Sonja Birr

From:

Curtis Hall

Sent:

Thursday, November 9, 2023 8:03 AM

To:

Sonja Birr

Subject:

FW: Furnace replacement CAWG requests

Attachments:

20231031133511816.pdf; Comfort Series furnace 2021.pdf; Submittal_RheumePark.pdf; Pulaski Park Furnace CAWG request 10.31.23.pdf; Rheaume Park Furnace CAWG request 10.31.23.pdf; CAWG Approvals - Furnaces at Pulaski and Rheaume.pdf; CAWG Approval

JJ - Furnaces at Pulaski and Rheaume.pdf

Can you please ad this item to the next PI agenda.

Thanks,



Curtis Hall | City of Manitowoc Parks and Recreation Division Manager 3330 Custer Street Manitowoc, WI 54220

PARKS & RECREATION Phone: (920) 686-3061

Our Mission: The Manitowoc Parks and Recreation Divisions are committed to improving the quality of life for all Manitowoc's residents and visitors. This is accomplished by providing and promoting well maintained parks, facilities, and public open spaces as well as offering a variety of lifelong recreational opportunities and special events for people of all ages.

From: Erika Luebke <eluebke@manitowoc.org> Sent: Thursday, November 9, 2023 7:50 AM

To: Curtis Hall <chall@manitowoc.org>

Cc: Dan Koski <dkoski@manitowoc.org>; Shawn Alfred <salfred@manitowoc.org>; Brock Wetenkamp

<bwetenkamp@manitowoc.org>; Jeremy Walvoord <jwalvoord@manitowoc.org>

Subject: FW: Furnace replacement CAWG requests

Good Morning Curt,

This Unbudgeted request for furnace replacements at Rheaume Park and Pulaski Park have been approved unanimously by CAWG. Next steps are to go to your Parent Committee, and then Finance Committee. I have attached PDFs of the CAWG approvals.



Erika Luebke | Comptroller City of Manitowoc | Finance Dept. City Hall | 900 Quay St. | Manitowoc WI 54220 P: 920-686-6962 | F: 920-686-6969

Email: eluebke@manitowoc.org Website: www.manitowoc.org

The information contained in this message is confidential, It is intended only for the use of the individual or entity identified above. If the receiver of this message is not the intended recipient, you are hereby notified that the reading, distribution, use, or copying of this message is strictly prohibited. If you have received this message in error, please immediately notify the sender by replying to the address noted above and delete the message. Thank you.

From: Curtis Hall <chall@manitowoc.org>

Sent: Wednesday, November 1, 2023 10:30 AM

To: Dan Koski <dkoski@manitowoc.org>; Shawn Alfred <salfred@manitowoc.org>; Erika Luebke

<eluebke@manitowoc.org>; Brock Wetenkamp <bwetenkamp@manitowoc.org>

Cc: Jeremy Walvoord < jwalvoord@manitowoc.org> Subject: Furnace replacement CAWG requests

Hi all,

Attached are two cawg requests for furnace replacements at Rheaume Park and Pulaski Park. Both of these furnaces are way beyond their end of life. Our documentation leads us to believe the install date is '79 for Rheaume and '88 for Pulaski. Contractors professional opinion is that both of these units are at risk of failing any day and it would not be in our best interest to invest time and material into the existing furnaces.

Also a heads up that we have a number of other furnace units on our radar likely needing replacement in the near future. The biggest concerns/condition are the following:

LP Zoo Education building: 1996 units that are in really bad shape

LP Fieldhouse: Boiler that appears to be original to the building 1930's

Union Park Westfield Washington

Let me know if there is anything else you need from me.

