



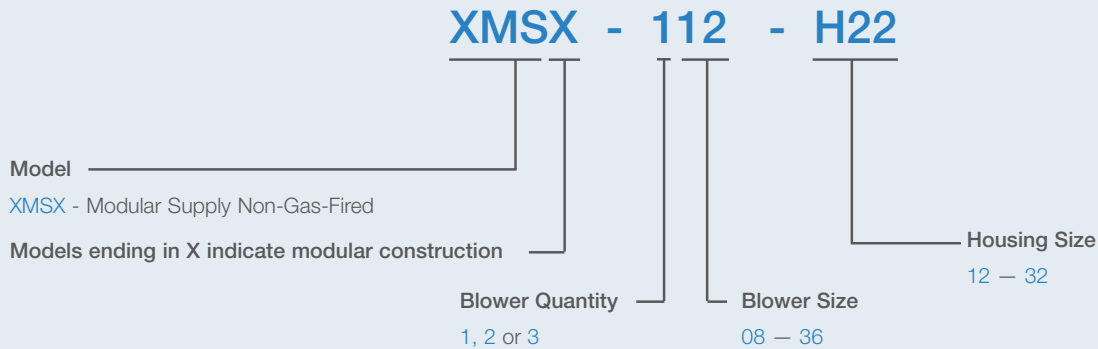
XMSX models are ETL Listed and Listed to UL 1995 with the exception to electric heat.

Accurex's non-gas-fired units are designed to provide fresh make-up air to restaurants and other food service facilities where natural or propane gas is either not available or not desired for heating. The Accurex model XMSX utilizes coil heating and/or cooling tempering options for high performance operation. Seven available blower sizes provide airflow capacities up to 15,000 cfm (25,485 m<sup>3</sup>/hr) and static pressure capabilities up to 2.0 in. wg (497 Pa). All blower sizes are tested in our accredited laboratory to ensure accurate fan performance.

Electric heating coils with SCR control, hot water, and/or steam heating, provide efficient heating in any climate when gas-fired equipment is not an option. Chilled water, direct expansion, and evaporative coolers provide cooling when required. XMSX housings incorporate a flexible design, and are constructed of durable G90 galvanized steel suitable for indoor or outdoor installations. Accurex XMSX make-up air units are available with a wide range of construction and control accessories for maximum flexibility and performance.

## Model Number Code

The Model Number Code is designed to completely identify the unit. The correct code letters must be specified to designate the configurations and size.



# Modular Supply

## Standard Construction Features

### XMSX.

Model XMSX is ideally suited for make-up air applications where hot water, steam or electric heat is desired. The XMSX has a modular design for broad configuration flexibility. In addition to 100% outdoor air operation, recirculation and variable volume airflow options are available.

Airflow volumes range from 800 to 15,000 cfm (1,359 to 25,485 m<sup>3</sup>/hr). These units feature belt driven, double-width, forward-curved fans, vibration isolation, intake filters, and a variety of heating and cooling options.

#### Heating options:

- No heat up to 15,000 cfm (25,485 m<sup>3</sup>/hr)
- Hot water up to 15,000 cfm (25,485 m<sup>3</sup>/hr)
- Steam up to 15,000 cfm (25,485 m<sup>3</sup>/hr)
- Electric heat up to 15,000 cfm (25,485 m<sup>3</sup>/hr)

#### Cooling options:

- Evaporative cooling up to 45,000 cfm (76,455 m<sup>3</sup>/hr)
- Chilled water or DX cooling up to 11,000 cfm (18,689 m<sup>3</sup>/hr)

**Reliable Fan Performance** – Air performance ratings from Accurex's accredited test chamber ensure accurate data. Double-width, double inlet forward-curved wheels for high-efficiency and low sound levels are constructed of heavy-gauge steel. Wheels are balanced to ensure vibration-free operation.



**Control Center (Optional)** – The control center includes the following standard components:

- Magnetic motor starter with solid state overload protection
- Control transformer with fusing
- Disconnect switch
- Individual motor fusing
- Distribution terminal strip



Premium grade control components are selected for reliable operation. All electrical components are UL Listed, recognized or classified and factory prewired for single point power connection.

**Vibration Isolators** – The entire fan and motor assembly is mounted on vibration isolators to minimize noise transmission to the building.



**Durable Construction** – Designed for maximum weather resistance, XMSX housings are constructed of heavy-gauge G90 galvanized steel. Lifting lugs are standard.

**Shafts** – Shafts are precision turned, ground and polished steel sized so that the first critical speed is at least 25% over the maximum operating speed.

**Bearings** – Shafts rotate in permanently lubricated, heavy-duty ball bearings. Bearings are selected for a minimum average (L10) life in excess of 100,000 hours at maximum operation speeds.

**Access Panels** – Large access panels are provided for easy inspection and maintenance of motors, drives, fan wheels, filters, and heater controls.

**Factory Wired and Tested** – All units are tested prior to shipment. Units are checked for proper fan and controls operation.

## Heating Options

Hot water, steam and electric heating options are available with the model XMSX. The heating section consists of the heating coil factory installed in a pre-engineered coil housing.

For proper coil sizing, contact your local representative. All heating options are available with airflow capacities up to 15,000 cfm (25,485 m<sup>3</sup>/hr).

**Hot Water and Steam** – Hot water and steam coils are available in either a 100% thru-coil airflow or face and bypass arrangement. Coils have copper tubes with permanently expanded aluminum fins and are tested and rated in accordance with ARI 410.



