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**XCUE Specification**

Roof Upblast, Direct Driven Fan

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Provide Accurex Exhaust Fan Model XCUE as shown on plans and in accordance with the following

specification:

Roof exhaust fans shall be upblast centrifugal direct drive type. The fan wheel shall be centrifugal

backward inclined and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced.

The fan housing shall be constructed of heavy gauge aluminum with a rigid internal support structure.

Wind bands shall have a rolled bead for added strength and shall be joined to curb caps with a leak proof,

continuously welded seam.

Motors shall be mounted out of the airstream on vibration isolators. Fresh air for motor cooling shall be

drawn into the motor compartment from an area free of discharge contaminants. Motors shall be readily

accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box either within or outside of the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring for applications when national and local code restrictions allow.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's engraved metal nameplate containing the model number and individual serial number for future identification.

Fans shall be listed by Underwriters Laboratory for UL/cUL 705 Supplement SC or UL/cUL 705 where applicable.

Fans shall be Model XCUE as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XCUBE Specification**

Roof Upblast, Belt Driven Fan

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Provide Accurex Exhaust Fan Model XCUBE as shown on plans and in accordance with the following

specification.

Roof exhaust fans shall be upblast centrifugal belt drive type. The fan wheel shall be centrifugal

backward inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet

cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan

housing shall be constructed of heavy gauge aluminum with a rigid internal support structure. Wind

bands shall have a rolled bead for added strength and shall be joined to curb caps with a leak proof,

continuously welded seam.

Motors shall be heavy duty ball bearing type, carefully matched to the fan load, and furnished at the

specified voltage, phase and enclosure. Motors and drives shall be mounted on vibration isolators, out of

the airstream. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of

discharge contaminants. Motors shall be readily accessible for maintenance. Drive frame assemblies

shall be constructed of heavy gauge steel and mounted on vibration isolators.

Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block

ball bearings. Bearings shall be selected for a minimum (L10) life in excess of 100,000 hours at maximum

cataloged operating speed. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys

shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts.

Motor pulleys shall be adjustable for final system balancing. A disconnect switch shall be factory installed

and wired from the fan motor to a junction box installed either within or outside of ~~within~~ the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring for applications when national and local code restrictions allow.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Each fan shall bear a permanently affixed manufacturer's engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be listed by Underwriters Laboratory for UL/cUL 705 Supplement SC or UL/cUL 705 where applicable.

Fans shall be Model XCUBE as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XRUBS Specification**

Roof Upblast, Belt Driven Grease Fan

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Provide Accurex Exhaust Fan Model XRUBS as shown on plans and in accordance with the following

specification:

Spun steel exhaust fans shall be centrifugal belt driven type. Fan wheel shall be centrifugal backward

inclined type. The wheel shall be constructed of steel and coated with a nonstick coating Wheel shall include a wheel cone carefully matched to the inlet

cone for precise running tolerances. Wheels shall be statically and dynamically balanced.

The fan housing shall be constructed of 16 gauge galvanneal steel with a rigid internal support structure

and shall be leak proof. The fan housing shall be constructed with a one-piece wind band with an integral

rolled bead for added strength and shall be joined to the curb cap with a continuous robotically welded

seam. Fan's wind band shall have a Clean Out Port, consisting of a 4-inch diameter hole on the outside

of the fan's wind band with a grease repellent compression rubber fit, allowing access to entire wheel for

cleaning.

Motors shall be heavy duty ball bearing type, carefully matched to the fan load, and furnished at the

specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy gauge

galvanized steel. Motors and drives shall be mounted on heavy duty true vibration isolators, out of the

airstream. Fresh air for motor cooling shall be drawn into the motor compartment through a ten square

inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

Precision ground and polished 1-inch minimum diameter fan shafts shall be mounted in cast pillow block

lubricatable ball bearings. Bearings shall be selected for a minimum L10 life in excess of 100,000 hours

(L50 life of 500,000 hours) at maximum cataloged operating speed. Dual drives shall be sized for a

minimum of 150% of driven horsepower. Pulleys shall be of the cast type, keyed and securely attached to

the wheel and motor shafts. Motor pulleys shall be adjustable for final system balancing. All fans shall

have a dual belt and pulley system. A NEMA-3R disconnect switch shall be factory installed and wired

from the fan motor to a junction box installed outside the motor compartment.

