180 or 270 degrees for added control of discharge air direction.

Physical Data

Unit Size	018
Fan Wheel - D x W (In.)	4 1/4 x 35 1/4
Fan Motor Horsepower	1/18
Coil Face Area (Sq. Ft.)	2.22
Coil Rows	3
Refrigerant Charge (Oz.)	32
Filter (Qty.) Size (Nominal)	(1) 37 1/2W x 9 1/2D
Water Connections (In.)	5/8 O.D.
Condensate Connections (In.)	3/4 I.D.
Weight, Operating (Lbs.)	171
Weight, Shipping (Lbs.)	201



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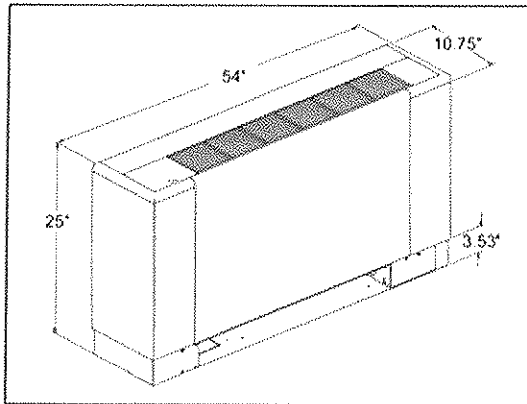
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MHC-W_018_HS_F_R_Features-Dim-Phys_Data_Drawing for 18 MBH Console

Flat Top Unit, High Sill, Right Hand Piping – Size 018

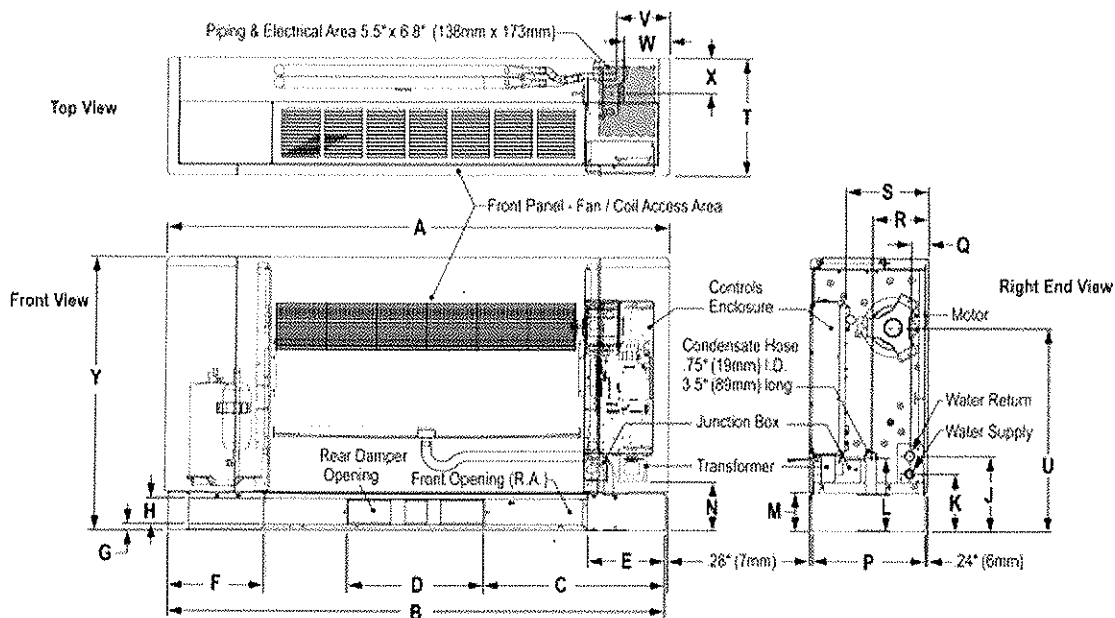
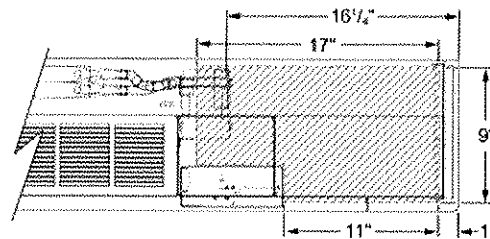
Left and right hand piping determined by facing the front of the unit

Overall Unit Dimensions: 25"H x 54"W x 10 1/2"D



Extended End Pocket (Option) – Dimensions

Overall Unit Dimensions with Extended End Pocket: 26 1/4" x 56 1/2" x 10 1/2"D



Dimensions

Unit Size	A	B	C	D	E	F	G	H	I	J	K	L	M
018	54"	53 1/2"	20 1/2"	12 1/2"	7"	8 1/2"	0 6"	2 1/4"	6 1/4"	5 1/2"	6 1/4"	3 1/2"	3 1/2"
	(1372mm)	(1356mm)	(519mm)	(318mm)	(181mm)	(225mm)	(14mm)	(57mm)	(175mm)	(132mm)	(172mm)	(90mm)	(90mm)
	N	P	Q	R	S	T	U	V	W	X	Y	Z	
4 1/2"	10 1/4"	1 1/2"	5 1/2"	7 1/2"	10 1/2"	18 1/2"	4 1/2"	4 1/2"	3 1/4"	25"			
	(260mm)	(41mm)	(134mm)	(192mm)	(279mm)	(476mm)	(118mm)	(108mm)	(83mm)	(635mm)			

Note: Dimensions are approximate



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