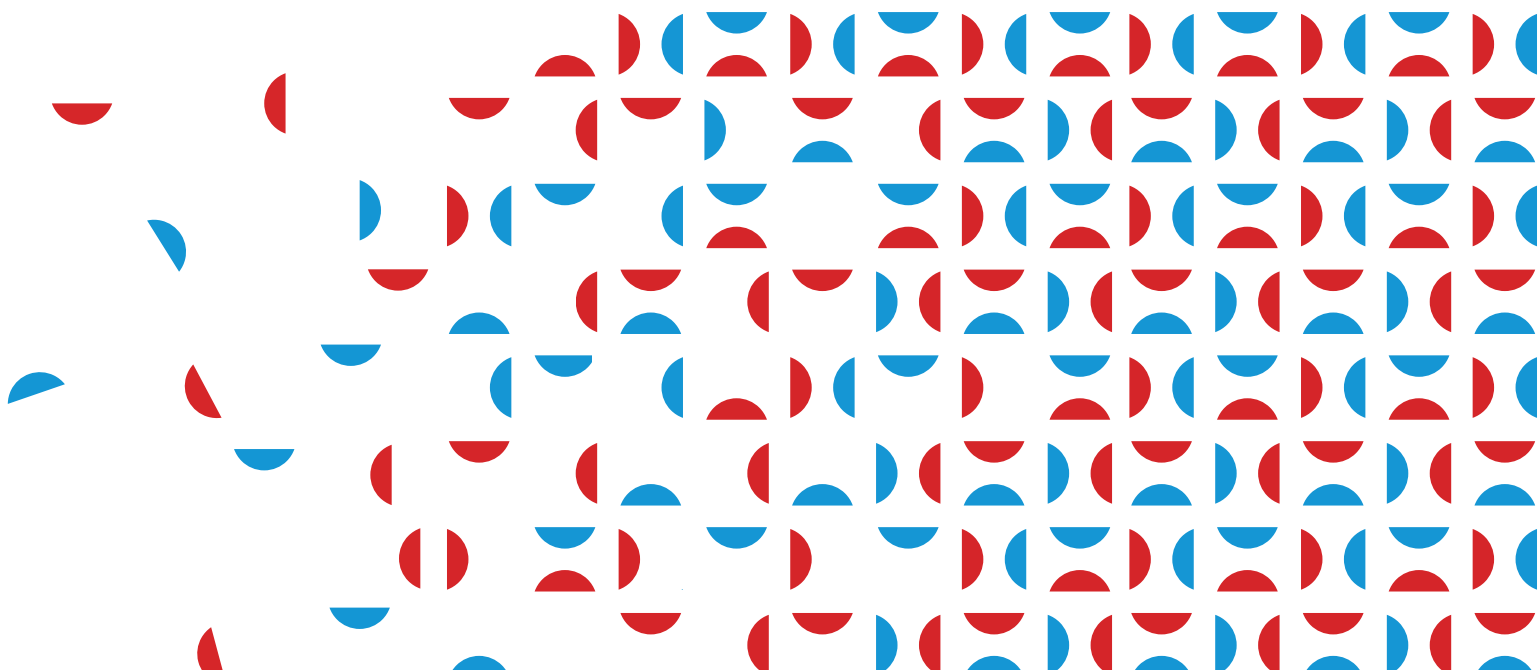


GAS AND ELECTRIC WATER HEATERS

CONDENSING GAS WATER HEATERS

HCC



Condensing Gas Water Heaters HCC



PRICES



ACCESSORIES
PRICES

Capacity: 160 to 380 litres

Power: 11.7 to 31.3 kW

Hot water production: 360 ÷ 970 lt/h

The HCC series condensing gas water heaters represent an absolute technological revolution on the Italian market.

These are direct fired, **sealed chamber and draught** appliances **forced with condensing technology**, and therefore with an efficiency about 25 per cent higher than conventional models.

