



Cast Iron Gas-Fired Water Boilers

CDV-B SERIES

KEEPING FAMILIES  *WARM SINCE 1936*



Quality Engineered for Efficiency and Dependability

CDV-B SERIES

Gas-Fired / Natural or Propane, Hot Water

Warm Up To The Versatility Of The CDV-B Boiler

The CDV-B series boiler combines high efficiency and venting flexibility with a compact design that allows installation in virtually any residential application. With quality components such as cast-iron heat exchangers and stainless steel burners, the CDV-B is an ideal choice for new or existing homes.

Venting and Installation Flexibility

The CDV-B Series boiler can be vented vertically up a chimney or horizontally through an exterior wall making it a convenient and cost effective choice for a variety of applications. Standing less than 31 inches high, this low profile boiler fits into areas that other boilers can not. The CDV-B is also an ideal choice when converting a home from electric heat to a hot water system.

Cast Iron Heat Exchanger

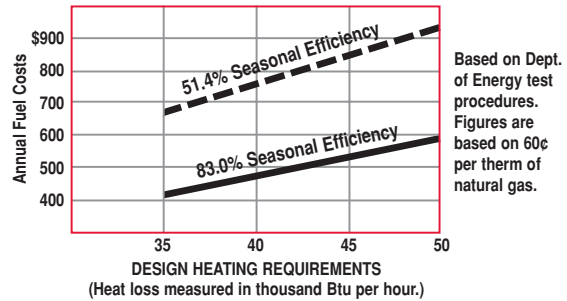
The CDV-B utilizes cast iron construction because of its durability and efficient heat transfer capabilities. Cast iron sections and push nipples are an integral part of each CDV-B heat exchanger. Using only the highest quality cast iron and heat transfer designs, the CDV-B will provide many years of efficient and trouble-free operation.

83%
Efficiency
Rating

High Energy Efficiency and Lower Heating Costs

With efficiency ratings as high as 83%, the CDV-B provides increased energy savings resulting in lower fuel bills. With the potential cost savings this represents, the CDV-B boiler will pay for itself in a few short years.

Compare The Difference High Efficiency Makes



This graph illustrates the difference in annual operating costs between boilers with higher and lower efficiencies. Boilers installed years ago have seasonal efficiencies as low as 50%. So, your savings in fuel dollars with Columbia's CDV-B boiler can repay its installed cost in a few short years!

Built-In Safety Devices

The CDV-B is equipped with an automatic gas shut-off feature that assures the safety of all family members. A three-phase gas shutdown system must sense proper flue pressure before it opens the main gas valve. This gas safety system also checks for proper component function before proceeding to the ignition mode.

Factory Tested, Pre-Wired & Packaged

The CDV-B boiler arrives ready to install. Prior to leaving the factory, it is subjected to nine quality assurance checks to ensure trouble-free start-up and performance.



CDV-B Boiler Features

- Specially Designed Rust-Proof Stainless Steel Vent Piping (Not Supplied)
- UL-Approved® Safety-Tested Exhaust Fan
- Computer Designed Heat Transfer Pin Configuration
- Pressure Relief Valve
- A.S.M.E.-Approved Cast Iron Sections (Limited Lifetime Warranty)
- Positive Vent Safety Shut-Off
- Cast Iron Connecting Push Nipples
- Solid Cast Iron Heat Exchanger
- Whisper-Quiet Flame
- All Controls Are Inside Jacket
- Corrosion-Resistant Stainless Steel Burners
- Reliable Electronic Pilot Ignition Sensor
- Safety Redundant Gas Valve
- Optional Combustible Floor Installation Kit

CDV-B Additional Boiler Features

- Venting Flexibility - Side Wall or Chimney
- Low Profile Compact Design
- Cast Iron Sections and Push Nipples
- Energy Efficiency Ratings as high as 83%
- Factory Tested, Pre-Wired and Packaged for Fast, Easy Installation
- Nine Quality Assurance Checks Ensure Trouble Free Start Up and Performance
- Made in America.

Manufacturer's Limited Lifetime Warranty

Columbia backs its residential, cast iron heat exchangers with a Limited Lifetime Warranty. This warranty is meant to protect your investment, but it is also offered to illustrate our commitment to customer satisfaction and American manufacturing pride. We believe this product is manufactured using the finest techniques and materials available.

