

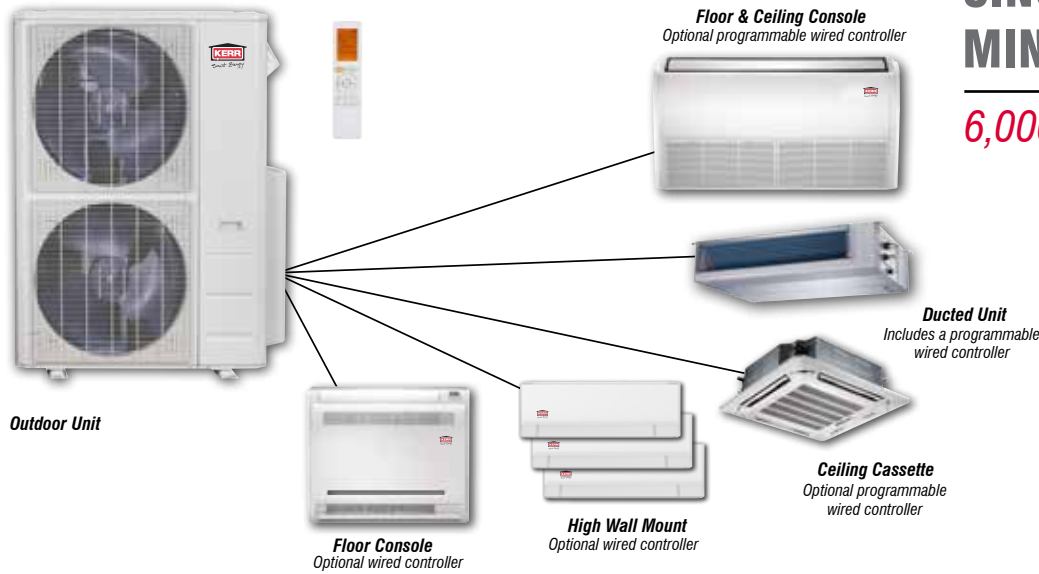


Smart Energy

KMH UltraV Series

SINGLE/MULTI ZONE MINI-SPLITS

6,000 to 48,000 BTUH



Our new UltraV Series will heat or cool when outdoor temperatures reach -30° C. Multi-zone units run at 100% capacity at -15° C. Single zones maintain 100% capacity at -17.78° C!

This makes these units well suited to installations requiring year 'round conditioning, both residential and light commercial. Operating range:

Cooling	-30° to 50° C
Heating	-30° to 30° C (48K: -25° to 30° C)

Advanced inverter technology means the room will reach the preset temperature quickly and that the temperature will be constant without the fluctuations that occur in other systems due to on-off cycling. Energy usage is kept to a minimum as units run at low frequency most of the time. However, when required the unit ramps up automatically to reach and maintain the comfort level.

Warranty

Single zone warranty 10 years on compressor, 10 years on parts
Multi zone units 10 year on compressor, 10 year parts for residential
5 year on compressor, 5 year parts for commercial

www.kerrsmartenergy.com

FEATURES

Multiple Modes

- Cooling, dehumidification only, and heating
- Sleep mode
- Turbo mode
- 24-hour timer
- Auto mode

Auto Swing

- Continually adjusts air flow direction for a gentle, breeze-like effect

Remote Control

- Makes it easy to program and operate the unit

Enhanced Filtration

- Gold fin filter delivers improved indoor air quality

Defrost Control

- Longer defrost cycle effectively removes any frost accumulation on the coil as needed

"Follow" Feature

- Remote senses temperature where occupant is, automatically adjusts to maintain setpoint

