



**CATALOGUE**  
ITACA CH KR

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# ITACA CH KR

WALL-HUNG CONDENSING BOILER CH ONLY  
CASCADE INSTALLATION UP TO 900 KW



- ▶ **High modulation ratios, up to 1:10**
- ▶ **Integrated flue gas check valve**
- ▶ **Multilingual user's interface**
- ▶ **Possibility to connect up to 6 boilers in a cascade-type connection with Master-Slave logic**
- ) High-efficiency stainless steel heat exchanger
- ) Variable speed combustion fan
- ) Alarm output or LPG valve control, input for external probe, ambient thermostat, hot water storage tank probe, connection for solar pump, plant pump
- ) 0-10 V control on temperature or power
- ) Supplied as standard: split air/flue gas kit, paper template, wall installation kit, condensation drain trap, intake closing plugs

Available in the following models:



It is possible to connect up to 6 boilers in a cascade-type connection.

The cascade installation has to be composed by boilers of the same or very next size in the power range ( for instance 45 – 60 kW, 60 – 85 kW, 85 – 120 kW, 120 – 150 kW)

We recommend to install cascade boilers of equal power

Model	Gas type	Code	Heat input	Energy efficiency class	W x H x D	Gross weight
			Nominal (Qn) kW	Room heating	mm	kg
CH KR 45	NATURAL GAS	KITXX2KR45	40,0	A	500x834x510	71,0
	PROPANE	KITXX6KR45				
CH KR 60	NATURAL GAS	KITXX2KR60	60,0	A	500x834x510	75,5
	PROPANE	KITXX6KR60				
CH KR 85	NATURAL GAS	KITXX2KR85	81,0	-	500x834x510	100,0
	PROPANE	KITXX6KR85				
CH KR 120	NATURAL GAS	KITXX2KR1C	115,0	-	500x883x689	112,0
	PROPANE	KITXX6KR1C				
CH KR 150	NATURAL GAS	KITXX2KR1F	140,0	-	500x883x689	133,5
	PROPANE	KITXX6KR1F				

Packages ITACA CH KR					
Model	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Gas type	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
Package Code	KIPXX2KR45	KIPXX2KR60	KIPXX2RR85	KIPXX2RR1C	KIPXX2RR1F
Boiler	KITXX2KR45	KITXX2KR60	KITXX2KR85	KITXX2KR1C	KITXX2KR1F
Pump	0KCIRC00	0KCIRC00	0KCIRC05	0KCIRC07	0KCIRC07



mod. CH KR 45



mod. CH KR 60



mod. CH KR 85



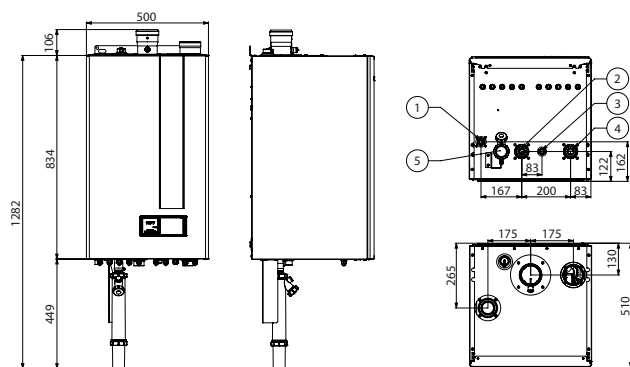
mod. CH KR 120



mod. CH KR 150



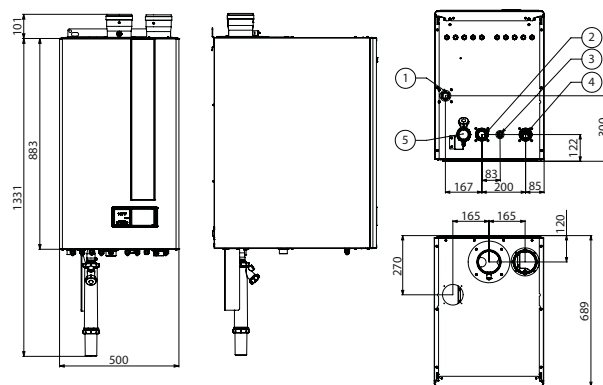
## DIMENSIONS AND CONNECTION CENTRE DISTANCES



### mod. CH KR 45 - 60 - 85

Those boilers must be installed with condensing flue gases ducts. The standard starting kit configuration is splitted 80 + 80. Flue gases coaxial 125/80 parts are available

- 1 Gas inlet (3/4")
- 2 Flow (1 1/4")
- 3 Safety relief valve drain (1/2")
- 4 Return (1 1/4")
- 5 Drain pipe



### mod. CH KR 120 - 150

Those boilers must be installed with condensing flue gases ducts. The standard starting kit configuration is splitted 100 + 100. Flue gases coaxial 150/100 parts are available