Thanks,



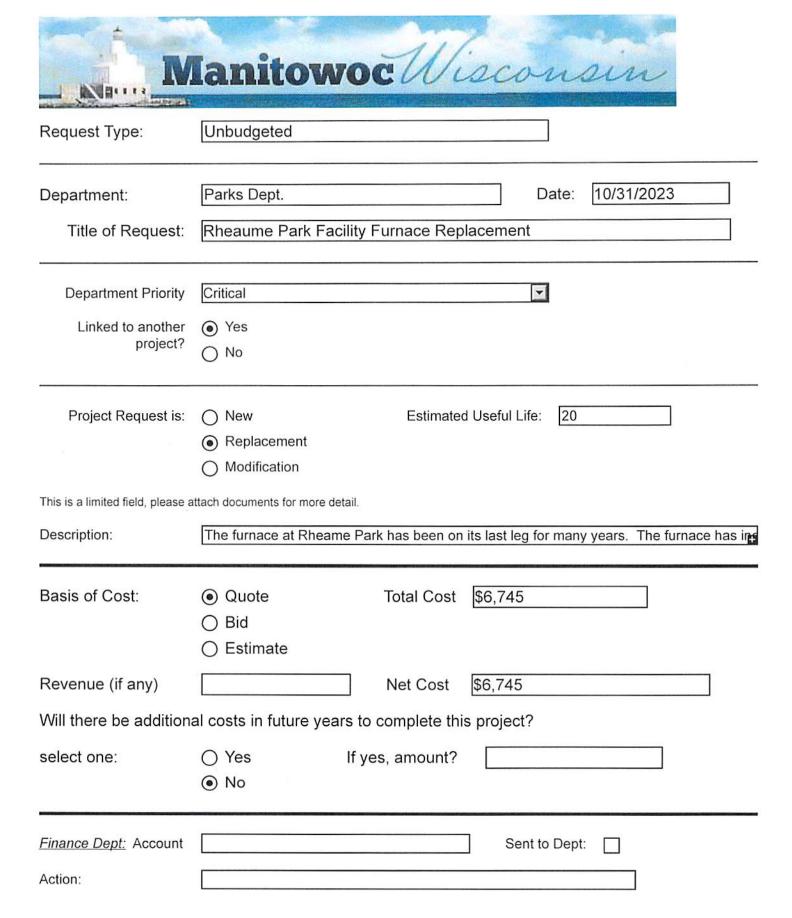
PARKS & RECREATION CITY OF MANITOWOO

Curtis Hall | City of Manitowoc Parks and Recreation Division Manager 3330 Custer Street Manitowoc, WI 54220

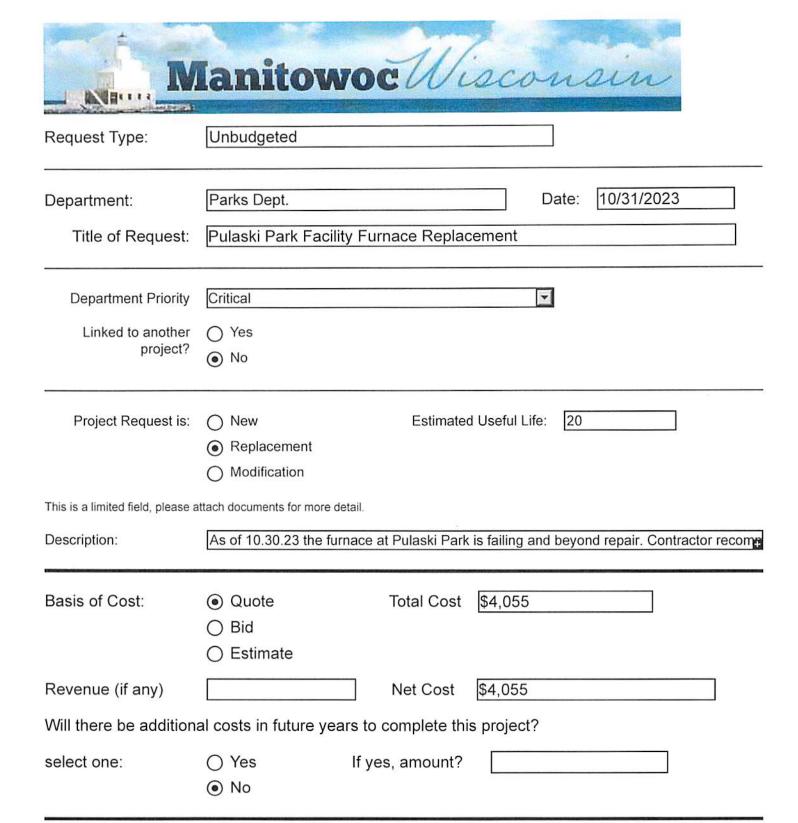
Phone: (920) 686-3061

Our Mission: The Manitowoc Parks and Recreation Divisions are committed to improving the quality of life for all Manitowoc's residents and visitors. This is accomplished by providing and promoting well maintained parks, facilities, and public open spaces as well as offering a variety of lifelong recreational opportunities and special events for people of all ages.