CDV-B Series

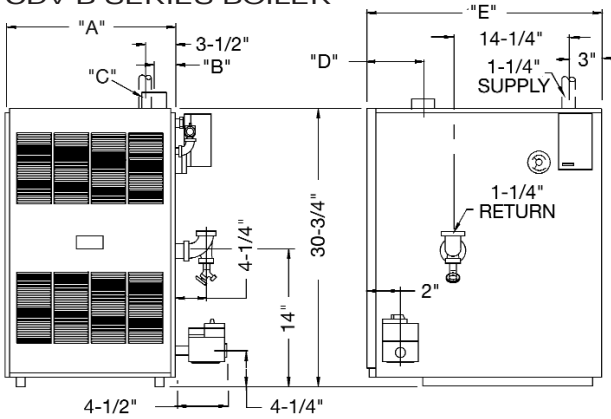
CAST IRON, GAS-FIRED, HOT WATER BOILER FOR CHIMNEY OR THROUGH-THE-WALL VENTING

BOILER NO.	A.G.A. INPUT BTU/HR.	HEATING CAPACITY BTU/HR.	I=B=R NET OUTPUT BTU/HR.	NATURAL GAS INLET	DIMENSIONS						PUMP SIZE SUP. & RET. TAPPINGS	NO. OF BURNERS	AFUE RATINGS
					A	B	C	D	E	F			
CDV-50B	50,000	42,000	37,000	1/2	11 1/4"	2 1/2"	3"	30 3/4"	27"	6 3/4"	1 1/4"	1	83%
CDV-100B	100,000	82,000	71,000	1/2	15 1/2"	4 1/4"	3"	30 3/4"	27"	6 3/4"	1 1/4"	2	82%
CDV-125B	125,000	103,000	90,000	1/2	19"	6"	3"	30 3/4"	27"	6 3/4"	1 1/4"	3	82%
CDV-150B	150,000	122,000	106,000	1/2	19"	6"	4"	30 3/4"	27"	6 3/4"	1 1/4"	3	80%
CDV-200B	200,000	160,000	139,000	3/4	22 1/2"	8"	4"	30 3/4"	28"	7"	1 1/4"	4	80%

STANDARD EQUIPMENT: Boiler jacket, cast iron boiler, combination aquastat relay, thermostatic gauge, circulator, main gas burners, electronic ignition system, A.S.M.E. relief valve, drain cock, induced draft fan and safety pressure switch.
 OPTIONAL EQUIPMENT: B-vent adapter kits, combustible floor kit.

DIMENSIONS

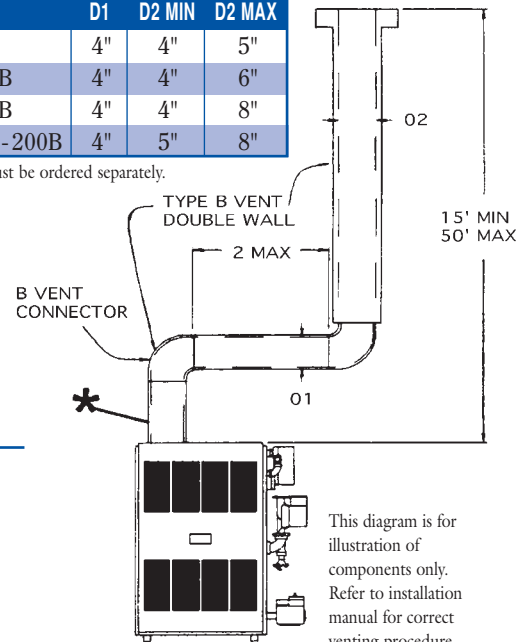
CDV-B SERIES BOILER



CATEGORY I (CHIMNEY) VERTICAL VENTING INSTALLATION TYPE B VENT

MODEL	D1	D2 MIN	D2 MAX
CDV50B	4"	4"	5"
CDV100B	4"	4"	6"
CDV125B	4"	4"	8"
CDV150-200B	4"	5"	8"

* Adapter must be ordered separately.



EXPLANATORY NOTES

All boilers are design-certified for installation on non-combustible floors. For installation on combustible floors, use combustible floor kit. This will increase dimension D approximately 1-13/16 inches.

This boiler is designed and certified as a Category I (chimney), or III (through-the-wall), appliance. A through-the-wall installation requires a special horizontal Category III venting system. A vertical/chimney installation requires a correctly sized doublewall, type "B"

vertical vent and vent connector. Consult factory instructions, and the National Fuel Gas Code, for required sizing of Category I fan-assisted appliances.

A masonry chimney installation requires a chimney liner.

Consult installation instructions for maximum vent lengths and proper configurations.

Specifications and dimensions are subject to change without notice.

MEA# 415-90-E

YOUR ASSURANCE OF QUALITY

Columbia Boilers products are designed, tested, and assembled to ensure that you get the very best in home heating comfort, and value. Each one meets or exceeds all recognized safety, performance and efficiency standards.



For more information on Columbia Boilers heating products contact your local Columbia Boilers distributor or call Columbia Boilers at (410) 242-5300 or (610) 323-9200.

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