

Appendix

# City Hall Park Kiosk

Community & Economic Development Office

City Of Burlington, Vermont

6 March 2024



Wade and Leta

Studio SEO

Harris Structural Engineering

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# Thermal Insulation

# EnergyShield® Pro

Continuous Wall Insulation

## Polyiso Rigid Foam Insulation

### PRODUCT DATA SHEET

#### DESCRIPTION

Atlas EnergyShield® Pro is a high performance thermal insulation board composed of a closed cell polyisocyanurate foam core with a reflective aluminum foil facer on one side and a white acrylic-coated aluminum foil facer on the other.

#### APPLICATIONS

Provides continuous insulation for Type I-V construction.

- Exterior framed walls with wood or steel studs
- Exterior walls of masonry or concrete
- Exterior framed walls with or without sheathing
- Interior exposed walls or ceilings
- Attics and crawlspaces without requiring a thermal barrier
- Air and water resistive barrier when installed accordingly

#### PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUES
COMPRESSIVE STRENGTH	ASTM D1621	25 psi
FLAME SPREAD	ASTM E84 / UL 723	≤25
SMOKE DEVELOPMENT	ASTM E84 / UL 723	≤450
WATER VAPOR TRANSMISSION, METHOD A	ASTM E96	≤0.1 Perm at 1-inch
WATER ABSORPTION	ASTM C209/ASTM C1763	< 1% by Volume
FLEXURAL STRENGTH	ASTM C203	40 psi, min @
DIMENSIONAL STABILITY, LENGTH & WIDTH	ASTM D2126	≤1% Linear Change
SERVICE TEMPERATURES	-	-100°F to +250°F
MOLD RESISTANCE	UL 2824	4, Highly Resistant
AIR PERMEANCE	ASTM E2178	<0.02L/s·m <sup>2</sup> @ 75 Pa

Technical and physical properties listed are representative of typical values based on testing and are intended as general guidelines only and subject to manufacturing tolerances. No warranties are given except for those specifically written by Atlas for its products.

#### SUSTAINABILITY

Atlas polyiso insulation is manufactured using environmentally responsible processes and formulations.

- Contains no CFCs, HCFCs or HFCs
- Zero Ozone Depletion Potential (ODP)
- Negligible Global Warming Potential (GWP)
- GREENGUARD Gold Certification
- Contributes to LEED credits

For more information visit

[wall.atlasrwi.com/about-wall/sustainability](http://wall.atlasrwi.com/about-wall/sustainability)

#### ADVANTAGES

EnergyShield Pro provides multi-functional protection by addressing the necessary control layers to create a high performing wall assembly and provides installation efficiency.



THERMAL



WATER



AIR



VAPOR

#### CODE COMPLIANCE

- **ASTM C1289 Type I, Class 1 and 2**
- **ASHRAE 90.1**
- **ASHRAE 189.1**
- **International Energy Conservation Code (IECC), Section 402**
- **International Green Construction Code (IgCC)**
- **International Building Code (IBC), Section 2603**
- **International Residential Code (IRC), Section R316**
- **California Thermal Insulation Directory, T 1231**
- **ASTM E2178** Air Barrier Material
- **ASTM E2357** Air Barrier Assembly
- **ASTM E331** Water Penetration
- **ICC-ES AC71** Water-Resistive Barrier
- **DrJ TER 2202-01** Weather Resistive Properties
- **ICC-ES ESR-1375**
- **ICC-ES AC12, Appendix A**
- **DrJ TER 1306-03** Fire Performance
- **ASTM E84 / UL 723, Class A**
- **NFPA 285** Compliant within numerous wall assemblies
- **ANSI/UL 263 / ASTM E119:** 1, 2, 3 or 4 hour Fire Rated Assemblies as listed in the UL Product iQ™
- **NFPA 286** Interior exposed walls or ceilings only

# EnergyShield<sup>®</sup> Pro

Continuous Wall Insulation

## Polyiso Rigid Foam Insulation

### PRODUCT DATA SHEET

#### PRODUCT DATA

NOMINAL THICKNESS	R-VALUE *	RSI	RECYCLED CONTENT	PIECES PER PACKAGE	SQ. FT. PER PACKAGE
0.5"	3.3	0.58	9.2%	86	2,752
0.75"	5.0	0.88	10.5%	58	1,856
1.0"	6.5	1.14	11.2%	45	1,440
1.5"	9.8	1.73	12.1%	30	960
1.6"	10.5	1.85	12.3%	27	864
2.0"	13.1	2.31	12.6%	22	704
2.5"	16.0	2.82	13.0%	18	576
3.0"	19.7	3.47	13.2%	15	480
3.1"	20.2	3.56	13.2%	15	480
3.5"	22.2	3.91	13.4%	13	416
4.0"	26.0	4.58	13.5%	11	352

\*Thermal values were determined by ASTM C518 Test Method at 75°F mean temperature using materials conditioned in accordance with ASTM C1289.

\*"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

Additional sizes available upon request. EnergyShield Pro is shipped on standard 48' truck with 24 packages per load. Truckload quantities may vary when mixed.

FOR A COMPLETE LIST  
OF PRODUCT SIZES,  
SCAN TO DOWNLOAD THE  
PACKAGE & LOADING GUIDE



#### PRECAUTIONS

- Polyiso may contribute to flames and smoke spread when exposed to an ignition source of sufficient heat and intensity.
- Always follow local building code requirements.
- EnergyShield Pro should be covered within 60 days after installation.

#### WARRANTY

EnergyShield Pro is backed by a Limited 15-Year Thermal Warranty.

For complete terms and conditions, visit  
[wall.atlasrwi.com/warranty](http://wall.atlasrwi.com/warranty)

#### STORAGE AND PRE-INSTALLATION INSPECTION

- Refer to Technical Bulletin 16 for detailed information on storage recommendations.
- Insulation shall be kept clean and dry and be protected from damage due to weather and physical abuse at all times.
- Prior to installation, ensure that the insulation and substrate are clean, dry and free of ice, dirt, oils, or any other material that could impede correct installation of the insulation or subsequent material layers.
- Do not install if surface conditions of the insulation or adjacent materials will impede correct installation.



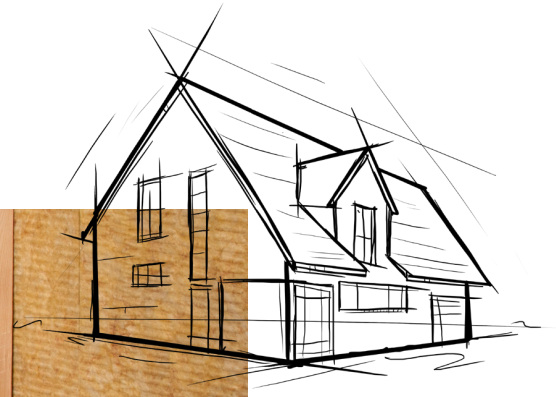
Atlas Roofing Corporation  
2000 Riveredge Parkway, Suite 800 • Atlanta, GA • 30328  
770-952-1442 • [wall.atlasrwi.com](http://wall.atlasrwi.com)



## Mineral Wool Batt Insulation

# Comfortbatt®

Thermal Batt Insulation



ROCKWOOL Comfortbatt® is a semi-rigid stone wool batt insulation for exterior wood and steel stud applications in both new construction and renovations.

It features a unique flexible edge designed to compress as the batt is inserted then spring back, expanding the batt against the frame studs to give a complete fill. This flexibility ensures the expected R-value is achieved and maintained.

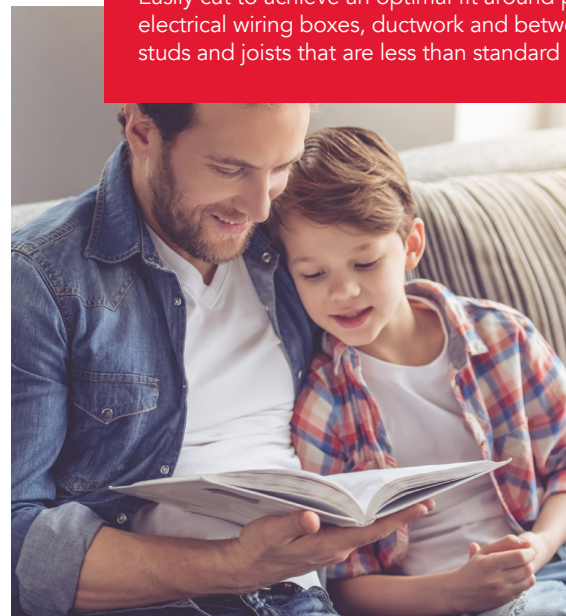
Non-combustible and fire resistant, Comfortbatt® will not develop toxic smoke or promote flame spread, even when exposed directly to a fire. It also offers water and moisture resistance and excellent sound absorbency.

