

**PRODUCT
DATA**
**AUTO-LINE™
SERIES ILM**
PD-ALILM-03A
JANUARY 2003

**AUTOMATIC
AIR
FILTRATION
EQUIPMENT**

AUTO-LINE™ SERIES ILM

INK/LINT MASTER AUTOROLL

Engineered by dedicated personnel with years of experience and hands-on application expertise, the AUTO-LINE Ink/Lint Master is a Front Access Automatic AutoRoll designed for the marketplace of tomorrow.

Manufactured with innovative features and options — for a wide range of uses requiring the removal of textile lint, laundry lint and press-room ink mist among others — the quality, practicality and economy of this design is immediately obvious to those involved in the purchase, installation and application of Air Filtration equipment.

Moreover, the ILM offers the advantages of large air volume capacities and convenient maintenance access. It maintains an average dust load across the filter face. Only small amounts of media automatically advance as dust accumulates. The result is constant pressure drop with a more consistently delivered CFM.

BLC's Ink/Lint Master has been designed as a completely factory assembled unit. It requires only minimal field labor to install. A wide variety of System CFM capacities along with easy to handle section widths and heights allow for quick installation. Complete, 100% factory assembly reduces expensive field labor and cuts supervision costs.

Rugged, modular AutoRoll construction that is compatible to HVAC System installation is another objective in the design of the Ink/Lint Automatic Filter. The main frame is die formed into a channel section that offers a stationary Stainless Steel backing for media support. When joined to the top and bottom panels, this also provides rigid structural support that



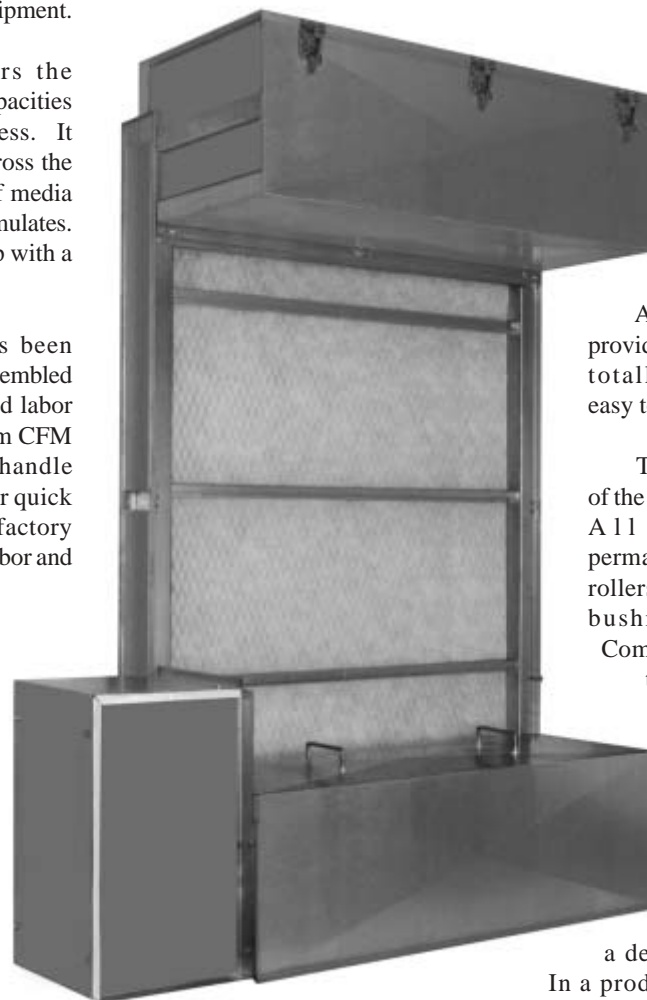
prevents the twisting or bowing of the unit during shipment or at installation.

The entire unit is constructed of 16 gauge aluminized steel, offering improved product appearance and better corrosion resistance when compared to galvanized steel. Aluminized steel is used in automotive mufflers, tail pipes, oven liners and incinerators where heat and condensation create the worst case conditions for corrosion to form. Metals that withstand these conditions and also conform to ASTM Specification A463 tolerate greater temperatures and are more expensive than lesser ones. Manufacturing the Ink/Lint Master from 16 gauge aluminized steel emphasizes BLC's total commitment to quality.

Certainly, the main objective in the design of the AUTO-LINE Ink/Lint Master is to provide the end user with a product that is totally reliable, economical, practical and easy to use.

