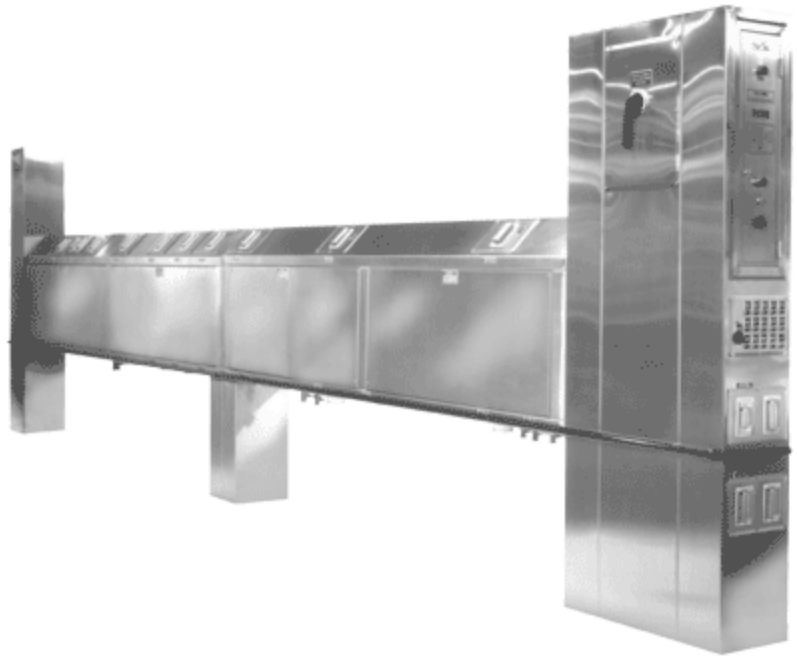

Greater Flexibility Over Conventional Utility Connections

One connection for all your utility needs.

The AquaMatic Utility Distribution System (UDS) is designed to meet all electrical and plumbing requirements for your kitchen appliances. A two compartment raceway houses either an electric copper bus bar or wireway which is completely isolated from the plumbing supply manifold.

The AquaMatic UDS provides unequalled cooking line versatility, flexibility and convenience.

ADVANTAGES

Efficiency for Today - Flexibility for Tomorrow

The AquaMatic Utility Distribution System (UDS) allows greater flexibility over conventional utility connections. It is designed to provide additional capacity according to job specifications. Spare connection points are provided for future cooking equipment expansion, therefore, adding new equipment requires minimal effort. Rearranging the cooking line-up can be accomplished in a matter of minutes, especially when equipment is on casters.

Electrical Riser

Power connection is made to the main circuit breaker which is equipped with a shunt trip and is mounted in the electrical riser.
Bus Bar Systems Electrical power is connected through the main circuit breaker to the bus bar system in the raceway. Each appliance is connected from the bus bar through individually sized circuit breakers located along the raceway.
Wireway Systems Electrical power is connected through a main circuit breaker to a distribution panel which contains individual branch breakers. Each appliance is fed from individual breakers which are wired to each receptacle located along the raceway.

Plumbing Riser

The plumbing riser houses manual (quarter-turn) shut-off valves for each incoming main supply line located in the UDS. The plumbing manifolds are provided with stub-outs along the raceway for the individual plumbing connections. Each stub-out is equipped with a manual (quarter-turn) shut-off valve.

FEATURES

- **ETL Listed to US and Canadian Standards, and NSF Listed**
- **Two Models Available: AM-UDI** (island configuration with equipment connections on both sides) and AM-UDW (wall mounted with equipment connections on one side only)
- **Expandability** Plumbing manifolds provided with multiple plumbing stubs for future use. Electrical systems are designed for additional capacity for future expansion or upgrade of connected appliances.
- **Bus Bar Systems** Individual circuit breakers mounted on interchangeable plates for ease of service and relocation. Spare connection points provided for cooking equipment relocation or expansion.
- **Wireway** Electrical distribution panel located in the riser is equipped with branch circuit breakers and sized for expansion.
- **Serviceability and Accessibility** Lift out doors provide easy access to risers without moving cooking equipment, in most cases. Removable panels provided along the length of the raceway allow access to either plumbing or electrical compartments.
- **Electric Outlets and Cord Sets** All outlets are provided with moisture resistant covers and have been sized per NEMA standards. Each is supplied with a matching cord and plug set if these are not already supplied by the equipment manufacturer. Twist-lock sets are standard with the model AM-UDI. Straight blade sets are standard with the model AM-UDW.
- **Main Disconnect** One point disconnect through main circuit breaker equipped with 120 VAC rated shunt trip provided in riser.
- **Gas Solenoid Valve** Electrical or Mechanical Electrical valves provided with manual reset button.
- **Shunt Trip** Provided with each main breaker.
- **Appliance Protection** Each electrical outlet connection is protected with an individual circuit breaker.
- **Dual Convenience Outlets** Located at each riser with integral ground fault protection.
- **Fire / Fuel Shutoff** In compliance with NFPA 96, terminal connection points provided for field wiring to the fire protection system to shut-off fuel sources and power in the event of a fire.

