



Request for Proposal

Ventilation Fans

Saskatoon Soccer Centre Inc. is seeking proposals to improve air movement and maintain comfort for athletes and spectators at the SaskTel Sports Centre; located at 150 Nelson Road, Saskatoon, Saskatchewan.

The project includes installation of ventilation fans to circulate air for each of our six indoor sports fields, measuring approximately 17,000 sq ft each. The facility itself is 167,000 sq ft total, and utilizes a HVAC system.

Tender 1.A

This proposal shall consist of a quantity of ten fans. Placement of HVLS fans to be determined in consultation with Saskatoon Soccer Centre Inc. and the HVLS fan manufacturer.

Design Requirements:

- HVLS fan size shall be 20 feet diameter, have a 2 HP high efficiency motor, as manufactured by NORD and feature a Unibase design.
- Power consumption shall not exceed 1,403 W and 6.3 Amps at 230 volts.
- Air flow shall be 330,050 CFM at 63 RPM.
- Weight shall not exceed 350 lbs (excluding mount)
- Fans shall be complete with five extruded anodized aluminum blades positioned at 21 degree including tubercle technology on the leading edge (high impact polystyrene)
- Stabilization of the fan shall be provided by four 1/8" stainless steel guy wires to avoid unnecessary and large movements from the fan.
- The Variable Frequency Drive shall be rated NEMA 4X and be factory programmed to provide soft start/stop, variable speed control capability, current limit and motor overload protection for the fan. The VFD shall be factory installed on the fan frame.
- Each control shall be forward/reverse compatible and is to include Low Voltage Key Pad controller for remote operation.

Fire Protection Requirements:

- The fan shall be capable of receiving a stop command from the fire panel, or any number of smoke, flame or heat detectors.
- The fan shall meet the air velocity requirements of FM Global 2.0 data sheet for ESFR and meet the requirements of NFPA 13 in regards to blocking obstructions below sprinkler heads.

- When the fan is shut off upon fire detection, the fan shall come to a complete stop in less than 45 seconds.

Warranty Requirements:

- Air Foil Shaped Blade: Lifetime Warranty.
- Aluminum Alloy Hub: Lifetime Warranty.
- Gear Motor: 15 Year Warranty.
- Gear Reducer: 15 Year Warranty.
- VFD Control Panel: 15 Year Warranty.

Quantity of eight required

Design Requirements:

- HVLS fan size shall be 24 feet diameter, have a 2 HP high efficiency motor, as manufactured by NORD and feature a Unicase design.
- Power consumption shall not exceed 1,403 W and 6.3 Amps at 230 volts.
- Air flow shall be 397,701 CFM at 57 RPM.
- Weight shall not exceed 370 lbs (excluding mount)
- Fans shall be complete with five extruded anodized aluminum blades positioned at 21 degree including tubercle technology on the leading edge (high impact polystyrene)
- Stabilization of the fan shall be provided by four 1/8" stainless steel guy wires to avoid unnecessary and large movements from the fan.
- The Variable Frequency Drive shall be rated NEMA 4X and be factory programmed to provide soft start/stop, variable speed control capability, current limit and motor overload protection for the fan. The VFD shall be factory installed on the fan frame.
- Each control shall be forward/reverse compatible and is to include Low Voltage Key Pad controller for remote operation.

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- When the fan is shut off upon fire detection, the fan shall come to a complete stop in less than 45 seconds.

Warranty Requirements:

- Air Foil Shaped Blade: Lifetime Warranty.
- Aluminum Alloy Hub: Lifetime Warranty.
- Gear Motor: 15 Year Warranty.
- Gear Reducer: 15 Year Warranty.
- VFD Control Panel: 15 Year Warranty.

Quantity of two required

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All bidders shall include a delivery and installation schedule, as required. The owner reserves the right to accept or reject any or all offers. A site visit for bidders will be held **Monday, April 3rd at 2 pm** at the SaskTel Sports Centre, second floor meeting room.

Please submit a Sealed Tender to the address below no later than **2:00 pm local time, Monday, April 10th, 2017**.

This project is partially funded by the governments of Canada and Saskatchewan through the Canada 150 Community Infrastructure Program.