Comfortbatt® is an effective way to improve a home's energy efficiency. It is GREENGUARD Gold Certified and contributes to a healthier indoor environment.

Learn more at [rockwool.com](http://rockwool.com)

### Easy Fit

Easily cut to achieve an optimal fit around pipes, electrical wiring boxes, ductwork and between studs and joists that are less than standard width.



# Mineral Wool Batt Insulation

Technical Data Sheet

Batt Insulation 07210\*  
Blanket Insulation 07 21 16\*\*

**Comfortbatt®**  
Thermal Batt Insulation

**ROCKWOOL Comfortbatt® is a mineral wool batt insulation designed for thermal resistance in wood and steel framing.**

	Performance	Test Standard	
Compliance	Mineral Fiber Thermal Insulation for Buildings, Type 1 Compliant	ASTM C665	
Reaction to Fire	Flame spread index = 0; Smoke developed index = 0 Determination of Non-combustibility of Building Materials - Non-combustible	ASTM E84 (UL 723) ASTM E136	
Density	> 2 lbs/ft <sup>3</sup> (>32 kg/m <sup>3</sup> )	ASTM C167	
Thermal Resistance	Wood Stud	Steel Stud	
	R13 (2.29) - 3.5" thick (89 mm)		R10 (RSI 1.76) - 2.5" thick (64 mm)
	R15 (RSI 2.64) - 3.5" thick (89 mm)		R15 (RSI 2.64) - 3.5" thick (89 mm)
	R21 (3.70) - 5.5" thick (140 mm)		R24 (RSI 4.23) - 6" thick (152 mm)
	R23 (RSI 4.05) - 5.5" thick (140 mm)		R30 (RSI 5.28) - 7.25" thick (184 mm)
	R30 (RSI 5.28) - 7.25" thick (184 mm)		R32 (RSI 5.64) - 8" thick (203 mm)
	R38 (6.69) - 9.5" thick (241 mm)		
		ASTM C518	

Dimensions	Wood Stud 16" (406 mm) on center: 15.25" x 47" (387 mm x 1194 mm)
	Wood Stud 24" (610 mm) on center: 23" x 47" (584 mm x 1194 mm)
	Steel Stud 16" (406 mm) on center: 16.25" x 48" (413 mm x 1219 mm)
	Steel Stud 24" (610 mm) on center: 24.25" x 48" (616 mm x 1219 mm)



Issued 08-01-2020  
Supersedes 08-23-17

NOTE: \*Master Format 1995 Edition \*\*Master Format 2004 Edition. As ROCKWOOL has no control over installation design and workmanship, accessory materials or application conditions, ROCKWOOL does not warranty the performance or results of any installation containing ROCKWOOL's products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty is in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

# Surface Film



# Anti-Graffiti Protective Vinyl

## MagicProtect Matt ASLAN SL 99

### Matt protection film with highly repellent effect

The matt protection film made from a special top-coated polymeric softened PVC for smooth and 2D-surfaces. It features a highly repellent coating protecting prints successfully against graffiti, dirt and other surface vandalism. The effect is like water on a lotus blossom – the paint is dripping off while spraying. This prevents completing the graffiti as the “work” cannot be finished.

The film can be applied onto digital prints and on smooth and rough surfaces and protects the prints perfectly. Also, paint residues can easily be removed from smooth surfaces only with a damp microfiber cloth and water. For rough surfaces we recommend the use of ASLAN MagicPro Cleaner.

The matt finish harmoniously integrates into the surroundings. MagicProtect Matt ASLAN SL 99 is dedicated to protect surfaces in all public places and transport as well as all areas which are open to the public such as schools, waiting rooms, restrooms, shopping mall indoor and outdoor walls, trains and train stations, airports, carparks, elevators, just all areas which are often unsupervised and tend to suffer vandalism.

For further information or questions regarding special applications please contact our technical advisory service: **+49 2204.708-80**

### Construction

<b>Face film:</b>	PVC, polymeric, transparent, special coating	
<b>Thickness:</b>	~ 80 µm (~ 3.15 mil)	
<b>Adhesive:</b>	pressure sensitive polyacrylate	square quantity: ~ 35 g/m <sup>2</sup>
<b>Release Liner:</b>	double sided PE coated paper	square weight: ~ 140 g/m <sup>2</sup>

### Characteristics

<b>Adhesive strength (ASTM D903):</b>	immediately after 1 week	~ 12,5 N/25mm ~ 22 N/25mm
<b>Dimensional stability:</b>	applied onto aluminium after 48 hours stored at 70 °C (158 °F) (25 x 25 cm)	max. -0,45%
<b>Chemical resistance:</b>	In a preece test of 24 hours the applied film is resistant to most petroleum-based oils, greases and aliphatic solvents, mild acids, alkalis and salts.	
<b>Light proofness:</b>	DIN 53 388	non-fade grade: 7- 8 (wool-scale)
<b>Combustibility:</b>	classified to Euroclass flame retardant standard DIN EN 13501-1 classified to flame retardant standard DIN EN 45545-2 R1/R7/R17 on railway vehicles	
<b>Temperature:</b>	application temperature: service temperature range:	min 5 °C (41 °F) -30 °C (-22 °F) up to +80 °C (176 °F)
<b>Durability:</b>	Up to 3 years outdoors, with vertical exposure, in central European standard climatic conditions.	

# Kitchen Appliance

# Undercounter Freezer

**SUMMIT**

## ALFZ51



31.63" x 23.38" x 23.38" (H x W x D)

Built-in undercounter ADA compliant frost-free all-freezer with stainless steel door, black cabinet, door storage, lock, and digital controls

### Highlights:

32" height fits under lower ADA compliant counters

Flexible design allows built-in or freestanding use in 24" wide spaces

Stainless steel door offers an elegant look

### Product Features:

ADA compliant	32" height allows for installation within ADA compliant spaces
Commercially approved	ETL-S listed to NSF-7 commercial standards
Built-in capable	Front-breathing design allows the unit to be built-in under counters
Digital control panel	Makes for easy temperature reading/management with electronic controls inside
Factory installed lock	Keyed lock for secure interior, with two keys included
Stainless steel door	Durable construction with an stylish look
White interior	Classic interior allows for easy cleaning and viewing of products
Adjustable shelving	Three easy-glide shelves that extend 50% give space and flexibility when organizing the interior's contents
Brake shelving system	Provides added safety when loading and unloading the unit's 3 shelves

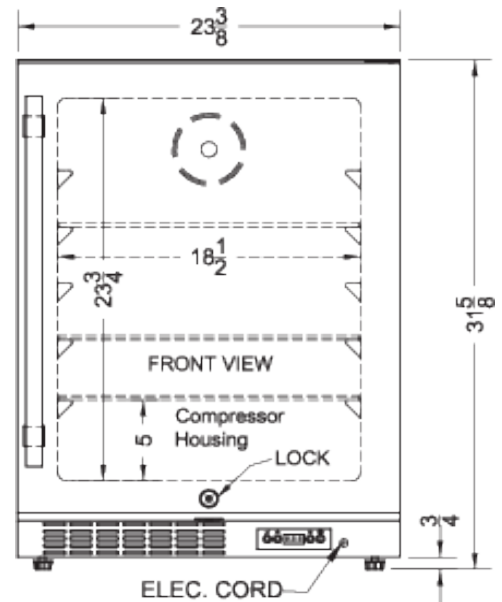
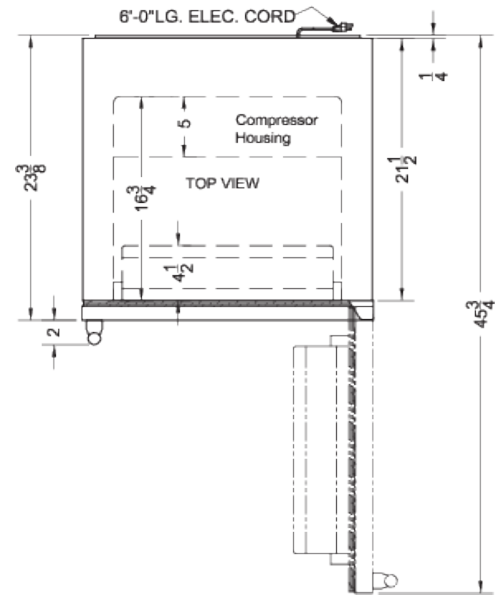
# Undercounter Freezer



