



CONDENSING BOILERS and CASCADE SYSTEMS



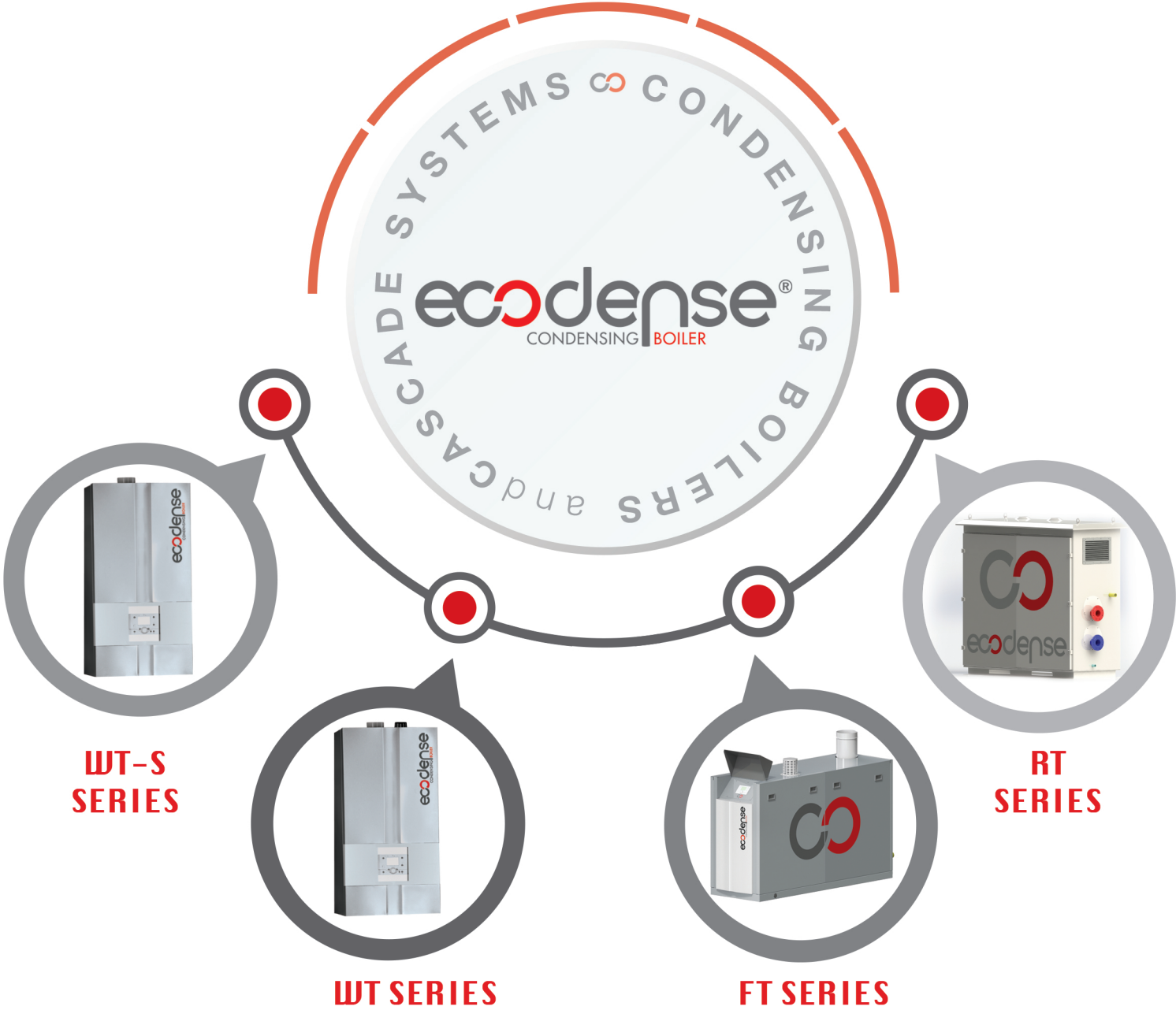
www.ecodenseboilers.com

2017



ECODENSE CONDENSING BOILERS

ECODENSE condensing boilers provide high-efficiency energy generation with their “*Premix Technology*” and “*Condensing Technology*”. Providing an advantage in boiler room planings and conversions with its compact structure in terms of area of use, **ECODENSE** condensing boilers, when used as **CASCADE**, meet high-capacity energy requirements with line-up operation and also expand the life-cycle by ensuring equal aging in boilers.





