



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 357-07-E

Manufacturer: Remeha B.v., Kannal Zuid 110,
7332 BD Apeldoorn – Postbus 32
7330 AA Apeldoorn, Netherlands

Trade Name(s): De Dietrich & Remeha

Product: Gas-fired, cast-aluminum sectional hot water heating, condensing boilers

Pertinent Code Section(s): 27-800, 27-824, 27-826, 27-886, RS 14-2 (ANSI Z223.1)

Prescribed Test(s): RS 14-6 (ANSI Z21.13, UL 795)

Laboratory: CSA International

Test Report(s): CSA certificate – Project #1844860, Master contract 236138 dated August 7, 2007.

Description: Gas310 Eco series cast-aluminum sectional condensing natural gas-fired hot water heating boilers, designed and certified for space and domestic hot water heating, such as large residential, light commercial, commercial-industrial, institutional, central heating plants and process, but are not limited to these applications. Boilers are complete units with digital boiler-burner controls that control and safeguard the premix burners and the boilers' temperature regulation. The heat exchanger is a single pass, fully condensing boiler that absorbs and gains the latent heat content in the flue gas condensation.

Optional controls are available to comply with different regulations and authorities having jurisdiction. Units, with model numbers, output and input heating rating capacities, are listed below:

Model No.	Description	Output Heating Capacity (MBH)	Input Heating Capacity (MBH)
Gas310-5 Eco	5-section boiler	191 – 952	205 – 1,017
Gas310-6 Eco	6-section boiler	242 – 1,205	256 – 1,269
Gas310-7 Eco	7-section boiler	287 – 1,457	311 – 1,529
Gas310-8 Eco	8-section boiler	334 – 1,703	358 – 1,785
Gas310-9 Eco	9-section boiler	386 – 1,955	413 – 2,041

VENTING CHART

Conventional chimney vent length chart [room supplied combustion air]

Gas 310 Model	Vent ø		Vent Length [Min]		Vent Length [Max]		90° Elbow = Length		45° Elbow = Length	
	inch	mm	Ft.	m	Ft.	m	Ft.	m	Ft.	m
310-5	10	250	5	1.5	250	76	12	3.5	6.5	2
310-6										
310-7										
310-8										
310-9										

table 04[a] - venting length chart

CLV system venting length chart [sealed combustion air]

Gas 310 Model	Vent ø		Vent Length [Min]		Vent Length [Max]		90° Elbow = Length		45° Elbow = Length	
	inch	mm	Ft.	m	Ft.	m	Ft.	m	Ft.	mm
310-5	10	250	5	1.5	180	54	12	3.5	6.5	2
310-6										
310-7										
310-8										
310-9										

table 04[b] - venting length chart

Direct vent or sealed combustion system venting length chart [sealed combustion air]

Gas 310 Model	Vent ø		Vent Length [Min]		Vent Length [Max]		90° Elbow = Length		45° Elbow = Length	
	inch	mm	Ft.	m	Ft.	m	Ft.	m	Ft.	mm
310-5	10	250	5	1.5	65	20	12	3.5	6.5	2
310-6										
310-7										
310-8										
310-9										

table 05 - venting length chart

All exhaust terminations for conventional chimney must be finished with a finishing cone with tapered end, with a bird/rodent screen. All direct vent and sealed combustion systems must be finished with TEE termination type, the combustion air inlet must be a 90° and must be provided with a debris/bird-rodent screen. All terminals shall be arranged to avoid and prevent the accumulation of flue gas condensation.

Terms and Conditions: The above-described gas-fired, hot water boilers assemblies are accepted on condition that:

1. Boilers shall be constructed in accordance with the ASME Code, RS 14-4.
2. Units shall be installed on non-combustible flooring. Minimum clearance to combustible construction shall be as follows:

Top:	12 inches (30 cm)
Front:	12 inches (30 cm)
Sides:	6 inches (15 cm)
Rear:	12 inches (30 cm)
Service side:	40 inches (1 m)
3. Units shall be fired with natural gas only.
4. Approved gas vent shall be in accordance with Subchapter 15 of the New York City Building Code, and Section 27-886.
5. This acceptance in no way includes the external piping, connection and appurtenances thereto, which are required to fully conform to applicable provisions of the law and have been tested in conjunction with this application.
6. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board.
7. Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
8. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided in Section 27-131 of New York City Building Code.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance December 20, 2007

Examined By Siun Derphudon