

Advenco MD15, MD24, MD34 C/P/B

High Efficiency Wall-Hung Condensing Boilers

Central Heating Boilers
MD 15C, 24C, 34C



CH + DHW via Indirect Tank
MD 15B, 24B, 34B

CH + DHW via Integrated PHE
MD 24P, 34P

The Advenco MD range of high efficiency condensing boilers is designed to provide a high capacity, reliable and compact solution to a building's central heating demand.

Manufactured by our European partner with over 50 years of experience in boiler production, the MD is a range of wall-hung condensing boilers with rated heat outputs from 15 to 34 kW.

All boilers include a single high quality patented heat exchanger constructed from a continuous, non-welded run of titanium-stabilised stainless steel, providing exceptional construction strength and corrosion resistance. This brand-exclusive 3 pass design features large bore, circular tube cross sections that reduce the collection of debris.

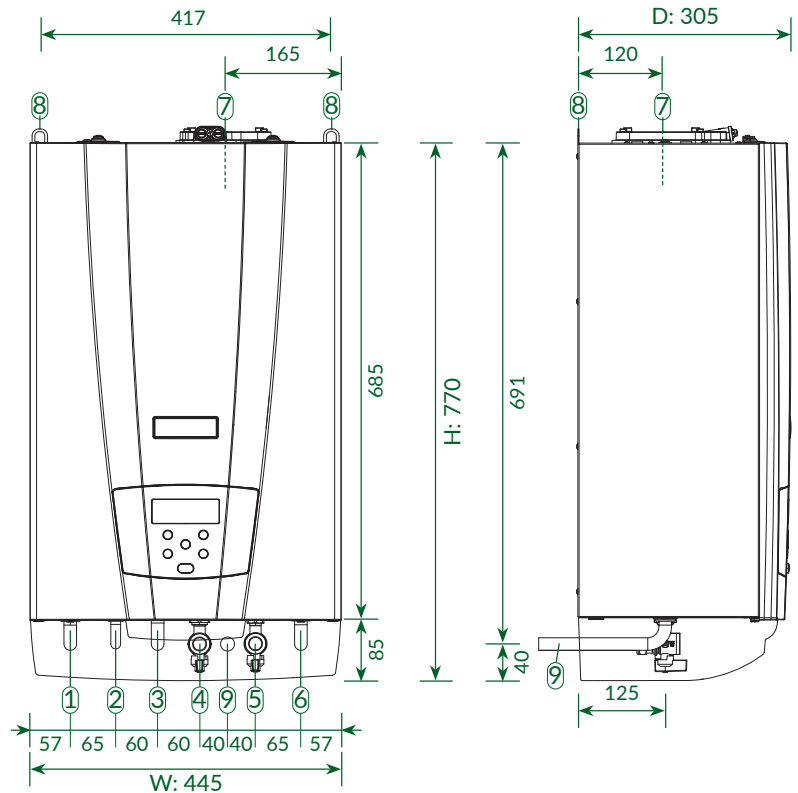
The MD 15, 24 and 34 range is available in three variations as denoted by the model suffix. The MD 15C, MD 24C, and MD 34C models serve as boilers for central heating purposes only. The MD 15B, 24B, and 34B feature additional connections for use with an indirect water heater to provide domestic hot water. The MD 24P, and 34P alternatively feature an integrated plate heat exchanger for compact and instantaneous DHW production.

STANDARD FEATURES

- Extremely high quality AISI 316Ti heat exchanger with 5 year warranty ensures lasting reliability and efficiency
- High efficiency pre-mix burner with 5 year warranty provides large modulation range
- Compact wall-hung arrangement
- Integrated cascade support for up to 8 units
- Ultra-low NO_x emissions at <31 mg/kWh
- Available using natural gas or LPG
- Standard concentric flue systems using low cost 60/100 mm diameter PP
- Optionally available with extra indirect tank connections or internal plate heat exchanger to provide domestic hot water

Connections

Port	Purpose	MD 15/24	MD 34
1	Heating flow	¾"	1"
2 (B)	Flow to indirect tank (Present on B models only)	¾"	
2 (P)	DHW flow (Present on P models only)	½"	
3 (B)	Indirect tank return (Present on B models only)	¾"	
4	Gas inlet	¾"	
5	Water filling connection (P models: DHW return)	½"	
6	Heating return	¾"	1"
7	Flue outlet	Parallel: Ø80 mm Concentric: Ø60/100 mm	
8	Wall mounts	--	
9	Condensate drain	¾"	



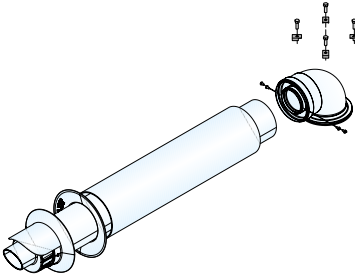
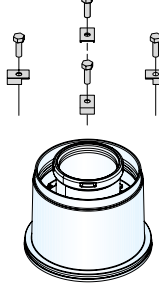
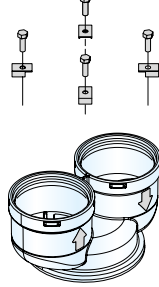
Technical Specifications

