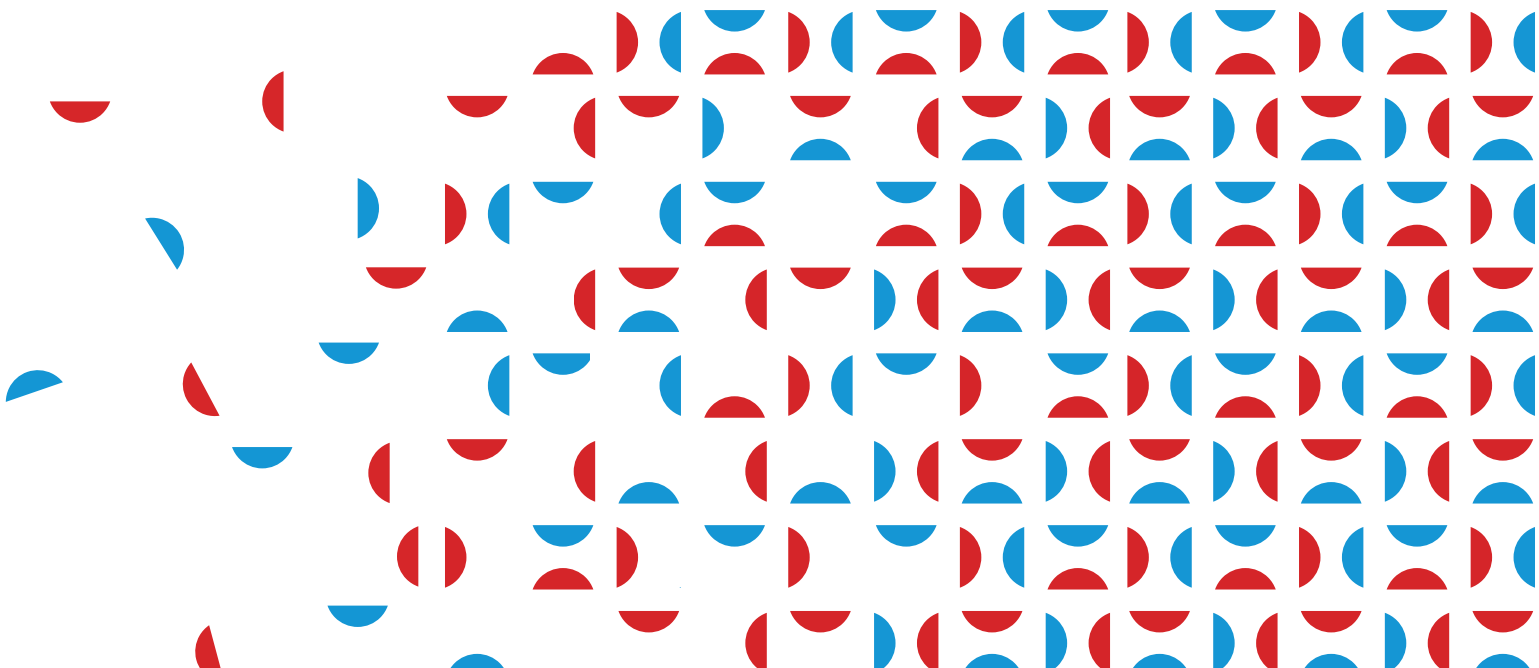


GAS AND ELECTRIC WATER HEATERS

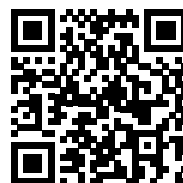
CONDENSING GAS WATER HEATERS

HCU



Condensing Gas Water Heaters

HCU



PRICES



ACCESSORIES
PRICES

Capacity: 368 to 480 l
Power: 50.3 to 121.8 kW
Hot water production: 1545 ÷ 3741 lt/h

HCU series **high-power condensing** gas water heaters are the most modern and efficient solution for fast DHW production for users requiring large volumes of hot water. These are direct-fired, **sealed-chamber, forced-draft** appliances with **condensing** technology, and therefore with an efficiency that is around 20% higher than traditional models.

