

Gas condensing

HCU



Capacity: 368 ÷ 480 l

Power: 50,3 ÷ 121,8 kW

DHW production: 1545 ÷ 3741 lt/h

The **high power gas-fired condensing** water heaters in the HUC series are the most modern and efficient solution for the fast production of DHW for users who require large volumes of hot water. These are direct fired appliances, with sealed **chamber and forced draught** with **condensing** technology and, therefore, with an efficiency level approx. 20% higher than traditional models.



AVAILABLE FOR ITALIAN MARKET ONLY

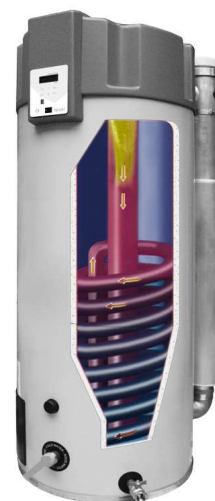
- DHW continuous production from 1545 to 3741 l/h
- Capacity from 368 to 480 litres
- Power from 50.3 to 121.8 kW
- Electronic ignition
- Efficiency in condensing mode up to **108%**
- DHW energy efficiency (**ErP**) up to **93%**
- **Class A** energy certification
- DHW load profile from **2XL** to **3XL**
- Glass-lined tank at 860°C
- Pre-mixed modulating burner suitable for use with both methane and LPG gas via conversion kit
- Standard supply electronic titanium anode
- NOx emissions ≤ 37 mg/kWh
- Maximum working temperature 85°C
- Weekly programmable timer
- BMS compatible
- Electronic control unit for all operations and settings with anti-legionella function
- Electronic error diagnosis on control screen and error storage
- Programmed maintenance alert
- Different fuse discharge options in aluminium (maximum length 100m)
- Quick and easy maintenance thanks to easy component access.
- Rigid polyurethane insulation
- Inspection hatch

Codes/Prices

Capacity l	Max. output kW	Code	Price	Energy class
368	50	10HCU00050		A
368	60	10HCU00060		A
480	80	10HCU00080		A
480	100	10HCU00100		A
480	120	10HCU00120		A

Codes/Prices Accessori

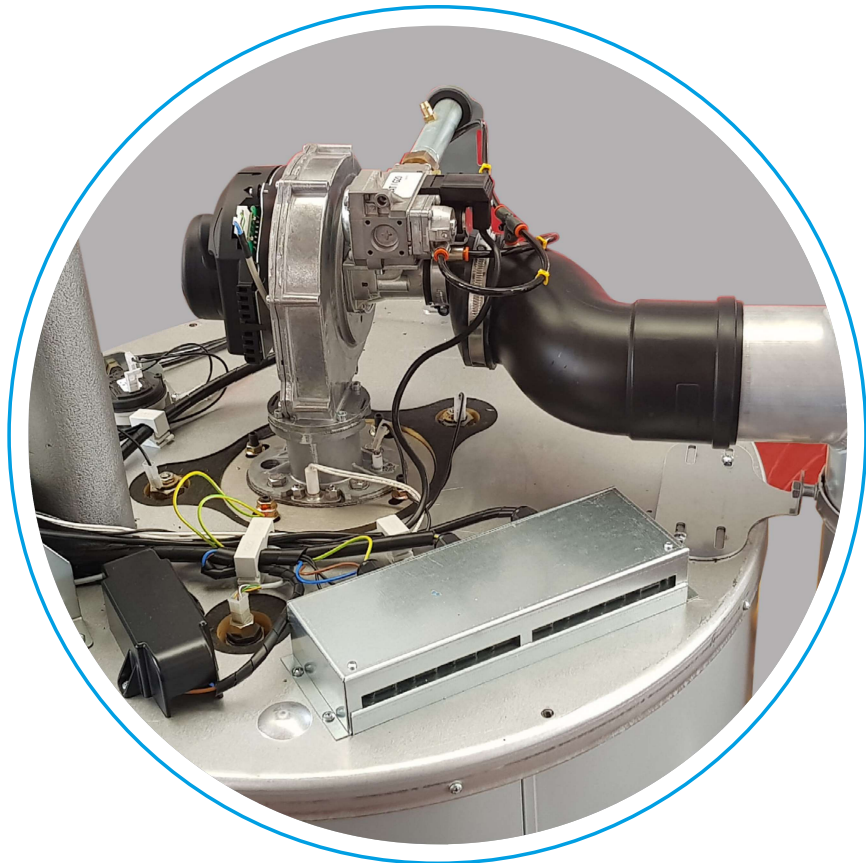
Description	Code	Price
Splitter Ø 100/150 a 2xØ100	10H0010012	
Splitter Ø 130/200 a 2xØ130	10H0010014	



