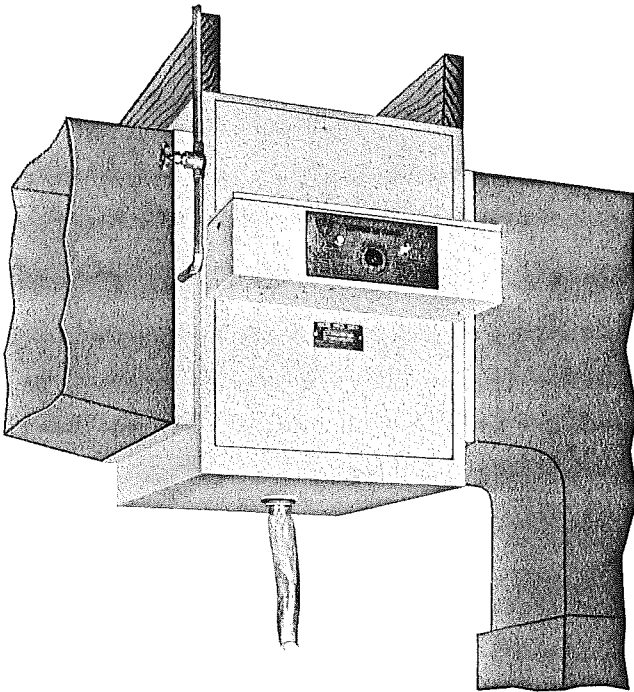




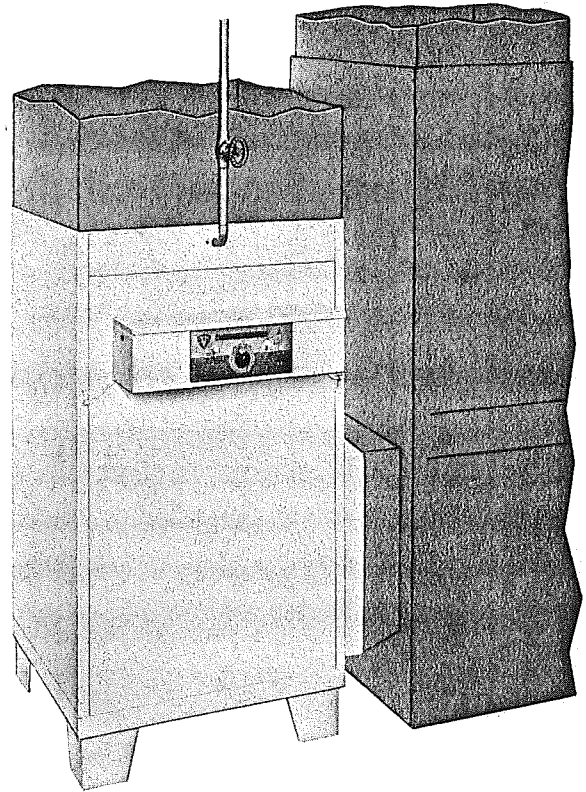
ELECTRONIC AIR CLEANERS

TRION Type UMT / Utility Model Trion

Horizontal and Vertical-Down Air Flow Models



HORIZONTAL AIR FLOW MODEL



VERTICAL-DOWN AIR FLOW MODEL

TRION
The Automatic Housekeeper®

HIGHLY EFFICIENT • Whole-house Air Cleaning . . . Removes up to 95%* of airborne particles that are circulated to the unit.

VARIABLE CAPACITY • Incorporates a selector control to "dial" the proper setting for most any size residential heating and/or cooling requirement.

SIMPLIFIED MAINTENANCE • Built-in water wash system effectively flushes collected residue to sewer.

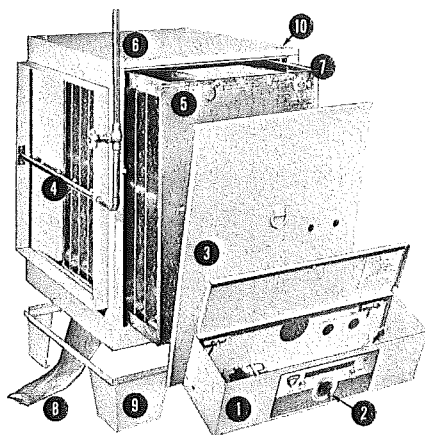
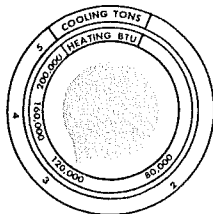
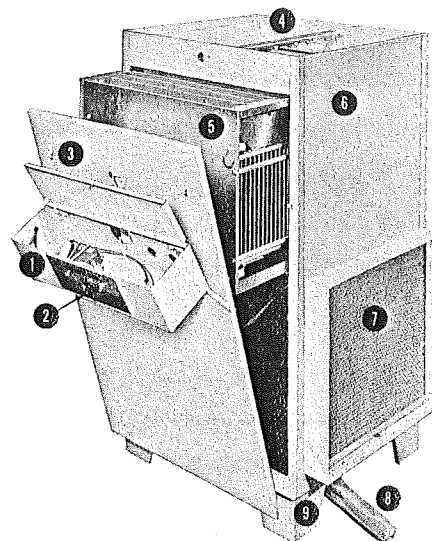
ECONOMICAL • Costs only pennies a day to operate . . . Investment may be returned through lower housekeeping costs.