- Continuous DHW production from 360 to 970 L/h
- Capacities from 160 to 380 litres
- Power from 11.7 to 31.3 kW
- Electronic ignition
- Condensing efficiency depending on the model chosen, between 106 and 109%
- DHW energy efficiency (ErP) depending on the model chosen, between 92% and 94%
- **Class A** energy certification
- Load profile for DHW **XL** to **3XL**
- Glass-lined tank at 860°C
- Modulating pre-mixed burner suitable for both natural gas and LPG operation via conversion kit
- Electronic titanium anodes as standard
- NOx emissions ≤ 37 mg/kWh
- Maximum operating temperature 85°C
- Electronic control unit controlling all operations and settings, with anti-legionella function
- Electronic diagnosis of errors on the control display and their storage
- Scheduled Maintenance Notice
- Different plastic smoke evacuation options (maximum length 75m)
- Simple and fast maintenance due to easy accessibility of components.
- Rigid polyurethane insulation
- Inspection hatch

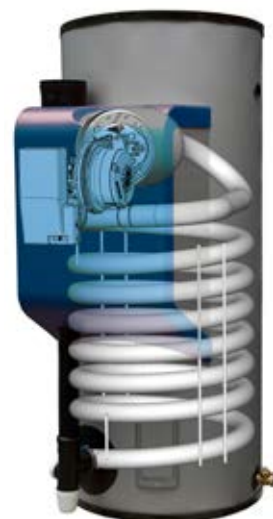


Codes/Prices

Capacity	Power kW	Code	Price	Class energy
160	11.7	10HCC12160	7.162,00 €	A
160	19.1	10HCC20160	7.358,00 €	A
200	11.9	10HCC12200	7.497,00 €	A
200	19.1	10HCC20200	7.759,00 €	A
245	23.5	10HCC24245	8.024,00 €	A
245	30.7	10HCC32245	8.149,00 €	A
285	23.8	10HCC24285	8.289,00 €	A
285	31.0	10HCC32285	8.676,00 €	A
380	31.3	10HCC32380	8.941,00 €	A

Codes/Prices Accessories

Description	Code	Price
Splitter Ø 80/125 to 2xØ80	10H0010007	377,00 €
cNG-LPG conversion kit	R49210105X	36,00 €



Condensing Gas Water Heaters

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Energy certification in
Class A