Hinge kit shall be factory mounted to a separate base and constructed of heavy gauge hinges and shall

The unit shall collect grease and water from the fan and extract the grease from the water for ease of grease disposal.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Each fan shall bear a permanently affixed manufacturer's engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be listed by Underwriters Laboratory for UL/cUL 705 Supplement SC Listed for all electrical components andgrease removal.

Fans shall be Model XRUBS as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XQEI Specification**

Belt Drive, Mixed Flow Inline Fan

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Provide Accurex Exhaust Fan Model XQEI as shown on plans and in accordance with the following

specification:

Each fan shall be belt drive in AMCA arrangement 9.

Tubular fan housing, mixed flow wheel and bearing support shall be constructed of welded steel members

to prevent vibration and rigidly support the shaft and bearings. All mixed flow fan housings shall include

welded steel vanes to straighten airflow prior to exiting the fan discharge. Fans are to be equipped with;

lifting lugs, an access door for impeller inspection and service, 1 inch drain connection, and OSHA

compliant motor cover that also completely covers the motor pulley and belt(s).

Fan impeller shall be mixed flow design. The impeller shall be electronically balanced both statically and

dynamically to balance grade G6.3 per ANSI S2.19.

Tubular fan housing and mixed flow wheel shall be completely welded and coated with a minimum of 2-4

mils of Permatector (Polyester Urethane), electrostatically applied and baked. Finish color shall be RAL

7023, concrete grey. No uncoated metal fan parts will be allowed.

Motors shall meet or exceed EISA (Energy Independence and Security Act) efficiencies. Motors to be

NEMA T-frame, 1800 or 3600 RPM, Open Drip Proof (ODP) with a 1.15 service factor. Drive belts and

sheaves shall be sized for 150% of the fan operating brake horsepower, and shall be readily and easily

accessible for service, if required.

Fan shaft to be turned and polished steel that is sized so the first critical speed is at least 25% over the

maximum operating speed for each pressure class.

Fan shaft bearings shall be Air Handling Quality, bearings shall be heavy-duty grease lubricated,

self-aligning or roller pillow block type. Bearings shall be selected for a basic rating fatigue life (L-10)

of 120,000 hours at maximum operating speed for each pressure class {Average Life or (L-50) of

600,000 hours}. Bearings shall be fixed to the fan shaft using concentric mounting locking collars,

which reduce vibration, increase service life, and improve serviceability. Bearings that use set screws

shall not be allowed. Bearings shall have extended lube lines with Zerk fittings to allow for lubrication.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Each fan shall bear a permanently affixed manufacturer's engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be listed by Underwriters Laboratory for UL/cUL 762 Listed for all electrical components and

grease removal.

Fans shall be Model XQEI as manufactured by Accurex.

**XID Specification**

Duct Mounted, Direct Drive Inline Fan

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Provide Accurex Fan Model XID as shown on plans and in accordance with the following specification:

Duct mounted supply, exhaust or return fans shall be of direct drive, mixed flow, in-line type.

The fan housing shall be of the square design, constructed of heavy gauge galvanized steel.

Fan construction shall include two removable access panels located perpendicular to the motor mounting

panel. The access panels must be sufficient size to permit easy access to all interior components.

The fan wheel shall be mixed flow, constructed of composite or aluminum and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced.

Motors shall be permanently lubricated and carefully matched to the fan loads. Motors shall be readily

accessible for maintenance.

A NEMA 1 disconnect switch shall be provided as standard, except with explosion resistant motors,

where disconnects are optional. Factory wiring shall be provided from motor to the handy box.

All fans shall bear the AMCA Certified Ratings Seal for both sound, air and FEI performance.

Each fan shall bear a permanently affixed manufacturer's nameplate containing the model number and

individual serial number for future identification.

