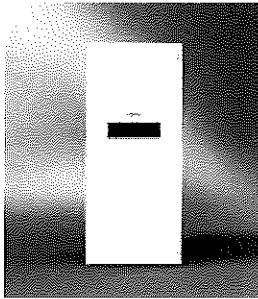


Viessmann Manufacturing
Company Inc.
Waterloo, ON Canada
1-800-387-7373
www.viessmann.ca

Viessmann Manufacturing
Company (U.S.) Inc.
Warwick, RI U.S.A.
1-800-288-0667
www.viessmann.us

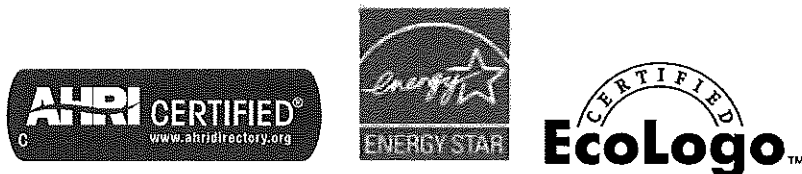
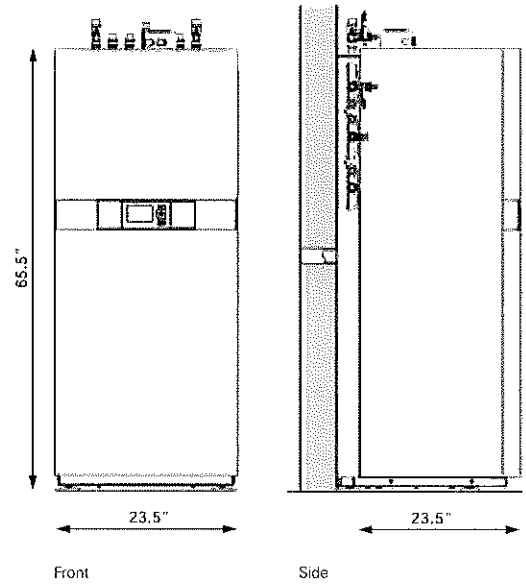
Technical Data



Vitodens 222-F, B2TA gas-fired floor standing condensing boiler and DHW heating system

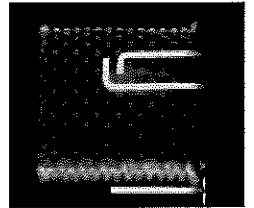
Model	B2TA	19	35
Min. Input	MBH	12	19
Max. Input	MBH	67	125
Max. Allowable Working Pressure	psig	45	45
Dimension			
Width	in.	23.5	23.5
Height	in.	66.5	66.5
Depth	in.	23.5	23.5
DHW Storage Tank			
Capacity	USG	26.5	26.5
Max. Allowable Working Pressure	psig	150	150
Continuous Draw Rate*	gpm	1.8	3.3
Max. Draw Rate* (over 10 min. period)	gal	44	60
Weight	lbs	313	313

* Based on a temperature rise of 70 °F (50 °F to 120 °F).
Information subject to change without notice.





Stainless steel, Viessmann-made
Inox-Radial heat exchanger



Low-emission, Viessmann-made
Matrix cylinder burner

Proven Viessmann technology

At the heart of the new Vitodens 222-F are the Viessmann-made SA240 316Ti stainless steel Inox-Radial heat exchanger and low-emission Matrix cylinder burner. The Matrix burner's Lambda Pro combustion management system automatically adapts to changing gas type and quality for optimal efficiency, while the durable stainless steel heat exchanger offers exceptional reliability and long service life. Together, they allow for optimal heat extraction with minimal heat loss to maximize energy utilization and reduce fuel consumption.

Specifications

- Viessmann-made SA240 316Ti stainless steel Inox-Radial heat exchanger constructed to CSA B51 and ASME Section IV
- Viessmann-made stainless steel Matrix cylinder burner with Lambda Pro combustion management system for continuous efficiency and low emissions
- 2 models with input ranges from 12 to 125 MBH
- Viessmann-made SA240 316Ti stainless steel DHW storage tank (26 USG)
- Innovative DHW Storage Tank Loading System comprised of plate heat exchanger, DHW loading pump and storage tank
- Zero side clearance requirement
- Pre-installed pressure / temperature relief valves
- Fully enclosed heating expansion tank and circulation pump
- Exceeds Energy Star® Efficiency Requirements
- Built-in 3-speed DHW / space heating pump with diverter valve
- Suitable for altitude levels up to 10,000 ft. / 3,000 m
- Fast heat-up with Storage Tank Loading System
- 10-minute peak flow of 60 gallons (model B2TA-35 only)*
- Continuous DHW draw of 3.3 GPM*
- Wide modulation ratio up to 6.5:1
- Multiple venting options with vent length up to 180 ft.