Capital Project Request Form



Capital Project Request Form



Sent to Dept:

Finance Dept: Account

Action:



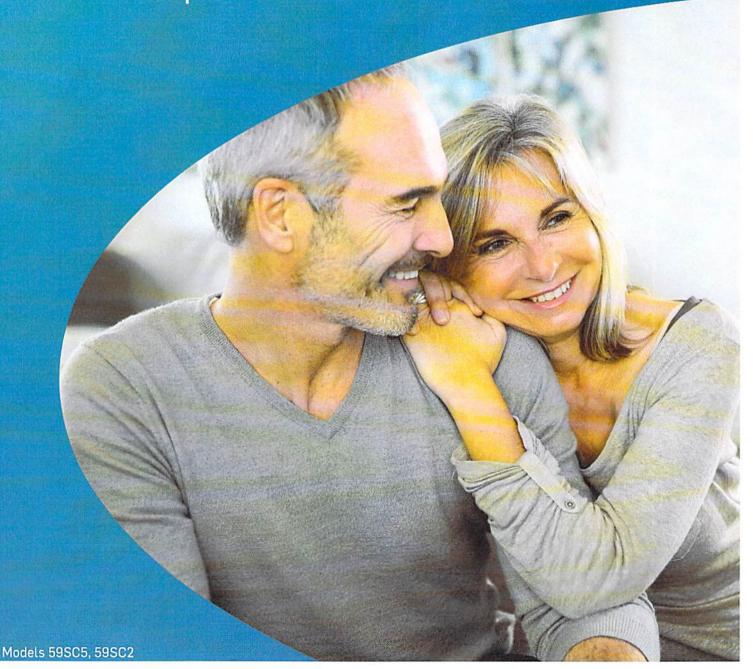
COMFORT™ SERIES CONDENSING GAS FURNACES

Carrier

LEARN MORE AT EMERGYSTACGOV

Qualifying Models Only

Consistent, high-efficiency comfort with up to 96.5% AFUE



DESIGNED WITH YOUR COMFORT IN MIND

Innovation, efficiency, quality: Our Carrier Comfort™ Series condensing gas furnaces include efficiency-optimizing components and built-in reliability to offer some of the best values in home heating. Comfort™ Series furnaces offer the Carrier quality, environmental stewardship and lasting durability that have endured for more than a century. And, to provide outstanding year-round efficiency with both gas and electric heating capabilities, your dealer can include a new Carrier heat pump and compatible thermostat to create a Hybrid Heat® dual-fuel system.





EFFICIENCY

AFUE (Annual Fuel Utilization Efficiency) ratings are like your car's MPG − the higher the number, the greater the potential for savings. Comfort™ Series furnaces offer a range of efficiencies that start at 92.1% AFUE and reach as high as 96.5% AFUE and the potential for some serious savings on gas heating costs.



DURABILITY

Our PowerHeat™ hot surface ignition is one of the most robust and durable ignition systems available. It eliminates the need for a pilot light, reducing gas usage and promoting more consistent operation.



HYBRID HEAT® SYSTEM

Combining a Comfort™ Series furnace, a Carrier heat pump and a compatible thermostat, our Hybrid Heat® system automatically switches between electric and gas heating to optimize the efficiency of each fuel source. It's a great way to help manage unpredictable utility costs.



LIMITED WARRANTY

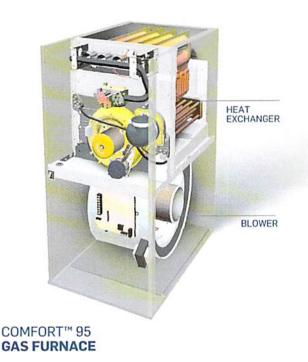
To the original owner, the Comfort™ 95 condensing gas furnace is covered by a 10-year parts and lifetime heat exchanger limited warranty and the Comfort™ 92 condensing gas furnace is covered by a 10-year parts and 20-year heat exchanger limited warranty upon timely registration. The limited warranty period is five years for parts and 20 years for the heat exchanger if not registered within 90 days of installation except in jurisdictions where warranty benefits cannot be conditioned upon registration. See warranty certificate at carrier.com for complete details and restrictions.

*Carrier manufactures gas furnaces that are among the quietest in the industry. We test our products in a sound laboratory specifically built to resemble a typical residence. Sound level recordings produced at steady state, single-stage operation (the most common operating condition), measured three feet from furnace. For comparison purposes, other sound levels published at https://www.asha.org/public/hearing/loud-noise-dangers/.

THE CARRIER DIFFERENCE

If you could look under the hood of a Carrier Comfort™ Series furnace, you'd see what drives the performance: a serious commitment to quality. To squeeze as much of the heating efficiency from the gas you use as possible, Comfort™ Series furnaces include two heat exchangers. The primary heat exchanger does most of the work while a secondary heat exchanger squeezes additional heating energy to balance savings and comfort.