Fans shall be Model XID as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XREB Specification**

Roof Exhaust, Belt Driven Fan

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Provide Accurex Exhaust Fan Model XREB as shown on plans and in accordance with the following

specification:

Roof exhaust fans shall be centrifugal belt driven type. The fan wheel shall be centrifugal backward

inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet cone for

precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall

be constructed of heavy gauge aluminum with a rigid internal support structure. The fan shroud shall

have a rolled bead for added strength.

Motors shall be heavy duty ball bearing type, carefully matched to the fan load, and furnished at the

specified voltage, phase and enclosure. Motors and drives shall be mounted on vibration isolators, out of

the airstream. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of

discharge contaminants. Motors shall be readily accessible for maintenance.

Drive frame assemblies shall be constructed of heavy gauge steel and mounted on vibration isolators.

Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block

ball bearings. Bearings shall be selected for a minimum (L10) life in excess of 100,000 hours at

maximum cataloged operating speed. Drives shall be sized for a minimum of 150 percent of driven

horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the

wheel and motor shafts. Motor pulleys shall be adjustable for final system balancing.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box installed

within the motor compartment.

A fan conduit chase shall be provided through the curb cap to the motor compartment for ease of

installation.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Each fan shall bear a permanently affixed manufacturer's nameplate containing the model number and

individual serial number for future identification.

Fans shall be Model XREB as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XRED Specification**

Roof Exhaust, Direct Driven Fan

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Provide Accurex Exhaust Fan Model XRED as shown on plans and in accordance with the following

specification:

Roof exhaust fans shall be centrifugal direct drive type. The fan wheel shall be centrifugal backward

inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet cone for

precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing and

shroud shall be constructed of heavy gauge aluminum and shall include a wheel cone carefully matched

to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced.

The fan housing and shroud shall be constructed of heavy gauge aluminum with a rigid internal support

structure. The fan shroud shall have a rolled bead for added strength. Motors shall be mounted out of

the airstream on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment

from an area free of discharge contaminants. Motors shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the motor compartment for ease of

electrical wiring.

All fans shall bear the AMCA Certified Ratings Seal for sound and air performance.

Each fan shall bear a permanently affixed manufacturer's nameplate containing the model number and

individual serial number for future identification.

Fans shall be Model XRED as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XRAE Specification**

Roof Exhaust, Direct Drive Fan

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Provide Accurex Exhaust Fan Model XRAE as shown on plans and in accordance with the following

specification:

The fan propeller shall be constructed of aluminum with a swept, steeply pitched blade. A standard

setscrew shall lock the propeller to the motor shaft. Propellers shall be statically and dynamically

balanced.

The fan housing shall be constructed of heavy-gauge aluminum with a rigid internal support structure and

a birdscreen.

Motors shall be permanently lubricated, heavy-duty type, carefully matched to the fan load and furnished

at the specified RPM, voltage, phase, and enclosure. Motors shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the

motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment

for ease of electrical wiring.

All fans shall bear the AMCA Certified Ratings Seals for Sound and Air Performance.

Each fan shall bear a permanently affixed manufacturer’s engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be model XRAE as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XRAS Specification**

Roof Supply, Direct Drive Fan

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Provide Accurex Supply Fan Model XRAS as shown on plans and in accordance with the following

specification:

The fan propeller shall be constructed of aluminum with a swept, steeply pitched blade. A standard

setscrew shall lock the propeller to the motor shaft. Propellers shall be statically and dynamically

balanced.

The fan housing shall be constructed of heavy-gauge aluminum with a rigid internal support structure and

a birdscreen.

Motors shall be permanently lubricated, heavy-duty type, carefully matched to the fan load and furnished

at the specified RPM, voltage, phase, and enclosure. Motors shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the

motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment

for ease of electrical wiring.

All fans shall bear the AMCA Certified Ratings Seals for Sound and Air Performance.

