

TurboJoule

Ficha Técnica

Características Generales del Extractor Atmosférico, TurboJoule.

Nuestro extractor TurboAtmosférico TurboJoule VentDepot, ha revolucionado la eficiencia en extracción de las industrias, está fabricado 100% en Aluminio.

Definitivamente es la forma más económica y óptima para ventilar naves industriales, con gastos nulos en mantenimiento. Cuenta con garganta de salida extragrande de 28", 36" y 48" para mayor capacidad de extracción.

Dos baleros de alta tecnología, con balas de acero inoxidable, 21 aspas aerodinámicamente curvadas con un total de 42 AquaCanales.

Impermeable a la lluvia, marco SpiderPro, resistente a vientos de hasta 180 Km/Hr y sistema de suspensión.

Cuello ajustable a techumbres inclinadas de hasta 45°.

Estos equipos **ahorran energía eléctrica** y son de mantenimiento nulo.

Diseñado con normas internacionales y aprobado por la I.V.S. (Industrial Ventilation Society).

Solo la Turbina está aprobada contra huracanes por el condado de Dade en Florida, Certificado #01.0614.04

Aplicaciones del Extractor Atmosférico, TurboJoule.

Extrae: Calor, vapor, humo, olores solventes y gases.

Para uso en: Ventilación general en bodegas de grandes dimensiones, naves industriales, talleres, almacenes y/o lugares con alta salinidad o humedad, fábricas, etc.

Garantía del Extractor Atmosférico, TurboJoule.

30 (Treinta) años de Garantía certificados por escrito en todas las partes y funcionamiento, sujeto a las cláusulas.



Características Técnicas Específicas

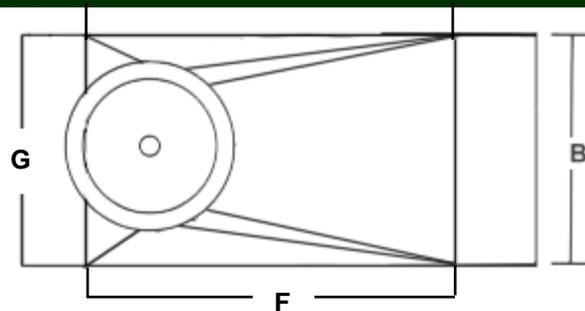
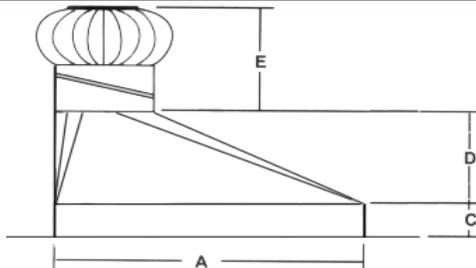
Clave	Garganta		Caudal		Material	Incluye	Peso y dimensiones con empaque de cartón y/o plástico	
	mm	pulg	m3/hr	CFM			Kg	cm
MXTUJ-001	711	28	3206	1885	Aluminio	Base de Extracción 28", Cuello y Turbina	6	75x56x60 + 60x60x60
MXTUJ-002	914	36	3883	2284	Aluminio	Base de Extracción 36", Cuello y Turbina	8	95x56x60 + 60x60x60
MXTUJ-003	1220	48	4719	2775	Aluminio	Base de Extracción 48", Cuello y Turbina	10	125x56x60 + 60x60x60

Características de Fabricación del Extractor Eólico, TurboJoule

Características de los Materiales de Alta Calidad de Primera Calidad utilizados en la Fabricación de nuestro TurboExtractor en Base a las Normas ASTM B209 y ASTM B221 en Extractores Atmosféricos o Eólicos Industriales:

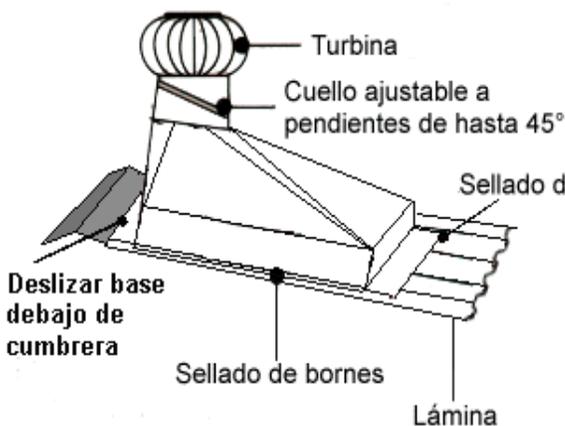
- Aspas del Extractor Atmosférico o Eólico de 0.019" 3105 H-14, Aluminio Laminado.
- Base del Extractor Atmosférico o Eólico de 0.024" 5005 H-32, Aluminio Laminado.
- Cuello del Extractor Atmosférico o Eólico de 0.0305" 3105 H-14, Aluminio Laminado.
- Domo del Extractor Atmosférico o Eólico de 0.032" 5005-0, Aluminio Laminado.
- Marco Spider Strong Brace del Extractor Atmosférico o Eólico de 0.125" 6063-T5, Aluminio Extruido.
- Bracket del Rotor del Extractor Atmosférico o Eólico de 0.125" 6063-T5, Aluminio Extruido.
- Marco Spider Strong Shaft del Extractor Atmosférico o Eólico de 0.500" 2011, T-3, Aluminio Extruido.
- Acabado del Extractor Atmosférico o Eólico de Durathane Horneado aplicado en fábrica de 0.8mm sobre cubierta y mínimo 0.3mm al lavado de espesor.

Dimensiones



Clave	A		B		C		D		E		F		G	
	mm	pulg	mm	pulg	mm	pulg	mm	pulg	mm	pulg	mm	pulg	mm	Pulg
MXTUJ-001	711	28	559	22	152	6	305	12	508	20	101	4	152	6
MXTUJ-002	914	36	559	22	152	6	305	12	508	20	101	4	152	6
MXTUJ-003	1220	48	559	22	152	6	305	12	508	20	101	4	152	6

Montaje



Perforar un agujero de el techo con las siguientes dimensiones (mm):

Reforzar láminas con solera y/o ángulos.

Fijar y sujetar con remaches, pijas o tornillos.

Finalmente impermeabilizar.

VentDepot Team, monta, instala o da mantenimiento a cualquiera de nuestros equipos, de forma rápida, segura y conforme a las normas industriales.



Clave	F
MXTUJ-001	671
MXTUJ-002	874
MXTUJ-003	1180

Funcionamiento



Por viento entra en operación con tan solo 2.5 Km/hr. Este TurboJoule Industrial cuenta con el mayor nivel de sensibilidad posible. Cuando otros equipos similares comienzan a girar el TurboJoule ya término de ventilar.

Por acumulación de calor, entra en operación con 3°C. Mismo efecto con presión positiva o sistemas de inyección.

Los Baleros Implementados



Como sabemos, los baleros son el corazón de todos los mecanismos giratorios, a diferencia de los competidores, estos TurboJoules son los únicos que se fabrican

con los mejores baleros del mundo. Baleros concéntricos a 0.0015 mm. Soldado ultrasónico para un sellado perfecto. Nueve balas con una resistencia de más de media tonelada. Sellado permanente (deja el lubricante dentro y el polvo afuera).

Fórmula para Cálculo de Extracción de un TurboJoule.

De las fórmulas siguientes elegir la fórmula del TurboJoule correspondiente.

Capacidad de Extracción para modelo **MXTUJ-001**

$$\text{Extracción* MXTUJ-001} = (0.818 + [0.0303 \times A]) \times (121.5 + [103.4 \times V] + [11.6 \times G] + [5.6 \times T]) \times 1.42$$

Capacidad de Extracción para modelo **MXTUJ-002**

$$\text{Extracción* MXTUJ-002} = (0.818 + [0.0303 \times A]) \times (121.5 + [103.4 \times V] + [11.6 \times G] + [5.6 \times T]) \times 1.72$$

Capacidad de extracción para modelo **MXTUJ-003**

$$\text{Extracción* MXTUJ-003} = (0.818 + [0.0303 \times A]) \times (121.5 + [103.4 \times V] + [11.6 \times G] + [5.6 \times T]) \times 2.09$$

A = Altura de montaje del TurboJoule, en metros.