The new ECM motor enables more fan-speed options in "constant on" mode. And, the PowerHeat™ hot surface ignition brings reliability and durability for years of comfort you can depend on and reduced gas usage due to eliminating the pilot light.



A RANGE OF COMFORT

Carrier delivers gas furnaces with a range of features and functionality. Check out this side-by-side comparison to see how our smart and efficient Comfort™ Series units measure up against our Infinity® and Performance™ models.

	Infinity® System	Performance™ Series	Comfort™ Series
Motor Performance	Fully-communicating, variable-speed ECM operation	Non-communicating, variable-speed ECM operation	Non-communicating, multi-speed ECM operation
Media Cabinet	Included	Optional accessory ordered separately	Optional accessory ordered separately
Efficiency	Up to 98.5% AFUE	Up to 96.5% AFUE	Up to 96.5% AFUE
Durability	Fully insulated, 20-gauge steel cabinet and doors	Fully insulated, 20-gauge steel cabinet and doors	Heating compartment insulation, 20-gauge steel cabinet and doors
Recommended Control [†]	Infinity® system control	ecobee Smart Thermostat, powered by Carrier	ecobee Smart Thermostat, powered by Carrier
Limited Warranty	10-year parts* Lifetime heat exchanger**	10-year parts* Lifetime heat exchanger**	10-year parts* Lifetime heat exchanger (59SC5)** 20-year heat exchanger (59SC2)

† Control sold separately, other options available.

* Upon timely registration, the warranty period is five years if not registered within 90 days of installation except where restricted by jurisdiction.

** Upon timely registration, the warranty period is 20 years if not registered within 90 days of installation except where restricted by jurisdiction.

For California Residents:

If installed with a mobile home conversion kit in SCAQMD only: Models 59SC5 and 59SC2 do not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus are subject to a mitigation fee of up to \$450. These furnaces are not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

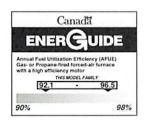
GAIN MORE CONTROL WITH A COMPLETE HOME COMFORT SYSTEM

Air Conditioner Evaporator Control or Heat Pump Coil Air Purifier Humidifier Ventilator (ALMAN) Combines fresh Wi-Fi®-enabled Provides Matches to the **Uses Captures &** Adds moisture smart thermostat efficient cooling Kills® technology to the air, helping outdoor air with proper outdoor unit to inactivate 99% conditioned indoor learns your or cooling/heating to provide more keep static and dry air for improved schedule for for comfort and cooling efficiency of select airborne skin at bay. greater efficiency potential energy and years of pathogens trapped air quality. and comfort. reliable service. by the filter, including savings. coronavirus, bacteria and other pathogens.1

MORE THAN A CENTURY OF COOL

In 1902, a determined engineer answered one of mankind's most nagging questions: How do we make hot, sticky, indoor air go away? In creating the world's first modern air conditioning system, Willis Carrier forever changed indoor life, and, more than a century later, the corporation that bears his name takes inspiration from his example.

Carrier strives to improve on our founder's breakthroughs, introducing new technologies that make life at home even cooler. Today, a nationwide network of experts continues to advance Willis Carrier's lifework. Your expert Carrier dealer is equipped to evaluate your home and create a customized system designed around your lifestyle.





Comfort

carrier.com 1-800-CARRIER ©2020 Carrier. All Rights Reserved.



¹ The Infinity® air purifier has demonstrated effectiveness against the murine coronavirus, based on third-party testing (2020) showing a >99% inactivation, which is a virus similar to the human novel coronavirus (SARS-CoV-2) that causes COVID-19. Therefore, the Infinity air purifier can be expected to be effective against SARS-CoV-2 when used in accordance with its directions for use. Third-party testing (2012, 2007) also shows ≥99% inactivation for the type of virus that causes common colds, Streptococcus pyogenes and human influenza. Airborne particles must flow through your HVAC system and be trapped by the Infinity filter to be inactivated at 99%. Learn how it works at Carrier.com/purifier.



