



Jon Cooper  
City of Pembroke Pines  
Public Services Department, Utilities Division  
8300 South Palm Drive, Pembroke Pines, FL 33025  
(P): (954) 518-9093 (C): (954) 592-9638

8/7/25

RE: Pembroke Pines Blower Replacement Blower & Installation

Mr. Cooper  
It is our pleasure to provide you with a detailed proposal for one (1) Hoffman blowers, accessories, panels and mechanical/civil installation for the EAST Plant and two (2) for the WEST Plant. We offer you the following proposal for your consideration, including installation.

**Quantity One (1) Hoffman Model 75107 Multistage Centrifugal Air Blower with a capacity of 2900 SCFM at 8.2 PSIG Outlet Pressure, with 14.69 PSIA Barometer, 14.49 PSIA at blower inlet flange, 42 F, 100% RH to 98 F, 42% RH ambient intake air.**  
The blower will be Gardner Denver standard heavy-duty construction with cast iron inlet and outlet heads, cast iron intermediate sections, and aluminum-alloy impellers. The impellers will be assembled on a heavy steel shaft and supported by two outboard mounted ball bearings.  
The blower 12" inlet & 12" outlet flanges are drilled to 125# ANSI standards.  
The blower and motor will be mounted on a common structural steel base plate with the blower driven by a 150 HP electric motor, 3550 RPM, 3 phase, 60 hertz, 460 volt, TEFC enclosure, 40 C ambient, 1.15 service factor, Class F insulation, Class B temperature rise.  
The following accessories are included for each Blower Package:  
1 - Set Base Isolation Pads  
1 - Shaft coupling, non-spacer with composite Orange Peel coupling guard  
1 - Inlet air Filter/Silencer, 12" flange, Endustra P09, high flow synthetic filter media  
1 - Discharge Expansion Joint, 12"  
1 - Discharge Check Valve, 12", Wafer Style (Short Form)  
1 - Discharge Butterfly Valve, discharge isolation, 12", Wafer body, manual operator  
1 - Inlet butterfly valve, throttling service, 12", Wafer body, manual operator  
1 - Guardian-ONE blower local protection panel. Blower surge, motor overload protection, Blower bearing temperature, H-O-A selector switch, RESET push button.  
NEMA 12 wall mount type enclosure. Customer to provide 120 volts AC power to the panel.  
CT provide loose for field installation in the motor starter or MCC by others.

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Total Net Price with Freight for blower and accessories ..... \$ 175,550.00



**WEST:**

**Quantity TWO (2) Hoffman Model 75107 Multistage Centrifugal Air Blower with a design capacity of 3950 SCFM at 7.5 PSIG Outlet Pressure, with 14.69 PSIA Barometer, 14.49 PSIA at blower inlet flange, 40 F, 85% RH to 90 F, 85% RH ambient intake air. The blower will be Gardner Denver standard heavy-duty construction with cast iron inlet and outlet heads, cast iron intermediate sections, and aluminum-alloy impellers. The impellers will be assembled on a heavy steel shaft and supported by two outboard mounted ball bearings. The blower 12" inlet & 12" outlet flanges are drilled to 125# ANSI standards. The blower and motor will be mounted on a common structural steel base plate with the blower driven by a 200 HP electric motor, 3550 RPM, 3 phase, 60 hertz, 460 volt, TEFC enclosure, 40 C ambient, 1.15 service factor, Class F insulation, Class B temperature rise. The following accessories are included for each Blower Package:**

- 1 - Set Base Isolation Pads**
- 1 - Shaft coupling, non-spacer with composite Orange Peel coupling guard**
- 1 - Inlet air Filter/Silencer, 12" flange, Endustra P09, high flow synthetic filter media**
- 1 - Discharge Expansion Joint, 12"**
- 1 - Discharge Check Valve, 12", Wafer Style (Short Form)**
- 1 - Discharge Butterfly Valve, discharge isolation, 12", Wafer body, manual operator**
- 1 - Inlet butterfly valve, throttling service, 12", Wafer body, manual operator**
- 1 - Guardian-ONE blower local protection panel.**

**Blower surge and motor overload protection**  
**Blower bearing temperature,**  
**H-O-A selector switch,**  
**RESET push button.**  
**NEMA 12 wall mount type enclosure.**  
**Customer to provide 120 volts AC power to the panel.**  
**CT provide loose for field installation in the motor starter or MCC by others.**

