



Green Heating Technology

# ITALTHERM

## НАРУЖНЫЕ ГАЗОВЫЕ КОТЛЫ

City Max 24F, 30F, 26K, 32K

### ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астана +7(7172)727-132	Калуга (4842)92-23-67	Омск (3812) 21-46-40	Ставрополь (8652)20-65-13
Астрахань (8512) 99-46-04	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462) 77-98-35
Барнаул (3852) 73-04-60	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Белгород (4722)40-23-64	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
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Волгоград (844)278-03-48	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Вологда (8172)26-41-59	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Воронеж (473)204-51-73	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212) 92-98-04
Екатеринбург (343)384-55-89	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Иваново (4932)77-34-06	Набережные Челны (8552)20-53-41	Севастополь (8692) 22-31-93	Череповец (8202)49-02-64
Ижевск (3412)26-03-58	Нижний Новгород (831)429-08-12	Симферополь (3652) 67-13-56	Ярославль (4852)69-52-93
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## 24 F • 30 F

### Features

- Built-in 60 litres stainless steel DHW storage tank
- It can be installed indoor or even outdoor in a partially protected place (temperature 0÷60°C)
- Designed to allow an easy maintenance
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be managed by remote control (optional)
- It can be connected to an outdoor temperature sensor (optional)
- Brass hydraulic group
- High efficiency and low consumptions
- Microprocessor electronic system
- LCD display with self-diagnosis
- User friendly controls
- Temperature limit control of DHW storage tank
- Chimney sweep mode
- Electrical three-way valve
- Low energy multi-speed pump
- Automatic hydraulic by-pass, outside the exchanger
- Timed post-circulation
- Adjustable CH heat power output
- Anti-freeze function on both DHW and CH sides
- Anti-legionella function
- Function to prevent the block of the pump and of the three-way valve
- Signalization of the system low pressure
- Filter on boiler water inlet

### Range

#### City Max 24 F

24 kW, fan-flue

#### City Max 30 F

30 kW, fan-flue



26 K • 32 K

## Features

- Built-in 60 litres stainless steel DHW storage tank
- It can be installed indoor or even outdoor in a partially protected place (temperature 0÷60°C)
- Designed to allow an easy maintenance
- Double thermostatic temperature control, ideal for high + low temperature heating systems (optional kit available)
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be managed by remote control (optional)
- It can be connected to an outdoor temperature sensor (optional)
- Brass hydraulic group
- High efficiency and low consumptions
- Microprocessor electronic system
- LCD display with self-diagnosis
- User friendly controls
- Temperature limit control of DHW storage tank
- Chimney sweep mode
- Condensate trap with dry closing device
- Electrical three-way valve
- High efficiency fully electronically modulating pump (ERP ready)
- Automatic hydraulic by-pass, outside the exchanger
- Timed post-circulation
- Adjustable CH heat power output
- Anti-freeze function on both DHW and CH sides
- Anti-legionella function
- Function to prevent the block of the pump and of the three-way valve
- Signalization of the system low pressure
- Filter on boiler water inlet