2901 CALUMET AVENUE MANITOWOC, WI 54220-5599 PHONE (920) 684-5559 www.schausinc.com

		A CONTRACTOR OF THE PARTY OF TH	,		
Proposal Submitted To Manitowoc Parks And Recreation	Phone 920-686-306	61	Date 10 / 31 / 2023		
Street 3330 Custer Street		Job Name Lincoln Park Cabin # 2			
City, State and Zip Code Manitowoc, WI 54220		Job Location 1215 North	Rth Street		
Schaus Mechanical Contractors Inc	will propose t		o diect		
Removal and disposal of the existin	g furnace.				
Install a Carrier Comfort Series high	h efficiency fur	rnace to be ins	stalled in the same location.		
Duct modifications will be made to	accommodate	the new furna	ce including reconnection to the		
filter assembly. We will vent the furnace with PVC p	oipe and fitting	gs in the same	fashion with new pipe and fittings.		
Gas connection will be made and te	ested.				
We will install a drain line to the flo existing central air conditioning sys	or drain in the	e same configu	uration for the new furnace and		
A new thermostat will be installed i	ncluding low v	voltage wiring.			
A complete start up procedure will	be performed.				
Price installed for the Carrier Comfo					
NOTES. Line voltage electrical confi		ai periints are	included in our price.		
We Propose hereby to furnish material and labor – complete four house ful Payment to be made as follows:			dollars (\$ 4510).		
specifications involving extra costs will be executed only up	on written orders, and w	vill become an extra cha ner necessary insurance.	to standard practices. Any alteration or deviation from above trge over and above the estimate. All agreements contingent upon Our workers are fully covered by Workman's Compensation.		
Acceptance of Proposal – The above prices, specifications Are satisfactory and are hereby accepted. You are authoriz Work as specified.	and conditions ed to do the		•		
Date of Acceptance:					



2901 CALUMET AVENUE MANITOWOC, WI 54220-5599 www.schausinc.com

PHONE (920) 684-5559

Proposal Submitted To Manitowoc Parks And Recreation	Phone 920-686-306	51	Date 10 / 31 / 2023		
Street 3330 Custer Street		Job Name Pulaski Park Restroom Facility			
City, State and Zip Code Manitowoc, WI 54220		Job Location 1715 Columbus Street			
Schaus Mechanical Contractors Inc	will propose t	he following:			
Removal and disposal of the existing	g furnace.				
Install a Carrier Comfort Series high	efficiency fur	nace to be ins	stalled in the same location.		
Duct modifications will be made to a filter assembly.			1		
We will vent the furnace with PVC p		s in the same	fashion with new pipe and fittings.		
Gas connection will be made and te	With items of the control				
We will install a drain line to the floor existing central air conditioning sys	tem.		iration for the new furnace and		
A new thermostat will be installed in	ncluding low v	oltage wiring.			
A complete start up procedure will t	oe performed.				
Price installed for the Carrier Comfo					
We Propose hereby to furnish material and labor – complete in the survey of the payment to be made as follows:			dollars (\$ 4,055).		
specifications involving extra costs will be executed only upo	on written orders, and w ry fire, tornado and othe	ill become an extra cha er necessary insurance.	g to standard practices. Any alteration or deviation from above arge over and above the estimate. All agreements contingent upon Our workers are fully covered by Workman's Compensation.		
Acceptance of Proposal – The above prices, specifications a Are satisfactory and are hereby accepted. You are authorize Work as specified.		Signature			
Date of Acceptance:					



2901 CALUMET AVENUE MANITOWOC, WI 54220-5599 www.schausinc.com

PHONE (920) 684-5559

Proposal Submitted To Manitowoc Parks And Recreation	Phone 920-686-306	51	Date 10 / 31 / 2023		
Street	Street				
3330 Custer Street			rk Restroom Facility		
City, State and Zip Code Manitowoc, WI 54220		Job Location 1145 Fleetwo	ood Drive		
Schaus Mechanical Contractors Inc	will propose t		Jou Drive		
Removal and disposal of the existing		110 10110 11110			
Install a CaptiveAire direct fired hea		lled in the sar	ne location.		
Duct modifications will be made to a	accommodate				
filter assembly and outdoor air intal					
Gas connection will be made and tes	sted.				
A new control will be installed include	ding low volta	ge wiring.			
A complete start up procedure will b	be performed.				
NOTES: Line voltage electrical conne	ection and loc	al permits are	included in our price.		
We Propose hereby to furnish material and labor – complete in Six House Maynent to be made as follows:					
All material is guaranteed to be as specified. All work to be especifications involving extra costs will be executed only upor strikes, accidents or delays beyond our control. Owner to carr Authorized Signature NOTE: This proposal may be withdrawn by	n written orders, and wi ry fire, tornado and othe	ill become an extra char er necessary insurance.	rge over and above the estimate. All agreements contingent upon		
Acceptance of Proposal – The above prices, specifications at Are satisfactory and are hereby accepted. You are authorized Work as specified.		Signature			
Date of Acceptance:			¥		