* Based on a temperature rise of 70 °F (50 °F to 120 °F).

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Centrotec Sustainable A.G.	Manufacturer:	Centrotherm Systemtechnik GmbH
Address:	Am Patbergschen Dorn 9 59929 Brilon	Address:	Am Patbergschen Dorn 9 59929 Brilon
Country:	GERMANY	Country:	GERMANY
Contact:	Mr. Holger Altrock	Contact:	Mr. Holger Altrock
Phone:	011 49 2961 9670211	Phone:	011 49 2961 9670211
FAX:	011 49 2961 96706211	FAX:	011 49 2961 96706211
Email:	Holger.altrock@centrotec.com	Email:	Holger.altrock@centrotec.com

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Montreal

Control Number: 4004535

Authorized by: _____

William T. Starr
 William T. Starr, Certification Manager

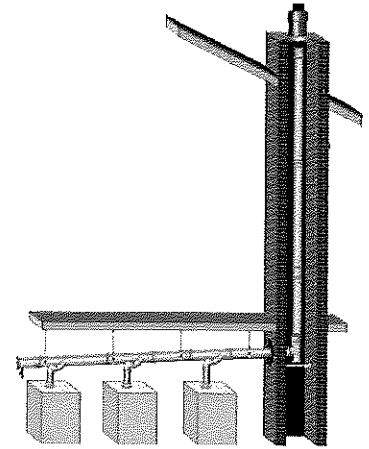


This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
 165 Main Street, Cortland, NY 13045
 Telephone 800-345-3851 or 607-753-6711 Fax 607-756-6699

Standard(s):	UL 1738 Dated 10/4/2010 Standard for Safety for Venting Systems ULC-S636-08 Standard for Type BH Gas Venting Systems
Product:	PP Single Wall Pipe 2"-12", PP Flexible 2"-4", Concentric with metal outer and PP inner 2/4" - 4/6" and Concentric with plastic outer and PP inner 3"-5"
Brand Name:	InnoFlue; Rolux
Models:	ICVL, ICEL, ICTP, ICHDT, ICIA, ISVL, ISEP, ISEL, ISBS, ISHDT, IST, ISTCD, ISTC, ISTP, ISIA, ISRD, ISEI, IFVL, IFFS, IFSF, IFFF, IFEP, ISTT, ICCT, ICTC, IASP, ISAG, ISTAG, ISAGL, ISAAL, ISAA, ISAAR, ISAF, ISAUC, ICWS, ICRT, ISCP, ISCS, ISCM, ISBT, ISHDF, ISRTP, ISRT, IAAI, IASPP, IASSS, IASC, IANS, IALJS and ISBF Series