## ALFZ51 Specifications:

Overview	
Height of Cabinet	31.63" (80 cm)
Width	23.38" (59 cm)
Depth	23.38" (59 cm)
Depth with Handle	25.38" (64 cm)
Depth with door at 90°	45.75" (116 cm)
Capacity	4.0 cu.ft. (113 L)
Defrost Type	Automatic
Door	Stainless Steel
Cabinet	Black
US Electrical Safety	ETL
Canadian Electrical Safety	ETL-C
Sanitation	ETL-S
Energy Usage/Year	380.0kWh/year
Amps	1.3
Voltage/Frequency	115 V AC/60 Hz
Weight	95.0 lbs. (43 kg)
Shipping Weight	130.0 lbs. (59 kg)
Parts & Labor Warranty	1 Year
Compressor Warranty	5 Years
UPC	761101085043
Freezer	
Door Swing	RHD
Reversible	Yes
Interior Height	23.75" (60 cm)
Interior Width	18.5" (47 cm)
Interior Depth	16.75" (43 cm)
Shelf Type	Glass
Shelf Qty	3
Adjustable Shelves	Yes
Thermostat Type	Digital
Interior Light	Yes
Fan Type	Interior and Exterior
Refrigerant Type	R600a
Refrigerant Amount	1.06 oz.
High Side PSI	150.0
Low Side PSI	50.0
Level Legs	4

Compressor Step Height	5.0" (13 cm)
Compressor Step Width	18.5" (47 cm)
Compressor Step Depth	5.0" (13 cm)
Temperature Range	-11°F to 11°F
Sabbath Mode	Yes
Sound Level	40.1 dB



# Plumbing

# Grease Trap

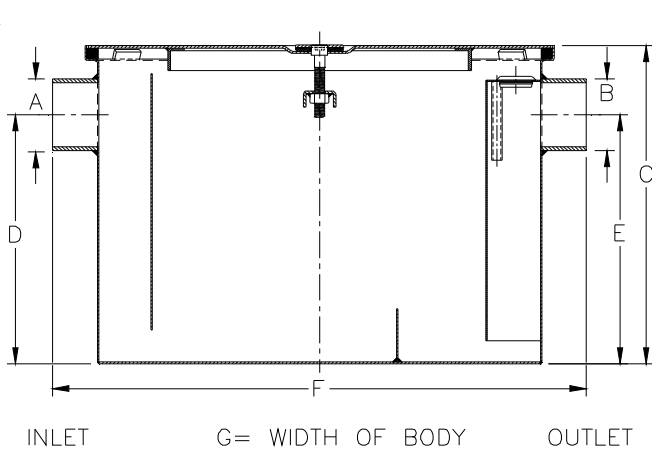


## GT2700 GREASE INTERCEPTOR

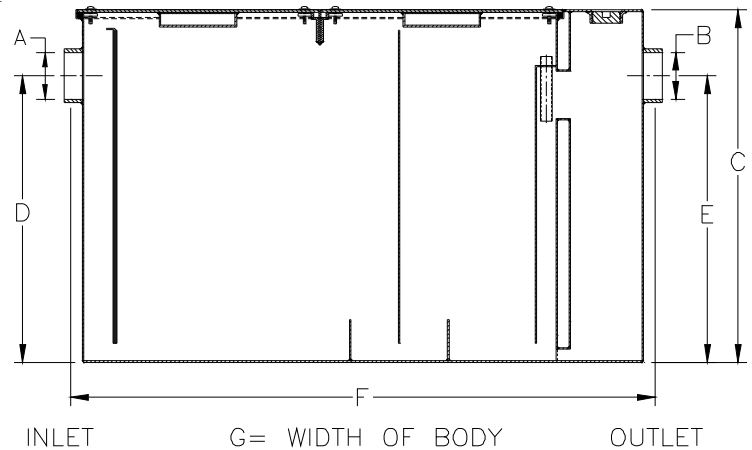
SPECIFICATION SHEET

TAG \_\_\_\_\_

Dimensional Data (inches and [ mm ]) are Subject to Manufacturing Tolerances and Change Without Notice



GT2700-4 through GT2700-50



GT2700-75 & GT2700-100

Model Number	A/B Inlet/Outlet No-Hub	Flow Rate G.P.M. [L]	Capacity Grease lbs. [kg]	Dimension in Inches			
				C	D/E	F	G
___ GT2700-4	2 [51]	4 [15]	8 [4]	10 [254]	7-1/4 [184]	16-3/8 [416]	9-7/8 [251]
___ GT2700-7	2 [51]	7 [26]	14 [6]	11-1/8 [283]	8-1/8 [206]	17-3/4 [451]	11-7/8 [302]
___ GT2700-10	2 [51]	10 [38]	20 [9]	11-3/4 [298]	8-1/4 [210]	19-3/4 [502]	14 [356]
___ GT2700-15	2 [51]	15 [57]	30 [14]	13-3/8 [340]	9-3/8 [238]	21-3/4 [552]	16-3/4 [425]
___ GT2700-20	3 [76]	20 [76]	40 [18]	15 [381]	11-3/4 [298]	24-5/8 [625]	17-1/4 [438]
___ GT2700-25	3 [76]	25 [94]	50 [23]	17 [432]	12-7/16 [316]	26-5/8 [676]	19-7/8 [505]
___ GT2700-35	4 [102]	35 [132]	70 [32]	18-3/4 [476]	14-3/16 [360]	28-1/2 [724]	22-1/2 [572]
___ GT2700-50	4 [102]	50 [189]	100 [45]	21-1/2 [546]	16 [406]	30-3/8 [772]	24-1/2 [622]
___ GT2700-75	4 [102]	75 [283]	150 [68]	22-3/4 [587]	18-1/2 [470]	40-1/4 [1022]	28-5/8 [727]
___ GT2700-100	4 [102]	100 [379]	200 [91]	27 [685]	23 [584]	44 [1118]	33-5/8 [854]

### GT2700 Grease Interceptor

Recommended for removing and retaining grease from wastewater in kitchen and restaurant areas where food is prepared. Grease trap is corrosion-resistant coated fabricated steel with no-hub connections, flow diffusing baffle, integral trap, and vented inlet flow control device.

### OPTIONS

\_\_\_ -JP2700 6 [152] Extension



APPROVED  
Sizes 4 - 50



Sizes 20 G.P.M. - 50 G.P.M.

\* Regularly furnished unless otherwise specified.

# 3 Compartment Commercial Sink

Project: \_\_\_\_\_ Date: \_\_\_\_\_ Approval: \_\_\_\_\_ Qty: \_\_\_\_\_ Item #: 600S31014X

Regency Tables & Sinks

**REGENCY**  
Tables and Sinks

## Regency 39" 16-Gauge Stainless Steel Three Compartment Commercial Sink with Stainless Steel Legs, Cross Bracing, and without Drainboard - 10" x 14" x 12" Bowls

#600S31014X



### Technical Data

<b>Length</b>	39 Inches
<b>Width</b>	19 1/2 Inches
<b>Height</b>	43 3/4 Inches
<b>Bowl Depth</b>	12 Inches
<b>Backsplash Height</b>	7 1/4 Inches
<b>Work Surface Height</b>	36 1/2 Inches
<b>Basket Drain Size</b>	3 1/2 Inches
<b>Bowl Front to Back</b>	14 Inches
<b>Bowl Left to Right</b>	10 Inches
<b>Drain Outlet Size</b>	1 1/2 Inches

### Features

- Made of high-quality 16 gauge, type 304 stainless steel
- Designed with (3) 12" deep bowls and rounded corners for easy cleaning
- Stainless steel legs, sockets, bullet feet, and crossbracing for maximum strength and longevity
- Includes 1 1/2" IPS drain connection and 3 1/2" basket strainers
- Backsplash and rolled edges prevent splashes and overflow

### Certifications

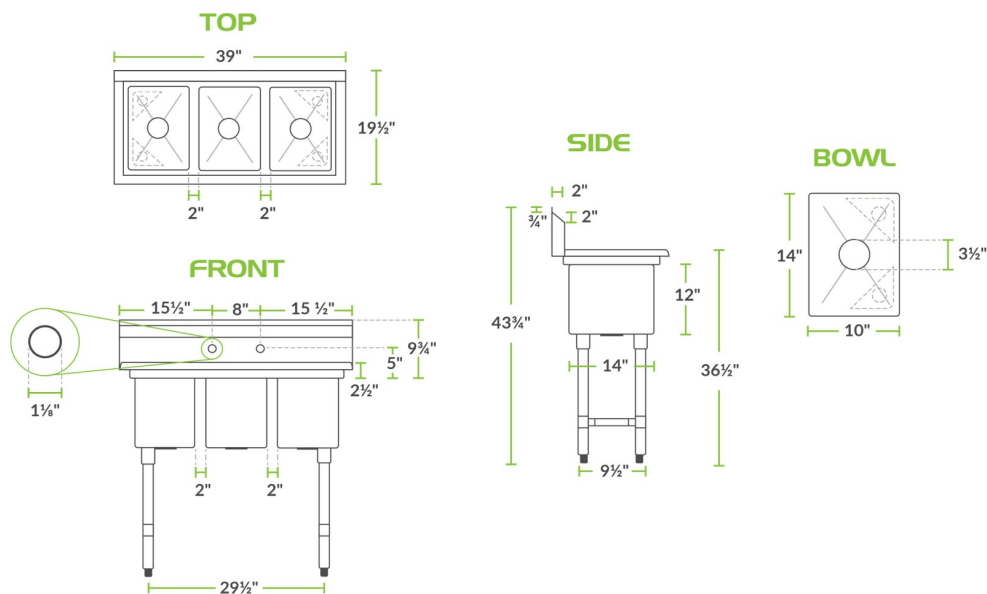


# 3 Compartment Commercial Sink

## Technical Data

Faucet Centers	8 Inches
Features	NSF Listed
Gauge	16 Gauge
Leg Construction	Stainless Steel
Material	Stainless Steel
Number of Compartments	3 Compartments
Stainless Steel Type	Type 304
Style	0 Drainboards
Type	Straight / Line Sinks