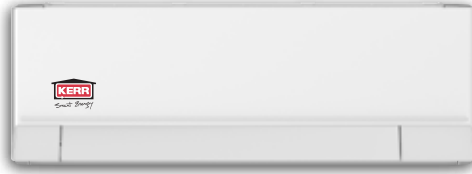
Rotary Compressor

- Designed for wide operating range and minimal vibration

Easy Repair & Maintenance

- Indoor high wall heads disassemble in 1 minute

SINGLE ZONE



Note: See page 5 for Indoor Unit specifications

A-KMH09SV-1 & A-KMH12SV-1

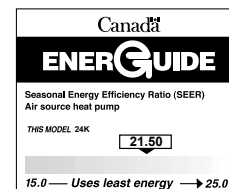
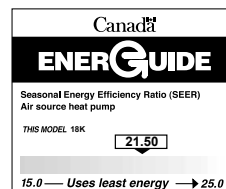
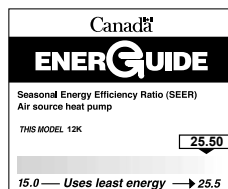
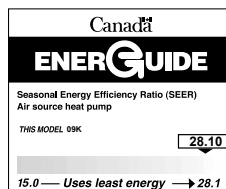
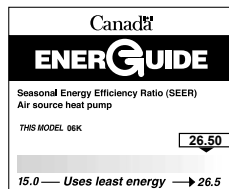
For one to one matches with all indoor "B" units.

FEATURES	A-KMH06SV-1	A-KMH09SV-1	A-KMH12SV-1	A-KMH18SV-1	A-KMH24SV-1
Power Supply	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz
Cooling Capacity (BTUH)	6,000	9,000	12,000	18,000	24,000
SEER	26.5	28.1	25.5	21.5	21.5
EER	15.8	16.2	14	12.5	13
HSPF	14	13	13	13	12
Cooling Amps	3.3	2.5	3.72	6.3	8.1
Hi Heating Cap. (BTUH) @ 17°F	9,000	12,000	12,000	20,270	19,800
Lo Heating Cap. (BTUH) @ -13°F	4,000	6,000	7,500	13,800	N/A
Heating Amps	3.92	4.1	4.1	7.3	10.9
OUTDOOR UNIT DIMENSIONS					
Width (inches)	30.12	31.69	31.69	35.04	37.24
Height (inches)	21.85	21.81	21.81	26.5	31.89
Depth (inches)	11.93	12.99	12.99	13.46	16.14
Net Wt/Shipping Wt (lbs.)	63.71	74.07	73.63	100.97	134.48
ELECTRICAL DATA OUTDOOR UNIT †					
Main Power Connection	Outdoor Unit 208/230-1-60				
Min. Circuit Ampacity	13	15	15	16	25
Max. Fuse/HACR Circuit Breaker	15	15	15	25	35
Indoor/Outdoor Connecting Cable Type	14AWG / 4 conductor 600V THHN unshielded stranded bare copper				
LINE SETS O.D. (inch)					
LINE SETS O.D. (inch)	1/4 x 3/8	1/4 x 3/8	1/4 x 1/2	1/4 x 1/2	3/8 x 5/8
Max. Line Set Length¹	82	82	82	98	164
Max. Elevation (outdoor)²	32	32	32	65	82

† Always follow local, state and national electrical codes

¹ Min. 10 ft. line set recommended

² Oil traps should be installed every 16.5 to 23 feet (5-7m) when the outdoor unit is installed above the indoor unit



UltraV Series

Mix and match indoor units up to the maximum BTUHs allowed for each system—see chart for possible combinations.

Order outdoor and indoor units separately:

“A” indicates outdoor unit and “B” indicates indoor units.

Advantages of Inverter Technology

The inverter on a mini-split is like the cruise control on a vehicle. The inverter-driven compressor automatically adjusts its speed to quickly reach and then maintain the set point. When maximum capacity is not needed, the compressor speed decreases—and with it the power output also decreases, resulting in improved energy efficiency. Once the set point is reached, the system “cruises along,” keeping the temperature constant, but responding if the demand changes.

- Reaches the desired temperature quickly
- Provides precise temperature control and continuous dehumidification (cooling mode)
- Extends component life by eliminating on-off cycling
- Operates at ultra-quiet level
- Saves energy by matching the compressor speed to the demand; rated up to 28 SEER and 14.5 EER
- Delivers extra heating capacity even at low ambient temperatures
- Has internal Pan Heater