VERSATILE • Models available for horizontal and vertical-down air flow placement . . . Horizontal air flow model may be suspended for off-the-floor installation.

*By the National Bureau of Standards Dust-Spot Test Method.



DIRECTION OF AIR FLOW

MODEL FOR HORIZONTAL
AIR FLOWCAPACITY
SELECTORDIRECTION OF AIR
FLOWMODEL FOR VERTICAL-DOWN
AIR FLOW

- 1 POWER PACK** Transformer, selenium rectifiers and capacitors wired into voltage doubling circuit energizes ionizing-collecting cell. Automatically self-limiting power pack output assures long, trouble-free operation.
- 2 CAPACITY SELECTOR** This outstanding feature enables ready adjustment in matching Trion capacity to furnace and/or air conditioner.
- 3 ACCESS PANEL** Interior component parts of unit are readily accessible for inspection or servicing behind easily removable access panel.
- 4 WATER WASH MANIFOLD** Integral divergent nozzle washer enables routine cleansing of unit without ionizing-collecting cell removal.
- 5 IONIZING-COLLECTING CELL** Charges (ionizing section) and retains (collecting section) airborne contaminants, some as small as 1/2,500,000 of an inch (smaller than tobacco smoke particles).
- 6 CABINET** Fabricated from heavy gauge sheet steel with attractive baked enamel finish is provided with collars for easy attachment to ductwork.
- 7 AFTER FILTER** Aids in maintaining maximum air cleaning efficiency by providing even air distribution throughout ionizing-collecting section.
- 8 DRAIN CONNECTION** Carries flushed residue from unit to sewer during washing operation. Connection can be of permanent piping or flexible tubing.
- 9 BASE** An integral part of the Vertical-Down Air Flow Model, it is available as an accessory for floor mounting of Horizontal Air Flow Model.
- 10 HANGER BOLTS** Furnished with Horizontal Air Flow Model only, they (4) provide adjustable support for unit suspension mounting.

NOTE: Each Model is equipped with interchangeable cabinet panels to provide right- or left-hand installation.

SIZE-CAPACITY DATA

Model Series 24-102	Air Capacity—CFM	800	1000	1200	1600	2000
SPECIFY: Horizontal Air Flow or Vertical-Down Air Flow	Heating Capacity—BTU	80,000	100,000	120,000	160,000	200,000
	Cooling Capacity—TONS	2	2½	3	4	5
	Air Cleaning Efficiency ¹	95%	93%	90%	87%	85%
	Static Pressure Drop	.04 in. w.g.	.06 in. w.g.	.08 in. w.g.	.13 in. w.g.	.18 in. w.g.
	Power Consumption	20 Watts Maximum				
	Electrical Requirements	110-125 Volts AC—60 Cycles—1 Phase				

WATER WASH DATA:

WATER REQUIRED: Horizontal and Vertical-Down Air Flow Models—5 GPM at pressure of 30 PSIG (Minimum) at full flow.
Average wash period 3 minutes.

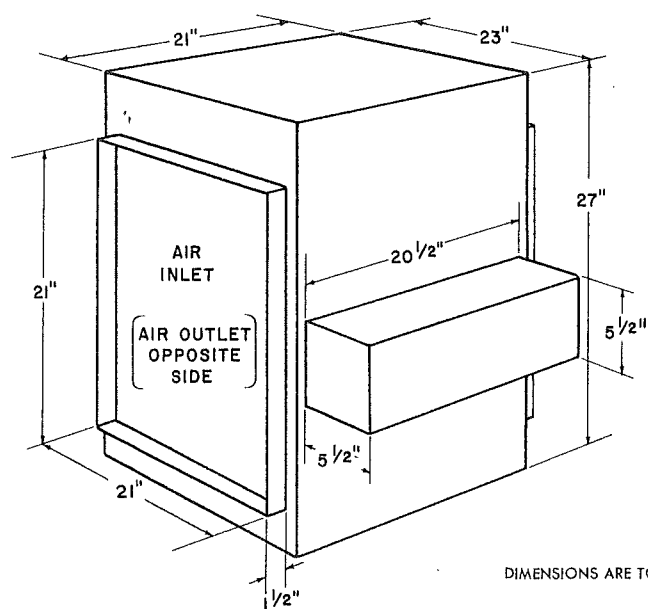
Suggested Water Temperature—125°F Minimum.