## Plan View



## Notes & Details

Outfit your facility with a long-lasting sink with this Regency 39" stainless steel three compartment sink without drainboards. It's constructed from high-quality, 16-gauge type 304 stainless steel, making it more corrosion-resistant and durable than other sinks made from thinner, 18-gauge material. It's dipped a minimum of 1/4" to facilitate better drainage, and the welded construction contributes to the long-lasting use and overall strength of this sink.

The 12" deep bowls are die-stamped to a minimum of 1/4" to ensure proper drainage. Plus, each bowl includes a 3 1/2" basket strainer to catch food debris, which prevents the drain from clogging. For easy cleaning, each compartment has rounded corners so you can rinse and wipe down the sink.

A 7 1/4" tall backsplash is included and comes complete with (2) 1 1/8" diameter holes punched on 8" centers to accommodate 1 faucet (sold separately). This sink also includes a 1 1/2" raised rolled edge, which is 2" tall on the front and both sides to contain splashes and overflow. The legs are constructed of 1 5/8" diameter stainless steel with stainless steel cross-bracing and adjustable plastic feet for added stability. These features serve to prolong the life of your sink while adding exceptional strength to the unit.



# Hand Sink



Project \_\_\_\_\_

Item 522HS1216S      Quantity \_\_\_\_\_

Approval \_\_\_\_\_      Date \_\_\_\_\_

## Steelton 12" x 16" Wall Mounted Hand Sink with Gooseneck Faucet and Side Splashes

Item #522HS1216S

### Special Features

- Includes side splashes, gooseneck faucet, 1 1/2" IPS drain baskets, and mounting bracket
- Sink features a 20 gauge, type 304 stainless steel construction
- 9" x 9" bowl is 5" deep
- 8" high backsplash and side splashes protect surroundings from water damage
- Ideal for washing hands in lower volume kitchens

### Technical Data

<b>Height</b>	13 Inches
<b>Backsplash Height</b>	8 Inches
<b>Bowl Height</b>	5 Inches
<b>Backsplash</b>	With Backsplash
<b>Basket Drain Size</b>	1 1/2 Inches
<b>Bowl Front to Back</b>	9 Inches
<b>Bowl Left to Right</b>	9 Inches
<b>Faucet Centers</b>	4 Inches
<b>Front to Back</b>	16 Inches
<b>Gauge</b>	20 Gauge



### Certifications



# Mechanical

# Water Heater

## STIEBEL ELTRON

Simply the Best

### SHC Mini-Tank Technical Specifications SHC Mini-Réservoir Spécifications Techniques

## Technical Data



Certified to ANSI/UL Std. 174  
Conforms to CAN/CSA Std. 22.2 No. 110

ISO 9001  
CERTIFIED



Tested and certified by WQA against  
NSF/ANSI 372 for lead free compliance

Model	SHC 2.5	SHC 4	SHC 6
Item number	233219	234046	235089
Phase - 60/50 Hz	single	single	single
Voltage	120 V	120 V	120 V
Wattage	1300 W	1300 W	1300 W
Amperage	11.3 A	11.3 A	11.3 A
Nominal water volume	2.65 gal (10 l)	4.0 gal (15 l)	6.0 gal (22.7 l)
Weight empty	15.9 lb (7.2 kg)	19.8 lb (9.0 kg)	26.5 lb (12.0 kg)
Height (includes P&T valve)	18 <sup>11</sup> / <sub>16</sub> " (475 mm)	19 <sup>3</sup> / <sub>4</sub> " (501 mm)	20 <sup>1</sup> / <sub>2</sub> " (520 mm)
Width	11" (280 mm)	12 <sup>5</sup> / <sub>8</sub> " (320 mm)	15 <sup>1</sup> / <sub>8</sub> " (385 mm)
Depth	10 <sup>5</sup> / <sub>8</sub> " (270 mm)	12 <sup>1</sup> / <sub>2</sub> " (318 mm)	15" (380 mm)
Maximum operating pressure	150 psi (10 bar)	150 psi (10 bar)	150 psi (10 bar)
Maximum adjustable temperature	140 °F (60 °C)	140 °F (60 °C)	140 °F (60 °C)
Recovery time	18 minutes	27 minutes	45 minutes
Standby energy loss @ 131 °F (55 °C)	0.37 kWh/day	0.39 kWh/day	0.43 kWh/day
Water connections	brass <sup>1</sup> / <sub>2</sub> " NPT	brass <sup>1</sup> / <sub>2</sub> " NPT	brass <sup>1</sup> / <sub>2</sub> " NPT

## Water Heater

**STIEBEL ELTRON**

Simply the Best

SHC Mini-Tank Technical Specifications  
SHC Mini-Réservoir Spécifications Techniques

## Fiche technique



Certifié à la norme ANSI/UL 174  
Conforme à la norme CAN/CSA  
22.2 No. 110



Testé et certifié par WQA à la  
NSF/ANSI 372 pour une utilisation  
sans plomb.

**ISO 9001**  
CERTIFIÉ

Modèle	SHC 2.5	SHC 4	SHC 6
Numéro de l'article	233219	234046	234046
Phase - 60/50 Hz	monophasé	monophasé	monophasé
Tension	120 V	120 V	120 V
Puissance	1300 W	1300 W	1300 W
Ampérage	11.3 A	11.3 A	11.3 A
Volume nominal d'eau	10 l (2,65 gal)	15 l (4,0 gal)	22,7 l (6,0 gal)
Poids	7,2 kg (15,9 lb)	9,0 kg (19,8 lb)	12,0 kg (26 1/2 lb)
Hauteur	475 mm (17 11/16 po)	501 mm (19 3/4 po)	520 mm (20 1/2 po)
Largeur	280 mm (11 po)	320 mm (12 5/8 po)	385 mm (15 1/8 po)
Profondeur	270 mm (10 5/8 po)	318 mm (12 1/2 po)	380 mm (15 po)
Pression maximale de fonctionnement	10 bar (150 psi)	10 bar (150 psi)	10 bar (150 psi)
Température d'arrivée maximale	60 °C (140 °F)	60 °C (140 °F)	60 °C (140 °F)
Temps de récupération	18 minutes	27 minutes	45 minutes
Perte de chaleur latente @ 55 °C (131 °F)	0,37 kWh / jour	0,39 kWh / jour	0,43 kWh / jour
Raccordements de l'eau	laiton 1/2 po NPT	laiton 1/2 po NPT	laiton 1/2 po NPT

# Cassette Heat Pump Air Handlers

## SUBMITTAL DATA SHEET



**BM09MCC** **Cassette Heat Pump Air Handlers**

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
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Indoor unit code	453076222
Indoor unit model	BM09MCC
Certified	UL  US