Condensation efficiency
up to 109%

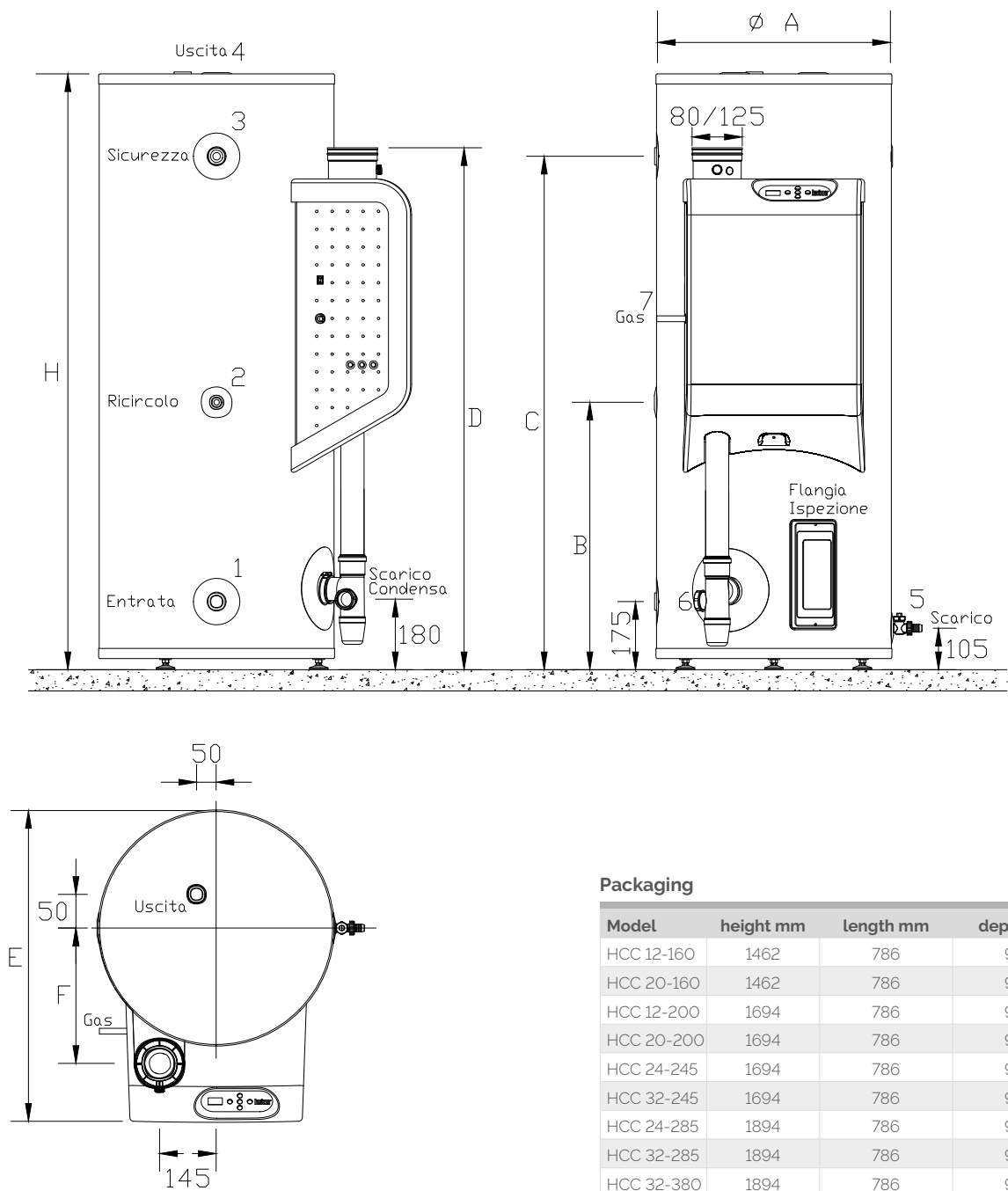


Technical Specifications

Model		HCC 12-160	HCC 20-160	HCC 12-200	HCC 20-200	HCC 24-245	HCC 32-245	HCC 24-285	HCC 32-285	HCC 32-380
General										
Capacity lt	lt	160	160	200	200	245	245	285	285	380
Condensation efficiency	%	107	106	109	106	107	106	108	107	108
Weight	kg	95	95	106	106	120	120	136	136	155
Maximum operating pressure	bar	8	8	8	8	8	8	8	8	8
Power supply	V	230	230	230	230	230	230	230	230	230
Gas category 2H-G20 - Methane										
Heat flow rate	kW	11.7	19.1	11.9	19.1	23.5	30.7	23.8	31.0	31.3
Gas consumption	m³/h	1.2	1.9	1.2	1.9	2.3	3.1	2.3	3.1	3.1
Flue gas temperature (max)	°C	42	61	42	61	57	65	57	65	65
Gas category 3B/P-G30 - LPG										
Heat flow rate	kW	12.9	21.2	13.2	21.2	26.1	34.1	26.3	34.5	34.8
Gas consumption	m³/h	0.4	0.6	0.4	0.6	0.8	1.0	0.8	1.0	1.0
Flue gas temperature (max)	°C	39	56	39	56	55	59	55	59	59
Instantaneous hot water production (Tset = 10°C / Tset = 85°C)										
Immediate delivery capacity ΔT=28°C	lt	260	270	420	430	500	510	630	630	830
30 min. ΔT=28°C / 60 min. ΔT=28°C	lt	420 / 600	530 / 820	580 / 760	700 / 900	830 / 1200	930 / 1400	960 / 1400	1100 / 1600	1300 / 1800
Continuous production with ΔT=28°C	lt/h	360	590	370	590	730	950	740	960	970
Immediate delivery capacity ΔT=50°C	lt	120	130	220	230	250	260	330	330	440
30 min. ΔT=50°C / 60 min. ΔT=50°C	lt	210 / 310	270 / 440	310 / 410	380 / 540	440 / 640	500 / 760	510 / 720	570 / 840	680 / 950
Continuous production with ΔT=50°C	lt/h	210	330	210	330	410	530	410	540	540
Immediate delivery capacity ΔT=70°C	lt	60	70	140	150	150	160	210	210	280
30 min. ΔT=70°C / 60 min. ΔT=70°C	lt	120 / 200	170 / 290	200 / 270	250 / 370	280 / 430	330 / 520	340 / 490	390 / 580	460 / 650
Continuous production with ΔT=70°C	lt/h	150	240	150	240	290	380	300	390	390
Heating time ΔT=28°C / ΔT=50°C	min	17 / 31	01/11/19	27 / 47	17 / 30	16 / 29	13 / 22	20 / 35	16 / 27	20 / 36