This unit requires only the replacement of the exhausted roll media when necessary. All of the drive components are permanently lubricated — for life! The rollers and bearing surfaces use oil lite bushings and high impact plastics. Components are carefully manufactured to exacting tolerances. And, after completion, the entire unit undergoes a rigorous inspection by BLC before shipping.

All of this results in a quality product that provides minimal installation time, reduced maintenance costs and a dependable, warranted service life. In a product that can be "totally trusted"!



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We reserve the right to make changes in product design and product specifications without prior notice or obligation.

BLC INDUSTRIES INC.
Breathe Easy, We Have The Line On Air Filtration.

Ink/Lint Master: Applications

BLC's Ink/Lint Master is utilized in a wide variety of applications. The removal of textile lint, laundry lint in commercial laundry operations, pressroom ink mist in printing processes, oil mists and smokes, flour and cotton dusts, tobacco dusts, and industrial process debris are intended applications that are perfectly suited for the Ink/Lint Master. Retrofits, air handlers, existing HVAC Systems and holding frame banks are typical installations. This unit is also commonly applied as a stand-alone filtration system (when incorporated with a fan/blower) to collect manufacturing debris from industrial equipment or work stations. The AUTO-LINE Ink/Lint Master is also employed for quick service and easy access to remote or hard-to-reach applications.

General ventilation filtration and prefiltration of higher efficiency filters can pose real problems with accessibility, cost

and maintenance. BLC's Ink/Lint Master can save you or your customer valuable time and money. Accessibility can be provided upstream or downstream of the air flow, allowing proximity to either side of the air stream. Costs are reduced in two ways. Replacement media cost is significantly less than that of new, replacement filters. And labor cost associated with loading and unloading filter housings or banks is minimal.

As for maintenance, once the media has been installed, the fact that the Ink/Lint Master is an AutoRoll means that this media will automatically be advanced mechanically, based upon a differential pressure system. Minimal labor and no schedule, boxes or bags. The system is virtually worry-free, except for the change-out of expended media rolls and a periodic system maintenance check.

Standard Construction

Construction of the AUTO-LINE Ink/Lint Master provides an assortment of inherent or standard equipment features that can be applied to different air handling applications. Its standard construction incorporates a variety of system preferences that may be employed: pressure control, automatic heavy duty outside drive, and polyester roll media. Built-in options, quality and economy, practical applied solutions — Air Filtration equipment designed for tomorrow today...

FACTORY ASSEMBLED. BLC's Ink/Lint Master is 100% factory assembled and is provided as a single-section unit or multiple-sections unit as specified. All components for immediate system operation are supplied. Only site installation and electrical hook-up are required.

AUTOMATIC. Media advancement for this unit is automatic and incorporates an electrical control system which signals the heavy duty motor to advance the media.

PRESSURE CONTROL SYSTEM. The control system is 120 volt primary and 24 volt secondary. It uses a differential pressure switch to advance the filter media. The differential pressure switch is factory preset at 0.75 inch W.G. All standard systems are rated NEMA 1. Other control systems and NEMA ratings are available under the options. All systems are provided with: a media run-out switch on each filter section, a jog switch, a media run-out signal light and a manual push button advance.

ELECTRICAL INSTALLATION. The only field wiring required is for 120 V. 50/60 HZ. single-phase power supply. The media run-out switch(s) and jog switch are prewired and mounted at the factory. The switch(s) are connected in the field — on multiple sections or remote boxes only — by means of plug-in receptacles in the control box.

HEAVY DUTY MOTOR. The Ink/Lint Master drive is located outside of the air stream. The standard drive motor is a Heavy Duty 1/3 HP capacitor start 120 V. 50/60 HZ. single-phase and is

provided with thermal overload protection. Such a motor can drive up to three (3) sections of the Ink/Lint Master's Filter. (Larger units require a second drive.) The outside drive necessitates field mounting due to shipping purposes. This demands only four (4) bolts (supplied) for mounting the drive to prelocated holes.

GEAR-REDUCER. The Heavy Duty 1/3 HP motor comes with a separate gear-reducer for added performance.

