

# OUTDOOR CONDENSING GAS BOILERS



All of the features and benefits that have made the Knight Boiler a favorite among building owners and contractors are now available in a model equipped for outdoor use.

*You can now have the reliability, efficiency, and control that you require with a product designed and certified for outdoor installations.*



**UP TO 99%  
EFFICIENCY**

The outdoor certified Knight operates with efficiencies up to 99% with a modulation rate turndown of 5:1. SMART SYSTEM™ operating controls offer features like cascade, outdoor reset, domestic hot water priority, and external setpoint control through the building management system utilizing 0-10 volts DC.

Lochinvar also offers custom package systems incorporating the Knight which can ease installation costs along with reducing the footprint over field fabricated equipment. They are pre-piped, skid mounted, and factory tested before leaving Lochinvar. Information on custom packaged solutions can be found at [www.Lochinvar.com](http://www.Lochinvar.com).

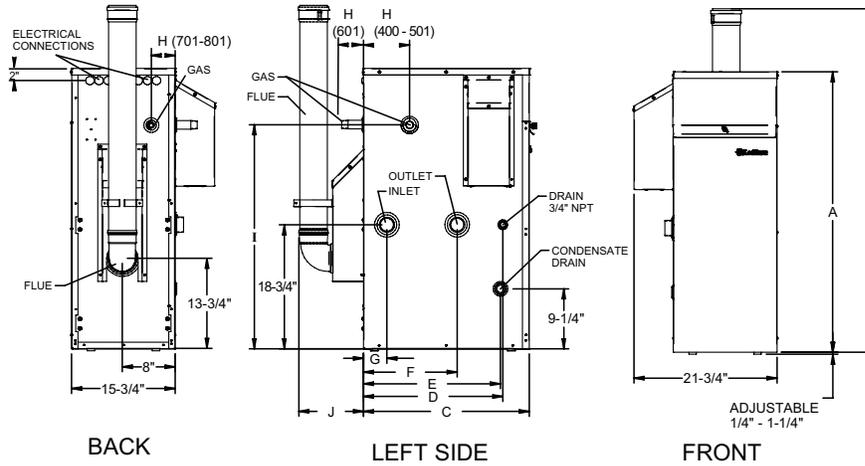
*For more information on the newest member of the Knight family reference the Knight Boiler literature or visit our website [www.Lochinvar.com](http://www.Lochinvar.com).*



[Lochinvar.com](http://Lochinvar.com)

# OUTDOOR KNIGHT® BOILER DIMENSIONS AND SPECIFICATIONS

Models:  
OKN 400-801



OUTDOOR KNIGHT HEATING BOILER			DIMENSIONS AND SPECIFICATIONS													
Model Number	Input Min. MBH	Input Max. MBH	A	C	D	E	F	G	H	I	J	K	Gas Conn.	Water Conn.	Vent Size	Shipping Wt. (lbs.)
OKN400	80	399	42-1/2"	25-1/4"	21"	20-3/4"	14-1/4"	3-1/2"	7"	34"	9-3/4"	52"	1"	1-1/2"	4"	280
OKN501	100	500	42-1/2"	31-1/2"	21-1/4"	25"	14-1/4"	3-3/4"	3-1/2"	35-1/4"	9-3/4"	52-3/4"	1"	1-1/2"	4"	310
OKN601	120	600	42-1/2"	35"	21"	25"	14-1/4"	3-1/2"	4-1/2"	32-3/4"	9-1/2"	52"	1"	2"	4"	340
OKN701	140	700	42-1/2"	41-1/4"	23-1/4"	29-1/4"	17-1/4"	3-1/2"	3"	32-3/4"	12"	49-1/2"	1"	2"	6"	370
OKN801	160	800	42-1/2"	43-1/4"	23-1/4"	33-1/2"	17-1/4"	3-1/2"	3-1/4"	33"	12-1/4"	50-1/2"	1"	2"	6"	405

Notes: Outdoor installation only. All information subject to change. Change "N" to "L" for LP gas models.

## OUTDOOR STANDARD FEATURES

- › Up to 99% Efficiency
- › SMART SYSTEM™ Operating Control
- › Modulating Burner with 5:1 Turndown
  - › Direct-Spark Ignition
  - › Low-NOx Operation
  - › Field Convertible from Natural to LP Gas
- › ASME Stainless Steel Heat Exchanger
  - › 50 psi ASME Relief Valve)
- › Outdoor Rated Vent System
  - › UV Resistant Polypropylene (400-601)
  - › Stainless Steel (701-801)
- › Condensate Trap
- › Other Features
  - › Automatic Reset High Limit
  - › Adjustable High Limit w/Manual Reset
  - › Adjustable Leveling Legs
  - › Zero Clearances to Combustible Materials
  - › 10-Year Limited Warranty

## OPTIONAL EQUIPMENT

- › Modbus Communication
- › Condensate Neutralization Kit
- › Multi Temperature Loop Control (Indoor install only)
- › Flow Switch
- › Low-Water Cutoff w/Manual Reset & Test
- › Alarm Bell
- › Boiler Circulation Pump and Pump Cover
- › SMART SYSTEM PC Software
- › BMS Gateway to LON or BacNet
- › High & Low Gas Pressure Switches (501-801)

## FIRING CODES

- › M9 Standard Construction
- › M7 California Code
- › M13 CSD-1 / FM / GE Gap (501-801)



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