V = Velocidad del viento media anual, en km/hr.

G = Gradiente Térmico medio anual, en °C, (Temp. Int. - Temp. Ext.)

T = Temperatura Regional media anual, en °C. Ver Tabla.

*La capacidad de extracción de aire está dada en m³/hr.

A continuación, hemos elaborado tablas de capacidades de extracción en base a las fórmulas anteriores, facilitando los cálculos.

Criterio de Cálculo para para la Capacidad de Extracción de un Equipo

En base a la tabla inferior ubicar la región donde se van a instalar los TurboExtractores, para obtener la velocidad de viento y temperatura media anual. Ejemplo: **Ciudad de México = Velocidad del viento (15) Temp. (18).**

Estado	Viento Km/Hr	Temp. °C	Estado	Viento Km/Hr	Temp. °C	Estado	Viento Km/Hr	Temp. °C
Aguascalientes	10	19	Guerrero	11	27	Quintana Roo	13	28
Baja California norte	14	17	Hidalgo	16	15	San Luís Potosí	15	18
Baja California Sur	12	25	Jalisco	8	20	Sinaloa	11	27
Campeche	12	28	México	14	20	Sonora	13	24
Chiapas	18	22	Michoacán	10	24	Tabasco	11	29
Chihuahua	9	20	Morelos	7	20	Tamaulipas	10	26
Ciudad de México	15	18	Nayarit	10	12	Tlaxcala	11	15
Coahuila	11	19	Nuevo León	8	12	Veracruz	15	26
Colima	10	27	Oaxaca	10	21	Yucatán	12	26
Durango	12	13	Puebla	15	17	Zacatecas	11	26
Guanajuato	14	20	Querétaro	7	18			

Posteriormente elegir en las tablas de la siguiente hoja, la cantidad de calor que se siente o produce dentro de la nave, evaluando con las siguientes opciones:

Ejemplo: Nave Industrial donde tenemos hornos (Este caso sería un lugar donde se está acumulando mucho calor, entonces la tabla correspondiente sería: "**Área o lugar con Mucho Calor**", y en base a la ubicación regional de Chiapas, la capacidad de extracción de cada TurboJoule modelo MXTUJ-003 instalado en esa zona es de **5567 m³/Hr**).

Capacidad de Extracción de MXTUJ-001

Área o Lugar con Poco Calor

Diferencial Térmico (Temp. Interior - Exterior) de 0 a 15 °C

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	1599*	1615	1632	1649	1664	1681	1697	1714	1730	1747
	9	1903	1920	1935	1953	1968	1985	2002	2018	2035	2052
	11	2207	2224	2241	2256	2273	2289	2306	2323	2339	2356
	13	2512	2528	2545	2560	2577	2594	2610	2627	2643	2660
	15	2816	2833	2849	2866	2881	2898	2915	2931	2948	2964
	17	3120	3137	3152	3169	3185	3202	3219	3235	3252	3267
	18	3272	3289	3304	3321	3337	3354	3371	3387	3404	3419

Área o Lugar con Calor Regular

Diferencial Térmico (Temp. Interior - Exterior) de 16 a 24 °C

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	1366*	1378	1389	1401	1412	1424	1436	1447	1459	1470
	9	1580	1592	1603	1615	1626	1638	1650	1661	1673	1684
	11	1795	1807	1818	1830	1841	1853	1865	1876	1888	1899
	13	2009	2021	2032	2044	2055	2067	2079	2090	2102	2113
	15	2223	2235	2246	2258	2269	2281	2293	2304	2316	2327
	17	2438	2450	2461	2473	2484	2496	2508	2519	2531	2542
	18	2545	2557	2568	2580	2591	2603	2615	2626	2638	2649

