

DE-120 Blade Drift Eliminator

BLADE TYPE D. E. PRODUCT SPECIFICATION

The media is to be manufactured by Brentwood Industries, or equal and will meet the following specifications:

1. Scope:

ACCU-PAC₀ DE-120 blade type drift eliminator designed to remove entrained water droplets from the leaving air stream at minimum pressure losses in either counter-flow or cross-flow cooling towers.

2. Material of Construction:


A. General

The drift modules shall be fabricated from rigid, corrugated PVC sheets that are conducive to cooling water and UV protected. The drift modules shall be resistant to rot, fungi, bacteria and inorganic/organic acids and alkalies as commonly found in cooling towers.

B. PVC SHEETS

The PVC sheet shall be prime, rigid PVC conforming to commercial standard ASTM D1784:12344B to 12454B with the following properties:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Specific Gravity	D-792	gm./cu.cm.	1.45 max.
Tensile Strength	D-638/D-882	psi	6000 min.
Flexural Modulus	D-790	psi	425,000 min.
Flexural Strength	D-790	psi	10,000 min.
Elastic Modulus	D-638/D-882	psi	360,000 min.
Izod Impact	D-256	ft.lbs./in.	1.0 min.
Impact Resistance	D-4226	in. lbs./mil	0.8 min.
Heat Deflection	D-648	°F(264 psi)	160 min.
Flame Spread Rating	E-84		Less than 15
Flammability	D-635		Self-extinguishing, less than 5 sec.

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	MODEL NO.:									REVISIONS					
	DWG NAME:									REV.	DESCRIPTION	DESIGNED BY:	CHECKED BY:	APPROVED BY:	DATE:
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SCALE: NO SCALE		COMMENTS:													

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C. Chemical

Resistance to Grease, Fats & Oils	Excellent	ASTM D722-45
Resistance to Acids	Excellent	ASTM D543
Resistance to Alkalies	Excellent	ASTM D543

The PVC sheets shall be of uniform thickness and free from holes, air bubbles, foreign matter, undispersed raw material or other manufacturing defects which may adversely affect their performance.

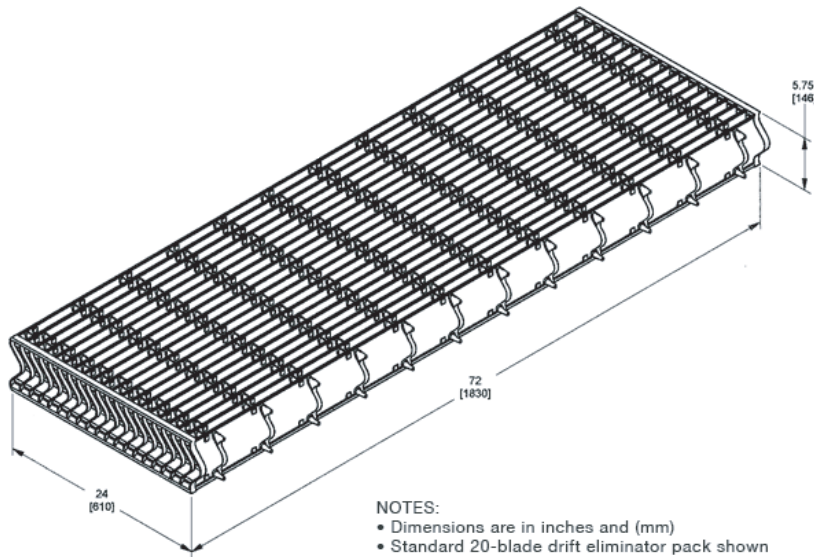
D. Drift Modules

1. The eliminators shall be the blade multipass type with end caps to provide extra structural integrity for beam strength and durability.
2. The drift modules shall be able to span a minimum 6 ft. at design conditions with a minimum of deflection.
3. The eliminators shall be of the nesting type to insure a seamless installation and prevent bypass of the drift droplets.
4. Eliminators used in cross-flow applications must be designed with special drainage to insure the captured drift droplets are not reentrained into the air stream.
5. The eliminators shall be fitted into the interior of the tower to prevent drift in excess of 0.005% of the inlet water-flow rate and guaranteed for all operating conditions.
6. The mass drift quantity shall be determined by the CTI STD-140 HBIK drift test code or the EPA method 13 A system of analysis. Drift quantity shall not exceed the guarantee of .005%
7. Material used for the eliminators shall be suitable for continuous operation at the maximum discharge air temperature possible.
8. Eliminators shall be PVC or CPVC as required by the temperature of the environment, and shall be fire resistant with a maximum flame spread rate of 15 or less according to ASTM method E-84. A certified test report showing that the cellular eliminator will meet this flame spread rate is required.
9. The drift modules shall measure up to 24 inches wide, 5 3/4" in depth and up to 12 ft. long.

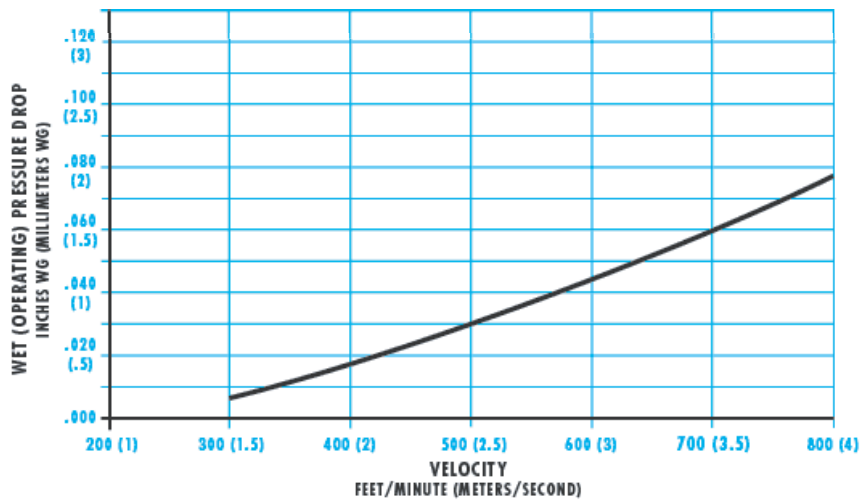
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	DWG NAME							NO SCALE	SCALE	1" = 1'	SHEET	1 of 1		
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Blade Thickness	Dry Weight		Maximum Span
	lbs/ft ²	kg/m ²	
.025 in (.64 mm)	.90	4.4	6 ft. (1.8 m)
Blade Spacing	Module Dimensions		
	Depth	Width	Length
1.200 in (30.5 mm)	5.75 in (146 mm)	24 in (610 mm)	1 to 12 ft. in 2 ft. increments (305 to 3660 mm in 610 mm increments)



- NOTES:
- Dimensions are in inches and (mm)
 - Standard 20-blade drift eliminator pack shown



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