CONDENSING TECHNOLOGY

At the end of the combustion process, a large proportion of heat is released outside along with flue gases. The condensing technology does not allow releasing of this heat; provides higher energy saving. In the heat exchanger, the heat of water is drawn and sent to the heating system. When compared with a conventional combustion system, more than 100% of energy in the fuel used can be converted into heat.

CASCADE SYSTEM

In these systems, multiple devices that are connected to each other engage/disengage as needed. In the cascade systems, all devices operate as modulating control. In order to ensure simultaneous control of all boilers, they must be connected to the control unit.

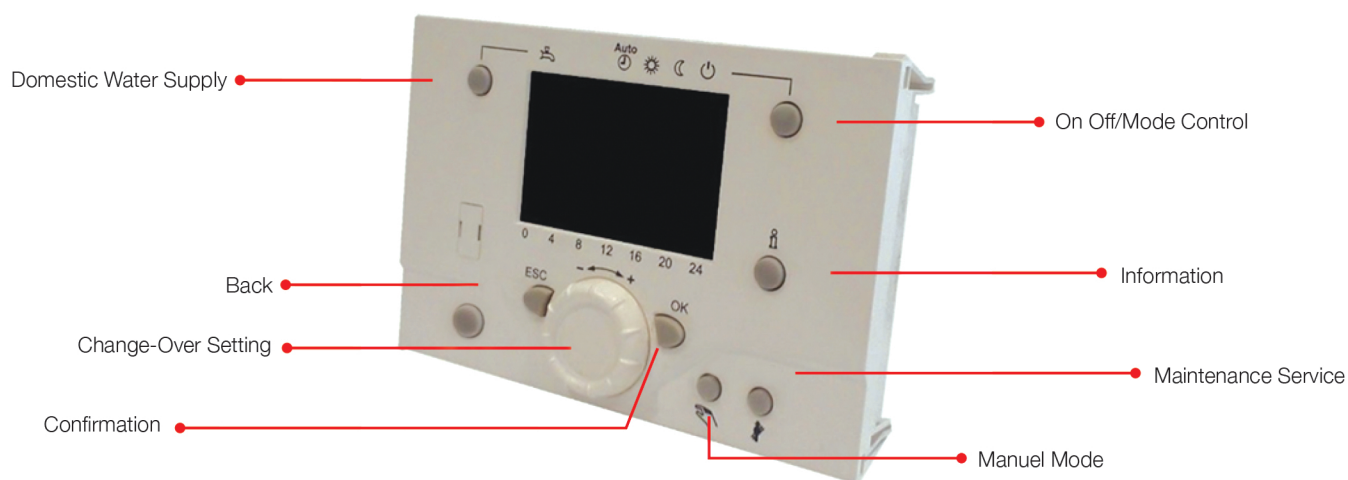
With ECODENSE condensing boilers, it is possible to control up to 16 boilers as CASCADE SYSTEM. If any one of the boiler operating redundantly fails, the next boiler connected serially engages automatically and no problem is experienced in the order of operation. Thus, serviceability and maintainability of these boiler are ensured.

PREMIX TECHNOLOGY

Mixing of gas and air required for combustion in order to achieve high-efficiency combustion before they arrive to burner is called as “Premix Technology”. By a frequency-controlled fan, it is possible to provide ideal air content required for combustion at each capacity during 5:1 modulating operation.

BOILER SAFETY

- When outdoor temperature goes below +4 °C, the boiler automatically protects itself and prevents from freezing.
- The boiler protects itself, when the temperature of flue gas exceeds the set value during operation,
- The boiler protects itself during unexpected high temperatures with combustion space safety thermostat.