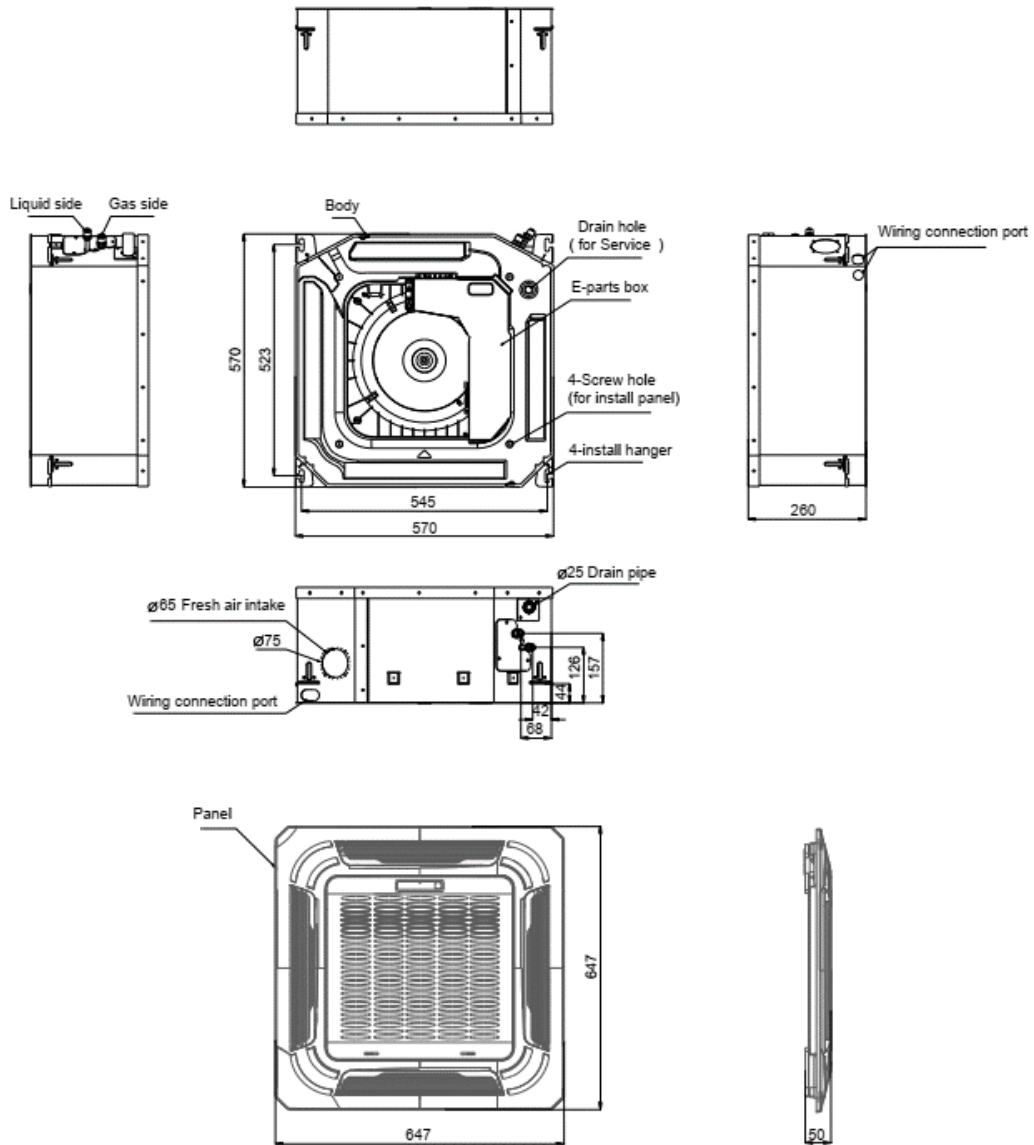


INDOOR UNIT DATA		
<b>Power supply</b>		
Normal Operational Voltage (V, Ph, Hz)		208/230, 1, 60
Voltage Range (V)		187-253
<b>Indoor fan motor</b>		
Type		Cross-Flow
Model		ZKFP-46-8-1
Qty		1
Input (W)		45.0
RLA (A)		-
LRA (A)		-
Winding Resistance (Ω)		-
Capacitor (uF)		-
Speed(Hi/Mi/Lo) (r/min)		600/520/460

INDOOR UNIT DATA		
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (CFM)		352.94/305.88/270.59
Indoor noise level (Hi/Med/Lo) [dB(A)]		39.5/36/32.5
<b>Dehumidification</b> (Pint/H)		---
<b>Indoor unit</b>		
Dimension (WxDxH) (inch)		22.44x22.44x10.24
	(mm)	570x570x260
Packing(WxDxH) (inch)		26.06x26.06x12.48
	(mm)	662x662x317
Net/Gross weight (lbs.)		31.97/38.14
	(kg)	14.5/17.3
<b>Liquid side/ Gas side</b> (inch)		1/4" / 3/8"
	(mm)	6.35/9.52
<b>Application area</b> (sq.ft)		129.17~193.75
	(m2)	12~18

# Cassette Heat Pump Air Handlers

## Indoor unit dimension






# Heat Pump

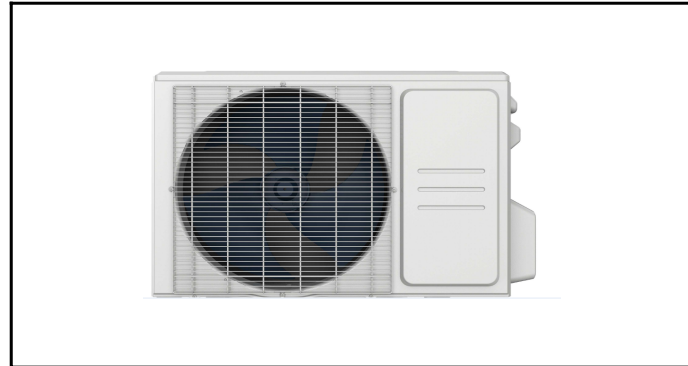
## SUBMITTAL DATA SHEET



**Multi Zone Heat Pump**

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
--	--

Outdoor unit code	22022316001286		
Outdoor unit model	BMM18HHC		
Certified	AHRI		
	UL		



**SYSTEM PERFORMANCE DATA**

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	20.0
Max.fuse	(A)	25.0
Connection wiring		14AWG*4 Stranded, unshielded
<b>Cooling</b>		
Capacity	(Btu/h)	19000(5100~22600)
Power Input	(W)	1520(230~2100)
Current	(A)	9.0(3.0~10.3)
SEER2	(Btu/W)	20.5
EER2	(Btu/W)	12.5
<b>Heating</b>		
Capacity	(Btu/h)	20000(7900~25000)
Power Input	(W)	1640(640~2250)
Current	(A)	9.0(4.7~11.8)
HSPF2-4	(Btu/W)	9.0
HSPF2-5	(Btu/W)	7.0
COP	W/W	3.57
Heat at 17F(H32)	(Btu/h)	13500
Heat at 5F(H42)	(Btu/h)	18000
COP at 5F(H42)	W/W	1.80

Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	-22~75
	(Deg. °C)	-30~24

**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		Twin-ROTARY
Model		KTM240D43UKT
Brand		GMCC
Capacity	(Btu/h)	25931
Input	(W)	2045
Rated current (RLA)	(A)	11
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620

# Heat Pump

REFRIGERANT PIPE DATA		
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	91.7
Refrigerant precharge	(ft)	25x2
Additional charge for each ft (Φ6.35 (1/4") liquid pipe)	(oz/ft)	0.16
Additional charge for each ft (Φ9.52 (3/8") liquid pipe)	(g/ft)	15.0
Additional charge for each ft (Φ9.52 (3/8") liquid pipe)	(oz/ft)	0.32
	(g/ft)	30.0
Liquid side	(inch)	2x1/4"
	(mm)	2x6.35
Gas side	(inch)	2x3/8"
	(mm)	2x9.52
Max. length for all rooms	(ft)	131.2
	(m)	40.0
Max. length for one indoor unit	(ft)	82.0
	(m)	25.0
Max. height difference between indoor and outdoor unit	(ft)	49.2
	(m)	15.0
Max. height difference between indoor units	(ft)	33.0
	(m)	10.0

<b>Outdoor fan motor</b>		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.00
Output	(W)	120.00
RLA	(A)	1.70
Speed	(r/min)	1050/900/850
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	2129.41
Outdoor noise level	[dB(A)]	61.00
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (WxDxH)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	138.23/149.03
	(kg)	62.7/67.6



# Electrical

# LoadCenter

## Product specifications

# Eaton 3BR3042BC200

Catalog Number: 3BR3042BC200

Eaton BR main breaker loadcenter, No feed-thru lugs, Main circuit breaker, 200 A, L1, Copper, Cover included, NEMA 1, Metallic, 10 kAIC, CC, 42 Circuits, 30 Spaces, Four-wire, Three-phase, #1/0 AWG-250 kcmil Cu/Al, Combination, NEMA 1, 208 Y/120, 240 V



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton BR main breaker loadcenter	3BR3042BC200
<b>UPC</b>	<b>Product Length/Depth</b>
786676440851	3.88 in
<b>Product Height</b>	<b>Product Width</b>
29.13 in	14.31 in
<b>Product Weight</b>	<b>Warranty</b>
23 lb	10 year
<b>Certifications</b>	<b>Catalog Notes</b>
UL 50	Listed for use as service entrance equipment and shipped with a neutral bonding strap preattached, the maximum rating of the panel is the main breaker rating when used as service entrance equipment.
UL 67	