- Continuous DHW production from 1545 to 3741lt/h
- Capacity from 368 to 480 litres
- Power from 50.3 to 121.8 kW
- Electronic ignition
- Condensing efficiency depending on the model chosen, between 105% and 108%
- DHW energy efficiency(**ErP**) depending on the model chosen, between 90% and 93%
- **Class A** energy certification
- Load profile for DHW **2XL** to **3XL**
- Glass-lined tank at 860°C
- Pre-mixed modulating burner suitable for operation with either natural gas or LPG via conversion kit
- Electronic titanium anodes as standard
- NOx emissions ≤ 37 mg/kWh
- Maximum operating temperature 80°C
- Weekly programmable timer
- Compatibility with BMS management
- 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 aluminium smoke evacuation options (max. length 100m)
- Simple and fast maintenance due to easy accessibility of components.
- Rigid polyurethane insulation
- Inspection hatch



Codes/Prices

Capacity l	Power kW	Code	Price	Class energy
368	50	10HCU00050	12.201,00 €	A
368	60	10HCU00060	12.871,00 €	A
480	80	10HCU00080	18.699,00 €	A
480	100	10HCU00100	20.899,00 €	A
480	120	10HCU00120	22.963,00 €	A

Codes/Prices Accessories

Description	Code	Price
Splitter Ø 100/150 to 2xØ100	10H0010012	456,00 €
Splitter Ø 130/200 to 2xØ130	10H0010014	489,00 €

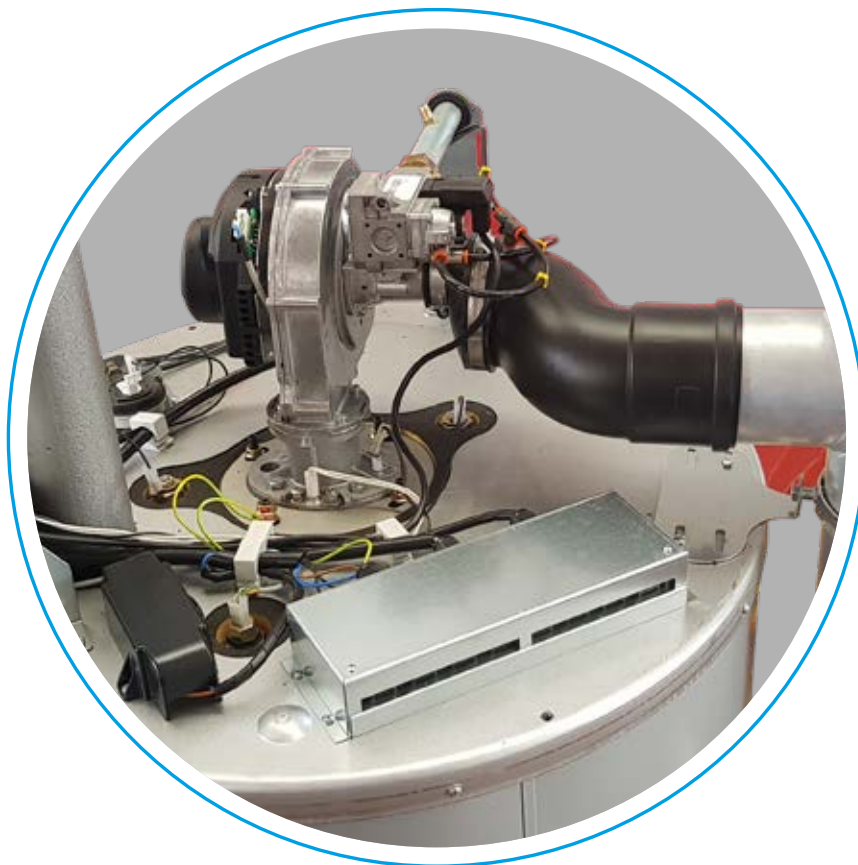


Condensing Gas Water Heaters

HCU

**Modulating burner
pre-mixed**

**Yield in
condensation up to 108%**



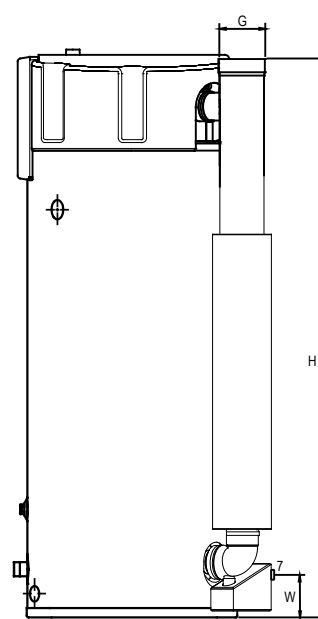
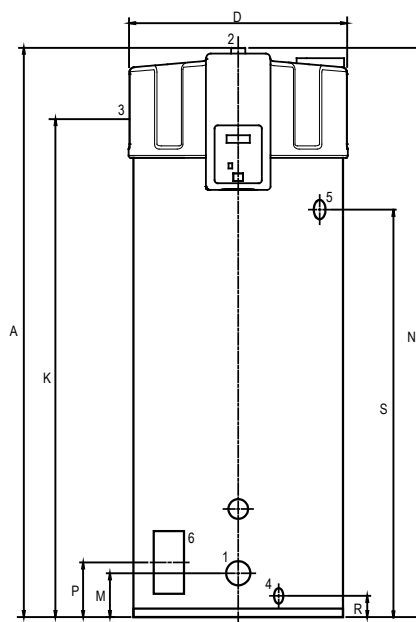
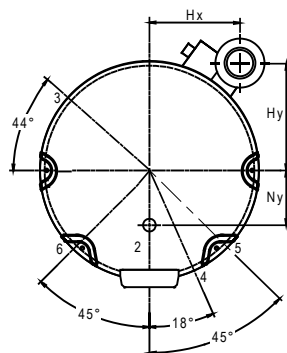
Technical Specifications