CONTROL PANEL FEATURES

- 1 - Selectable system control language from the languages defined in languages options.
- 2 - You can control the system using weekly time program and set the system to turn on/off 3 times a day. The system operates in comfort mode during programmed periods and in economy mode at other times for economic use.
- 3 - Controller can be used to add vacation mode for the heating circuit. During vacation period, the heating circuit operates according to the freezing temperature or economy temperature for energy efficiency.
- 4 - You may control the heating circuit by parameters presented in the device;
 - The device can operate in 3 different temperature modes: comfort mode, economy mode and freezing mode.
 - Heating curve can be adjusted depending on climate conditions.
 - Adjustable minimum and maximum water temperature for floor heating systems. (Floor heating systems must comprise 3-way mixture valve.)
 - You can use the floor drying function to adjust the heating temperature for newly finished floor.
- 5 - For the boiler, the same settings as the heating circuit are available.
 - The boiler operation can be programmed with desired time schedule. (Day/hour setting),
 - Boiler and the heating circuit can operate at the same time, or the boiler heating can be prioritized using priority assignment.
 - To prevent viral formation in long term non-circulating water, legionella function can heat the boiler water to high temperatures at specific periods to eliminate viruses.
- 6 - The last 20 errors in the control device can be viewed using the relevant parameter.
- 7 - It is compatible to run with solar power.
- 8 - Swimming pool heating is possible using solar power and boiler.
- 9 - Cascade module can allow the system to operate as cascade.
 - For wall mounted boilers, 16 boilers, including 1 master and 15 slave boilers, can be controlled as cascade system.
 Cascade system operation;
 - Ensures equal aging of boilers,
 - Prevents frequent activation and deactivation of boilers.
- 10 - Additional modules and additional zone control device can be added to the control device in line with the project requirements. Additional modules enable;
 - Instantaneous water heater control,
 - Return water temperature control,
 - Heating circuit control.
- 11 - Maintenance and special operation menu can be used to define maintenance intervals. The boiler's operating times can be measured, service signal and maintenance time alert can be issued at specified intervals and the time since the last maintenance can be tracked.
- 12 - Commissioning mode can be used to conduct inlet/outlet tests of equipment during commissioning.
- 13 - Room units can be connected to the control device. Room unit can be used to control the heating circuit

WT-S SERIES WALL HUNG

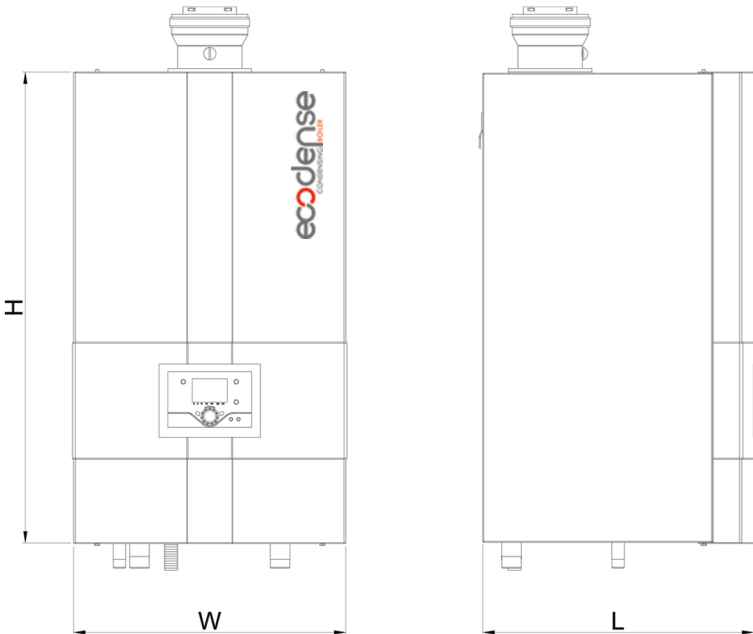
CONDENSING BOILER



SPECIFICATIONS

- High efficiency with Premix condensing technology and micro-flame metal fiber coated steel burner,
- 3 different capacity option: 45 kW, 55kW and 65 kW- in WT-S series stainless steel heat exchanger condensing boilers and up to1040 kW in CASCADE systems,
- Low energy consumption with integrated modulated primary circulation pump,
- When used as CASCADE, the panel on the boiler allows controlling 16 boilers + 1 outdoor sensor + 1 mixing valve,
- Provides energy saving through 5:1 modulating operation,
- Allows simple control with illuminated LCD panel which provides ease of use; and error codes and boiler information can be displayed on this panel,
- Daily and weekly operation schedule can be programmed,
- Seasonal heat program can be prepared during summer and winter times,
- Option of use with natural gas and LPG,
- Operation in lower noise values,
- Environmentally-friendly with lower NOx and CO emission rates.