OUTDOOR UNITS				
FEATURES	A-KMH18DV-1	A-KMH28TV-1	A-KMH36QV-1	A-KMH48PV-1
Cooling Capacity	19,000	28,000	36,000	48,000
SEER	22	22.5	21.8	21.5
EER	12.5	12.5	13.6	11.6
HSPF 4	10.2	11.3	11	11
Heating at 5 F°-15°C° Maximum capacity	19,000	24,000	36,000	48,000
Air flow (CFM)	2130	2130	4500	4500
Sound Level (dBa) H-M-L	61	63	63	65
OUTDOOR UNIT DIMENSIONS				
Width (inches)	37.24	37.24	37.48	37.48
Height (inches)	31.89	31.89	52.48	52.48
Depth (inches)	16.14	16.14	16.34	16.34
Net Wt/Shipping Wt (lbs.)	138.23/149.03	167.99/179.67	223.11/253.97	238.32/269.84
ELECTRICAL DATA OUTDOOR UNIT*				
Main Power Connection	Outdoor Unit 208/230-1-60			
Min. Circuit Ampacity	20	25	40	42
Max Fuse/HACR. Circuit Breaker	25	40	60	50
Indoor/Outdoor Connecting Cable Type	14 awg/ 4 conductor 600V THHN unshielded stranded bare copper			
LINE SETS O.D. (inch)				
Liquid Connection (flare) (in.)	2 x 1/4"	3 x 1/4"	5 x 1/4"	5 x 1/4"
Suction Connection (flare) (in.)	2 x 3/8"	3 x 3/8"	3 x 3/8" 2 x 1/2"	3 x 3/8" 2 x 1/2"
Max. length for all rooms	131	197	262	262
Max. length for one indoor unit	82	98	115	115
Max. height difference between indoor units	33	33	33	33

*Actual performance will vary based on the application, including the size(s) and mix of indoor units installed.



A-KMH18DV-1

Ambient Operating Temperature Range:
 -30° to 50° C (cooling)
 -30° to 30° C (heating)
 (48K: -25° to 30° C)

*Always follow local, state and national electrical codes. Main power connection is 208-230V.

**See the IOM regarding various adapters and fittings which may be included with outdoor and/or indoor models for making connections.

Required Indoor/Outdoor Connecting Cable (SJOW)—14 AWG / 4 conductor 600V THHN unshielded stranded bare copper, not to exceed 115 feet between indoor and outdoor units.

¹ For single indoor unit installation; min. 10 ft. line set length required.

² Oil traps should be installed every 16.5 to 23 feet (5-7m) when the outdoor unit is installed above the indoor unit.

NOTE: Maximum line set length varies based on number of indoor units installed. See IOM for details.



Canada
ENERGUIDE
Seasonal Energy Efficiency Ratio (SEER) Air source heat pump
THIS MODEL A-KMH18DV-1 19.0-22.0
14.0 — Uses least energy —> 42.0

Canada
ENERGUIDE
Seasonal Energy Efficiency Ratio (SEER) Air source heat pump
THIS MODEL A-KMH28TV-1 20.0-22.5
14.0 — Uses least energy —> 42.0

Canada
ENERGUIDE
Seasonal Energy Efficiency Ratio (SEER) Air source heat pump
THIS MODEL A-KMH36QV-1 19.0-21.8
14.0 — Uses least energy —> 42.0

Canada
ENERGUIDE
Seasonal Energy Efficiency Ratio (SEER) Air source heat pump
THIS MODEL A-KMH48PV-1 20.2-21.5
14.0 — Uses least energy —> 42.0

MULTI ZONE

FLOOR/CEILING MOUNT INDOOR UNITS		
FEATURES	B-KMH18UU-1	B-KMH24UU-1
Cooling Capacity BTUH	18,000	24,000
Heating Capacity BTUH	18,000	24,000
Air Flow Range (CFM)	666/595/525	880/770/650
Fan Speeds	3	3
Dehumidification (Pts/Hr)	6.16	7.04
Sound Level Range (dBA)	47/44/39	58.5/55/52
Modulating	YES	YES
Temperature Setting On Remote or Wired Controller:	62~86	62~86
DIMENSIONS		
Width (inches)	42.05	42.05
Height (inches)	26.57	26.57
Depth (inches)	9.25	9.25
Net Wt/Shipping Wt (lbs)	55.12/65.48	55.12/66.14
Liquid-Suction (flare)	1/4" x 1/2"	3/8" x 5/8"

Features

- 'Follow' feature on remote
- Multiple modes: auto, turbo, sleep, fan only, dehumidify only, 24 Hour timer
- Intelligent pre-heat
- Self diagnostics