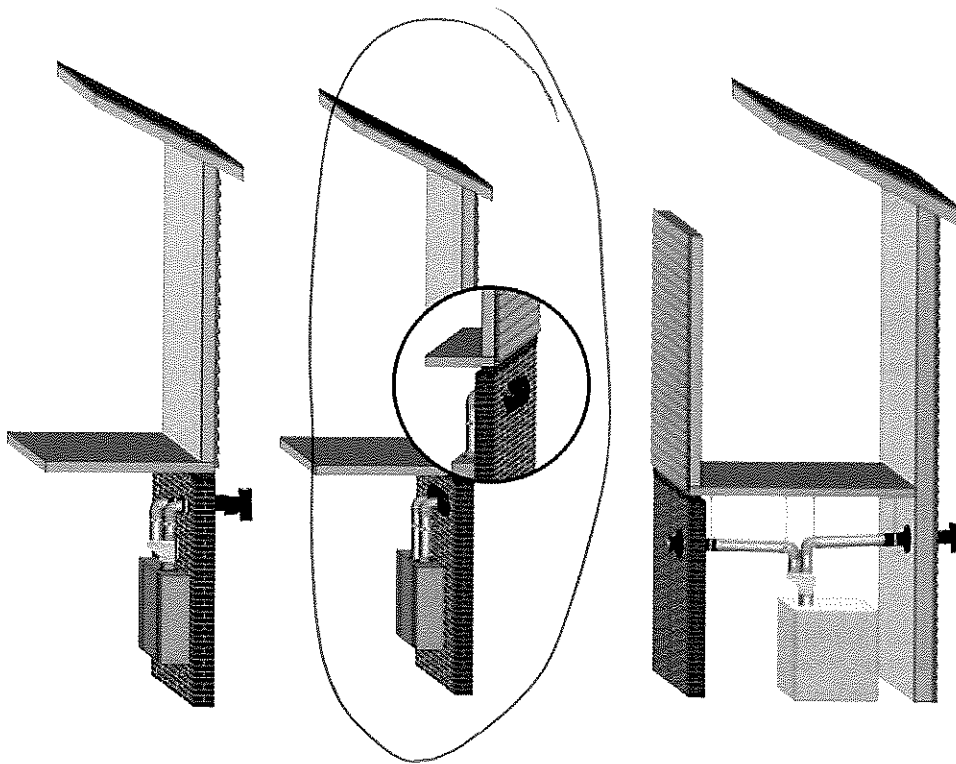


Side wall termination

If terminating through a roof or chimney is not a feasible option, InnoFlue® can be easily terminated horizontally through a wall. Support clamps every 3 feet on horizontal configurations must be utilized to support the system. Pitch any horizontal portion of the vent system at an angle of no less than three degrees or 5/8"/foot (5.6cm/m) towards the appliance. We have a variety of aesthetically pleasing termination pieces that not only maintain the functional integrity of the system but avoid the common "eyesore" appearance of many other vent manufacturers' terminations.

InnoFlue® single wall sidewall termination

Typical InnoFlue® single wall sidewall termination combinations.



System Components

Appliance Adaptors

Elbows

Base Supports

Condensate Management

Concentric Adaptors



Polypropylene Vent Systems

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Solutions

InnoFlue® Single Wall

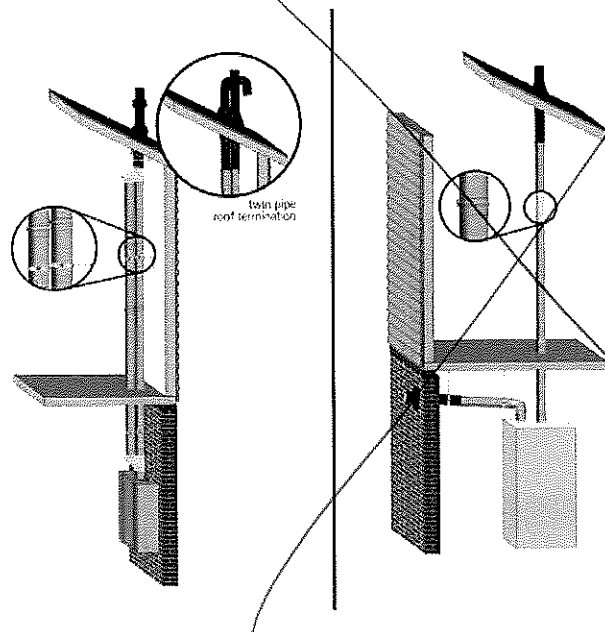
Our Single wall rigid pipe offers a wide range of venting solutions to suit your specific application.

Vertical installation/termination through the roof

InnoFlue® Single wall can be installed directly through pitched or flat roofs. All of our products are listed at zero clearance to combustibles. Support clamps every 6 feet support the vent lengths and allow for natural expansion and contraction. InnoFlue® Single Wall Polypropylene Vent Systems can be used in areas that require a one or two hour fire rating per ASTM E-814, UL 1479 or ULC S115 when used with a listed passive fire protection system. Approved passive fire protection system manufacturers include PFP Partners and 3M. This InnoFlue® Fire Rated Assembly Supplement is guideline, the Passive Fire Protection System Manufacturer's installation instructions should be followed at all times.

InnoFlue® single wall termination through the roof

Typical combinations of InnoFlue® single wall terminations through roof.



Vertical installation/termination through a masonry chimney/chase

InnoFlue® single wall can also be installed in an existing chimney or chase with ease. The use of our base support system and spacers every 6 feet eliminate the need for supports on the interior of the chimney, while our chimney cover secures the system at the top of the chimney. Multiple InnoFlue® vents or air intake systems can be installed in the same chase.