EXTERNAL DIMENSIONS



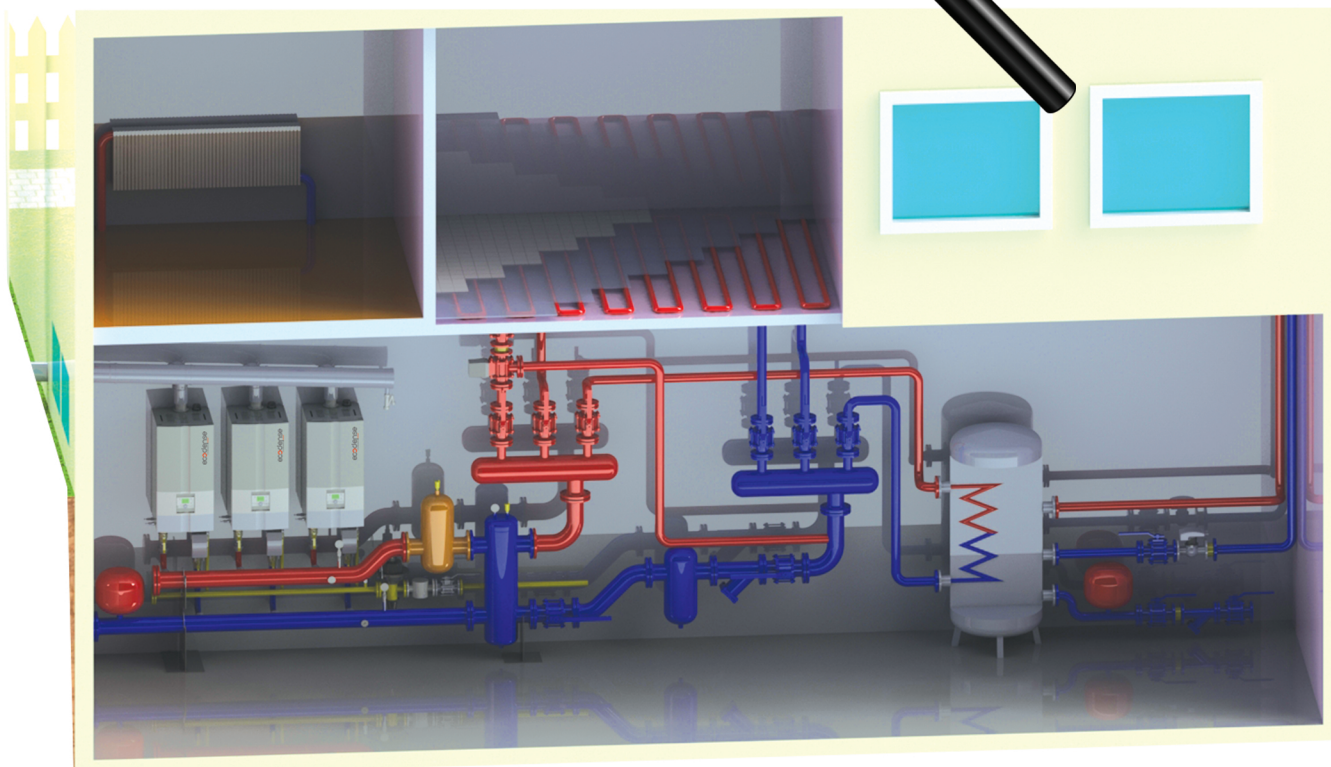
MODEL	W mm	H mm	L mm
WT-S 45	465	800	465
WT-S 55	465	800	465
WT-S 65	465	800	465