Optional wired controller **7800-206** & **7800-207**
(must order separate)

Features

- Auto operation
- Multiple modes: turbo, sleep, fan only, dehumidification only, 24 Hour timer
- 'Follow' feature on remote
- Energy saver function
- Intelligent pre-heat
- Self diagnostics



FLOOR MOUNT INDOOR UNITS	
FEATURES	B-KMH12FU-1
Cooling Capacity BTUH	12,000
Heating Capacity BTUH	12,000
Air Flow Range (CFM)	365/318/248
Fan Speeds	3
Dehumidification (Pts/Hr)	3.08
Sound Level Range (dBA)	45/41/35
Temperature Setting On Remote or Wired Wall Controller:	62~86
AIR DIRECTION	
Modulating	YES
DIMENSIONS	
Width (inches)	27.56
Height (inches)	23.62
Depth (inches)	8.27
Net Wt/Shipping Wt (lbs)	32.41/42.77
Liquid-Suction (flare)	1/4" X 1/2"

DUCTED INDOOR UNITS

FEATURES	B-KMH09DU-1	B-KMH12DU-1	B-KMH18DU-1	B-KMH24DU-1
Cooling Capacity BTUH	9,000	12,000	18,000	24,000
Heating Capacity BTUH	9,000	12,000	18,000	24,000
Air Flow Range (CFM)	353/283/177	353/283/177	530/450/371	776/694/435
Fan Speeds	3	3	3	3
Dehumidification (Pts/Hr)	2.82	3.08	6.16	7.04
Sound Level Range (dBA)	38/25/32	38/26/33.5	39/37/35	44/--/--
ESP in. WG	0-0.16	0-0.16	0-0.40	0-0.64
Temperature Setting On Remote or Wired Wall Controller:	62~86	62~86	62~86	62~86
DIMENSIONS				
Width (inches)	27.56	27.56	34.65	43
Height (inches)	7.87	7.87	8.27	10
Depth (inches)	17.72	17.72	28.53	30
Net Wt/Shipping Wt (lbs)	37.5/48.3	37.5/48.3	54/66	87/103
Liquid -Suction (flare)	1/4" x 3/8"	1/4" x 1/2"	1/4" x 1/2"	3/8" x 5/8"

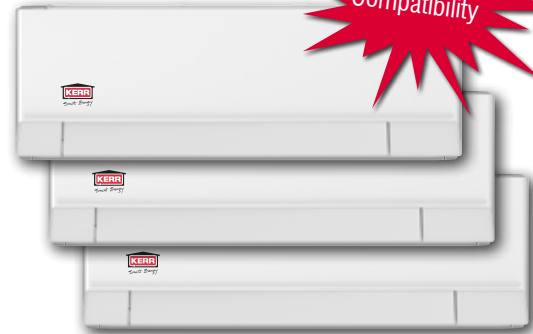
Features

- Multiple modes: auto, turbo, sleep, fan only
- 24 Hour timer
- Intelligent pre-heat
- Wired programmable controller/non programmable
- Self diagnostics



Features

- All high wall heads come with a remote
- Optional **#17317100001195** wired programmable controller (*must order separate*)
- 'Follow' feature on remote for comfort
- Multiple modes: auto, turbo, sleep, fan only
- 24 Hour timer
- Intelligent pre-heat
- Automatic louver swing
- Self diagnostics
- Smartphone compatible
- Easy to repair & maintain - high wall heads disassemble in 1 minute



HIGH WALL MOUNT INDOOR UNITS					
FEATURES	B-KMH06SV-1	B-KMH09SV-1	B-KMH12SV-1	B-KMH18SV-1	B-KMH24SV-1
Cooling Capacity BTUH	6,000	9,000	12,000	18,000	24,000
Heating Capacity BTUH	6,000	9,000	12,000	18,000	24,000
Air Flow Range (CFM)	168/318	177/336	177/336	306/524	319/612
Fan Speeds	3	3	3	3	3
Sound Level Range (dBA)	45/36/27	46/36/27	48/39/29	50/45/39	46/39/25
Temperature Setting	16.6° to 32.2° C Cooling; 16.6° to 30° C Heating (on remote)				
AIR DIRECTION					
Horiz./Vert. Modulating	Yes	Yes	Yes	Yes	Yes
DIMENSIONS					
Width (inches)	31.30	31.30	31.30	37.99	44.88
Height (inches)	11.61	11.61	11.61	12.56	14.57
Depth (inches)	8.86	8.86	8.86	9.41	10.83
Net Wt/Shipping Wt (lbs)	22.71/28.88	22.71/28.88	22.93/28.88	27.12/35.71	43.65/54.89
Liquid-Suction (flare)	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	1/4" - 1/2"	3/8" - 5/8"