		Units	MD 15 (C, B)	MD 24 (C, B, P)	MD 34 (C, B, P)
Heat input range	Maximum	kW	14.0	25.5	32.0
	Minimum		3.2	3.2	6.0
Heat output range (80/60)	Maximum	kW	13.6	24.8	30.9
	Minimum		3.02	3.02	5.75
Maximum efficiency (80/60)	At max. output	%	96.5	97.2	96.8
	At min. output		94.5	94.5	95.8
Heat output range (50/30)	Maximum	%	14.9	27.0	33.5
	Minimum		3.30	3.30	6.14
Maximum efficiency (50/30)	At max. output	%	106.5	105.7	104.7
	At min. output		103.0	103.0	102.4
Efficiency at 30% load (92/42/EEC Certificate: ★★★★★)		%	107.5	108.5	107.0
Instantaneous DHW production ΔT = 30°C		l/min	--	12.9	16.0
DHW minimum flow rate		l/min	--	2	2
Gas flow rate	Methane	m³/h	1.48	2.70	3.38
	LPG	kg/h	1.09	1.98	2.48
Heat exchanger water capacity		l	2.9	3.4	3.4
Heating temperature range		°C	20 - 80	20 - 80	20 - 80
System pressure range		bar	1 - 3	1 - 3	1 - 3
Supply		V / Hz	230 / 50	230 / 50	230 / 50
Consumed electric power		W	120	120	120
Weighted CO (0% O ₂ with methane)		ppm	5	20	25
Weighted NO _x (0% O ₂ with methane)		mg/kWh	25	31	24
Flue gas maximum mass flow rate		kg/h	23.0	41.8	52.6
Dimensions H × W × D		mm	770 × 445 × 305		
Empty weight	Model -C	kg	38	38	38
	Model -B	kg	36	36	36
	Model -P	kg	--	38	38

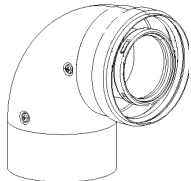
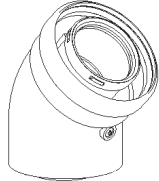
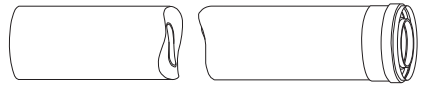
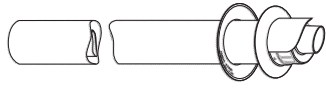



Ancillaries & Flue Components

For further information and specifications on the full range of available flues and ancillaries, please contact the Advenco application design department at technical@advenco.co or 01252 551 540 Option 5. All drawings displayed below are for representative purposes only and actual products may differ.

Each boiler must be equipped with one of the following kits

1	2	3
<p>Horizontal Coaxial Vent Kit Ø60/100 PP</p>  <p>Part number: 62617228</p>	<p>Vertical Coaxial Adaptor Ø60/100 PP</p>  <p>Part number: 62617224</p>	<p>Split System Vent Adaptor Ø80x2 PP</p>  <p>Part number: 62617226</p>
<p>90° Concentric flue adapter and horizontal terminal for combined air intake and flue gas outlet. Enamelled steel outside, PP inside.</p>	<p>Concentric vertical flue adapter for combined air intake and flue gas outlet. Enamelled steel outside, PP inside.</p>	<p>Parallel PP flue adapter for separated air intake and flue gas outlet.</p>

Additional flue components and ancillaries

<p>Flue Concentric Elbow - 90°</p>  <p>Part number: 62617234</p>	<p>Flue Concentric Elbow - 45°</p>  <p>Part number: 62617252</p>	<p>Flue Concentric 1m Extension</p>  <p>Part number: 62617231</p>	
<p>Male to female 90° concentric flue elbow. Ø60/100. Enamelled steel outside, PP inside.</p>	<p>Male to female 45° concentric flue elbow. Ø60/100. Enamelled steel outside, PP inside.</p>	<p>One metre concentric flue extension. Ø60/100. Enamelled steel outside, PP inside.</p>	
<p>Flue Concentric Horizontal Terminal</p>  <p>Part number: 62617232</p>	<p>Flue Concentric Vertical Terminal</p>  <p>Part number: 62617304</p>	<p>Roof Flashing 18-44°</p>  <p>Part number: 62617255</p>	<p>Outdoor Temperature Sensor</p>  <p>Part number: 62110067</p>
<p>Concentric flue wall hung horizontal terminal, one metre length. Ø60/100. Enamelled steel outside, PP inside. Included with kit 62617228.</p>	<p>Concentric flue vertical terminal. one metre length. Ø60/100 PP.</p>	<p>Roof flashing for vertical terminal. Suitable for sloped pitch of 18-44°.</p>	<p>External air thermostat for heating control based on outdoor temperature.</p>