Plumbing Connections—Horizontal Air Flow Model—Inlet size ½" Cu—Male drain connection size 1½" O.D. SJ Thread.

Vertical-Down Air Flow Model—Inlet size ½" Cu—Male drain connection size 2" O.D. SJ Thread.

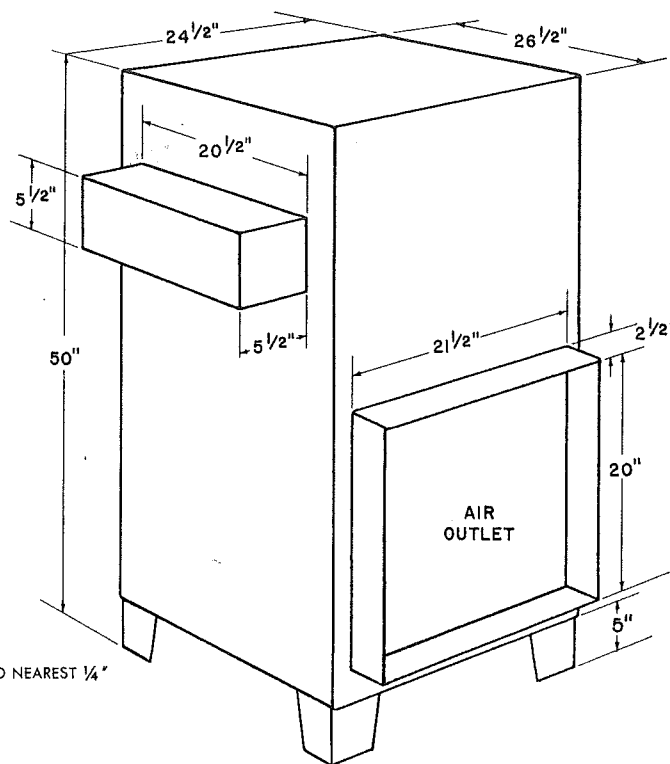
Automatic Controls for water wash system available as an accessory (see back page).

1. By the National Bureau of Standards Dust-Spot Test Method using atmospheric air without addition of other dust or contaminant.



HORIZONTAL AIR FLOW MODEL

Shipping weight — 122 lbs.



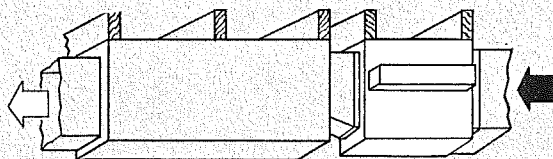
VERTICAL-DOWN AIR FLOW MODEL

Shipping weight — 195 lbs.

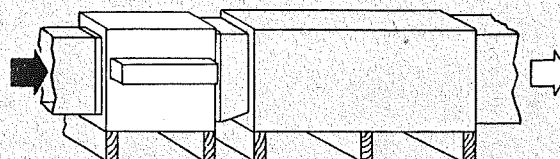
DIMENSIONS ARE TO NEAREST 1/4"

Note: Allow 28" cell removal clearance for each model.
Specifications subject to change without notice.