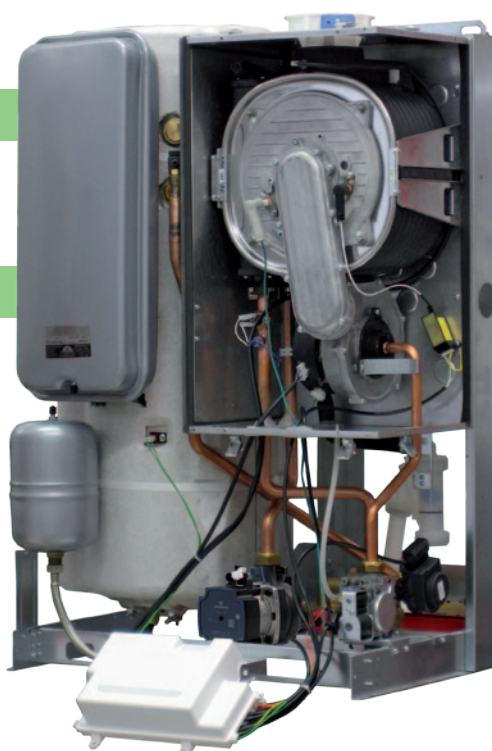
## Range

### City Max 26 K

26 kW, fan-flue

### City Max 32 K

32 kW, fan-flue



ErP 2015 Ready

## Technical data *traditional combustion models*

Description	Unit of measure	City Max 24 F	City Max 30 F
Class		II <sub>2H3+</sub>	II <sub>2H3+</sub>
Type		B22 - C12 - C32 - C42 - C52 - C62 - C82 - C92	
Working temperature range (min÷max)	°C	0 ÷ +60	0 ÷ +60
Reference Gas		G20	G20
Max heat input	kW	25.7	32
Min heat input	kW	10.3	13
Max heat output	kW	23.8	29.9
Min heat output	kW	9.1	11.2
NOx Class		2	3
CO at 0% O <sub>2</sub> (Qn)	ppm	56.88	55.80
CO <sub>2</sub> at nominal input	%	7.20	6.50
Flue temperature (Qn)	°C	129	116
Flue mass flow rate (Qn)	kg/h	52.5	72.1
<b>EFFICIENCY</b>			
Nominal efficiency	%	92.8	93.5
Efficiency at 30% load	%	91.7	90.6
<b>HEATING</b>			
Temperature selection range (min÷max)	°C	35÷78	35÷78
Expansion vessel	l	10	10
Expansion vessel pressure	bar	1	1
Max working pressure	bar	3	3
Max system temperature	°C	83	83
<b>DOMESTIC HOT WATER</b>			
Specific flow rate (EN625)	l/min	15	16.5
DHW expansion vessel	l	2	2
DHW Expansion vessel pressure	bar	3.5	3.5
Min supply pressure (to allow the CH system filling)	bar	1	1
Max supply pressure (storage safety valve intervention)	bar	8	8
Storage temperature selection range (min÷max)	°C	30÷60	30÷60
<b>ELECTRICAL DATA</b>			
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption	W	130	140
Level of protection		IP X4D	IP X4D
<b>DIMENSIONS</b>			
Width - Height - Depth	mm		600 x 900 x 425
Weight	kg	60.0	60.5
<b>CONNECTIONS</b>			
Hydraulic and gas connections			See page 10
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m		See page 3
Split inlet and outlet pipes diameter	mm	80	80
Min ÷ max length of split system	m		See page 3
<b>GAS SUPPLY PRESSURE</b>			
Nominal pressure	mbar	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25
Injectors number		13	14
Injectors diameter	mm/100	120	130
<b>GAS CONSUMPTION</b>			
Q <sub>max</sub>	m <sup>3</sup> /h	2.72	3.38
Q <sub>min</sub>	m <sup>3</sup> /h	1.09	1.37

# Technical data *condensing models*

Description	Unit of measure	City Max 26 K	City Max 32 K
CE certification		0476 CQ 1281	0476 CQ 1281
Class		II <sub>2</sub> H <sub>3</sub> P	II <sub>2</sub> H <sub>3</sub> P
Type		B23 - B23P - C13 - C33 - C43 - C53 - C63 - C83 - C93	
Working temperature range (min÷max)	°C	0 ÷ +60	0 ÷ +60
Reference Gas		G20	G20
Max heat input	kW	26.2	32.1
Min heat input	kW	5.3	6.9
Max heat output 60°/80°C *	kW	25.4	31.4
Min heat output 60°/80°C *	kW	5.1	6.6
Max heat output 30°/50°C *	kW	27.5	34.0
Min heat output 30°/50°C *	kW	5.5	7.2
NOx Class		5	5
CO at 0% O <sub>2</sub> (Qn)	ppm	129.7	149.6
CO <sub>2</sub> at nominal input	%	9.2	9.2
Condense quantity at Qn (30°/50°C *)	l/h	2.3	2.9
Condense quantity at Qr (30°/50°C *)	l/h	0.5	0.8
Condense acidity	pH	2.8	2.8
Flue temperature (Qn)	°C	76.5	72.5
Flue mass flow rate (60/80°C * - Qn)	kg/h	42.61	52.20
<b>EFFICIENCY</b>			
Nominal efficiency at 60°/80°C *	%	96.9	97.7
Efficiency at 30% load at 60°/80°C *	%	100.4	100.6
Nominal efficiency at 30°/50°C *	%	105.1	105.8
Efficiency at 30% load at 30°/50°C *	%	107.2	107.8
<b>HEATING</b>			
Temperature selection range (min÷max) high temp. / low temp.	°C	35÷78 / 20÷45	35÷78 / 20÷45
Temperature selection range (min÷max) secondary heating circuit	°C	20÷78	20÷78
Expansion vessel	l	10	10
Expansion vessel pressure	bar	1	1
Max working pressure	bar	3	3
Max system temperature	°C	83 / 50	83 / 50
<b>DOMESTIC HOT WATER</b>			
Specific flow rate (EN625)	l/min	16	17
DHW expansion vessel	l	2	2
DHW Expansion vessel pressure	bar	3.5	3.5
Min supply pressure (to allow the CH system filling)	bar	1	1
Max supply pressure (storage safety valve intervention)	bar	8	8
Storage temperature selection range (min÷max)	°C	30÷60	30÷60
<b>ELECTRICAL DATA</b>			
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption	W	95	100
Level of protection		IP X4D	IP X4D
<b>DIMENSIONS</b>			
Width - Height - Depth	mm	600 x 900 x 425	
Weight	kg	59.5	60.0
<b>CONNECTIONS</b>			
Hydraulic and gas connections		See page 11	
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m	See page 5	
Split inlet and outlet pipes diameter	mm	80 o 60	80 o 60
Min ÷ max length of split system	m	See page 5	
Fan head loss	Pa	40 ÷ 150	40 ÷ 150
<b>GAS SUPPLY PRESSURE</b>			
Nominal pressure	mbar	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25
Gas valve diaphragm diameter	mm	5.5	6.4
<b>GAS CONSUMPTION</b>			
Qmax	m <sup>3</sup> /h	2.77	3.39
Qmin	m <sup>3</sup> /h	0.56	0.73

\* system return temperature / system flow temperature  
 Nota: data have been measured with horizontal coaxial flue, length = 1 m



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