OPTIONAL EQUIPMENT

- Lighted Remote Status Indicator Panel indicates status of breakers in wireway.
- Electric Outlet & Cord Sets Water tight pin and sleeve outlets and cords.
- Light & Fan Switches located in riser.
- Hood Control Panel built directly into riser.
- Ground Fault Protection
- Prison Package
- Bumper Strips
- Emergency Kill Switch Single point shutdown of electrical power and electrical gas valves.
- Swivel Connectors for gas equipment.
- Plumbing Fixtures Pre-plumbed & installed faucets, mixing valves and hose reels.
- Cable Restraints For mobile equipment.
- Hinged Doors for internal access to risers.
- Temperature / Pressure Gauges for hot/cold water main.

SPECIFICATIONS

Description Utility Distribution System shall be the AquaMatic Model AM-UDI or AM-UDW. Overall size shall be as shown on drawings. Systems shall have two vertical risers, one on each end, with one dedicated to electrical and the other to plumbing. The horizontal distribution raceway between the risers shall be separated into electrical and plumbing compartments and each shall be completely enclosed and water tight with removable access panels. The risers and raceway shall be constructed of 16 gauge, type 304 stainless steel, #3 finish. The system shall be completely pre-wired and pre-plumbed with one (1) final connection point for all incoming services. A circuit protected dual convenience outlet shall be provided on each riser. Service connections shall be located behind easy lift out access panels.

ELECTRICAL

- **Bus Bar Systems:** The electrical raceway shall be a four (4) conductor copper bus bar system having balanced load and phases, and shall be completely isolated from the plumbing supply manifolds. Point of use circuit breakers shall be mounted on connection plates which are located on the peaked top of the raceway and protected by a water proof stainless steel hinged cover. The breakers shall be easily accessible to the operator. The connection plates shall be easily interchangeable with spare blank plates which shall be provided for future expansion or changes. A main circuit breaker with a built-in 120 VAC rated shunt trip shall be furnished in the electrical riser and require a single point incoming connection. Terminal block connections shall be provided for field interconnection between the shunt trip and the fire protection system for power shut-off in the event of a fire.
- **Wireway Systems:** The electrical system shall consist of a main circuit breaker which feeds power to a distribution panel located in the electrical riser containing individual branch breakers. Each appliance is fed from the individual breakers which are wired to each receptacle located along the raceway and shall be completely isolated from the plumbing supply manifolds. The main circuit breaker shall be equipped with a built-in 120 VAC rated shunt trip and shall be located in the electrical riser requiring a single point incoming connection. Terminal block connections shall be provided for field interconnection between the shunt trip and the fire protection system for power shut-off in the event of a fire.

  All outlets shall be equipped with grounding type receptacles having specific NEMA polarized configurations and located on the under side (Model UDI) or front side (Model UDW) of the raceway at each equipment location. Outlets are matched to the cord and plug sets supplied with equipment. On the Model UDI, twist lock cord and plug sets are provided for equipment supplied without cords. On the Model UDW, straight blade cord and plug sets are provided for equipment supplied without cords.

- **Main Circuit Breaker:** 15 to 600 Ampere, 1 or 3 phase 120, 208 or 480 VAC System
- **Branch Circuit Breakers:** 15 to 100 Ampere, 1 or 3 phase 120, 208 or 480 VAC System

PLUMBING

The plumbing compartment shall be completely isolated from the electrical with all piping labeled. Hot and cold water, steam supply, and return manifolds shall be insulated. All incoming service connections shall be provided with 1/4 turn valves. Each branch connection shall be provided with 1/4 turn valve, color coded, and located at each equipment location. Color coded quick disconnect hoses are provided for connection to equipment. Hot and cold water piping, including branch connections, shall be type "L" copper tubing. All fittings will be copper sweat solder (95-5 type). Gas and steam piping, including branch connections, shall be threaded black iron. There shall be a drip tee on the incoming gas end. The gas manifold shall be furnished with either an electrical or mechanical gas valve which shall be field interlocked with the fire protection system to shut off fuel sources in the event of a fire. Electrical gas valves shall be furnished with a manual gas reset button located in the UDS riser.

GAS

- Manifold (single or looped): 3/4" to 3" IPS
- 1/4 turn manual shut-off valve on manifold
- Quick disconnect hoses: 1/4" to 1-1/4", up to 6' long
- Quick disconnect fittings: 1/4" to 1-1/4" with 1/4 shut-off valves

HOT AND COLD WATER

- Manifold: 3/4" to 1" IPS
- 1/4 turn manual shut-off valve on manifold
- Quick disconnect hoses: 1/4" to 1", up to 6' long
- Quick disconnect fittings: 1/4" to 1" with 1/4 shut-off valves

STEAM SUPPLY/STEAM RETURN

- Steam Manifold: 3/4" to 3" IPS
- Condensate Return Manifold: 3/4" to 2" IPS
- 1/4 turn manual valves on manifolds
- Quick disconnect hoses: 1/4" to 1-1/4", up to 6' long

- Quick disconnect fittings: 1/4" to 1-1/4" with 1/4 shut-off valves

COMPRESSED AIR

- Manifold: 1/2" to 3/4" IPS
- 1/4 turn manual shut-off valve on manifold
- Quick disconnect hoses: 1/4" to 1/2", up to 6' long
- Quick disconnect fittings: 1/4" to 1/2" with 1/4 shut-off valves

CERTIFICATIONS

The AM-UDS Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

Model AM-UDS is ETL Listed under file number 3054803-001 and complies with UL891 Standards and CSA C22.2, No. 31-M89 Standards.