Gas condensing HCU

Pre-mixed modulating burner

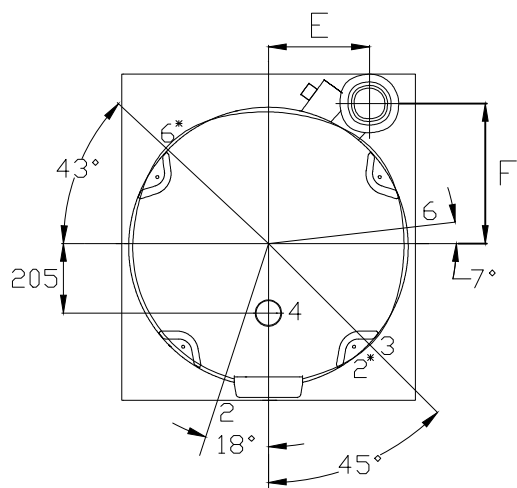
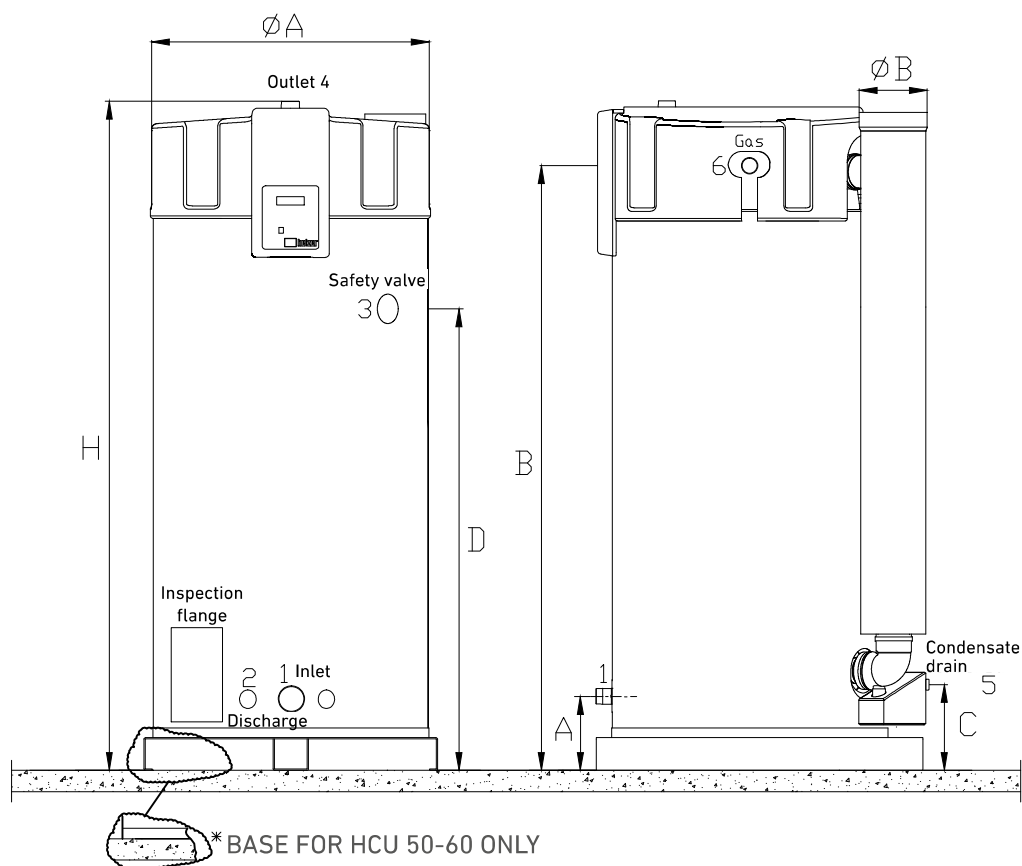
**Efficiency in condensing
mode up to 108%**



Technical features

Model		HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
General						
Capacity litres	litres	368	368	480	480	480
Efficiency with condensing	%	107	106	108	106	105
Efficiency at high temperature	%	96	95	98	95	96
Weight	kg	235	235	425	425	425
Maximum working pressure	bar	8	8	8	8	8
Power supply	V	230	230	230	230	230
Gas category 2H-G20 - Methane						
Heat output	kW	50.3	60.4	84.2	100.7	121.8
Gas consumption	m ³ /h	5.0	6.0	8.3	10.1	12.3
Fumes temperature (max)	°C	60	65	50	55	60
Gas category 3B/P-G30 - LPG						
Heat output	kW	57.8	70.0	97.2	116.6	139.7
Gas consumption	m ³ /h	4.3	5.2	7.1	8.7	10.5
Fumes temperature (max)	°C	60	65	50	55	60
Instant hot water production (InletT= 10°C / setT= 85°C)						
30 min. ΔT=28°C / 60 min. ΔT=28°C	litres	1300 / 2100	1500 / 2400	1900 / 3100	2100 / 3600	2400 / 4300
Continuous production with ΔT=28°C	l/h	1545	1856	2587	3093	3741
30 min. ΔT=50°C / 60 min. ΔT=50°C	litres	620 / 1100	720 / 1300	910 / 1700	1100 / 2000	1300 / 2300
Continuous production with ΔT=50°C	l/h	865	1039	1449	1732	2095
30 min. ΔT=70°C / 60 min. ΔT=70°C	l/h	618	742	1035	1237	1496
Continuous production with ΔT=70°C	l/h	150	240	150	240	290
Heating time ΔT=28°C / ΔT=50°C	min	14 / 26	12 / 21	11 / 20	9 / 17	8 / 14