Model		HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
General						
Capacity lt	lt	368	368	480	480	480
Condensation efficiency	%	107	106	108	106	105
High-temperature performance	%	96	95	98	95	96
Weight	kg	235	235	425	425	425
Maximum operating pressure	bar	8	8	8	8	8
Power supply	V	230	230	230	230	230
Gas category 2H-G20 - Methane						
Heat flow rate	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
Flue gas temperature (max)	°C	60	65	50	55	60
Gas category 3B/P-G30 - LPG						
Heat flow rate	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
Flue gas temperature (max)	°C	60	65	50	55	60
Instantaneous hot water production (Tingresso = 10°C / Tset = 80°C)						
30 min. ΔT=28°C / 60 min. ΔT=28°C	lt	1300 / 2100	1500 / 2400	1900 / 3100	2100 / 3600	2400 / 4300
Continuous production with ΔT=28°C	lt/h	1545	1856	2587	3093	3741
30 min. ΔT=50°C / 60 min. ΔT=50°C	lt	620 / 1100	720 / 1300	910 / 1700	1100 / 2000	1300 / 2300
Continuous production with ΔT=50°C	lt/h	865	1039	1449	1732	2095
30 min. ΔT=70°C / 60 min. ΔT=70°C	lt/h	370 / 670	440 / 810	540 / 1100	640 / 1300	760 / 1600
Continuous production with ΔT=70°C	lt/h	620	750	1100	1300	1500
Heating time ΔT=28°C / ΔT=50°C	min	14 / 26	12 / 21	11 / 20	9 / 17	8 / 14

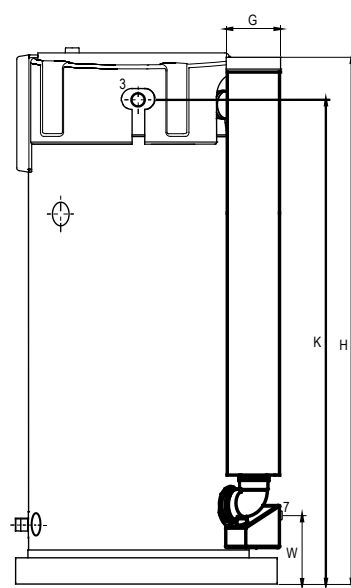
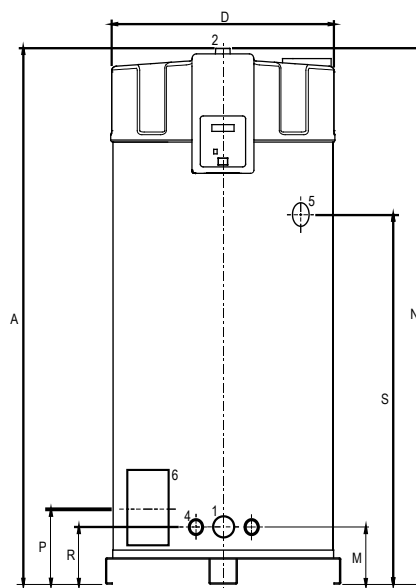
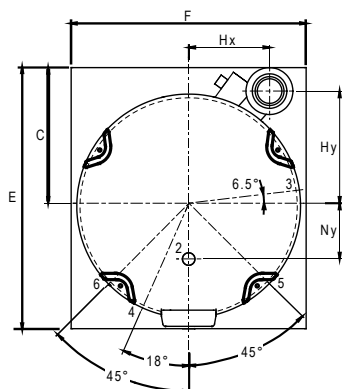
Condensing Gas Water Heaters