WIRED NON-PROGRAMMABLE CONTROLLER

- Ceiling Cassettes
- High Wall Series
- Ducted Indoor Units

7800-206



WIRED PROGRAMMABLE CONTROLLER

- Ducted Indoor Units
- Ceiling Cassettes

7800-207



WIRED PROGRAMMABLE CONTROLLER

- High Wall SV Series

17317100001195



MULTI ZONE



Features

- Auto operation, 24-hour timer
- Multiple modes: turbo, sleep, fan only, dehumidification only
- Intelligent pre-heat
- Washable air filter
- Automatic louver swing
- Self diagnostics
- Wireless remote
- 'Follow' feature on remote for comfort
- 9, 12, 18 fit 24" x 24" ceiling tile opening
- Condensate removal pump
- Optional wired controller **7800-206** & **7800-207** (must order separate)



CEILING CASSETTES*				
FEATURES	B-KMH09CU-1	B-KMH12CU-1	B-KMH18CU-1	B-KMH24CU-1
Cooling Capacity BTUH	9,000	12,000	18,000	24,000
Heating Capacity BTUH	9,000	12,000	18,000	24,000
Air Flow Range (CFM)	600/520/460	574/490/422	956/825/746	1400/1250/1000
Fan Speeds	3	3	3	3
Dehumidification (Pts/Hr)	2.82	3.08	6.16	7.04
Sound Level Range (dBA)	41/39/37	41/38/35	46/43/41	51/47/43
Temperature Setting On Remote or Wired Wall Thermostat:	62~86	62~86	62~86	62~86
AIR DIRECTION				
Modulating	YES	YES	YES	YES
DIMENSIONS				
Width (inches)	22.44	22.44	22.44	33.07
Height (inches)	10.24	10.24	10.24	8.07
Depth (inches)	22.44	22.44	22.44	33.07
Net Wt/Shipping Wt (lbs)	35.27/41.88	35.27/41.88	39.68/46.3	45.19/52.91
REFRIGERANT LINE CONNECTIONS	1/4" X 3/8" Flare	1/4" X 1/2" Flare	1/4" X 1/2" Flare	3/8" X 5/8" Flare
Decorative Cover Panel*	C-KMH91218CU-1	C-KMH91218CU-1	C-KMH91218CU-1	C-KMH24CU-1
Panel Dimensions (inches)	25.47x25.47x1.97	25.47x25.47x1.97	25.47x25.47x1.97	37.4x37.4x2.17
Net Wt/Shipping Wt (lbs)	5.51/9.92	5.51/9.92	5.51/9.92	11.02/17.64

*Ceiling cassettes require the use of a decorative cover panel.



You can see how one outdoor condenser is used in conjunction with multiple indoor air handlers in a single structure. Air handlers can be installed up to 115' (depending on model) from the condenser, so you can place the condenser in the best location for your landscaping.

A hole approximately 3" in diameter is drilled through the exterior wall to accommodate the lines carrying refrigerant. Also, a communication wire runs between each indoor unit and the condenser, and a drain line from each indoor unit carries condensate away. Power is supplied by the outdoor unit so there are no cords or plugs visible on the interior.



