

**Granite School District**  
**Unimaster® Dust Collector for Brockbank Junior High School**

**Torit Donaldson UMA750 Explosion Protected Dust Collector**

Furnish as complete intermittent duty, shaker fabric filter dust collection as shown on the plans and/or listed on the equipment schedule. The system shall provide cleaning for a volumetric flow rate of 4250 ACFM @ 10" Static. The collector system shall have a minimum of 750 square feet of 8 oz woven polyester filter media operating at an air to media ratio of 5.6 to 1.

The collector will include a fan section, filter section and hopper(s) with legs and quick release seal mechanism for connection to integral dust bin.

The collector housing, hopper(s) and supports shall be constructed of carbon steel and the housing reinforced for maximum pressure of the integral fan.

The interior and exterior of the collector housing will have a baked on powder paint finish. All internal components shall have a baked on electrophoretically applied epoxy paint finish.

The collector will have mechanism designed to accept (2) 55-gallon drum (no fasteners or clamps are required). The hopper(s) shall have a deflector plate at the dirty air inlet to direct large particles directly into the dust bin and distribute the air. The hopper shall be supplied with covered openings so air inlets may be located on either side or the rear. Dust laden air will flow upward into the filter section which shall contain a single, multi-envelope filter with spring steel wire mesh inserts fitted with wear liners. The slide out filter assembly shall be supported on runners retained by a quick release lever. The filtered air shall flow into the fan section. The fan shall be a wheel design directly driven by a 20 HP, 3450 RPM, 208-230/460 V, 60 Cy, 3 Ph TEFC motor.

Filter cleaning occurs after each fan shut down. Filter shaking is via an eccentric mounted on  $\frac{3}{4}$  HP, 208-230/460 V, 60 Cy, 3 Ph TENV motor located on the side of the housing.

A controller shall be furnished, consisting of start/clean pushbuttons, timer and motor contactors with overloads for the fan and shaker motors, all in a NEMA 12 enclosure. The controller shall automatically activate the filter shaker motor for 35 seconds each time the fan is shut off. Controller shall be mounted indoors for push button start/stop.

The collector will be supplied with lift-off hinged doors for access to the fan and filter chamber. No tools shall be required for filter removal and replacement.

The fan shall discharge into a special fan chamber designed for noise reduction. The noise level shall not exceed 79 db(A) at 1 meter radius from the collector housing.

The collector shall be a Donaldson® Torit® Unimaster Model UMA750 Explosion Protected as manufactured by Donaldson Company, Inc.

- Contractor to bid removal and disposal of existing dust collector.
- Ducting from current ducting to new dust collector
- Installation of new dust collector and ducting
- Freight to job site 84118

**Granite School District**  
**Unimaster® Dust Collector for Kearns High School**

**Torit Donaldson UMA750 Explosion Protected Dust Collector**

Furnish as complete intermittent duty, shaker fabric filter dust collection as shown on the plans and/or listed on the equipment schedule. The system shall provide cleaning for a volumetric flow rate of 6100 ACFM @ 10" Static. The collector system shall have a minimum of 750 square feet of 8 oz woven polyester filter media operating at an air to media ratio of 8 to 1.

The collector will include a fan section, filter section and hopper(s) with legs and quick release seal mechanism for connection to integral dust bin.

The collector housing, hopper(s) and supports shall be constructed of carbon steel and the housing reinforced for maximum pressure of the integral fan.

The interior and exterior of the collector housing will have a baked on powder paint finish. All internal components shall have a baked on electrophoretically applied epoxy paint finish.

The collector will have mechanism designed to accept (2) 55-gallon drum (no fasteners or clamps are required). The hopper(s) shall have a deflector plate at the dirty air inlet to direct large particles directly into the dust bin and distribute the air. The hopper shall be supplied with covered openings so air inlets may be located on either side or the rear. Dust laden air will flow upward into the filter section which shall contain a single, multi-envelope filter with spring steel wire mesh inserts fitted with wear liners. The slide out filter assembly shall be supported on runners retained by a quick release lever. The filtered air shall flow into the fan section. The fan shall be a wheel design directly driven by a 30 HP, 3450 RPM, 208-230/460 V, 60 Cy, 3 Ph TEFC motor.