Área o Lugar con Mucho Calor

Diferencial Térmico (Temp. Interior - Exterior) de 25 °C en adelante

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	1940*	1957	1972	1989	2005	2022	2039	2055	2072	2087
	9	2244	2261	2276	2293	2309	2326	2343	2359	2376	2391
	11	2549	2566	2582	2599	2614	2631	2648	2664	2681	2697
	13	2853	2870	2885	2902	2918	2935	2952	2968	2985	3000
	15	3157	3174	3189	3206	3222	3239	3256	3272	3289	3304
	17	3462	3479	3495	3512	3527	3544	3561	3577	3594	3610
	18	3614	3631	3647	3664	3679	3696	3713	3729	3746	3762

Capacidad de Extracción de MXTUJ-002

Área o Lugar con Poco Calor

Diferencial Térmico (Temp. Interior - Exterior) de 0 a 15 °C

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	1937*	1956	1976	1997	2016	2036	2055	2076	2095	2116
	9	2305	2325	2344	2365	2384	2405	2425	2444	2465	2485
	11	2673	2694	2714	2733	2754	2773	2793	2814	2833	2853
	13	3043	3062	3082	3101	3122	3142	3161	3182	3201	3222
	15	3411	3431	3450	3471	3490	3511	3531	3550	3571	3590
	17	3779	3799	3818	3839	3858	3879	3899	3918	3939	3958
	18	3963	3984	4002	4023	4042	4063	4083	4102	4123	4142

Área o Lugar con Mucho Calor

Diferencial Térmico (Temp. Interior - Exterior) de 16 a 24 °C en adelante

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	2122*	2143	2162	2195	2202	2222	2243	2262	2282	2301
	9	2491	2511	2530	2551	2570	2590	2611	2630	2651	2669
	11	2860	2881	2900	2921	2939	2960	2981	3000	3020	3039
	13	3228	3249	3268	3289	3308	3328	3349	3368	3388	3407
	15	3597	3617	3636	3657	3676	3696	3717	3736	3756	3775
	17	3965	3985	4004	4025	4044	4064	4085	4104	4125	4143
	18	4149	4169	4188	4209	4228	4248	4269	4288	4309	4328

Área o Lugar con Mucho Calor

Diferencial Térmico (Temp. Interior - Exterior) de 25 °C en adelante

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	2350*	2370	2389	2410	2429	2449	2470	2489	2509	2528
	9	2718	2738	2757	2778	2797	2817	2838	2857	2878	2896
	11	3087	3108	3127	3148	3167	3187	3208	3227	3247	3266
	13	3455	3476	3495	3516	3535	3555	3576	3595	3615	3634
	15	3824	3844	3863	3884	3903	3923	3944	3963	3984	4002
	17	4193	4214	4233	4254	4272	4293	4314	4333	4353	4372
	18	4377	4398	4417	4438	4457	4477	4498	4517	4537	4556

*La capacidad de extracción de aire está dada en m3/hr.

Las capacidades de extracción de aire están medidas a una altura de 8 metros.

Capacidad de Extracción de MXTUJ-003

Área o Lugar con Poco Calor

Diferencial Térmico (Temp. Interior - Exterior) de 0 a 15 °C

		Temperatura de la Región (°C).									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	2353*	2376	2401	2426	2449	2475	2498	2523	2546	2571
	9	2801	2826	2849	2874	2897	2922	2947	2970	2995	3020
	11	3248	3273	3298	3321	3346	3369	3394	3419	3442	3467
	13	3697	3720	3745	3768	3793	3818	3841	3867	3889	3915
	15	4144	4170	4193	4218	4241	4266	4291	4314	4339	4362
	17	4592	4617	4640	4665	4688	4713	4738	4761	4786	4809
	18	4815	4840	4863	4889	4912	4937	4962	4985	5010	5033

Área o Lugar con Mucho Calor

Diferencial Térmico (Temp. Interior - Exterior) de 16 a 24 °C en adelante

		Temperatura de la Región (°C).									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	2579*	2604	2627	2667	2675	2700	2725	2748	2773	2796
	9	3026	3051	3074	3099	3122	3148	3173	3196	3221	3244
	11	3476	3501	3524	3549	3572	3597	3622	3645	3670	3693
	13	3923	3948	3971	3996	4019	4044	4069	4092	4117	4140
	15	4370	4395	4418	4443	4466	4491	4516	4539	4565	4588
	17	4817	4843	4866	4891	4914	4939	4964	4987	5012	5035
	18	5041	5066	5089	5114	5137	5162	5187	5210	5235	5258