Condensing Gas Water Heaters

HCC



Packaging

Model	height mm	length mm	depth mm	weight kg
HCC 12-160	1462	786	946	114
HCC 20-160	1462	786	946	114
HCC 12-200	1694	786	946	122
HCC 20-200	1694	786	946	122
HCC 24-245	1694	786	946	136
HCC 32-245	1694	786	946	136
HCC 24-285	1894	786	946	153
HCC 32-285	1894	786	946	153
HCC 32-380	1894	786	946	172

Dimensions

Model	Capacity lt.	ØA	B	C	D	E	F	H	1	2	3	4	5	6	7
HCC 12-160	160	560	605	1070	1310	780	325	1269	3/4"	3/4"	3/4"	3/4"	3/4"	Ø40 mm	Ø15 mm
HCC 20-160	160	560	605	1070	1310	780	325	1269	3/4"	3/4"	3/4"	3/4"	3/4"	Ø40 mm	Ø15 mm
HCC 12-200	200	560	605	1325	1310	780	325	1543	3/4"	3/4"	3/4"	3/4"	3/4"	Ø40 mm	Ø15 mm
HCC 20-200	200	560	605	1325	1310	780	325	1543	3/4"	3/4"	3/4"	3/4"	3/4"	Ø40 mm	Ø15 mm
HCC 24-245	245	610	690	1330	1350	830	350	1543	1"	3/4"	1"	1"	3/4"	Ø40 mm	Ø15 mm
HCC 32-245	245	610	690	1330	1350	830	350	1543	1"	3/4"	1"	1"	3/4"	Ø40 mm	Ø15 mm
HCC 24-285	285	610	690	1535	1350	830	350	1743	1"	3/4"	1"	1"	3/4"	Ø40 mm	Ø15 mm
HCC 32-285	285	610	690	1535	1350	830	350	1743	1"	3/4"	1"	1"	3/4"	Ø40 mm	Ø15 mm
HCC 32-380	380	675	690	1520	1350	895	385	1743	1"	3/4"	1"	1"	3/4"	Ø40 mm	Ø15 mm

Condensing Gas Water Heaters

HCC

Ecodesign features

Model		HCC 12-160	HCC 20-160	HCC 12-200	HCC 20-200	HCC 24-245	HCC 32-245	HCC 24-285	HCC 32-285	HCC 32-380
Nitrogen dioxide (Nox)* emission	mg/kWh	22	30	22	30	33	37	33	37	37
Noise	dB(A)	41	52	41	52	53	58	53	58	58
DHW load profile	-	XL	XL	XL	XL	XXL	XXL	XXL	XXL	XXL
Energy efficiency class	-	A	A	A	A	A	A	A	A	A
Efficiency *	%	92	92	94	91	92	92	91	90	90
Daily electricity consumption	kWh	0.175	0.172	0.181	0.182	0.192	0.201	0.207	0.219	0.204
Daily fuel consumption	kWh	20.526	20.661	19.924	20.853	26.210	26.255	26.414	26.638	26.748
Annual electricity consumption	kWh/year	38	37	40	40	42	44	45	48	45
Annual fuel consumption	GJ/year	16	16	16	16	21	21	21	21	21
Second DHW load profile	-	-	-	-	XXL	-	-	-	-	3XL