Gas condensing HCU



Packaging

Model	height mm	length mm	depth mm	weight kg
HCU 50	2080	790	950	235
HCU 60	2080	790	950	235
HCU 80	2060	920	1020	425
HCU 100	2060	920	1020	425
HCU 120	2060	920	1020	425

Dimensions

Model	Capacity litres	$\varnothing A$	B	C	D	E	F	$\varnothing B$	H	1	2	3	4	5	6
HCU 50	368	705	1815	150	1410	265	375	100/150	1890	1"1/2	1"	1"	1"1/2	40mm	3/4"
HCU 60	368	705	1815	150	1410	265	375	100/150	1890	1"1/2	1"	1"	1"1/2	40mm	3/4"
HCU 80	480	850	1855	240	1425	310	440	130/200	1995	1"1/2	3/4"	1"	1"1/2	40mm	3/4"
HCU 100	480	850	1855	240	1425	310	440	130/200	1995	1"1/2	3/4"	1"	1"1/2	40mm	3/4"
HCU 120	480	850	1855	240	1425	310	440	130/200	1995	1"1/2	3/4"	1"	1"1/2	40mm	3/4"

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Ecodesign features

Model		HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
Nitrogen dioxide emission (NOx)*	mg/kWh	36	37	34	36	37
Noise level	dB(A)	55	59	54	59	62
DHW load profile	-	XXL	XXL	3XL	3XL	3XL
Energy efficiency class	-	A	A	-	-	-
Efficiency *	%	91	90	93	93	92
Daily electricity consumption	kWh	0.211	0.212	0.237	0.246	0.257
Daily fuel consumption	kWh	26.562	26.632	49.811	49.922	50.060
Annual electricity consumption	kWh/year	46	46	52	54	56
Annual fuel consumption	GJ/year	21	21	39	39	39
According to DHW load profile	-	3XL	3XL	-	-	-

* Calcolata considerando Gas Naturale (G20)

Evacuation of combustion fumes

The fumes are discharged through the use of flue kits in **aluminium**, which can be coaxial or split. A variety of pipes, curves and accessories are available which can be combined to fulfil virtually all fume exhaust requirements. The **exceptional** features of the appliances allow you to attach pipes up to a maximum length of **100 metres**

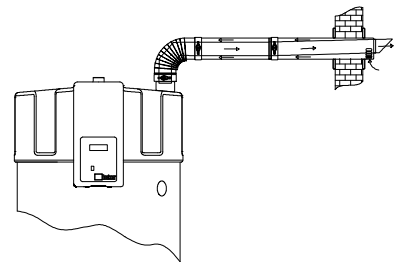


Flue fittings
with fume exhaust
socket

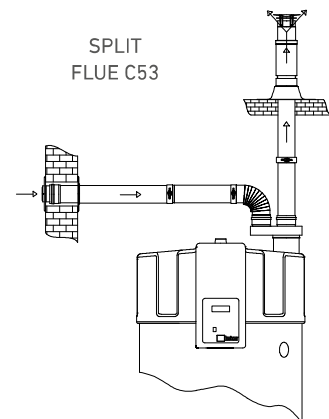
Flue diameters and lengths

Model	HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
COAXIAL FLUE					
Ø mm	100/150	100/150	130/200	130/200	130/200
Max. length m.	40	40	15	15	15
Max. no. curves 45/90°	7	7	4	4	4
SPLIT FLUE Ø 100		SPLIT FLUE Ø 130			
Max. length m.	55	55	65	65	65
Length equivalent 90° curve m.	4,6	4,6	3,9	2,4	2,4
Length equivalent 45° curve m.	1,2	1,2	1,4	1,4	1,4
SPLIT FLUE Ø 130		SPLIT FLUE Ø 150			
Max. length m.	100	100	100	100	100
Length equivalent 90° curve m.	2,4	2,4	2,6	2,6	2,6
Length equivalent 45° curve m.	1,4	1,4	1,6	1,6	1,6

HORIZONTAL FLUE
COAXIAL C13



SPLIT
FLUE C53



VERTICAL FLUE
SINGLE B23

VERTICAL FLUE
COAXIAL C33