Área o Lugar con Mucho Calor

Diferencial Térmico (Temp. Interior - Exterior) de 25 °C en adelante

		Temperatura de la Región (°C)									
		12	14	16	18	20	22	24	26	28	30
Vel. Viento Km/Hr	7	2855*	2880	2903	2928	2951	2976	3001	3024	3049	3072
	9	3302	3327	3350	3375	3398	3423	3449	3471	3497	3520
	11	3752	3777	3800	3825	3848	3873	3898	3921	3946	3969
	13	4199	4224	4247	4272	4295	4320	4345	4368	4393	4416
	15	4646	4671	4694	4719	4742	4767	4792	4815	4840	4863
	17	5095	5121	5143	5169	5192	5217	5242	5265	5290	5313
	18	5319	5344	5367	5392	5415	5440	5465	5488	5513	5536

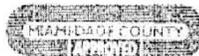
*La capacidad de extracción de aire está dada en m³/hr.

Las capacidades de extracción de aire están a una altura de 9 metros.

VentDepot Inc. APPENDIX for NOTICE OF ACCEPTANCE (NOA) Supported by MIAMI-DADE COUNTY FLORIDA™ to LOMANCO, INC.™ accepted by the BOARD OF RULES AND APPEALS (BORA)™



BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION



NOA No.: 15-0831.08
 Expiration Date: 12/22/20
 Approval Date: 11/05/15

VentDepot, Inc.
 233 S Cerritos Ave.
 Azusa, CA 91702

This Appendix provides information about VentDepot, Inc. products, regarding the NOA issued for Lomanco, Inc. applicable rules and regulations governing the use of construction materials to VentDepot, Inc. official and only company that represents and distributes Lomanco, Inc.™ and its products in Mexico, Central America, South America and the Caribbean.

The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes.

This product distributed by VentDepot, Inc. in representation for Lomanco, Inc. is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone of the Florida Building Code.

• **DESCRIPTION:**

- BIB-14/BEB14 WhirlyBird® Wind Turbine.
- VentDepot TurboVent USETE-001
- VentDepot Turbo Extractor MXETE-001
- VentDepot TurboJoule MXTUJ-001, MXTUJ-002, MXTUJ-003
- VentDepot EcoTon MXTNT-001, MXTNT-002, MXTNT-003, MXTNT-004, MXTNT-005, MXTNT-006, MXTNT-007, MXTNT-008, MXTNT-009, MXTNT-010, MXTNT-011, MXTNT-012

Above VentDepot products are the equivalent on Lomanco BIB-14/BEB14 WhirlyBird® Wind Turbine.

Each product shall bear a permanent label with the manufacturer's name, Lomanco logo, state and the

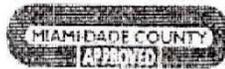


following statement:

VentDepot Inc. APPENDIX for NOTICE OF ACCEPTANCE (NOA) Supported by MIAMI-DADE COUNTY FLORIDA™ to LOMANCO, INC.™ accepted by the BOARD OF RULES AND APPEALS (BORA)™



BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION



ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Ventilation
Type: Turbine
Materials: Aluminum
Deck: Wood

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
BIB-14/BEB14 WhirlyBird®	22" wide at base 17-1/8" high Base 0.0253" thick Elbow & Dome 0.032" thick Vanes 0.19" thick Rotr Band 0.0305"thick Extrusions 0.125" thick	TAS 100(A)	14" diameter opening turbine ventilation system

VentDepot Inc. APPENDIX for NOTICE OF ACCEPTANCE (NOA) Supported by MIAMI-DADE COUNTY FLORIDA™ to LOMANCO, INC.™ accepted by the BOARD OF RULES AND APPEALS (BORA)™