* Calculated considering Natural Gas (G20)

Evacuation of combustion fumes

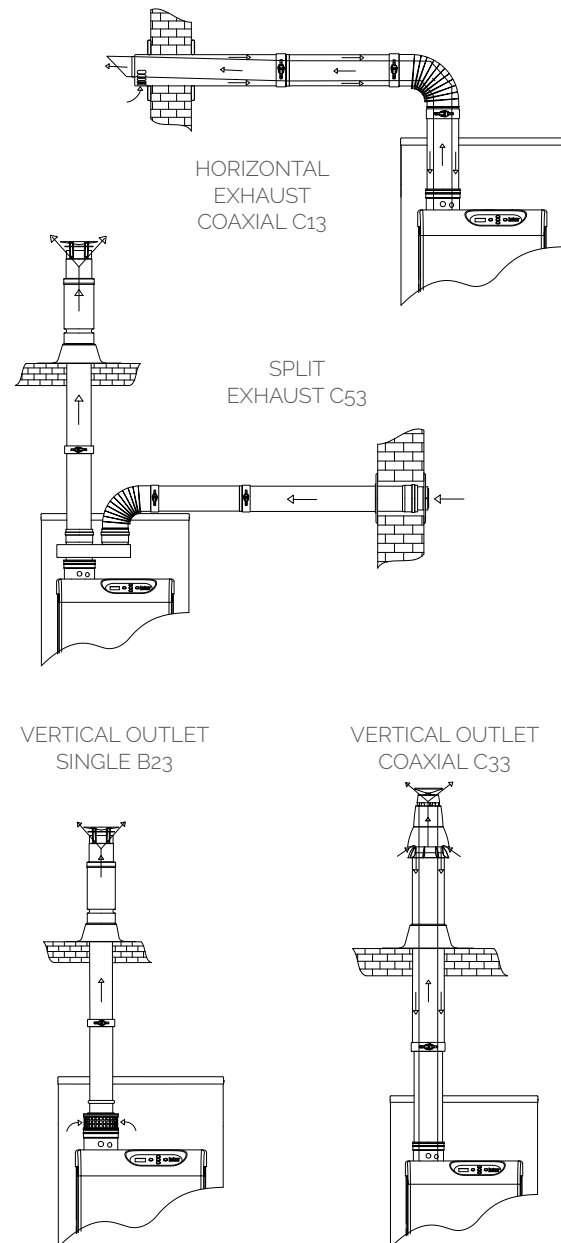
Exhaust fumes must be discharged using prepared exhaust kits, which can be coaxial or split. Thanks to the very low flue gas temperature due to condensing technology, plastic components can be used, and not necessarily aluminium or other materials. Various piping options, bends and accessories are available, which can be combined to meet practically all different evacuation needs. The exceptional features of the units allow piping up to a maximum length of 75 metres.



Flue connection
with smoke sampling outlet

Flue gas discharge diameters and lengths

Model	HCC 12 160-200	HCC 20 160-200	HCC 24 245-285	HCC 32 245-285-300
COAXIAL EXHAUST				
Ø mm	80/125	80/125	80/125	80/125
Maximum length m	40	40	40	40
Max. number of bends 45°/90°	8	8	8	8
SPLIT EXHAUST Ø 80				
Maximum length m	50	50	75	75
Equivalent length 45° bend m.	1.1	1.1	1.1	1.1
Equivalent length 90° bend m.	3.9	3.9	3.9	3.9



Wenkel S.r.l

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Subject to control and coordination by Fiorini Industries S.r.l.