HCU

HCU 50 - 60



HCU 80 - 100 - 120



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	A	C	D	E	F	G	H	Hx	Hy	K	M	N	Ny	P	R	S	W	1	2	3	4	5	6	7
HCU 50	1925	-	705	-	-	100/150	1890	265	375	1815	160	1925	205	175	335	1410	160	R 11/2	R 11/2	R 3/4	1"	1"-15 NPT	95 x 70	Ø 40
HCU 60	1925	-	705	-	-	100/150	1890	265	375	1815	160	1925	205	175	335	1410	160	R 11/2	R 11/2	R 3/4	1"	1"-15 NPT	95 x 70	Ø 40
HCU 80	2060	530	850	1000	900	130/200	1995	310	440	1855	225	2060	205	290	225	1425	240	R 11/2	R 11/2	R 3/4	3/4"	1"-15 NPT	95 x 70	Ø 40
HCU 100	2060	530	850	1000	900	130/200	1995	310	440	1855	225	2060	205	290	225	1425	240	R 11/2	R 11/2	R 3/4	3/4"	1"-15 NPT	95 x 70	Ø 40
HCU 120	2060	530	850	1000	900	130/200	1995	310	440	1855	225	2060	205	290	225	1425	240	R 11/2	R 11/2	R 3/4	3/4"	1"-15 NPT	95 x 70	Ø 40

Condensing Gas Water Heaters

HCU

Model		HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
Nitrogen dioxide (Nox)* emission	mg/kWh	36	37	34	36	37
Noise	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
Second DHW load profile	-	3XL	3XL	-	-	-

* Calculated considering Natural Gas (G20)

Evacuation of combustion fumes

Exhaust fumes must be discharged using pre-assembled **aluminium** exhaust kits, which can be co-axial or split. Various options of pipes, bends and accessories are available, which can be combined to meet practically all different evacuation needs. The **exceptional** features of the units allow for piping up to a maximum length of **100 metres**

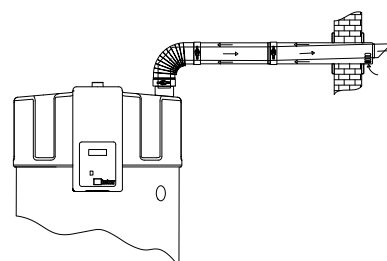


Flue connection
with smoke sampling
outlet

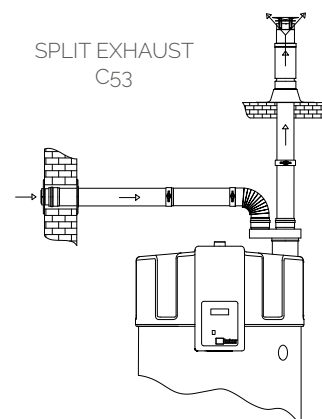
Flue gas discharge diameters and lengths

Model	HCU-50	HCU-60	HCU-80	HCU-100	HCU-120
COAXIAL EXHAUST					
Ø mm	100/150	100/150	130/200	130/200	130/200
Maximum length m	40	40	15	15	15
Max. number of bends 45°/90°	7	7	4	4	4
SPLIT EXHAUST Ø 100		SPLIT EXHAUST Ø 130			
Maximum length m.	55	55	65	65	65
Equivalent length 90° bend m.	4,6	4,6	3,9	2,4	2,4
Equivalent length 45° bend m.	1,2	1,2	1,4	1,4	1,4
SPLIT EXHAUST Ø 130		SPLIT EXHAUST Ø 150			
Maximum length m.	100	100	100	100	100
Equivalent length 90° bend m.	2,4	2,4	2,6	2,6	2,6
Equivalent length 45° bend m.	1,4	1,4	1,6	1,6	1,6

HORIZONTAL EXHAUST
COAXIAL C13

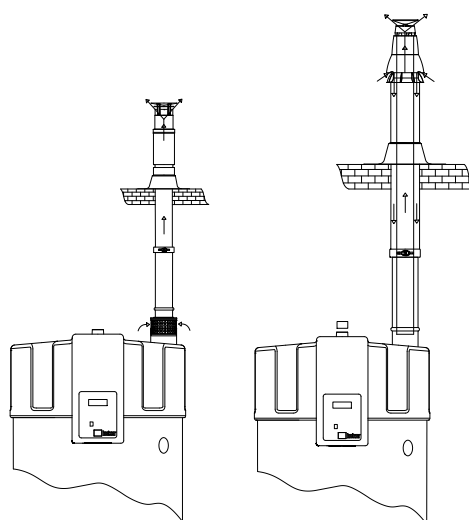


SPLIT EXHAUST
C53



VERTICAL OUTLET
SINGLE B23

VERTICAL OUTLET
COAXIAL C33



Wenkel S.r.l

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Registered with the Companies' Register of Treviso-Belluno under No. 08456530966 – Share Capital €98.000,00

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