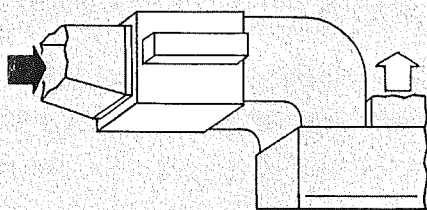
APPLICATIONS



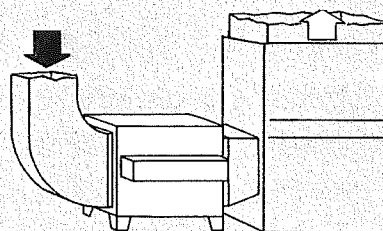
CEILING-SUSPENDED HORIZONTAL AIR FLOW MODEL WITH HORIZONTAL FURNACE



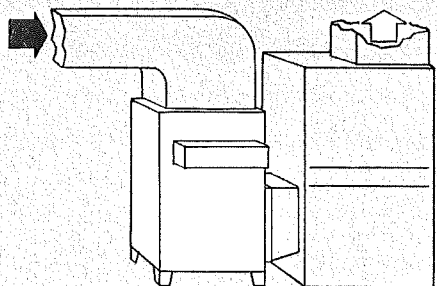
FLOOR-MOUNTED HORIZONTAL AIR FLOW MODEL WITH HORIZONTAL FURNACE



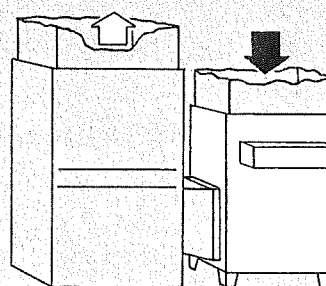
CEILING-SUSPENDED HORIZONTAL AIR FLOW MODEL WITH BASEMENT FURNACE



FLOOR-MOUNTED HORIZONTAL AIR FLOW MODEL WITH BASE AND DUCT ADAPTER—HIGH BOY FURNACE



VERTICAL-DOWN AIR FLOW MODEL WITH BASEMENT FURNACE—RIGHT-HAND INSTALLATION



VERTICAL-DOWN AIR FLOW MODEL WITH HIGH BOY FURNACE—LEFT-HAND INSTALLATION

Electronic Air Cleaners shall be the two-stage plate type electrostatic precipitator Type UMT for horizontal or vertical-down air flow as manufactured by Trion, Inc.

Furnish and install such equipment where shown on plans of size to clean the specified air volume at air cleaning efficiency not less than . . . % (determine % of efficiency from SIZE-CAPACITY TABLE) as Determined by the National Bureau of Standards Dust-Spot Test Method.

Total resistance to air flow shall not exceed .08" w.g. at 90% cleaning efficiency. Each model shall be provided with a stationary divergent nozzle washer, an electrical time delay safety switch and a removable permanent type one

inch after-filter fitted into factory fabricated cabinet.

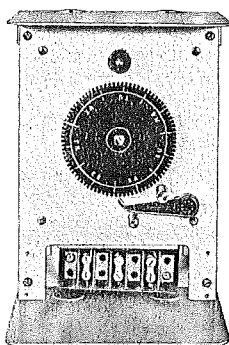
The cabinet shall be of sheet steel which shall include drain pan and adequate drain fitting. Cabinet shall be fitted with integral power pack and access panel to facilitate removal of ionizing-collecting cell and after-filter.

Wash water shall be 125°F (minimum) with pressure at the unit of 30 PSIG (minimum) at full flow.

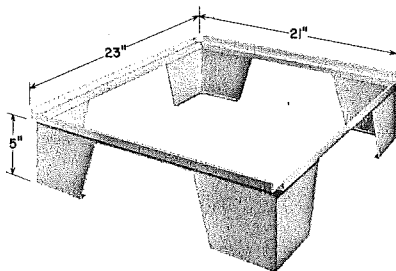
NOTE: For commercial applications a Trion Detergent Feeder is recommended.

WARRANTY—Trion equipment and parts are warranted for one year against defects in material and workmanship.

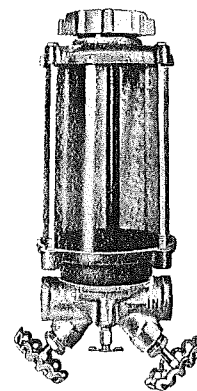
ACCESSORIES



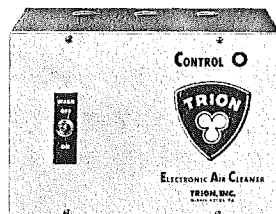
SELECTED INTERVAL CLOCKS—Used with control M to provide completely automatic washing, drying, fan and power pack operations at selected hourly, daily, or weekly intervals. Two models available—IC-07 (shown above) for intervals to 7 days, and IC-21, for intervals to 6 weeks.



BASE—(Applicable only to Horizontal Air Flow Model) Fabricated of heavy gauge sheet steel, it provides rigid support for floor-mounted Horizontal Air Flow Model.



DETERGENT FEEDER—Aids the cleansing action of the Type UMT water wash system. Helps prevent formation of lime scale and corrosion. Especially recommended for systems designed to handle heavy tobacco smoke loads.



CONTROL O—A manual switch control with solenoid valve and strainer to control and electrically interlock solenoid valve and power pack during washing operation.



CONTROL M—A single push-button control with solenoid valve, strainer and timer to automatically sequence and time the washing, drying, fan and power pack operations.

FOR NAME OF YOUR LOCAL TRION DEALER
REFER TO YELLOW PAGES UNDER "FILTERS AIR"



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