- 1 Gas inlet (1")
- 2 Flow (1 1/4")
- 3 Safety relief valve drain (1/2")
- 4 Return (1 1/4")
- 5 Drain pipe

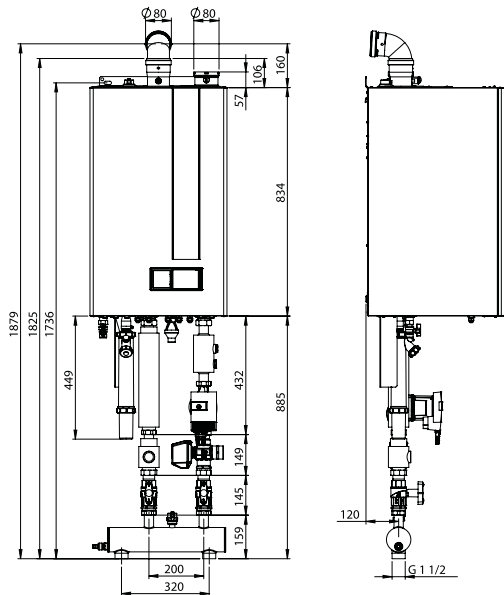
Technical data	um	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Nominal heat output (Pn)	kW	39	58	79	112	136
Seasonal energy efficiency of ambient heating (ηs)	%	92	93	93	93	93
Nominal heat input (Qn)	kW	40,0	60,0	81,0	115,0	140,0
Nominal heat output (80-60°C) (Pn)	kW	38,5	58,3	78,5	112,0	136,3
Heat output (50-30°C)	kW	41,5	62,8	84,8	122,0	148,7
Reduced heat output (50-30°C)	kW	4,3	6,5	9,7	12,4	23,9
Useful efficiency at nominal input (80-60°C)	%	97,1	97,1	96,9	97,4	97,3
Useful efficiency at 30% (30°C return)	%	108,2	108,4	108,3	108,6	108,4
Safety valve calibration pressure	bar	3	3,5	5	5	5
CH temperature setting range	°C	20-80	20-80	20-80	20-80	20-80
NOx emission class	-	6	6	6	6	6
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	94	119	156	251	310
Electric protection rating	IP	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
Maximum CH system pressure (PMS)	bar	3,6	4,2	6	6	6
Water content	l	2,2	3,3	4,3	6,7	9,2



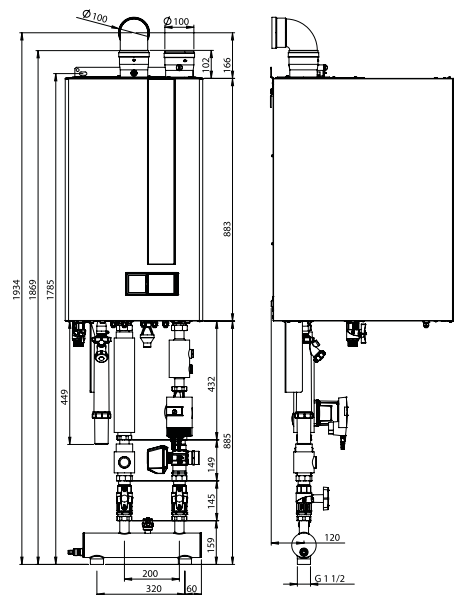
**How to increase energy efficiency?**  
Discover the most suitable solution

Seasonal energy efficiency of ambient heating (ηs)				
Regulation device		Code	CH KR 45	CH KR 60
<b>Option 1</b>	Boiler + external probe	<b>OKSONEST01</b>	94%	95%
<b>Option 2</b>	Boiler + remote control	<b>OCREMOTO04</b>	95%	96%
<b>Option 3</b>	Boiler+ remote control + external probe	<b>OKSONEST01</b>	96%	97%
		<b>OCREMOTO04</b>		

## INSTALLING DIMENSIONS

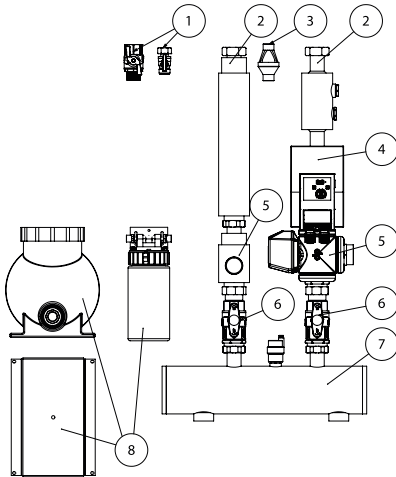


mod. CH KR 45 - 60 - 85










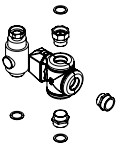
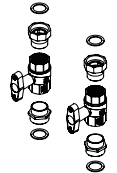
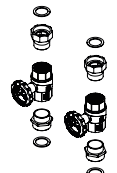