# LoadCenter

## defaultTaxonomyAttributeLabel

### Special features

No feed-thru lugs

### Type

Main circuit breaker

### Amperage Rating

200 A

### Bus material

Copper

### Cover

Cover included

### Main circuit breaker

CC

### Number of circuits

42

### Number of spaces

30

### Phase

Three-phase

### Wire size

#1/0 AWG-250 kcmil Cu/Al

### Mounting

Combination

### Used with

Type BR 1-inch breakers

### Voltage rating

208Y/120, 240V

### Box size

L1

### Enclosure

NEMA 1

## Resources

### Brochures

Loadcenters and Circuit Breakers

Type BR 3-Phase Loadcenters

### Catalogs

Eaton's Volume 1—Residential and Light Commercial

### Drawings

Dimensional Drawing - BR 1 LOADCENTER, CC MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 3 PHASE

### Specifications and datasheets

3-Phase Loadcenter Program

Eaton Specification Sheet - 3BR3042BC200

# LoadCenter

Number of wires

4

NEMA rating

NEMA 1



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# Light Fixtures

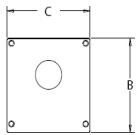
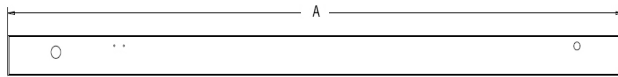
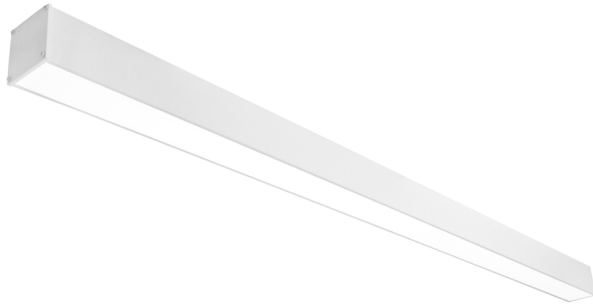
# F1 - LED Strip Lighting



PROJECT NAME: \_\_\_\_\_ CATALOG NUMBER: \_\_\_\_\_

NOTES: \_\_\_\_\_ FIXTURE SCHEDULE: \_\_\_\_\_

## LINEAR FIXTURE L-MAX LINEAR LED LUMINAIRE



DIMENSIONS			
PRODUCT	A	B	C
LM-2420UF-40	23.96	2.43	2.35
LM-4840UF-40	47.91	2.43	2.35
LM-4860UF-40	47.91	2.43	2.35



### PRODUCT DESCRIPTION:

The compact and high-performing L-Max brings eye-pleasing illumination to architectural and commercial interiors. Designed to be either surface mounted or suspended, this lightweight and easy-to-install luminaire lends a clean aesthetic to offices, retail spaces, supermarkets, stairwells and other applications that require high quality lighting that is price-effective. The L-Max can be quickly and easily linked together to create runs of light that appear seamless.

### FEATURES:

- Offered in 2ft (20W) and 4ft (40W and 60W) versions
- 0-10V Dimming.
- Standard Five year limited warranty and 10 year warranty available
- L70 ≥ 100,000 hours AT 25°C Ambient
- Suitable for damp locations
- Operating temperature 10°C to 40°C
- Varying layout configuration with L shape connectors (units)
- Linkable for continuous runs maximum of 10 units or 40' length
- Surface mounting and pendant mounting standard (2 adjustable 10' long aircraft cables included with fixture)
- Emergency lighting (battery backup) and Sensor option

### CONSTRUCTION:

- Constructed of durable 19 gauge aluminum body and end caps
- Polycarbonate diffused lens delivers a low-glare, diffused light distribution
- Mounting options - Surface, Suspended

### WARRANTY:

5-year standard warranty\*  
(see terms at [www.maxlite.com/warranties](http://www.maxlite.com/warranties))

\*Warranty Limitations: Product must be rated for application per the Product Data Sheet (PDS); operated ≤16 hrs; in ambient temperatures -4°F to 77°F.  
\*Up to \$25/unit; registration required. Additional coverage may be available for purchase; contact MaxLite.  
\*Excludes EM/MS versions; component warranty applies.  
\*If ambient temperatures fall outside the -4°F to 77°F range, product is warranted for 5 years according to the operating temperature range specified on the PDS.

MODEL SELECTION (Full list of order codes on pg. 2)				Typical order example: LM-4840UF-40				
LM	-			U	F	-		
FAMILY	-	SIZE	WATTAGE (NOMINAL)	VOLTAGE	OPTICS	-	CCT	OPTIONS
LM=L-Max	-	24=2ft <sup>1</sup>	20=20W	U=120-277V	F=Frosted Lens	-	35=3500K	(Omit)=None
		48=4ft	40=40W				40=4000K <sup>3</sup>	EM=Battery Backup Unit
			60=60W				50=5000K	MS=Bi-Level Motion Sensor

1. EM and MS options are not available together in any CCT.
2. No EM option on 2' models.
3. 4000K standard (all other CCT's are special ordered)

# F1 - LED Strip Lighting



## LINEAR FIXTURE L-MAX LINEAR LED LUMINAIRE

### SPECIFICATIONS:


SPECIFICATIONS:		LM-2420UF-40	LM-4840UF-40	LM-4860UF-40
ITEM	SPECIFICATION	DETAILS		
GENERAL PERFORMANCE	Power Consumption (W)	19W	40W	59W
	Lumens Delivered (lm)	2,570 lm	5,262 lm	7,923 lm
	Efficacy (lm/W)	133 lm/W	132 lm/W	133 lm/W
	CRI	≥80		
	Color Temperature (K)	3500K, 4000K & 5000K		
	L70 Lumen Maintenance (hours)	≥ 100,000		
	Color Consistency	Proprietary binning for uniform color		
ELECTRICAL	Power Factor	0.9		
	Input Voltage	120-277V		
	Mounting	Surface Mounting, Suspended Mounting		
	Dimming	0-10V Dimming		
	Operating Temperature	10°C to 40°C		
	Humidity	20-85% RH, non-condensing		
CERTIFICATION	Certifications	ETL Listed		
	Material Usage	RoHS compliant; no mercury		
	Environment	Indoor / Damp		
	Warranty	5 years standard, 10 year warranty option is available		

### ORDERING\*:

	ORDER CODE	MODEL NUMBER	WATTAGE	CCT
2 FT.	14100476	LM-2420UF-35	20W	3500K
	14100472	LM-2420UF-40	20W	4000K
	103177	LM-2420UF-50	20W	5000K
4 FT.	14099779	LM-4840UF-35	40W	3500K
	14099780	LM-4840UF-40	40W	4000K
	14099781	LM-4840UF-50	40W	5000K
	14099782	LM-4860UF-35	60W	3500K
	14099783	LM-4860UF-40	60W	4000K
	14099784	LM-4860UF-50	60W	5000K

\*Please contact your MaxLite representative to order products that don't have order codes listed here.

### SENSOR INFORMATION:

SENSOR	TECHNOLOGY	DIMMING	DAYLIGHT HARVESTING	REMOTE CONTROL	
MS	HIGH FREQUENCY	BI-LEVEL	SET POINT	YES	

# F1 - LED Strip Lighting



## LINEAR FIXTURE L-MAX LINEAR LED LUMINAIRE

### ACCESSORIES:

ORDER CODE	DESCRIPTION	MODEL NUMBER
102970	L-MAX CEILING CANOPY KIT WITH STRAIN RELIEF	LM-CANOPY
14100332	L-MAX CONNECTOR KIT - BRACKET, SCREWS, JOINER WRENCH	LM-CONKIT
14100329	L-MAX "L" CONNECTOR PIECE 7"X7"	LM-LCON
108133	REMOTE FOR L-MAX MOTION SENSOR	RMHYTHRC-05
104361	L-MAX WALL MOUNT BRACKET AND HARDWARE (1PC)	LM-WM

(2) LM-WM kits per fixture





### FEATURES & SPECIFICATIONS

**INTENDED USE** — The 3" Wafer-Thin LED recessed downlight with remote driver box combines high quality light output and efficiency while eliminating the pot light housing for competitive affordability. This innovate wafer-slim Type IC design allows easy installation for new construction or remodel from below the ceiling without the requirement of a pot light housing for insulation. The LED module maintains at least 70% light output for 36,000 hours. These LED Wafer downlights are intended for closets, attics, hallways, bathrooms, kitchens, basements, soffits, entry ways, porches, garages, stairwells, corridors, nursing/retirement homes, condos, elevators, apartments, and any other small areas.

**CONSTRUCTION** — IC rated driver and fixture - approved for direct contact with insulation. Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. Round fixture with integral edge-lit LED's. Plenum rated cable connector to connect from module to remote driver box. Isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductors, or (4) 12 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

**INSTALLATION** — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 3" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of holes should not exceed 3 1/8 inches for this product. Suitable for installation in t-grid and drop ceiling applications. 6" plenum space required for installation of remote driver box.