Indoor Unit Mix 'n' Match Possibilities

Zones	Indoor Units*	Total BTUH	Zones	Indoor Units*	Total BTUH	Zones	Indoor Units*	Total BTUH
A-KMH18DV-1 1,2 units	12K	12,000	A-KMH36QV-1 1, 2, 3 or 4 Units	9K+9K+12K	30,000	A-KMH48PV-1 2, 3, 4, or 5 Units	12K+18K+24K	54,000
	6K+6K	12,000		9K+9K+18K	36,000		12K+24K+24K	60,000
	6K+9K	15,000		9K+12K+12K	33,000		6K+6K+6K+9K	27,000
	6K+12	18,000		9K+12K+18K	39,000		6K+6K+6K+18K	36,000
	9K+9K	18,000		9K+18K+18K	45,000		6K+6K+6K+24K	42,000
	9K+12	21,000		12K+12K+12K	36,000		6K+9K+12K+24K	51,000
A-KMH28TV-1 1, 2 or 3 units	24K	24,000		12K+12K+18K	42,000		6K+12K+18K+18K	54,000
	6K+6K	12,000		12K+18K+18K	48,000		9K+9K+9K+9K	36,000
	6K+12K	18,000		12K+12K+24K	48,000		9K+9K+9K+12K	39,000
	6K+18K	24,000		6K+6K+6K+6K	24,000		9K+9K+9K+18K	45,000
	6K+24K	30,000		6K+6K+6K+9K	27,000		9K+9K+9K+24K	51,000
	9K+9K	18,000		6K+6K+6K+12K	30,000		9K+9K+12K+24K	63,000
	9K+12K	21,000		6K+6K+6K+18K	36,000		9K+9K+12K+12K	42,000
	9K+18K	27,000		6K+6K+6K+24K	42,000		9K+9K+12K+18K	48,000
	9K+24K	33,000		6K+6K+9K+9K	30,000		9K+9K+12K+24K	54,000
	12K+12K	24,000		9K+9K+9K+9K	36,000		9K+9K+18K+24K	60,000
	12K+18K	30,000		9K+9K+9K+12K	39,000		9K+12K+12K+12K	45,000
	12K+24K	36,000		9K+9K+9K+18K	45,000		9K+12K+12K+18K	51,000
	18K+18K	36,000		9K+9K+12K+12K	42,000		9K+12K+12K+24K	57,000
	6K+6K+6K	18,000		9K+9K+12K+18K	48,000		12K+12K+12K+12K	48,000
	6+9K+9K	24,000	9K+12K+12K+12K	45,000	12K+12K+12K+18K		54,000	
	9K+9K+9K	27,000	6K+24K	30,000	12K+12K+12K+24K		60,000	
	9K+9K+12K	30,000	9K+24K	33,000	12K+12K+18K+18K		60,000	
	9K+9K+18K	36,000	12K+24K	36,000	9K+9K+9K+9K+9K		45,000	
	9K+12K+12K	33,000	18K+18K	36,000	9K+9K+9K+9K+12K		48,000	
	12K+12K+12K	36,000	18K+24K	42,000	9K+9K+9K+9K+18K		54,000	
A-KMH36QV-1 1, 2, 3 or 4 Units	24K	24,000	24K+24K	48,000	9K+9K+9K+9K+24		60,000	
	6K+12K	18,000	6K+9K+24K	39,000	9K+9K+9K+12K+12K		51,000	
	6K+18K	24,000	9K+9K+18K	36,000	9K+9K+9K+12K+18K		57,000	
	6K+24K	30,000	9K+12K+12K	33,000	9K+9K+9K+12K+24K		63,000	
	9K+18K	27,000	9K+12K+18K	39,000	9K+9K+9K+18K+18K	63,000		
	9K+24K	33,000	9K+18K+18K	45,000	9K+9K+12K+12K+12K	54,000		
	12K+12K	24,000	9K+18K+24K	51,000	9K+9K+12K+12K+18K	60,000		
	12K+18K	30,000	9K+24K+24K	57,000	9K+12K+12K+12K+12K	57,000		
	12K+24K	36,000	12K+12K+12K	36,000	9K+9K+9K+18K+18K	63,000		
	18K+18K	36,000	12K+12K+18K	42,000	9K+9K+12K+12K+18K	60,000		
	18K+24K	42,000	12K+18K+18K	48,000	9K+12K+12K+12K+12K	57,000		
	9K+9K+9K	27,000	12K+12K+24K	48,000	9K+12K+12K+12K+18K	60,000		

**When choosing styles, use only one Floor/Ceiling Mount indoor unit per mix,

Formula

- 1) Total rated indoor section capacity must be at least 66% of the outdoor section rated capacity.
- 2) Total rated indoor section capacity may not exceed outdoor section capacity by more than 33%.

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