MIAMI-DADE COUNTY
 BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY VentDepot, Inc. representative of Lomanco, Inc.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
USETE-001	22" wide at base 23" high 23" depth, 14"Ø Neck, 2bearings Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXETE-001	22" wide at base 23" high 23" depth, 14"Ø Neck, 2bearings Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTUJ-001	28" x 22" base 37" high 53" wide 47 depth Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTUJ-002	36" x 22" base 41" high 61" wide 47 depth Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTUJ-003	48" x 22" base 41" high 73" wide 47 depth Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-001	32" x 86" base 17" high 13" wide 34" depth 3 Neck 14"Ø, 2 slopes Galvanized	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-002	32" x 86" base 17" high 13" wide 34" depth 3 Neck 14"Ø, 1 slope Galvanized	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-003	32" x 86" base 17" high 13" wide 34" depth 3 Neck 14"Ø, 2 slopes Powder Coated paint	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-004	32" x 86" base 17" high 13" wide	TAS 100(A)	17" diameter opening turbine

VentDepot Inc. APPENDIX for NOTICE OF ACCEPTANCE (NOA) Supported by MIAMI-DADE COUNTY FLORIDA™ to LOMANCO, INC.™ accepted by the BOARD OF RULES AND APPEALS (BORA)™



BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY VentDepot, Inc. representative of Lomanco, Inc.

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
MXTNT-005	32" x 86" base 17" high 13" wide 34" depth 3 Neck 14"Ø, 2 slopes Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-006	32" x 86" base 17" high 13" wide 34" depth 3 Neck 14"Ø, 1 slopes Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-007	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 2 slopes Galvanized	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-008	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 1 slopes Galvanized	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-009	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 2 slopes Powder Coated paint	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-010	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 1 slopes Powder Coated paint	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-011	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 2 slopes Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system
MXTNT-012	32" x 130" base 17" high 13" wide 34" depth 5 Neck 14"Ø, 1 slopes Aluminum	TAS 100(A)	17" diameter opening turbine ventilation system

VentDepot Inc. APPENDIX for NOTICE OF ACCEPTANCE (NOA) Supported by MIAMI-DADE COUNTY FLORIDA™ to LOMANCO, INC.™ accepted by the BOARD OF RULES AND APPEALS (BORA)™



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION



LIMITATIONS:

1. Refer to applicable building codes for required ventilation.
2. This acceptance is for installations over asphaltic shingle or low slope roofing.
3. The BIB-14/BEB14 WhirlyBird[®] Wind Turbine, **VentDepot TurboVent** USETE-001, **VentDepot Turbo Extractor** MXETE-001, **VentDepot TurboJoule** MXTUJ-001, MXTUJ-002, MXTUJ-003, **VentDepot EcoTon** MXTNT-001, MXTNT-002, MXTNT-003, MXTNT-004, MXTNT-005, MXTNT-006, MXTNT-007, MXTNT-008, MXTNT-009, MXTNT-010, MXTNT-011, MXTNT-012 turbine roof ventilators shall not be installed on roof mean heights greater than 33ft.

DETAILED DRAWINGS:

The detailed drawings of BIB-14/BEB14 WhirlyBird[®] Wind Turbine, **VentDepot TurboVent** USETE-001, **VentDepot Turbo Extractor** MXETE-001, **VentDepot TurboJoule** MXTUJ-001, MXTUJ-002, MXTUJ-003, **VentDepot EcoTon** MXTNT-001, MXTNT-002, MXTNT-003, MXTNT-004, MXTNT-005, MXTNT-006, MXTNT-007, MXTNT-008, MXTNT-009, MXTNT-010, MXTNT-011, MXTNT-012 turbine roof ventilators are shown in page 4 to 5



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Lomanco, Inc.
2101 W. Main Street
Jacksonville, AR 72076

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: BIB-14/ BEB-14 WhirlyBird® Wind Turbine

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA # 05-0823.06 consists of pages 1 through 5.
The submitted documentation was reviewed by Alex Tigera.



ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Ventilation
Type: Turbine
Materials: Aluminum
Deck: Wood

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
BIB-14/ BEB-14 WhirlyBird®	22" wide at base 17-1/8" high Base 0.0253" thick Elbow & Dome 0.032" thick Vanes 0.019" thick Rotor Band 0.0305" thick Extrusions 0.125" thick	TAS 100(A)	14" diameter opening turbine ventilation system.

MANUFACTURING LOCATION

1 Jacksonville, AR

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
PRI Asphalt Technologies, Inc.	LOM-019-02-01	TAS 100(A)	09/01/10



APPROVED ASSEMBLY:

- System Type A:** Mechanical attachment of turbine vent over composite shingles
- Cutout:** At chosen location (see Lomanco instructions for proper placement) and centered between two roof rafters, cut a 14" diameter hole through shingles and sheathing boards. Seal around top and sides of hole with approved roofing cement.
- Installation** Determine roof pitch in compliance with Lomanco instructions and align roof pitch number on elbow with indicator line on flashing. Place three short screws through holes that line up with pre-drilled holes in base.

Place mounting base unit flat on the shingles on its flashing, and coat underside of base flashing with roofing cement. In its pitch-adjusted position, carefully slide upper half of flashing up roof beneath shingles previously rolled back until base is centered over cutout. Rolling back the shingles where necessary, and rechecking pitch setting for vertical alignment, secure the base unit to the roof deck with a minimum of fourteen ring shank roofing nails, equally spaced, approximately 3/4" from edge of base per detail drawing "Base". Nails shall be of sufficient length to penetrate through roof sheathing a minimum of 1/2". Apply roofing cement to underside of shingles overlapping flashing, and press them down onto the flashing.

Rotate top of elbow to level position by turning counterclockwise. Place locking clamp across seam and tighten as shown in Lomanco instructions with approved sheet metal screw. Seal all seams and nails with approved roofing cement.

Position whirlybird on the base. Line up the pre-drilled holes in the brackets and base and fasten with approved long sheet metal screws.

After installation, verify that whirlybird turns freely. If necessary, minor adjustment may be made by gently prying lowest point of turbine upward to remove any wobble.

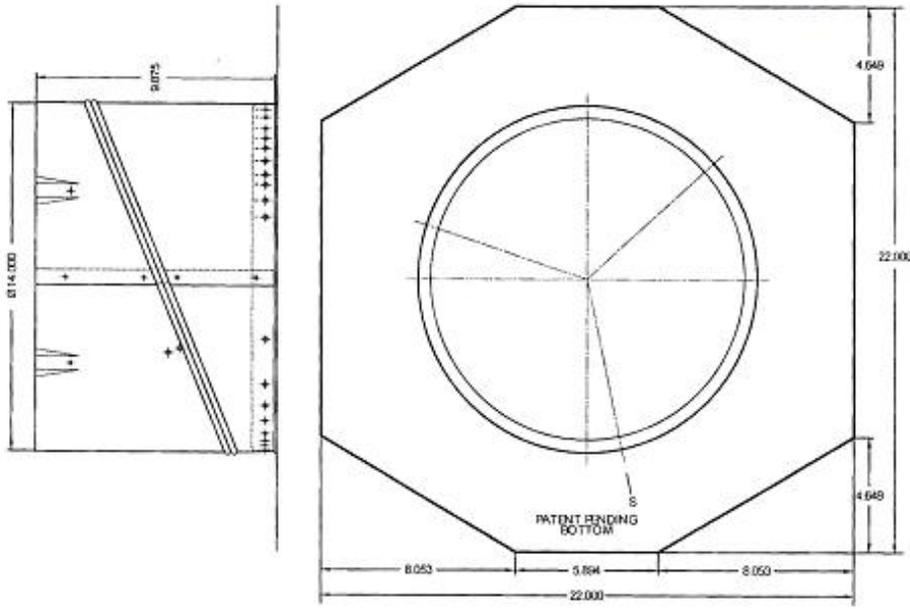
- Net Free Area:** Refer to manufacturers published literature.
- Slope:** Minimum 2" on 12"

LIMITATIONS:

1. Refer to applicable building codes for required ventilation.
2. This acceptance is for installations over asphaltic shingle or low slope roofing.
3. BIB-14/BEB-14 Whirlybird® turbine roof ventilators shall not be installed on roof mean heights greater than 33 ft



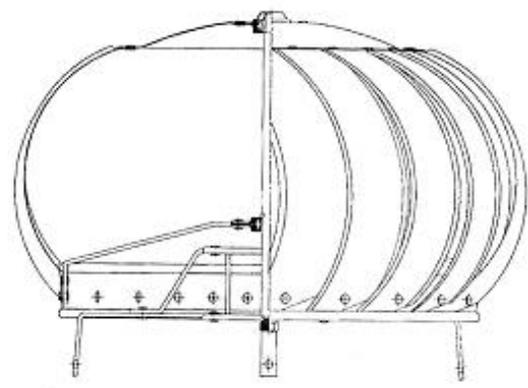
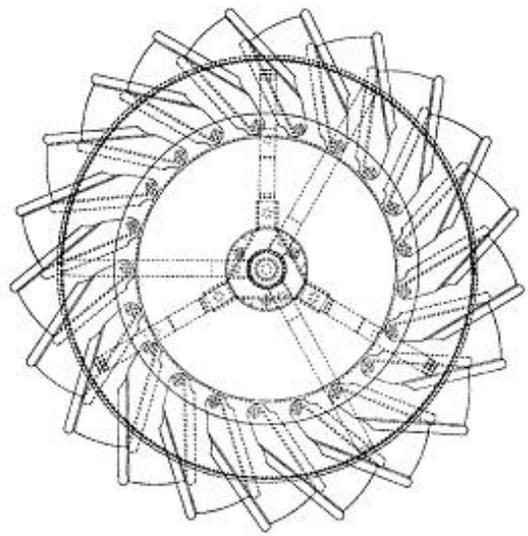
DETAIL DRAWINGS



Base



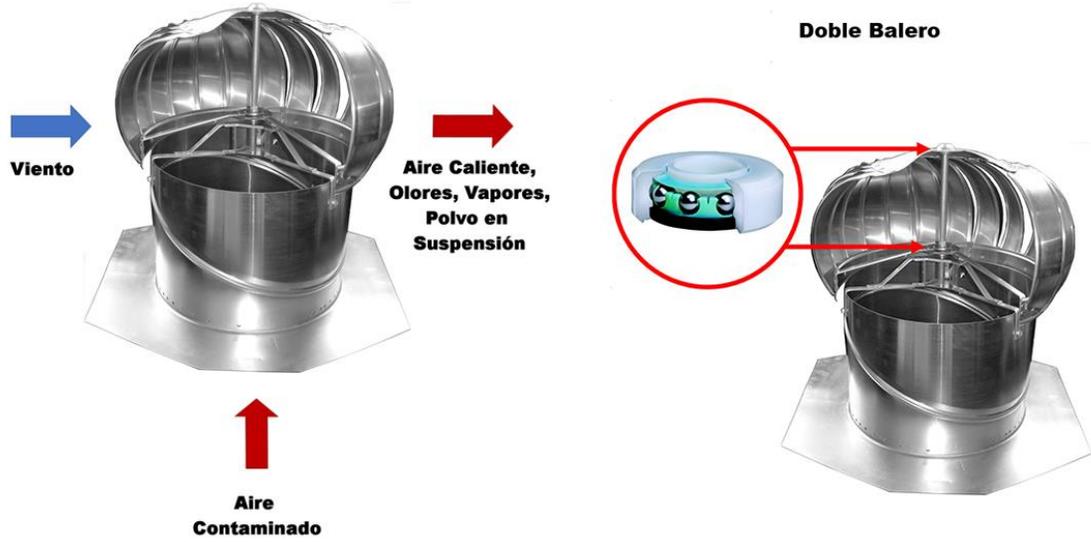
DETAILED DRAWINGS (CONTINUED)



BIB-14, BEB-14
 END OF THIS ACCEPTANCE



Galería de imágenes del Extractor Eólico, TurboJoule



100 % Aluminio