InnoFlue® single wall termination through chimney

Typical InnoFlue® single wall termination through a chase (cascade).

InnoFlue®

Polypropylene Vent Systems



Appliance Manufacturer: _____
Appliance Type: _____
Model Number: _____
Submitted By: _____
Approved By: _____



Date: _____
Date: _____

Applicable Standards:

UL-1738

Category II, III, and IV Gas Vent BH ULC-S636

Class II C Gas Vent BH

Listed By:



The InnoFlue® Vent System is manufactured from polypropylene.

It has been tested and listed by **Intertek** to UL-1738 and ULC-S636 for use with **Category II, III, IV (US), and Gas-Vent-BH, Class II C (Canada)** Residential, Commercial and Industrial gas fired appliances. InnoFlue® is UL-1738 & ULC-S636 rated for use with maximum flue gas temperatures of **230°F (110°C)**. NOTE: **Centrotherm Eco Systems** warrants InnoFlue® up to a sustained maximum flue gas temperature of **248°F (120°C)**. InnoFlue® is rated to a maximum vent pressure of **20"** of water column.

As part of regular equipment maintenance, check for vent system integrity and blockage. All installations must conform to all relevant Local, State, and National codes.

In the US: National Fuel Gas Code ANSI-Z223.1, NFPA 54, NFPA 211. In Canada: CAN/CGA-B149.1 or CAN/CGA-B149.2. Permits may be required before an installation can begin. Before installation, each vent component must be inspected for possible shipping damage and correct seal placement. These installation instructions must be read, understood and complied with. These installation instructions comply with UL-1738 and ULC-S636. Refer to the appliance manufacturer's installation instructions for appliance adaptors, terminations and maximum allowable vent length. For UL- 1738 & ULC-S636 approved InnoFlue® components, consult the InnoFlue® catalog at <http://centrotherm.us.com>.

InnoFlue® vent components must be used throughout the entire vent system.

Do not mix with other vent manufacturer's products.

Pipes, Elbows, and Fittings Submitted for Approval

For gas, oil, and propane fired appliances with flue gas temperatures that do not exceed 230°F (110°C).

SKU	Diameter	Effective Length	Wall Thickness min/max in.(mm)
ISVL021	2 (60mm)	12 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL031	3 (80mm)	12 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL041	4 (110mm)	12 "	.0787 (2.0mm) / .1299 (3.3mm)
ISVL051	5 (125mm)	12 "	.0984 (2.5mm) / .1457 (3.7mm)
ISVL061	6 (160mm)	12 "	.1024 (2.6mm) / .1772 (4.5mm)
ISVL081	8 (200mm)	12 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL101	10 (250mm)	12 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL121	12 (315mm)	12 "	.1181 (3.0mm) / .2362 (6.0mm)
SKU	Diameter	Effective Length	Wall Thickness min/max in.(mm)
ISVL022	2 (60mm)	24 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL032	3 (80mm)	24 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL042	4 (110mm)	24 "	.0787 (2.0mm) / .1299 (3.3mm)
ISVL052	5 (125mm)	24 "	.0984 (2.5mm) / .1457 (3.7mm)
ISVL062	6 (160mm)	24 "	.1024 (2.6mm) / .1772 (4.5mm)
ISVL082	8 (200mm)	24 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL102	10 (250mm)	24 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL122	12 (315mm)	24 "	.1181 (3.0mm) / .2362 (6.0mm)
SKU	Diameter	Effective Length	Wall Thickness min/max in.(mm)
ISVL023	2 (60mm)	36 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL033	3 (80mm)	36 "	.0591 (1.5mm) / .1063 (2.7mm)
ISVL043	4 (110mm)	36 "	.0787 (2.0mm) / .1299 (3.3mm)
ISVL054	5 (125mm)	36 "	.0984 (2.5mm) / .1457 (3.7mm)
ISVL063	6 (160mm)	36 "	.1024 (2.6mm) / .1772 (4.5mm)
ISVL083	8 (200mm)	36 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL103	10 (250mm)	36 "	.1024 (2.6mm) / .1969 (5.0mm)
ISVL123	12 (315mm)	36 "	.1181 (3.0mm) / .2362 (6.0mm)