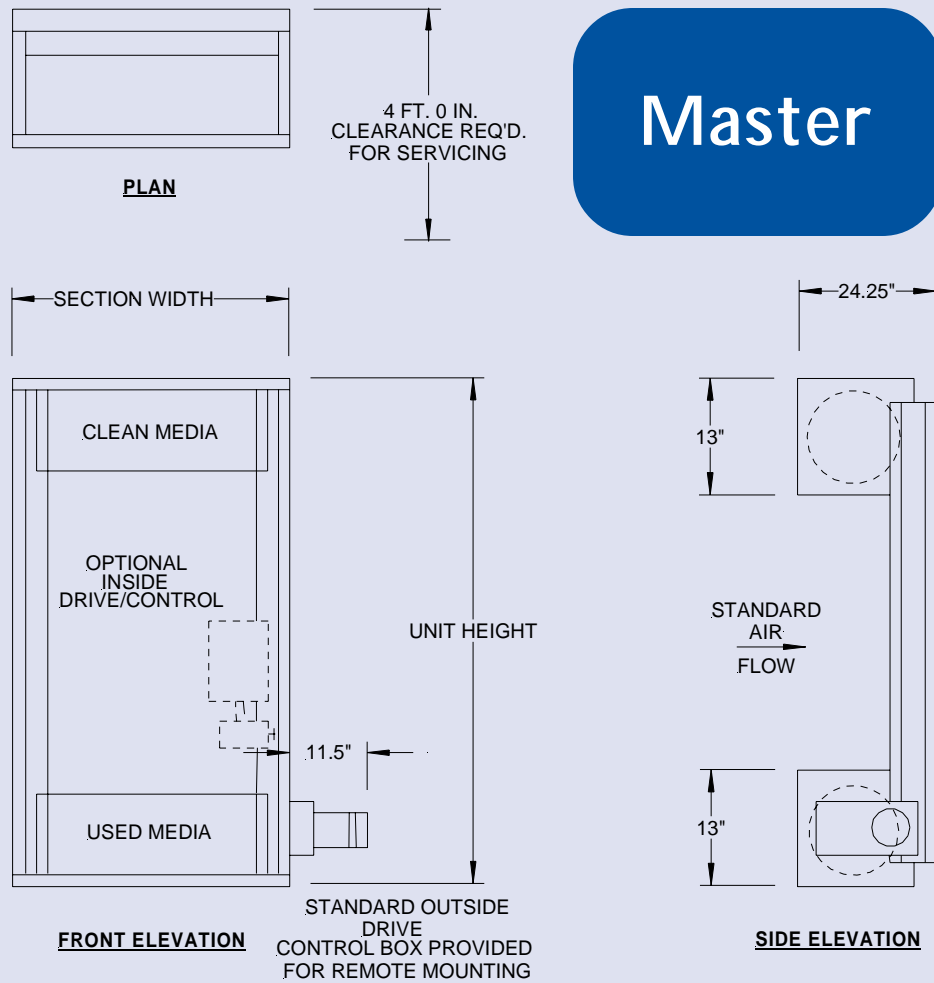
MATERIAL OF CONSTRUCTION. All sheet metal components are manufactured of aluminized steel. This offers an improved overall appearance and better corrosion resistance when compared to galvanized steel. All fasteners and hardware have a corrosion-resistant finish. Rollers and bearing surfaces use oil lite bushings and prothene HZL high impact plastics.

STAINLESS STEEL MEDIA SUPPORT. An Expanded Stainless Steel Media Support forces particulates to impregnate the media, layer heavily and accumulate across its surface, until efficiently rolled onto the used media take-up roll.

CLEAN/USED MEDIA ROLL COVER. A clean/used media roll cover is provided on each section of the Ink/Lint Master. It protects the integrity of the open media blanket.

ROLL MEDIA SUPPLY. Each AUTO-LINE Ink/Lint Master is provided with an initial supply of filter media: either BLC-type NCM media or BLC-type PCM media. Type NCM media, at a weight of 0.75 ounces per square yard, is an excellent choice for the removal of lint, oil mists and smokes, fine dusts in high concentrations, textile dusts and tobacco dusts. It is supplied on a 1,500 feet roll and produced from spun bonded thin profile all polyester fiber. Type PCM media is supplied on a 450 feet roll and produced from low denier, thin profile all polyester fiber with a polypropylene scrim reinforced backing. It is an excellent choice for particulate removal of cotton dusts, flour dusts, monomer and polymer dusts, and other fine dusts in high concentrations. Users benefit in all areas: lower costs, better efficiency and less maintenance time.

INK/LINT MASTER



MODEL NUMBER KEY
ILM12L130

Capacity Chart

ILM- Ink/Lint Master
12- Width Code
L- Lint Master (Model)
130- Unit Height in inches

In CFM @ 350/500 FPM through net effective Media area.

