



Penner Manufacturing Inc.

Aqua-Aire® Spas

Plumbing Specifications

Electrical Specifications

Room Recommendations

Plumbing Codes

CASCADE™ ALCOVE SERIES

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Aqua-Aire® Spas

Regulatory Requirements

- Penner Manufacturing meets or exceeds requirements of most State and Municipal Plumbing and Electrical Codes. Always seek the recommendations of applicable agencies prior to installation of a bathing system. It is advisable to ask if RPZ's or Reduced Pressure Zone Backflow Prevention Valves are required

- Penner Spas Compliant to the following Regulations:

(UL) Under Writers Laboratories Inc PIDF.E213698
Medical Equipment

(FDA) Food and Drug Administration Medical Device
Establishment 1922538



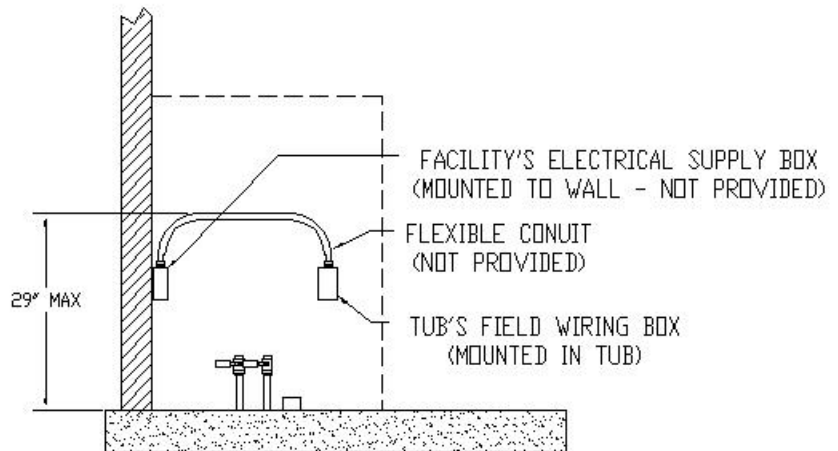
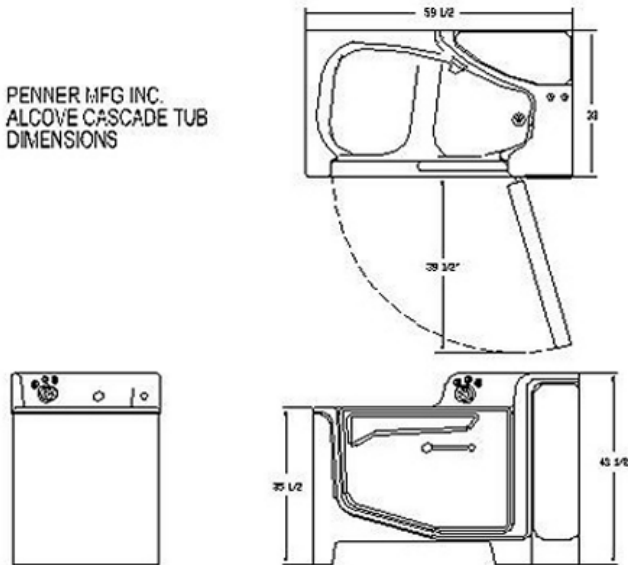
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CASCADE™ ALCOVE SERIES

- Cascade Alcove Specifications
- Specification Description
- Specification Notes
- Tub Length 59 1/2" With Trim
- Tub Width w/Door handle on 37" Includes Handle and Buttons
- Tub Width without Door Handle 34 1/8"
- Tub Width Door Open 72 1/2"
- Total Weight Filled 1016 Lbs. 2 1/4" Down from Overflow
- Tub Filled Volume 70 Gallons
- Tub Filling Time 35 PSI Dynamic 10 Min. 8 Sec. 2 1/4" Down from Overflow
- Tub Emptying Time 2 Min. 16 Sec. 2 1/4" Down from Overflow
- Water Connection 3/4"
- Hoses (Included) 2 Ea. 3/4"
- Minimum Water Pressure (USA) 20 PSI
- Maximum Water Pressure (USA) 150 PSI
- Recommended Maximum Hot Water Tub Fill Temperature 110 Degree "F"
- Maximum Cold Water Temperature 67 Degree "F"
- Drain Connection 2" Male Nominal
- Minimum Drain Capacity 35 GPM
- Electrical Connection (USA) 120VAC 13.3 Amp. 60 HZ 1 PH
- Inside Length End to End 50 3/4"
- Inside Width Side to Side 22"

PENNER MFG INC.
ALCOVE CASCADE TUB
DIMENSIONS





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CASCADE™ ALCOVE SERIES

**PENNER MFG INC.
ALCOVE CASCADE TUB
ROUGH-IN SPECIFICATIONS**

- WATER SUPPLY:** 3/4" HW & CW SUPPLY LINES PREFERRED WITH BALL VALVES W/FEMALE NPT THREADS (NOT SUPPLIED)
- DRAIN:** DRAIN PIPE FROM FLOOR OR OPTIONAL WALL LOCATION - 2" PVC P-TRAP NOT PROVIDED.
- TUB ELECTRICAL RATING:** 120 VOLTS 6.5 AMPS
RECOMMENDED ELECTRICAL SUPPLY IS 15 AMP WITH GFCI PROTECTION (NUISANCE TRIPPING MAY OCCUR IF THE WIRING IS TOO LIGHT FOR THE DISTANCE BETWEEN THE BREAKER AND THE TUB.)