mod. CH KR 120 - 150



### REF. HYDRAULIC KITS (OPTIONAL)



Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
1		Gas cock G $\frac{3}{4}$ kit	OKRUBGAS00	●	●	●		
		Gas cock G 1 kit	OKRUBGAS01				●	●
2		Hidraulic connection kit G $1\frac{1}{4}$ - G $1\frac{1}{2}$ the return flow connection is provided with connection for expansion vessel and for drain cock	OKCONIDR00	●	●	●	●	●
3		Drain funnel kit for G $\frac{1}{2}$ F fitting safety valve (no INAIL)	OKIMBSA00	●	●	●	●	●
4		Wilo PWM pump - 7.5 m centre distance 180 mm connections G $1\frac{1}{2}$ M	OKCIRC000	●	●			

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
4		Insulation casing for 0KCIRC00 provided with velcro fastening	0KISOCIR00	●	●			
		Wilo PWM pump - 11 m centre distance 180 mm connections G 1 ½ M <b>(while stocks last)</b>	0KCIRC02			●		
		Insulation casing for 0KCIRC02 provided with velcro fastening	0KISOCIR01			●		
		Wilo autoflow pump - 7 m centre distance 180 mm connections G 1 ½ M <b>(while stocks last)</b>	0KCIRC03	●	●			
		Wilo autoflow pump - 12 m centre distance 180 mm connections G 1 ½ M	0KCIRC04			●	●	●
		Insulation casing for 0KCIRC03 and 0KCIRC04 provided with velcro fastening	0KISOCIR02			●	●	●
		Grundfos UPML PWM pump - 10.5 m - centre distance 180 mm connections G 1 ½ M	0KCIRC05			●		
		Grundfos UPMXL PWM pump - 12 m - centre distance 180 mm connections G 1 ½ M	0KCIRC07				●	●
		Grundfos UPMXL self-adjusting pump - 12 m - centre distance 180 mm connections G 1 ½ M	0KCIRC06	●	●	●		
5		3 way valve kit for dhw tank	0KTREVB00	●	●	●	●	●
6		Hydraulic taps provided with fittings G 1 ½ and gaskets	0KRUBMAN00	●	●	●	●	●
		Hydraulic taps with termometer provided with fittings G 1 ½ and gaskets	0KRUBMAN01	●	●	●	●	●
		Insulation for main / return flow tap - shell equipped with Velcro	0KISORUB00	●	●	●	●	●

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
7		Hydraulic separator 3" , relief valve (1/2") and cap included Pump - hydraulic separator recommended coupling (see 0KCIROCOL05) PWM pump - 8 m Insulation included	0KSEPIDR00	●	●	●	●	●
8		Condensate neutralizer kit (Pmax 85 kw)	0FILNECO03	●	●	●		
		Condensate neutralizer kit (Pmax 350 kw)	0FILNECO01				●	●
		Support for neutralizer	0KBASFIL00				●	●
		Reduction kit G1 1/2 - G1 1/4 under boiler	0KITRIDU00	●	●	●	●	●
		PG9 cable gland (x5)	0KPRESPG00	●	●	●	●	●
		Paper Installation template	0DIMACAR29	●	●	●	●	●
		Remote control, ErP V class (118x85x32 mm)	0CREMOTO04	●	●	●	●	●
		hot water storage tank temperature probe 3m	0KITSOND00	●	●	●	●	●
		External probe	0KSONEST01	●	●	●	●	●
		Cascade controlling probe	0KSONDCO00	●	●	●	●	●
		Heating zones management kit, 2 low-temperature zones and 1 high-temperature zone, with two probes included	0KGESTZO00	●	●	●	●	●
		Master slave connection kit 45-150 kW	0KITCASC00	●	●	●	●	●
		Master slave connection kit 45-150kw (back)	0KITCASC01	●	●	●	●	●
		Kit Modbus Itaca CH	0KMODBUS00	●	●	●	●	●
		Antifreeze kit for Itaca CH KR siphon (including insulation panels to be applied around the siphon)	0KANTIGE03	●	●	●	●	●
		Coaxial kit 80/125 for 45-60-85 kW <b>(items normally not available in stock, minimum availability time 8 weeks)</b>	0KITASCA02	●	●	●		

Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
	Coaxial flue gases starting kit 125/80	0ATTCOFL01	●	●	●		
	Coaxial flue gases starting kit 150/100	0ATTCOFL00				●	●

The manufacturer reserves the right to implement modifications without notice.

Uff. Pubbl. Fondital CTC 03 C 670 - 03 | Maggio 2023 (100 - 05/2023)

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