MODEL & UNIT HEIGHT IN INCHES	Width Code*	04		08		12		16		20	
	ACTUAL WIDTHS	3' 11"		7' 10"		11' 9"		15' 8"		19' 7"	
	FPM	350	500	350	500	350	500	350	500	350	500
*L060	4984	7120	9968	14240	14952	21360	19936	28480	24920	35600	
*L065	5474	7820	10948	15640	16422	23460	21896	31280	27370	39100	
*L070	5978	8540	11956	17080	17934	25620	23912	34160	29890	42700	
*L075	6479	9255	12957	18510	19436	27765	25914	37020	32393	46275	
*L080	6976	9965	13951	19930	20927	29895	27902	39860	37878	49825	
*L085	7476	10680	14952	21360	22428	32040	29904	42720	37380	53400	
*L090	7973	11390	15946	22780	23919	34170	31892	45560	39865	56950	
*L095	8470	12100	16940	24200	25410	36300	33880	48400	42350	60500	
*L100	8971	12815	17941	25630	26912	38445	35882	51260	44853	64075	
*L105	9468	13525	18935	27050	28403	40575	37870	54100	47338	67625	
*L110	9968	14240	19936	28480	29904	42720	39872	56960	49840	71200	
*L115	10465	14950	20930	29900	31395	44850	41860	59800	52325	74750	
*L120	10962	15660	21924	31320	32886	46980	43848	62640	54810	78300	
*L125	11459	16370	22918	32740	34377	49110	45836	65480	57295	81850	
*L130	11960	17085	23919	34170	35879	51255	47838	68340	59798	85425	
*L135	12457	17795	24913	35590	37370	53385	49826	71180	62283	88975	
*L140	12957	18510	25914	37020	38871	55530	51828	74040	64785	92550	
*L145	13454	19220	26908	38440	40362	57660	53816	76880	67270	96100	
*L150	13951	19930	27902	39860	41853	59790	55804	79720	69755	99650	
*L155	14452	20645	28903	41290	43355	61935	57806	82580	72258	103225	
*L160	14949	21355	29897	42710	44846	64065	59794	85420	74743	106775	

Ink/Lint Master: Construction Options

Options, experience, expertise, and a real working knowledge of HVAC systems and filtration applications. These characteristics define and differentiate BLC's Ink/Lint Master from other products commonly available. Options that are practical applied solutions to meet the very specific application requirements of today's industry. Controls, drive, air flow, access and economy options. With such a wide variety of available features, BLC can certainly meet your particular application...

TYPE 304 or 316 STAINLESS STEEL. For an alternate material of construction, all sheet metal components can be manufactured of type 304 or 316 Stainless Steel.

HAND-OFF AUTO SWITCH. This control system may be specified in the event that a temporary overload dust condition would occur that the standard control would not react to.

ELECTRICAL RATINGS. Control systems are available utilizing various NEMA ratings (NEMA 3, 4, 4X, 7, 9 and 12 controls, including the explosion-proof groups).

JACKSHAFT DRIVE. The Heavy Duty drive can be combined with a jackshaft for each media section. Each section is driven by a jackshaft/chain and sprocket drive. This arrangement can drive up to three (3) sections at a time. (For Ink Master only.)

REVERSE AIR FLOW. For applications which require change-out of roll media from the "clean air" side, the orientation of the unit can be changed to reverse the air flow. When this option is used, additional support mechanisms are provided. (For Ink Master only.)

USED MEDIA COMPRESSION PANEL. A used media compression panel can be used to generate and maintain tension on the used media take-up core, for compressed roll take-up.

HIGH EFFICIENCY FILTERS. Some applications require using BLC's Ink/Lint Master as an automatic prefilter ahead of high efficiency bag or rigid cell filters. This option incorporates a high efficiency filter system as an integral part of the assembly. Consult factory for further details.

Standard Stainless Steel Media Support



An Expanded Stainless Steel Media Support forces particulates to impregnate the media, layer heavily and accumulate across its surface, until efficiently rolled onto the Used Media take-up roll.

One Year All Parts Warranty

BLC Industries, Inc. guarantees the AUTO-LINE Ink/Lint Master machine to be free from defects in materials of construction or workmanship for a period of one (1) year from the date of shipment, when installed in accordance with equipment instructions.

Within that time, any defective part will be replaced on a "NO CHARGE" basis. Provided the defective part is returned to the factory (freight prepaid by the customer). Replacement parts are F.O.B. Louisville, Kentucky. All returned parts must be accompanied by a Return of Goods Authorization. Please notify BLC Industries, Inc. of intent to return goods.