Each fan shall bear a permanently affixed manufacturer’s engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be model XRAS as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XRS Specification**

Roof Supply, Belt Drive Fan

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Provide Accurex Supply Fan Model XRS as shown on plans and in accordance with the following

specification:

Hood bases shall have prepunched mounting holes.

Permanent washable one-inch aluminum filters shall be provided.

Fan wheels shall be of the forward curved type, constructed of heavy gauge steel, and statically and

dynamically balanced to ensure smooth, vibration free operation.

Motors shall be permanently lubricated, heavy duty, ball bearing type, carefully matched to the fan load

and furnished at the specified voltage, phase and enclosure.

The fan shaft shall be ground and polished steel mounted in heavy duty, sealed ball bearings. Bearings

shall be selected for a minimum L **50** life in excess of 200,000 hours at maximum cataloged operating

speeds. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel

and motor shafts. Motor sheaves shall be adjustable for final system balancing. Drives shall be sized for a

minimum of 150% of driven horsepower. The entire fan and motor assembly shall be mounted on

vibration isolators to prevent noise transmission.

Fans shall bear the AMCA Certified Ratings Seal for air and FEI performance.

Fans shall be model XRS as manufactured by Accurex.

Due to continuous research Accurex reserves the right to change specifications without notice.

**XKID Specification**

Filtered Roof Supply, Direct Drive Fan

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Provide Accurex Supply Fan Model XKID as shown on plans and in accordance with the following

specification:

The fan housing shall be of the square design, constructed of heavy gauge galvanized steel. Fan bases shall have pre-punched holes for mounting to curb or equipment supports.

Fan construction shall include two removable access panels located perpendicular to the motor mounting

panel. The access panels must be sufficient size to permit easy access to all interior components.

Weatherhood shall be constructed of heavy gauge galvanized steel and include two-inch washable aluminum mesh filters at the intake. Two-inch MERV13 filters are optional.

Fan wheels shall be of mixed flow type, constructed of composite or aluminum and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced.

Motors shall be permanently lubricated, heavy duty, ball bearing type, carefully matched to the fan load

and furnished at the specified voltage, phase and enclosure.

A NEMA 1 disconnect switch shall be provided as standard. Factory wiring shall be provided from motor to the handy box.

All fans shall bear the AMCA Certified Ratings Seal for sound, air and FEI performance.

Fans shall be model XKID as manufactured by Accurex.

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**XUEF Specification**

Backward-Inclined, Belt Drive or Direct Drive Utility Fan

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Provide Accurex Fan Model XUEF as shown on plans and in accordance with the following specification:

Supply, exhaust and return air fans shall be of the utility fan type in AMCA Arrangement 1 or 10

with a single width, single inlet housing, in CW or CCW rotation as specified.

The scroll housing shall be constructed of heavy gauge steel with air tight lock formed seams; galvanized steel

or painted steel . The housing shall be field rotatable (Sizes <= 24) to any of the eight standard discharge positions. Scroll housing and bearing supports shall be constructed of a bolted steel framework to prevent vibration and to rigidly support the motor, shaft and bearings.

The fan wheel shall be of the non-overloading backward inclined, centrifugal fan type and constructed of

heavy gauge steel for B6 models, and aluminum for B7 models.

Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency.

Motors shall be heavy duty, ball bearing type matched to the fan load and furnished at the specified

voltage, phase and enclosure.

On belt drive units, the fan shaft shall be ground and polished solid steel mounted in heavy-duty grease lubricated, self-aligning or roller pillow block type. Bearing L10 life shall be selected and displayed on fan submittal. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts.

All B6 fans shall bear the AMCA Certified Ratings Seal for sound and air performance. B7 fans shall bear the AMCA Certified Ratings Seal for Air Performance. AMCA Certified Rating Seal of FEI shall be applied where applicable.

Each fan shall bear a permanently affixed manufacturer's engraved metal nameplate containing the

model number and individual serial number for future identification.

Fans shall be listed by Underwriters Laboratory for UL/cUL 705 Listed for all electrical Components and grease removal as configured.

Utility fans shall be Model XUEF (with backward inclined wheels) as manufactured by Accurex.

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