



LIVING WITH HISTORY

Certificate of Appropriateness

Milwaukee Historic Preservation Commission/200 E. Wells Street/Milwaukee, WI 53202/phone 414-286-5712/fax 414-286-3004

Property 627 W. HISTORIC MITCHELL ST. Mitchell Street HD
Description of work Replace rooftop HVAC unit in existing location with new York unit.
Date issued 6/8/2018 PTS ID 114546 COA: replace rooftop hvac

In accordance with the provisions of Section 320-21 (11) and (12) of the Milwaukee Code of Ordinances, the Milwaukee Historic Preservation Commission has issued a certificate of appropriateness for the work listed above. The work was found to be consistent with preservation guidelines. The following conditions apply to this certificate of appropriateness:

No bare metal finishes are permitted on any equipment.

All work must be done in a craftsman-like manner, and must be completed within one year of the date this certificate was issued. Staff must approve any changes or additions to this certificate before work begins. Work that is not completed in accordance with this certificate may be subject to correction orders or citations. If you require technical assistance, please contact Historic Preservation staff as follows: Phone: (414) 286-5712 E-mail: hpc@milwaukee.gov.

If permits are required, you are responsible for obtaining them from the Milwaukee Development Center. If you have questions about permit requirements, please consult the Development Center's web site, www.milwaukee.gov/build, or call (414) 286-8210.

City of Milwaukee Historic Preservation Staff

Copies to: Development Center, Ald. Jose Perez, Contractor



Subject rooftop



Existing equipment



Large Sunline (15-25 Ton Package) N540

Project Name: CMS- DOGE 19014

Single Package R-410A Air Conditioner

Unit Model #: ZF240N30P2A1AAA1A1

System: ZF240N30P2A1AAA1A1

Quantity: 1

Cooling Performance	
Total gross capacity	260.4 MBH
Sensible gross capacity	180.3 MBH
Efficiency (at ARI)	9.80 EER
Integrated eff. (at ARI)	12.30 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Leaving DB temp.	58.1 °F
Leaving WB temp.	56.7 °F
Power input (w/o blower)	22.57 kW
Sound power	92 dB(A)
Refrigerant	
Refrigerant type	R-410A
Sys1	22 lbs
Sys2	23 lbs 8 oz
Gas Heating Performance	
Entering DB temp.	60 °F
Heating output capacity (Max)	240 MBH
Supply air	8000 CFM
Heating input capacity (Max)	300 MBH
Leaving DB temp.	87.8 °F
Air temp. rise	27.8 °F
SSE	80.0 %
Stages	2
Supply Air Blower Performance	
Supply air	8000 CFM
Ext. static pressure	0.4 IWG
Blower speed	860 RPM
Max BHP of Motor (including service factor)	5.75 HP
Duct location	Bottom
Motor rating	5.00 HP
Actual required BHP	5.30 HP
Power input	4.44 kW
Elevation	0 ft.
Drive type	BELT
Electrical Data	
Power supply	230-3-60
Unit min circuit amperacity	101.4 Amps
Unit max over-current protection	125 Amps
Dimensions & Weight	
Hgt.	53 in.
Len	137 in.
Weight with factory installed options	92 in. 2763 lbs.
Clearances	
Right	36 in.
Top	72 in.
Front	36 in.
Back	24 in.
Bottom	0 in.
Left	24 in.

Note: Please refer to the tech guide for listed maximum static pressures



20 Ton

York Sunline Units are Manufactured at an ISO 9001 Registered Facility and Each Rooftop is Completely Computer-Run Tested Prior to Shipment.

Unit Features

- Two Stage Cooling
- 300 MBH Input Aluminized Steel, Two Stage Gas Heat
- Full Perimeter Base Rails with Built in Rigging Capabilities
- Either Supply and/or Return can be Field Converted from Vertical to Horizontal Configuration without Cutting Panels
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards).
- Dual Refrigerant Circuits for Efficient Part Load Operation with Scroll Compressors
- 5 HP Standard Static Belt Drive Blower
- Unit Ships with 2" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 4 - (16" x 25" x 2" or 4") AND 4 - (16" x 20" x 2" or 4").
- Unit accepts 2" or 4" wide filters.
- Short Circuit Current: 5kA RMS Symmetrical
- Through-the-Curb and Through-The-Base Utility Connections
- Single Point Power Connection
- Standard Condenser Coil
- Standard Evaporator Coil
- Crane Required to Unload Unit
- Galvanized Steel Drain Pan
- Standard Access Doors

BAS Controller

- IntelliSpeed control of the VFD based on stages of cooling. Provides Single Zone VAV Fan Operation as defined by ASHRAE 90.1 section 6.4.3.10.
- Simplicity SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors

Standard Unit Controller: Simplicity Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without additional components or intervention.
- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers