



Green Heating Technology

ITALTHERM

ВНУТРЕННИЕ ГАЗОВЫЕ КОТЛЫ

TIME 25F, 30F, 35F, 25FR, 30FR, 35FR, 27K, 35K, 18KR,
27KR, 35KR

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
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25 F • 30 F • 35 F • 25 FR • 30 FR • 35 FR

Features

- Compact sizes
- **ACQUA STEP** programmable function, allowing DHW pre-heating at three temperature levels
- Easy access to the equipped inlet DHW filter
- Insulated and stainless steel DHW maxi-exchanger (F models)
- DHW flow detector for an optimal modulation (F models)
- The by-pass is outside the exchanger and can be excluded
- Analogue and digital display of the heating circuit pressure
- Automatic system pressure restore with safety function against CH system leakages
- Connections for the flow/return of the remote DHW storage tank coil (FR models)
- Easy to be installed anywhere
- Designed to allow an easy maintenance
- It can be installed indoor or even outdoor ⁽¹⁾ in a partially protected place
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be managed by a chrono-thermostat, wired connected or wireless and GSM controlled
- It can be managed by remote control (optional)
- Brass hydraulic group
- DHW output up to 18.7 l/min (mod. 35 F)
- High efficiency and low consumptions
- Microprocessor electronic system
- User friendly controls with self-diagnosis
- Multi-function, backlit LCD display
- DHW tank hourly setting thanks to an exclusive function (FR models)
- Electrical three-way valve (also on FR models)
- “Holidays programme” mode
- Low energy multi-speed pump
- Timed post-circulation
- Adjustable CH heat power output range-rated
- Chimney sweep mode
- Anti-freeze function on both DHW and CH sides
- Function to prevent the block of the pump and of the three-way valve



- ⁽¹⁾ temperature 0÷60°C
- ⁽²⁾ in combination with the solar kit and the solar PCB (accessories)

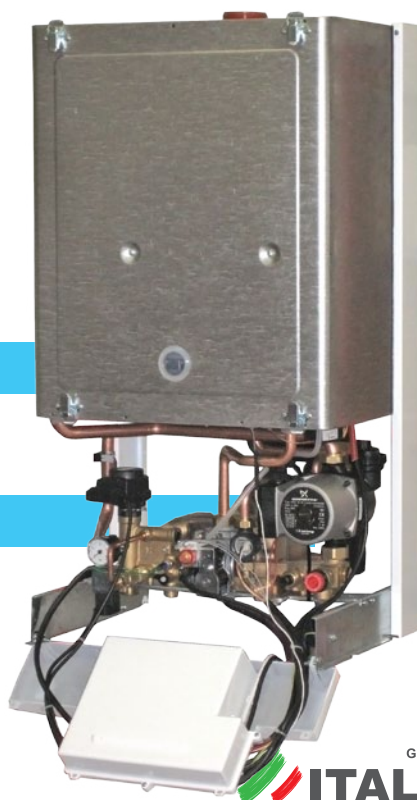
Range

Time 25 F • 30 F • 35 F

forced draught, combi boiler

Time 25 FR • 30 FR • 35 FR

forced draught only heating boiler with possibility to manage a remote DHW tank



27 K • 35 K • 18 KR • 27 KR • 35 KR

Features

- Compact dimensions
- DHW pre-heating mode **ACQUA STEP** on three level of functioning, schedulable
- Easy access to the equipped inlet DHW filter
- Insulated and stainless steel DHW maxi-exchanger (K models)
- DHW flow detector for an optimal modulation (K models)
- **Power modulation range 1:10**
- High efficiency fully electronically modulating pump (ERP ready)
- The by-pass is outside the exchanger and can be excluded
- Analogue and digital display of the heating circuit pressure
- Automatic system pressure restore with safety function against CH system leakages
- Connections for the flow/return of the remote DHW storage tank coil (KR models)
- Easy to be installed anywhere
- Designed to allow an easy maintenance
- Double thermostatic temperature control, ideal for high + low temperature heating systems
- It can be installed indoor or even outdoor ⁽¹⁾ in a partially protected place
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be managed by a chrono-thermostat, wired connected or wireless and GSM controlled
- It can be managed by remote control (optional)
- “Holidays programme” mode
- Brass hydraulic group
- DHW output up to 18,4 l/min (mod. 35 K)
- High efficiency and low consumptions
- Microprocessor electronic system
- User friendly controls with self-diagnosis
- Multi-function, backlit LCD display
- DHW tank hourly setting thanks to an exclusive function (KR models)
- Electrical three-way valve (also on KR models)
- Timed post-circulation
- Adjustable CH heat power output range-rated
- Chimney sweep mode
- Condensate trap with dry closing device
- Anti-freeze function on both DHW and CH sides
- Function to prevent the block of the pump and of the three-way valve



⁽¹⁾ temperature 0÷60°C

⁽²⁾ in combination with the solar kit and the solar PCB (accessories)

Range

Time 27 K • 35 K

forced draught, combi boiler

Time 18 KR • 27 KR • 35 KR

forced draught only heating boiler with possibility to manage a remote DHW tank



ErP 2015 Ready

Technical data *traditional combustion models*

Description	u. m.	Time 25 F Time 25 FR	Time 30 F Time 30 FR	Time 35 F Time 35 FR
Class		II _{2H3+}	II _{2H3+}	II _{2H3+}
Type		B22 - C12 - C32 - C42 - C52 - C62 - C82 - C92		
Working temperature range (min÷max)	°C	0 ÷ +60	0 ÷ +60	0 ÷ +60
Reference Gas		G20	G20	G20
Max heat input	kW	25.7	30.5	34.5
Min heat input	kW	10.3	13.0	13.5
Max heat output	kW	23.8	28.4	32.5
Min heat output	kW	9.1	11.4	11.9
NO _x Class		2	3	3
CO at 0% O ₂ (Q _n)	ppm	56.9	57.6	66.4
CO ₂ at nominal input	%	7.2	6.5	6.7
Flue temperature (Q _n)	°C	129	126	107
Flue mass flow rate (Q _n)	kg/h	51.9	68.8	74.6
EFFICIENCY				
Nominal efficiency	%	92.8	93.1	94.3
Efficiency at 30% load	%	91.7	90.6	91.3
HEATING				
Temperature selection range (min÷max)	°C	35÷78	35÷78	35÷78
Expansion vessel	l	10	10	10
Expansion vessel pressure	bar	1	1	1
Max working pressure	bar	3	3	3
Max system temperature	°C	83	83	83
DOMESTIC HOT WATER				
Flow rate at 25°C temperature rise	l/min	13.7 (F only)	16.3 (F only)	18.7 (F only)
Flow rate at 30°C temperature rise	l/min	11.4 (F only)	13.6 (F only)	15.5 (F only)
Min water flow (for the DHW function activation)	l/min	1.5 (F only)	1.5 (F only)	1.5 (F only)
Min supply pressure (for the DHW function activation)	bar	0.5 (F only)	0.5 (F only)	0.5 (F only)
Max supply pressure (data referred to the boiler only)	bar	6	6	6
Temperature selection range (min÷max)	°C	30÷55	30÷55	30÷55 (F) 30÷60 (FR)
ELECTRICAL DATA				
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption	W	132	142	155
Level of protection		IP X5D	IP X5D	IP X5D
DIMENSIONS				
Width - Height - Depth	mm	450 x 837 x 382	450 x 837 x 382	450 x 837 x 382
Weight	kg	F - 38.5 FR - 34.5	F - 40.0 FR - 36.0	F - 42.0 FR - 38.0
CONNECTIONS				
Hydraulic and gas connections		F - See page 14 FR - See page 15	F - See page 14 FR - See page 15	F - See page 14 FR - See page 15
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m	See page 10	See page 10	See page 10
Split inlet and outlet pipes diameter	mm	80	80	80
Min ÷ max length of split system	m	See page 10	See page 10	See page 10
GAS SUPPLY PRESSURE				
Nominal pressure	mbar	20	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25	17 ÷ 25
Injectors number		13	14	15
Injectors diameter	mm/100	120	130	130
GAS CONSUMPTION				
Q _{max}	m ³ /h	2.72	3.22	3.65
Q _{min}	m ³ /h	1.09	1.37	1.43

Technical data *condensing models*

Description	u. m.	Time 27 K	Time 35 K	Time 18 KR	Time 27 KR	Time 35 KR
CE certification		0476 CQ 1281	0476 CQ 1281	0476 CQ 1281	0476 CQ 1281	0476 CQ 1281
Class		II _{2H3P}	II _{2H3P}	II _{2H3P}	II _{2H3P}	II _{2H3P}
Type		B23 - B23P - C13 - C33 - C43 - C53 - C63 - C83 - C93				
Working temperature range (min÷max)	°C	0 ÷ +60	0 ÷ +60	0 ÷ +60	0 ÷ +60	0 ÷ +60
Reference Gas		G20	G20	G20	G20	G20
Max heat input	kW	26.0	33.0	17.8	26.0	33.0
Min heat input	kW	2.6	3.4	1.7	2.6	3.4
Max heat output 60°/80°C *	kW	25.1	32.0	17.1	25.1	32.0
Min heat output 60°/80°C *	kW	2.4	3.1	1.6	2.4	3.1
Max heat output 30°/50°C *	kW	27.2	34.7	18.8	27.2	34.7
Min heat output 30°/50°C *	kW	2.7	3.4	1.8	2.7	3.4
NOx Class		5	5	5	5	5
CO at 0% O ₂ (Qn)	ppm	165.3	176.1	176.8	165.3	176.1
CO ₂ at nominal input	%	9.2	9.3	9.2	9.2	9.3
Flue temperature (Qn)	°C	84.0	78.6	83.0	84.0	78.6
Flue mass flow rate (60/80°C * - Qn)	kg/h	42.2	53.0	28.9	42.2	53.0
EFFICIENCY						
Nominal efficiency at 60°/80°C *	%	96.6	97.0	96.2	96.6	97.0
Efficiency at 30% load at 60°/80°C *	%	100.8	101.2	100.7	100.8	101.2
Nominal efficiency at 30°/50°C *	%	104.7	105.1	105.6	104.7	105.1
Efficiency at 30% load at 30°/50°C *	%	107.6	107.6	107.5	107.6	107.6
HEATING						
Temperature selection range (min÷max) high temp. / low temp.	°C	30÷80 / 25÷45	30÷80 / 25÷45	30÷80 / 25÷45	30÷80 / 25÷45	30÷80 / 25÷45
Temperature selection range (min÷max) secondary heating circuit	°C	25÷80	25÷80	25÷80	25÷80	25÷80
Expansion vessel	l	10	10	10	10	10
Expansion vessel pressure	bar	1	1	1	1	1
Max working pressure	bar	3	3	3	3	3
Max system temperature	°C	85	85	85	85	85
DOMESTIC HOT WATER						
Flow rate at 25°C temperature rise	l/min	14.4	18.4	—	—	—
Flow rate at 30°C temperature rise	l/min	12.0	15.3	—	—	—
Min water flow (for the DHW function activation)	l/min	1.5	1.5	—	—	—
Min supply pressure (for the DHW function activation)	bar	0.5	0.5	—	—	—
Max supply pressure (data referred to the boiler only)	bar	6	6	6	6	6
Temperature selection range (min÷max)	°C	30÷55	30÷55	30÷60	30÷60	30÷60
ELECTRICAL DATA						
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)	220÷240 / 50 (230V)	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption	W	110	118	105	110	118
Level of protection		IP X5D	IP X5D	IP X5D	IP X5D	IP X5D
DIMENSIONS						
Width - Height - Depth	mm	450 x 837 x 382	450 x 837 x 382	450 x 837 x 382	450 x 837 x 382	450 x 837 x 382
Weight	kg	41.6	43.5	38.0	39.6	41.5
CONNECTIONS						
Hydraulic and gas connections		See page 14	See page 14	See page 15	See page 15	See page 15
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60	100/60	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m	See page 11	See page 11	See page 11	See page 11	See page 11
Split inlet and outlet pipes diameter	mm	80 o 60	80 o 60	80 o 60	80 o 60	80 o 60
Min ÷ max length of split system	m	See page 11	See page 11	See page 11	See page 11	See page 11
Fan head loss	Pa	30 ÷ 130	30 ÷ 130	30 ÷ 130	30 ÷ 130	30 ÷ 130
GAS SUPPLY PRESSURE						
Nominal pressure	mbar	20	20	20	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25	17 ÷ 25	17 ÷ 25	17 ÷ 25
GAS CONSUMPTION						
Q _{max}	m ³ /h	2.75	3.49	1.88	2.75	3.49
Q _{min}	m ³ /h	0.27	0.36	0.18	0.27	0.36

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



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