**Electric Heat** – Electric heaters are UL Listed and feature open coil heating elements. Heater control cabinets are installed completely within the heating section, are factory wired up to 220 kW and meet all requirements of the National Electric Code.



## Cooling Options



**Evaporative Cooling** – The evaporative cooling section includes a galvanized steel housing with a louvered intake, 2-inch aluminum mesh filters and a stainless steel evaporative cooling module. The evaporative cooling media is Munters CELdek or GLASdek and has a depth of 12 inches for 90% cooling effectiveness. The entire section mounts directly to the front of the XMSX unit, eliminating transition or ductwork by others. Drain and overflow are conveniently tapped through the side of the cooling section. The supply line connection is field located where convenient. Freeze protection and automatic drain & fill options are also available.

Airflow capacity for evaporative cooling is up to 15,000 cfm (25,485 m<sup>3</sup>/hr). The evaporative cooling section for the housing size 32 and 35 ships separately.



**Cooling Coils** – Chilled water or direct expansion (DX) cooling is available with the model XMSX. The cooling section includes the cooling coil, sloped stainless steel drain pan and insulated double wall construction. Drain and coil connections are stubbed through the wall for convenience.

For proper coil sizing, contact your local representative. Four-row and six-row chilled water or DX coils are available with airflow capacities up to 11,000 cfm (18,689 m<sup>3</sup>/hr).

Cooling coil sections are installed upstream of the fan section for a draw through arrangement and provide a streamlined transition to adjacent XMSX sections. DX coils require remote condensing units.

**Air Filter Gauge** – The air filter gauge indicates when filters become dirty. An indicator light may be wall/beam mounted or provided with a remote control panel.

**Motorized Dampers** – Intake or discharge dampers are available to prevent backdrafts when the fan is not in operation. Intake dampers are factory mounted and wired.

**Exhaust Fan Starter(s)** – Exhaust fan starters may be added to the control center.

**Inlet Air Sensor** – An on/off type duct stat automatically de-energizes the gas system and interrupts the flow of gas to the burners when the inlet air temperature is above the desired setting.

**115 Volt GFCI Service Receptacle** – A 115 volt GFCI outlet is mounted externally in a NEMA-3R box for the convenience of field service personnel. A separate 115 volt power source is required.

**Roof Curbs** – Factory provided roof curbs are available to ensure compatibility between make-up air unit and roof curb. Standard construction is G90 galvanized steel. See the roof curbs section in this catalog for more information.

**2-Speed Motor** – A 1/3 reduction 2-speed motor is available. Consult the factory for 1/2 reduction 2-speed motor availability.

**Smoke Detector** – Photoelectric smoke detector is available for duct mounting.

**Freezestat** – An on/off type discharge duct stat (with a timer) prevents the discharge of cold air into the building when the unit is not providing adequate tempering.

**Equipment Supports** – Factory provided equipment supports may be required in addition to a roof curb, depending on the specified unit configuration. Standard construction is G90 galvanized steel.

**Special Coatings** – Permator™ powder coating is available if a painted look is desired. Decorative baked enamel coatings are also available in a variety of colors to match existing building fixtures. Consult your Accurex representative for coating selections.

**Fiberglass Insulation** – Fiberglass insulation is used to line the housing to prevent the formation of condensation and to form an acoustical barrier.

**Weatherhood** – A galvanized steel weatherhood with birdscreen is available. A DRIFdek mist eliminator is an optional weatherhood accessory.

**Duct Adapter** – Duct adapter is available with factory supplied curbs and allows an easy method for connecting ductwork to curb.

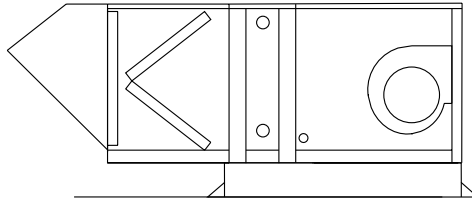
**Double Wall Construction** – An interior metal liner is available to isolate insulation from the airstream. One inch thick insulation is included with this option.

**Variable Frequency Drive** – A variable frequency drive is available to automatically vary the fan speed.

## Arrangements

### Downblast or Horizontal Discharge

Model XMSX is available in either downblast (arrangement DB) or horizontal (arrangement HZ) discharge.



Arrangement HZ

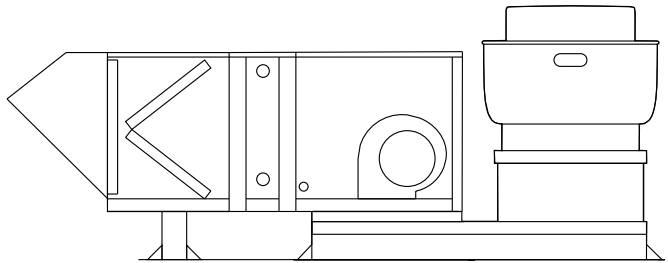
### Kitchen Combination Package

The Accurex combination package simplifies installation and reduces field labor costs for kitchen ventilation systems. The pre-engineered design ensures that the supply fan, exhaust fan, curb and combination extension components interface properly.

Equally important, Accurex combination packages are specifically designed to comply with NFPA 96.

NFPA 96 states:

- Exhaust duct must terminate at least 24 inches above the roof deck
- Fan discharge must be at least 40 inches above the roof deck
- Air intake shall have a horizontal separation of 10 feet from the exhaust discharge



Combination

*Note: Consult local codes and the authority having jurisdiction if there are questions concerning the use of this product.*