**OPTICS** — Wafer-Thin downlight edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space. Utilizes 2700K, 3000K, and 4000K color temperature LEDs.

**ELECTRICAL** — Connect directly to 120V power supply via provided UL recognized driver. Driver and Fixture Wet location approved and IC rated. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% (See page 2 for recommended dimmers). Standard input wattage is 8W, 68 lumens per watt. Actual wattage may differ by +/- 5% when operating at 120V +/- 10%. Replaces 50W incandescent.

**LISTINGS** — CSA certified to US and Canadian safety standards. ENERGY STAR® qualified. Wet location. Air Tight certified in accordance with ASTM E283-2004. NOM certified.

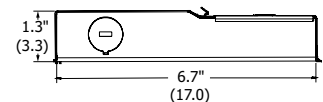
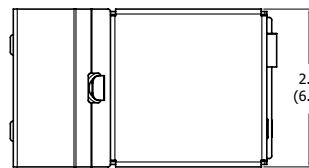
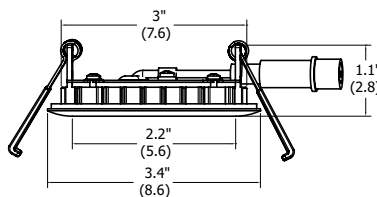
**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

*Specifications*

Aperture:	2.2 (5.6)
Ceiling opening:	3 (7.6)
Overlap trim:	3.4 (8.6)
Height:	1.1 (2.8)



All dimensions are inches (centimeters) unless otherwise indicated.

**ORDERING INFORMATION** For shortest lead times, configure product using **standard options (shown in bold)**.

**Example:** WF3 LED 30K MW

WF3 Series	LED Lamp	CCT/CRI/W/Lumens <sup>1</sup>	Finish
WF3 3" wafer-thin LED downlight	LED LED	<b>27K<sup>2</sup></b> 2700K/80CRI/8W/540L <b>30K</b> 3000K/80CRI/8W/550L <b>40K</b> 4000K/80CRI/7.9W/590L	<b>MW</b> Matte white <b>ORB</b> Oil-rubbed bronze <b>MB</b> Matte black <b>BN</b> Brushed Nickel

**Notes**  
 1 Total system delivered lumens.  
 2 Only available in Matte White finish.

**Accessories: Order as separate catalog number.**

WF8643 PAN R6	Universal New Construction Pan, Retail Pack of 6
WF8643 PAN U	Universal new construction pan, Unit Pack
WF3 PAN R12	3" new construction pan, retail pack of 12
WFEXC6 U	6' FT4 cable
WFEXC10 U	10' FT4 cable
WFEXC20 U	20' FT4 cable



## F2 - LED Recessed Downlight

Catalog Number
Notes
Type

Wafer LED Recessed Downlight

# WF3 3" LED Module

IC/Non-IC  
New Construction/Remodel



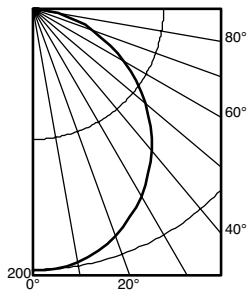
# F2 - LED Recessed Downlight

## WF3 3" LED Wafer Module

### PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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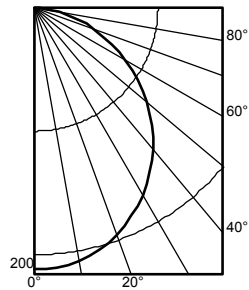
#### WF3 LED 27K, 2700 K LEDs, 8 watts, 545 lumens, 68.1 lm/w, test no. ISF 30891P2



Ave Lumens	Zone Lumens	% Lamp	pf pc pw	80% 50% 30% 10%	20% 70% 50% 30% 10%	50% 30% 10%	
0	201	154.4	28.3	0	119 119 119	116 116 116	111 111 111
5	200	19	46.0	1	104 100 96	102 98 95	98 94 92
15	192	54	79.8	2	91 84 79	89 83 78	86 80 76
25	176	81	100.0	3	80 72 65	78 71 65	75 69 64
35	154	96	0.0	4	71 62 56	70 61 55	67 60 54
45	127	98	545.2	5	63 54 48	62 54 48	60 53 47
55	97	86	*100.0	6	57 48 42	56 48 42	54 47 41
65	65	65	*Efficiency	7	52 43 37	51 43 37	50 42 37
75	34	36		8	47 39 33	47 39 33	45 38 33
85	8	9		9	43 35 30	43 35 30	42 35 30
90	0	0		10	40 32 27	40 32 27	39 32 27

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	6.6	6.8	3.3	15.2	0.7
10.0	3.6	9.2	1.8	20.7	0.4
12.0	2.2	11.7	1.1	26.2	0.2
14.0	1.5	14.2	0.8	31.8	0.2
16.0	1.1	16.6	0.6	37.3	0.1

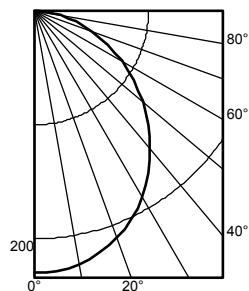
#### WF3 LED 30K, 3000 K LEDs, 8 watts, 550 lumens, 68.8 lm/w, test no. ISF 30891



Ave Lumens	Zone Lumens	% Lamp	pf pc pw	80% 50% 30% 10%	20% 70% 50% 30% 10%	50% 30% 10%	
0	212	163.2	28.3	0	119 119 119	116 116 116	111 111 111
5	212	20	46.0	1	104 100 96	102 98 95	98 94 92
15	203	57	79.8	2	91 84 79	89 83 78	86 80 76
25	186	86	100.0	3	80 72 65	78 71 65	75 69 64
35	163	102	0.0	4	71 62 56	70 61 55	67 60 54
45	134	104	550.0	5	63 54 48	62 54 48	60 53 47
55	102	91	*100.0	6	57 48 42	56 48 42	54 47 41
65	69	68	*Efficiency	7	52 43 37	51 43 37	50 42 37
75	36	38		8	47 39 33	47 39 33	45 38 33
85	8	10		9	43 35 30	43 35 30	42 35 30
90	0	0		10	40 32 27	40 32 27	39 32 27

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	7.0	6.8	3.5	15.2	0.7
10.0	3.8	9.2	1.9	20.7	0.4
12.0	2.3	11.7	1.2	26.2	0.2
14.0	1.6	14.2	0.8	31.8	0.2
16.0	1.2	16.6	0.6	37.3	0.1

#### WF3 LED 40K, 4000 K LEDs, 7.9 watts, 590 lumens, 74.7 lm/w, test no. ISF 31230



Ave Lumens	Zone Lumens	% Lamp	pf pc pw	80% 50% 30% 10%	20% 70% 50% 30% 10%	50% 30% 10%	
0	230	176.6	29.0	0	119 119 119	116 116 116	111 111 111
5	229	22	46.8	1	104 100 96	102 98 95	98 95 92
15	219	62	80.2	2	91 84 79	89 83 78	86 80 76
25	202	93	100.0	3	80 72 66	79 71 65	76 69 64
35	174	109	0.1	4	71 63 56	70 62 55	67 60 55
45	141	109	0.1	5	64 55 48	63 54 48	60 53 47
55	106	95	0.1	6	57 49 42	57 48 42	55 47 42
65	70	70	0.1	7	52 44 37	51 43 37	50 42 37
75	38	40	590.0	8	48 39 33	47 39 33	46 38 33
85	9	11	*100.0	9	44 36 30	43 35 30	42 35 30
90	1	0	*Efficiency	10	40 33 27	40 32 27	39 32 27

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	7.6	6.7	3.8	15.0	0.8
10.0	4.1	9.2	2.0	20.4	0.4
12.0	2.5	11.6	1.3	25.9	0.3
14.0	1.7	14.0	0.9	31.3	0.2
16.0	1.3	16.5	0.6	36.8	0.1

### DIMMER COMPATIBILITY

COMPATIBLE DIMMERS					
Leviton	Lutron			Sensorswitch	Synergy/Leviton
6633-PA	Maestro MACL-153M (TX)	Diva/Skylark DVRP-253PCTRP-253P	Panel Module HW/LP-RPM-4A-120	nSP5 PCD 2W	ISD 600 I 120/IP106
IPL06-LED/INC mode	Maestro Wireless MRF2-6ELV	Skylark CTCL-150	Panel Module HW/LP-RPM-4U-120	nSP5 PCD ELV 120	ISD 400 ELV 120/IPE04
6615-P	Gen 3.0 DVCL-153P (T9)	Caseta Wireless PD-5NE	Grafik QS/Wallbox LQRJ-WPM-6P		
	Maestro MSCAL-OP153M	Maestro MACL-LFQ	Grafik Eye 3000 Family HWI-WPM-6D-120		
	Caseta Wireless PD-6WCL	RadioRA2 RRD-6NA	HomeWorksQS / my Room LQSE-4A1-D / MQSE-4A1-D/MQSE-3A1/MQSE-2A1-D,120V		
	Grafik T GT-5NEM / GTJ-5NEM	HomeWorks HQRD-6NA	Homeworks QS LQSE-4A-120-D		

