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## 238220 - Fans

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**SECTION 23 8220 – FANS**

1.1 SUMMARY

A. Section Includes:

1. Centrifugal fans.
2. In-line centrifugal fans.
3. Roof centrifugal fans.

B. See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.

1.2 GENERAL

A. Manufacturers:

1. Loren Cook.
2. Greenheck.
3. Twin City.

B. Fans shall be constructed and rated in accordance with AMCA.

C. All fans of any one type shall be of the same manufacturer.

D. Provide epoxy coating finish as a minimum with additional protective coatings on fans as required by project conditions.

E. Provide AMCA spark resistant construction option: A, B, or C as required by project conditions.

F. Provide open drip-proof NEMA Premium Efficiency rated motor rated for compatibility with variable frequency drives where applicable. Select non-overloading motors at all points on the RPM operating curve.

G. Class of fan shall be determined by the duty specified plus a 15 percent increase in speed.

H. Provide heavy-duty, grease-lubricated, precision anti-friction ball or roller, self-aligning, bearings selected for minimum average life (AFBMA L10) of 200,000 hours.

END OF SECTION 23 8220