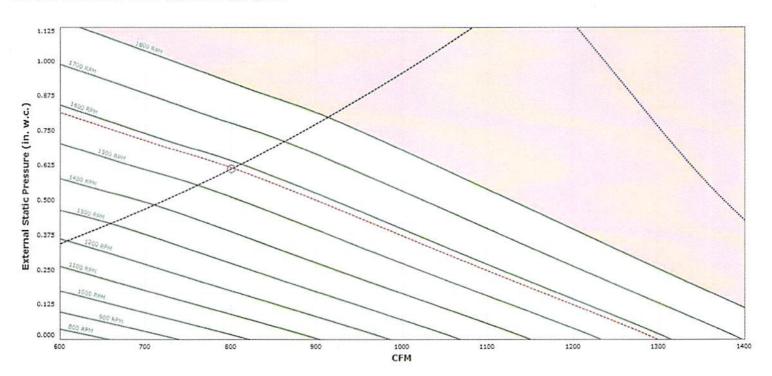


Job Name: Rheume Park

Date: October 25, 2023 10:17 AM

D76 (#1) Weight: 275 lbs.

Low CFM Direct Fired Heater. Direct Drive.



SUPPLY MOTOR

Model BMN48-750I1-E-60-115 • 1.000 HP, 1 Phs, 115 V, 60 Hz, 11.6 FLA, TEAO-ECM (Totally Enclosed Air Over Electronically Commutated Motor)

BURNER

Min Output BTU:	13,000 BTU/Hr	
Max Output BTU:	275,000 BTU/Hr	
Size:	6" long	
Gas Type:	Natural	

SUPPLY PERFORMANCE

800 CFM	RPM:	1581
2897 ft/min	BHP:	0.3330
0.615" w.g. (0.500"	Ext. + 0.115" Int.)	
0 ft		
	2897 ft/min 0.615* w.g. (0.500*	2897 ft/min BHP: 0.615* w.g. (0.500* Ext. + 0.115* Int.)

BLOWER

7° forward curved, centrifugal blower. Galvanized finish. 0-2000 CFM. 3600 max. RPM. Used in heated and non-heated supply fans. LH-RCD (Left Hub, Right Center Disk) 8 weldnuts. Replacement for Canarm G7DD. Requires G7DDMM motor mount. P/N G7D RH-

TEMPERATURE CONTROL

0-150°F Discharge Temp Control • Heating Activation Based On Intake Set Point Manual Blower Mode.Use with MUA.

INTAKE

Inline EZ Filter - 9154 MV EZ Kleen Metal Mesh Filter. 16"x 20"x 2"

AIRFLOW DIRECTION

· Side Discharge - Air Flow Right -> Left

FILTERS

 1x MV EZ Kleen Metal Mesh Filter. 16"x 20"x 2" Used for heater and supply fan intakes. (3412)

Altitude: 0 (1 Winter Outdoor Air Dry Bulb Temp: 0°F Temp Rise: 100°F Cutput BTU: 81649 Input BTU: 88749

BTUs Actual Air Density

SUPPLY INSTALLATION INFORMATION

MEALING SUMEDULE

Based Off:

Gas Pressure: 7 in. w.c. - 14 in. w.c.

Insurance No Insurance Requirement (ANSI)
Requirements:

Unit Voltage: 1 phs 115 V 60Hz

Unit Main Input: 16.6 Amps MCA - 25 Amps MOP - 115 V - 12 AWG Wire Min.

SCCR: 10 kAmp

CUNFIGURED OF HUNS

- . Gas Pressure Gauge, 0-35°, 2.5° Diameter, 1/4° Thread Size
- Gas Pressure Gauge, -5 to +15 Inches Wc., 2.5° Diameter, 1/4° Thread Size
- ECM Wiring Package and Manual or 0-10VDC Control for Supply EC motors. MUA BOARD, **DO NOT ORDER UNDER WARRANTY.**
- · Occupied Scheduling Defaulted for IBT/RTU.
- Freezestat factory set at 35°F and 10 minutes.

	(1581 RPM) AT	5 FT. IN OCTA					
1	2	3	4	5	6	7	8
80.7	86.2	82	77.8	74.8	69.1	66.1	64.2
LWA:	80.3	Sones:		16.9	DBA:	68.8	

Note: Sound data across operational range. Tested in accordance to AHRI Standard 270/370.