**Total Net Price with Freight for blower and accessories ..... \$ 571,350.00**

**INSTALLATION SCOPE**

**Scope of Work:**

- 1. General Requirements
  - a. Mobilization & Demobilization to the jobsite
  - b. Temporary Facilities; office/tool trailer, port-o-lets, etc. (as required)
  - c. Coordination and Phasing of work with the Owner's Personnel
    - i. Plant Personnel to isolate each blower
    - ii. The work will require a temporary shutdown
  - d. Project Management & Field Supervision of the work (OSHA 30-Hr Certified)
  - e. General clean-up of the work area and site restoration (as required)



2. Scope of Work: Remove and replace (1 EA) Blower at the East Building and (2 EA) Blower at the West Building as follows:

- a. One blower will be removed and replaced at a time
- i. Owner to lock-out/tag-out and ensure isolated from system so piping/electrical can be removed.
- b. Demolish air piping, blower, concrete pads (as required) and electrical (as required)
- c. Form, rebar and pour equipment pads
- d. Installation of blower (furnished by TSC-Jacobs)
- e. Furnish & Install air piping (see attached draft drawings)
- f. Install blower control panel (furnished by TSC-Jacobs)
  
- h. Start-up and testing blower
- i. Owner to place blower back into service.
- j. Repeat steps a through I again the second and third blower.

3. Schedule

- a. The project duration is to be 270 days from the issuance of a City Purchase Order to final acceptance.

- Blower Process Piping
  - Install 12” discharge piping and pipe supports as needed from the discharge flange of the blowers to the existing flanges inside the building. This includes all elbows, straight pipe, off-sets and spool pieces with a 12”x14” flanged connection to existing pipe flange at wall. All piping will be carbon steel with no exterior coatings or interior lining.

- **Installation Pricing Schedule:**
  - Lump Sum Installation of Blowers.....\$396,240.00
  
- **TOTAL LUMP SUM PRICE OF THIS PROPOSAL INCLUDING BLOWERS, ACCESSORIES, CONTROL PANELS AND INSTALLATION... ..\$ 1,143,140.00**
  
- CITY BOND REQUIREMENTS .....\$50,000.00**
  
- TOTAL LUMP SUM PRICE OF THIS PROPOSAL .....\$1,193,140**

**Approximate Time Schedule:**

- a. The equipment submittals will take approximately 6-8 weeks after receipt of a purchase order.
- b. Once the submittals are approved and the equipment is released to be built by the owner the equipment will take 16-18 weeks to be completed and 1 week to for transportation.

- c. We anticipate the concrete pads to be formed, poured and stripped in 1 week. We would allow 1-week for the pads to cure, then 2-weeks to install the two blowers. In total, duration of the installation portion of the project should be approximately 5-6-weeks.
- d. The City of Pembroke Pines is imposing a \$150/day liquidated damages clause for each day after the 270 day project duration
- e. This work does not include the electrical installation or any other items other than the installation of pads, blowers and piping as indicated in this proposal.
- f. We will work the owner's electrical engineers and installing contractors of the electrical panel, so the work is coordinated properly.

**Notes:**

- Builder's Risk Insurance is to be provided by the Owner, or available upon request
- Permitting and permitting fees (FDEP, DOH or Local Building Department permitting is by others)
- Surveying, Engineering, Material Testing or Bacteriological Clearances, not included
- Bypass pumping or dewatering, not included
- Painting (see alternate)
- Electrical and Instrumentation & Controls Installation (By Others)
- General Liability, Auto and Worker's Compensation Insurances are included
- Federal, State and Local Sales Taxes are not included
- Utilities for construction (potable water & electric) shall be provided by the Owner and with-in 25' of the work area
- The pricing provided in this proposal is valid for 60 days.
- Working hours are from 7:00 AM to 5:00 PM. No weekend or overtime work has been included.
- We do not anticipate any phasing issues as these are new or redundant blowers
- Blower alignment, checkout and start-up is included.
- Training of the owner's staff is included.
- O&M Manuals will be provided.
- As built drawings are by others and not included in this proposal.
- Warranty will be (12) months from date of start-up

If you should have any questions on this proposal, please feel free to contact me.

Respectfully yours,

*Duggan Jacobs*

Duggan Jacobs

