

KEI WATER FILTER DUST COLLECTORS

KEI Water Filter Dust Collectors are units specifically designed for source capture where fine metal particulate is being produced. The 4000 Series of collectors are a safe and economic method for cleaning these potentially volatile materials. With air volumes between 2,500 CFM and 5,000 CFM, the units can be coupled to the machines generating the dust or by connecting ductwork to the work areas for source capture.

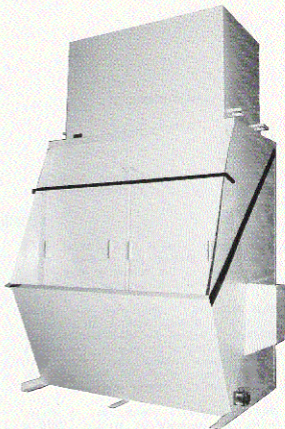
Because water-type collectors may be placed indoors, the Units can recirculate in-plant, tempered air to conserve energy. Airborne contaminants from such operations as grinding, buffing, sanding, packaging, and processing can be filtered from the air to provide a safe and clean working environment.

MOTORS

KEI Units are powered by TEFC motors. The motors are UL and CSA approved and will operate efficiently at 208V, and all standard voltages. Explosion proof motors are available.

APPLICATIONS

Milling	Refining
Ceramics	Foundries
Chemicals	Rubber Products
Metalworking	Plastic Products



MODEL 4015

- * 15HP-3PH Motor
- * 5,000 CFM
- * 12 Gauge Cabinet w/Sound Cover
- * Double Intakes
- * Removable Baffles
- * Special Mist Filters
- * 1" Drain Valve
- * Water Level Control
- * Sludge Scoop

FEATURES

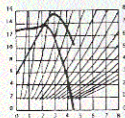
- * 1" DRAIN VALVE
- * SPECIAL MIST FILTERS
- * REMOVABLE BAFFLE SECTION
- * DIRECT DRIVE/NON-OVERLOADING FAN
- * LOW MAINTENANCE
- * WATER LEVEL CONTROL
- * SLOPED WALL FOR SLUDGE REMOVAL
- * ACOUSTICALLY LINED MOTOR COVER

KEI Water Filter Units purify air by a combination of centrifugal force and violent inter-mixing of water and contaminated air. As the air stream passes the fixed baffles, particulate is separated by a heavy, turbulent curtain of water created by high velocity air. The centrifugal force caused by the rapid changes in airflow direction forces the dust particles to penetrate the water droplets and become entrapped within. Contaminated water is then removed from the airstream by special mist filters. Dust, as sludge, settles to the collector bottom and the water is reused.

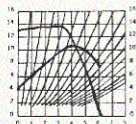
COLLECTION OF FINE METAL PARTICULATE

Metalworking such as grinding, abrasive disc cutting, sawing, buffing and polishing create clouds of fine dust. As metal dust such as aluminum gets finer and concentrations increase, so do the risks of explosion. National Fire Protection Association Guidelines for light metal dust collection are strict regarding types of collectors to be used. For aluminum, cyclones or centrifugal types may be used, but only if located outside. Fabric and paper media filter units and electrostatic precipitators may not be used. The preferred collector is a liquid, wet-type.

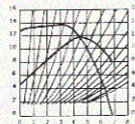
BLOWER SPECIFICATIONS



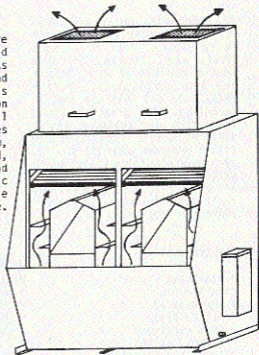
Model 4000



Model 4010



Model 4015



MODEL 4010
AIRFLOW

All Water Filter Dust Collectors have an efficiency rating of 95% by weight.

WATER FILTER DUST COLLECTOR SPECIFICATIONS

MODEL	HP*	CFM	DBA 5'	INLET NO/DIA	WATER CAP	DIMENSIONS			WT**
						W"	D"	H"	
4000-3	7.5	2,500	80	1 12"	120 GAL	37	56	106	800
4010-3	10	3,500	82	2 12"	200 GAL	67	56	106	950
4015-3	15	5,000	83	2 12"	200 GAL	67	56	106	1050

*All Units are 3 Phase - 230/460V.

**Model 4000 Water Weight is approximately 900 Lbs.

Models 4010 & 4015 Water Weight is 1,500 Lbs.