\*Requires Lutron Smart Bridge L-BDG2-WH for wireless applications (sold separately)

# F2 - LED Recessed Downlight

## WF3 3" LED Wafer Module

### ENERGY DATA

3" ENERGY DATA - 2700K	
Lumens	540
Color temperature	2700K
CRI	80
Lumens/Watt	67.5
Min. starting temperature	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A standards
Input voltage	120V
Total Harmonic Distortion	13.5%
Min. power factor	0.97
Input frequency	50/60 Hz
Rated wattage	8W
Input power	8W
Input current	0.07A

**LED lighting facts**  
A Program of the U.S. DOE

**Light Output (Lumens)** 540  
**Watts** 8  
**Lumens per Watt (Efficacy)** 67.5

**Color Accuracy**  
Color Rendering Index (CRI) 80

**Light Color**  
Correlated Color Temperature (CCT) 2700 (Warm White)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: NJSM-6TRMCY (6/20/2017)  
Model Number: WF3 LED 27K  
Type: Luminaire - Downlight

3" ENERGY DATA - 3000K	
Lumens	550
Color temperature	3000K
CRI	80
Lumens/Watt	68.75
Min. starting temperature	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A standards
Input voltage	120V
Total Harmonic Distortion	13.5%
Min. power factor	0.97
Input frequency	50/60 Hz
Rated wattage	8
Input power	8W
Input current	0.07A

**LED lighting facts**  
A Program of the U.S. DOE

**Light Output (Lumens)** 550  
**Watts** 8  
**Lumens per Watt (Efficacy)** 68.75

**Color Accuracy**  
Color Rendering Index (CRI) 80

**Light Color**  
Correlated Color Temperature (CCT) 3000 (Bright White)

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: NJSM-VJQIL2 (5/17/2016)  
Model Number: WF3 LED 30K  
Type: Luminaire - Downlight


# F2 - LED Recessed Downlight

## WF3 3" LED Wafer Module

### ENERGY DATA

3" ENERGY DATA - 4000K	
Lumens	590
Color temperature	4000K
CRI	80
Lumens/Watt	74.68
Min. starting temperature	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A standards
Input voltage	120V
Total Harmonic Distortion	13.5%
Min. power factor	0.97
Input frequency	50/60 Hz
Rated wattage	7.9
Input power	7.9W
Input current	0.07A


Lithonia Lighting



<b>Light Output (Lumens)</b>	<b>590</b>
<b>Watts</b>	<b>7.9</b>
<b>Lumens per Watt (Efficacy)</b>	<b>74.68</b>

<b>Color Accuracy</b>	<b>80</b>
Color Rendering Index (CRI)	

**Light Color**  
Correlated Color Temperature (CCT) **4000 (Bright White)**



2700K    3000K    3000K    4500K    6500K

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting*. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the *Label Reference Guide*.

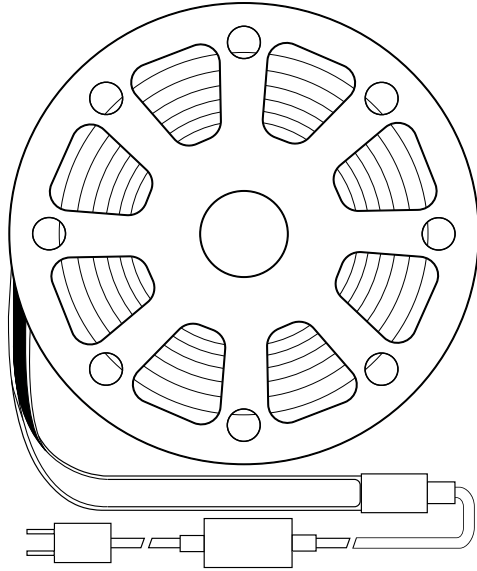
Registration Number: NJSM-2EYQCM (6/22/2016)  
Model Number: WF3 LED 40K  
Type: Luminaire - Downlight

# F3 - Flexible LED Strip Light



DATA SHEET

## NEON LED STRIP LIGHTS 120V AC



### Product Description

Neon LED Strip Lights 120V AC create the look and feel of eye-catching neon lights using energy saving LEDs. No more expensive and dangerous high voltage lighting required to enjoy the amazing colors of neon lights. Neon LED strips are safer, flexible, and more affordable, coming in lengths as short as 18" up to 165 continuous feet on one plug. This neon LED strip runs on any A/C wall outlet, bringing the ability to add the look of neon lighting virtually anywhere at low cost and with no professional assistance. Compared to traditional neon lighting with dangerous gases, custom fixtures, and high voltage energy transformers, Neon LEDs are safe and flexible with a bend radius as small as 3" and come ready to plug in right out of the box. Neon LED strip lights come fully sealed in silicone tubing to protect the strip from the elements. The tubing is UV protected and waterproof rated at IP65 for the toughest outdoor applications including outdoor commercial lighting, hospitality lighting, architectural lighting, landscape lighting, and deck/patio lighting.

- ETL Listed for Safety and Durability
- Made to Order
- Works at 120V AC Line Voltage
- Cut Points Every 18"
- Amazing bright neon color
- Fully seamless light
- No high voltage transformers or neon gas required
- Perfect for walls, buildings, linear lighting, and theater lighting
- Plug in directly to any AC outlet
- Available from 18in to 165ft long
- IP65 rated waterproof housing
- Indoor/outdoor use
- Fully dimmable
- Each purchase includes power cord and end cap installed

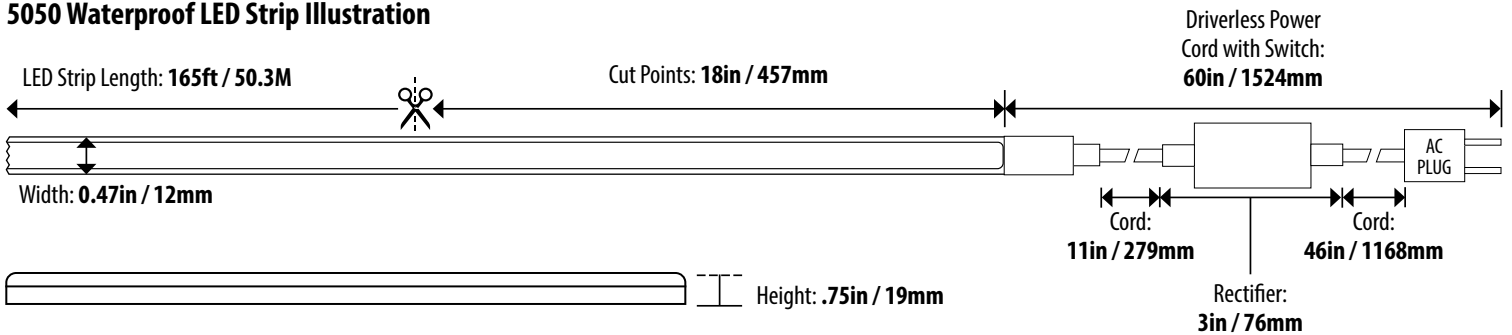
### Quick Spec.

- **Fully Dimmable:** Yes
- **Voltage:** 120V AC
- **Beam Angle:** 180°
- **LEDs per Foot:** 36
- **Warranty:** 2 Years
- **Dimensions:** 1980in x 0.47in x 0.75in
- **Working Temperature:** -10° to 140°F
- **Certifications:** ETL Listed

up to  
**165ft**

**UP TO 180+  
LUMENS / FT**

### 5050 Waterproof LED Strip Illustration



### Technical Information

Available LED Color	SKU#	Temp (K)	Lumens / Ft.	LED Type	Color Rendering Index	Minimum Cut
Warm White	SA-NLS-WW	3100K	148	SMD 3528	82+	18in / 457mm
White	SA-NLS-PW	4000K	180	SMD 3528	82+	18in / 457mm
Red	SA-NLS-RED	N/A	24	SMD 3528	N/A	18in / 457mm
Blue	SA-NLS-BLUE	N/A	36	SMD 3528	N/A	18in / 457mm
Yellow	SA-NLS-YELLOW	N/A	38	SMD 3528	N/A	18in / 457mm