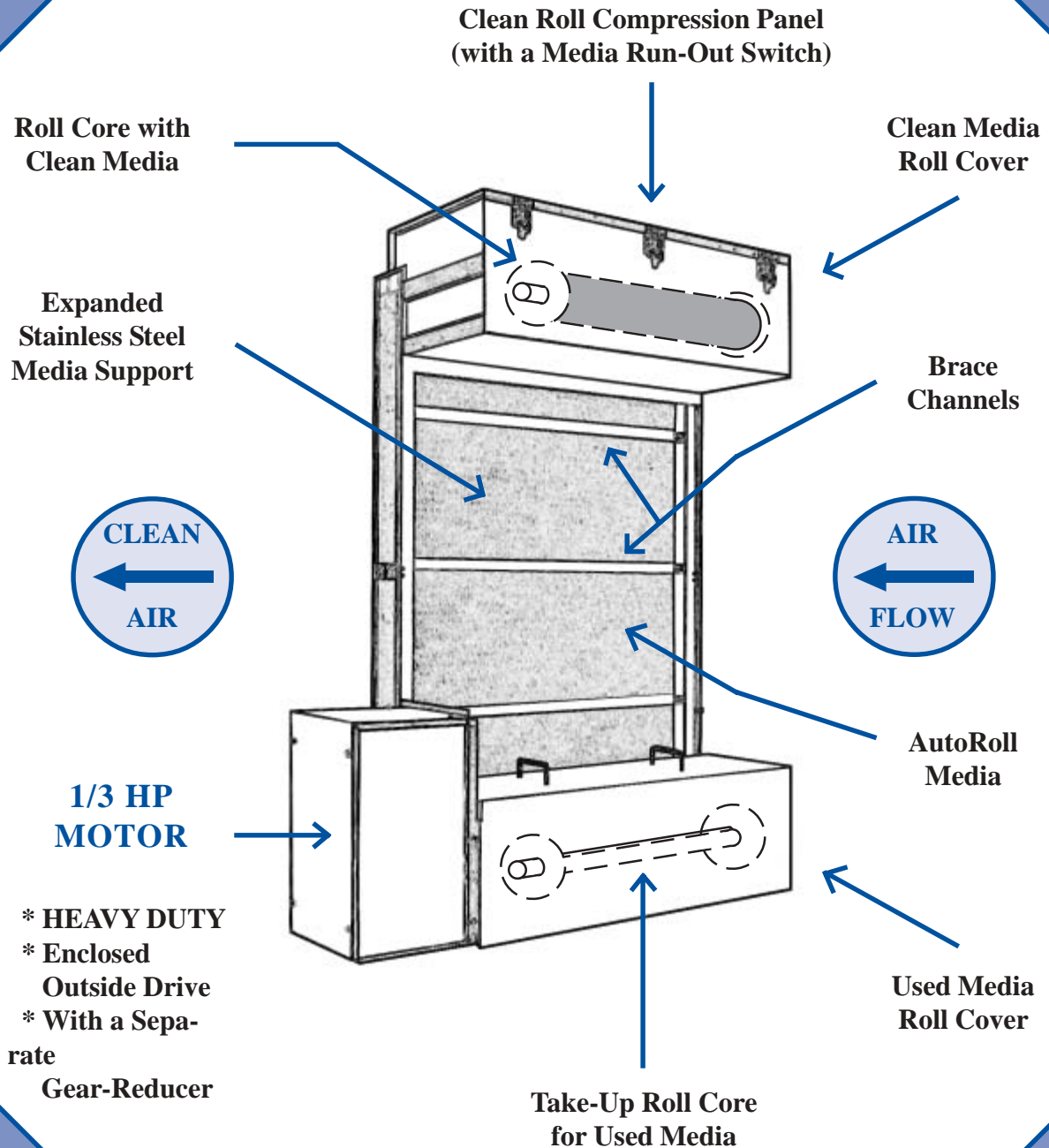
NOTE: This warranty is not valid when replacement filter media is supplied by those other than BLC Industries, Inc.