WT-S SERIES WALL HUNG CONDENSING BOILER
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	UNIT	WT-S 45	WT-S 55	WT-S 65
CAPACITY				
Max. Heating Capacity	kW	45.0	55.0	65.0
Max. Thermal Output (80°C / 60°C)	kW	44.1	53.8	63.7
Min. Thermal Output (80°C / 60°C)	kW	12.3	13.1	13.7
Max. Thermal Output (50°C / 30°C)	kW	46.4	57.2	67.6
Min. Thermal Output (50°C / 30°C)	kW	12.9	13.9	14.6
EFFICIENCY				
%30°C (30°C)	%	109.0%	109.0%	109.0%
USAGE WATER CIRCUIT				
Temp. Adj. Range with Ext. Storage Tank Usage	°C	10-65	10-65	10-65
CENTRAL HEATING CIRCUIT				
Max. Operating Temperature	°C	85	85	85
Max. Operating Pressure	bar	4	4	4
Min. Operating Pressure	bar	0.8	0.8	0.8
GAS SPECIFICATIONS				
Gas Type		G20-G31	G20-G31	G20-G31
Gas Inlet Pressure (G20)	mbar	21	21	21
Gas Inlet Pressure (G31)	mbar	37	37	37
COMBUSTION DATA				
Max. Exhaust Gas Temperature (80°C / 60°C)	°C	70	70	70
ELECTRICAL SPECIFICATIONS				
Voltage & Frequency	V / Hz	230/50	230/50	230/50
Energy Consumption	W	150	190	190
HYDROLIC INSTALLATION SPECIFICATIONS				
Gas Connection	inch	1/2"	1/2"	1/2"
Central Heating Circuit Inlet/Outlet	inch	1"	1"	1"
GENERAL SPECIFICATIONS				
Net Weight	kg	45	47	50
Chimney Diameter (Ø)	mm	80/125	80/125	80/125
NOx Class		5	5	5
G 20 Natural Gas, G 31 LPG				

"ECODENSE" economic and environmentally friendly solutions to individual and central heating systems

- Compact design,
- High energy efficiency,
- Low polluting emissions,
- Operation in lower sound level