Filter cleaning occurs after each fan shut down. Filter shaking is via an eccentric mounted on ¾ HP, 208-230/460 V, 60 Cy, 3 Ph TENV motor located on the side of the housing.

A controller shall be furnished, consisting of start/clean pushbuttons, timer and motor contactors with overloads for the fan and shaker motors, all in a NEMA 12 enclosure. The controller shall automatically activate the filter shaker motor for 35 seconds each time the fan is shut off. Controller shall be mounted indoors for push button start/stop.

The collector will be supplied with lift-off hinged doors for access to the fan and filter chamber. No tools shall be required for filter removal and replacement.

The fan shall discharge into a special fan chamber designed for noise reduction. The noise level shall not exceed 79 db(A) at 1 meter radius from the collector housing.

The collector shall be a Donaldson® Torit® Unimaster Model UMA750 Explosion Protected as manufactured by Donaldson Company, Inc.

- Contractor to bid removal and disposal of existing dust collector.
- Ducting from current ducting to new dust collector
- Installation of new dust collector and ducting
- Freight to job site 84118

**Granite School District**  
**Unimaster® Dust Collector for Kearns Junior High School**

**Torit Donaldson UMA450 Explosion Protected Dust Collector**

Furnish as complete intermittent duty, shaker fabric filter dust collection as shown on the plans and/or listed on the equipment schedule. The system shall provide cleaning for a volumetric flow rate of 2450 ACFM @ 6" Static. The collector system shall have a minimum of 450 square feet of 8 oz woven polyester filter media operating at an air to media ratio of 5.4 to 1.

The collector will include a fan section, filter section and hopper(s) with legs and quick release seal mechanism for connection to integral dust bin.

The collector housing, hopper(s) and supports shall be constructed of carbon steel and the housing reinforced for maximum pressure of the integral fan.

The interior and exterior of the collector housing will have a baked on powder paint finish. All internal components shall have a baked on electrophoretically applied epoxy paint finish.

The collector will have mechanism designed to accept (2) 55-gallon drum (no fasteners or clamps are required). The hopper(s) shall have a deflector plate at the dirty air inlet to direct large particles directly into the dust bin and distribute the air. The hopper shall be supplied with covered openings so air inlets may be located on either side or the rear. Dust laden air will flow upward into the filter section which shall contain a single, multi-envelope filter with spring steel wire mesh inserts fitted with wear liners. The slide out filter assembly shall be supported on runners retained by a quick release lever. The filtered air shall flow into the fan section. The fan shall be a wheel design directly driven by a 15 HP, 3450 RPM, 208-230/460 V, 60 Cy, 3 Ph TEFC motor.

Filter cleaning occurs after each fan shut down. Filter shaking is via an eccentric mounted on 1/3 HP, 208-230/460 V, 60 Cy, 3 Ph TENV motor located on the side of the housing.

A controller shall be furnished, consisting of start/clean pushbuttons, timer and motor contactors with overloads for the fan and shaker motors, all in a NEMA 12 enclosure. The controller shall automatically activate the filter shaker motor for 35 seconds each time the fan is shut off. Controller shall be mounted indoors for push button start/stop.

The collector will be supplied with lift-off hinged doors for access to the fan and filter chamber. No tools shall be required for filter removal and replacement.

The fan shall discharge into a special fan chamber designed for noise reduction. The noise level shall not exceed 82 db(A) at 1 meter radius from the collector housing.

The collector shall be a Donaldson® Torit® Unimaster Model UMA750 Explosion Protected as manufactured by Donaldson Company, Inc.

- Contractor to bid removal and disposal of existing dust collector.
- Ducting from current ducting to new dust collector
- Installation of new dust collector and ducting
- Freight to job site 84118