**SPECIFICATION
DATA**
AUTO-LINE™
SERIES ILM
SPD-ALILM-03A
JANUARY 2003

AUTOMATIC
AIR
FILTRATION
EQUIPMENT

AUTO-LINE™
INK/LINT MASTER
INK/LINT AUTOMATIC ROLL

CLEAN MEDIA END



- * **HEAVY DUTY**
- * **Enclosed
Outside Drive**
- * **With a Sepa-
rate
Gear-Reducer**

USED MEDIA END

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MECHANICAL SPECIFICATIONS - AUTO-LINE ILM AUTOROLL

STANDARD UNIT CONSTRUCTION

Material of Construction: The ILM AutoRoll unit shall be provided fully assembled and meet sizes and capacities shown on plans and listed in the equipment schedule. All sheet metal components shall be constructed of aluminized steel and all fasteners and hardware shall be provided with a corrosion resistant finish. All roller and bearing surfaces shall use oil lite bushings and high impact plastics.

Media Advancement: Filter media for the ILM AutoRoll unit shall be advanced automatically (mechanically); per specifications and customer requirements.

Fixed Media Support Screen: An expanded stainless steel media support screen shall force particulates to impregnate the media, layer heavily and accumulate across its surface, until efficiently rolled onto the Used Media take-up roll.

Control System for Automatic Units: The AutoRoll's control system shall be rated NEMA 1. Power shall be 120 volt, supplied with a 24 volt step-down transformer. Control shall be differential pressure. The differential pressure switch shall be factory set at 0.75" W.G. All systems shall be provided with a media run-out switch on each section, a media run-out signal light and a manual push button for media advancement. The drive motor shall be actuated by the pressure switch which will cause the media to be advanced in small increments only when dust lint or ink reaches the set point of the differential pressure switch.

Electrical Installation: The ILM AutoRoll unit shall require only field connection of a 120 Volt 50/60HZ single-phase power supply for operation purposes. The media run-out switch(s) shall be prewired and factory mounted. Switch(s) shall be provided with connectors for plug-in receptacles located on the control box.

Drive/Motor: The drive motor shall be heavy duty drive. The heavy duty drive shall be externally mounted and consist of a 1/3 HP capacitor start 120V 50/60 HZ single-phase motor with a separate gear-reducer. The reducer shall directly drive the media take-up core and drive up to three (3) sections of roll media at a time.

Clean/Used Media Roll Cover: The roll cover shall protect the integrity of the open media blanket. Each section to be provided with a used or clean media roll cover (or both).

Clean Roll Compression Panel: A clean media roll compression panel and system design shall provide tension across the media face to ensure a compressed take-up roll of used media.

Roll Media Supply: An initial supply of roll media shall be provided for the ILM AutoRoll. The roll media shall be either BLC type "NCM" Polyester or BLC type "PCM" Polyester. Type "NCM" media is produced from spun bonded thin profile all polyester fiber. At a weight of 0.75 ounces per square yard, it is supplied on a 1,500' roll. The relatively low initial pressure drop of 0.36" W.G. at 500 FPM allows for high flow rates. Suggested final resistance is 1.0" W.G. Type "PCM" media is produced from low denier, thin profile all polyester fiber with a polypropylene scrim reinforced backing. It is supplied on a 450' roll. Initial resistance is 0.09" W.G. at 500 FPM. Suggested final resistance is 1.0" W.G.

UNIT OPTIONS

Specify **Electrical Rating for Control System** if other than standard NEMA 1 rating is to be provided. NEMA 3 through 13 ratings are available (including the explosion-proof groups). Consult factory for further details.

Specify **Reverse Air Flow** for applications which require change-out of roll media from the "clean air" side. The orientation of the unit can be changed to reverse the air flow. When this option is used, additional support mechanisms are provided. (For Ink Master only.)

Specify **Jackshaft Drive** since the Heavy Duty drive can be combined with a jackshaft for each media section. Each section is driven by a jackshaft/chain and sprocket drive. This arrangement can drive up to three (3) sections at a time. (For Ink Master only.)

Specify **Stainless Steel Construction** for alternate material of construction. Available in 304 or 316 stainless steel.

Specify **High Efficiency-Secondary Stage** where system requires higher efficiency final filters. Consult factory.

**TECHNICAL
DATA
AUTO-LINE™
SERIES ILM
TD-ALILMI01-A
JANUARY 2003**

**AUTOMATIC
AIR
FILTRATION
EQUIPMENT**

**AUTO-LINE™
SERIES ILM
INSTALLATION AND OPERATION
INSTRUCTIONS**

INSTALLATION AND OPERATION INSTRUCTIONS

*For 12 pages of complete Installation and Operations Instructions,
Please select Technical Data Information (TD-ALILM)
located in the Ink/Lint Master Auto-Roll Section.*

INK/LINT MASTER AUTO ROLL

ORDER NUMBER: _____

SERIAL NUMBER: _____

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