APPROPRIATE SOLUTIONS FOR WIDE RANGE OF CAPACITIES



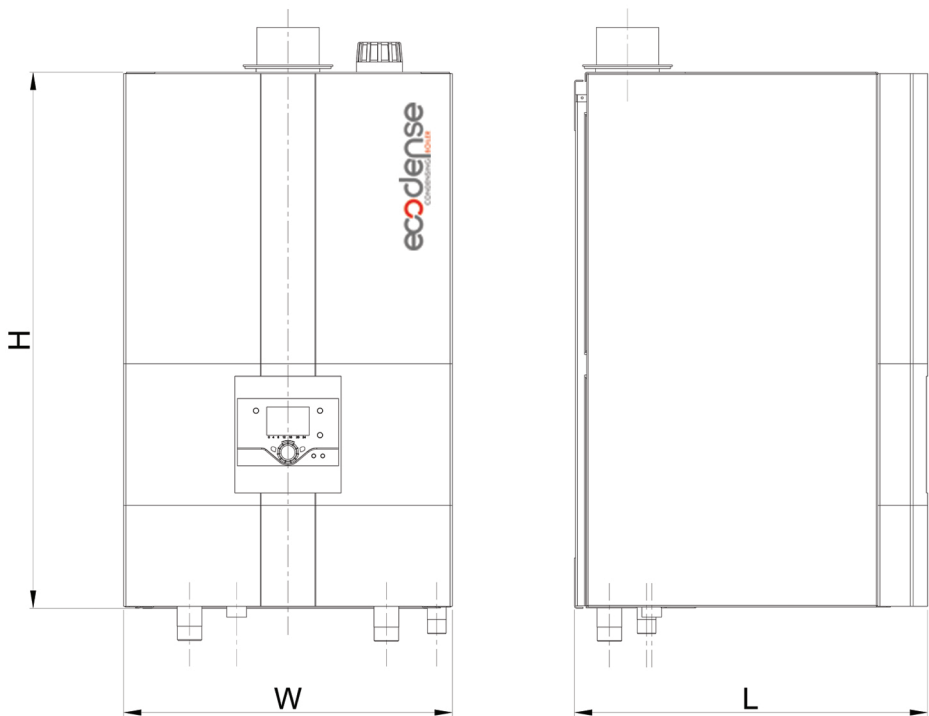
WT SERIES WALL HUNG CONDENSING BOILER



SPECIFICATIONS

- High efficiency with Premix condensing technology and micro-flame metal fiber coated steel burner,
- 6 different capacity option between 65 kW-150 kW in WT series aluminum spiral heat exchanger condensing boilers and up to 2400 kW in CASCADE systems
- When used as CASCADE, the panel on the boiler allows controlling 16 boilers + 1 outdoor sensor + 1 mixing valve,
- Provides energy saving through 5:1 modulating operation,
- Allows simple control with illuminated LCD panel which provides ease of use; and error codes and boiler information can be displayed on this panel,
- Daily and weekly operation schedule can be programmed,
- Seasonal heat program can be prepared during summer and winter times,
- Option of use with natural gas and LPG,
- Operation in lower noise values,
- Environmentally-friendly with lower NOx and CO emission rates.

EXTERNAL DIMENSIONS



MODEL	W mm	H mm	L mm
WT 65	465	725	500
WT 80	465	725	500
WT 100	465	900	500
WT 115	465	900	500
WT 125	465	900	500
WT 150	465	1090	500

WT SERIES WALL HUNG CONDENSING BOILER
TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	UNIT	WT 65	WT 80	WT 100	WT 115	WT 125	WT 150
CAPACITY							
Max. Heating Capacity	kW	65	80,0	100,0	115,0	125,0	150,0
Min. Heating Capacity	kW	20	20,0	25,0	25,0	25,0	25,0
Max. Thermal Output (80°C / 60°C)	kW	63,7	78,4	98,0	112,7	122,5	147,0
Min. Thermal Output (80°C / 60°C)	kW	19,7	19,7	24,6	24,6	24,6	24,6
Max. Thermal Output (50°C / 30°C)	kW	68	84,0	105,0	121,0	131,0	157,0
Min. Thermal Output (50°C / 30°C)	kW	21,5	21,5	26,8	26,8	26,8	26,8
EFFICIENCY							
Pmax. (80°C / 60°C)	%	98,0%	98,0%	98,0%	98,0%	98,0%	98,0%
Pmin. (80°C / 60°C)	%	98,5%	98,5%	98,4%	98,4%	98,4%	98,4%
Pmax. (50°C / 30°C)	%	104,6%	105,0%	105,0%	105,2%	104,8%	104,7%
Pmin. (50°C / 30°C)	%	107,5%	107,5%	107,2%	107,2%	107,2%	107,2%
%30 (30°C)	%	109,0%	109,0%	109,0%	109,0%	109,0%	109,0%
USAGE WATER CIRCUIT							
Temp. Adj. Range with Ext. Storage Tank Usage	°C	10-65	10-65	10-65	10-65	10-65	10-65
CENTRAL HEATING CIRCUIT							
Max. Operating Temperature	°C	90	90	90	90	90	90
Quantity of Water	Lt	5	5	7	7	7	9
Max. Operating Pressure	bar	6	6	6	6	6	6
Min. Operating Pressure	bar	0,8	0,8	0,8	0,8	0,8	0,8
GAS SPECIFICATIONS							
Gas Type		G20-G31	G20-G31	G20-G31	G20-G31	G20-G31	G20-G31
Gas Inlet Pressure (G20)	mbar	21	21	21	21	21	21
Gas Inlet Pressure (G31)	mbar	37	37	37	37	37	37
COMBUSTION DATA							
Max. Exhaust Gas Temperature (80°C / 60°C)	°C	65	65	65	65	65	65
Min. Exhaust Gas Temperature (80°C / 60°C)	°C	60	60	60	60	60	60
Max. Exhaust Gas Temperature (50°C / 30°C)	°C	42	42	43	45	45	45
Min. Exhaust Gas Temperature (50°C / 30°C)	°C	32	32	33	35	35	35
ELECTRICAL SPECIFICATIONS							
Voltage & Frequency	V / Hz	230/50	230/50	230/50	230/50	230/50	230/50
Protection Class	IP	X5D	X5D	X5D	X5D	X5D	X5D
Energy Consumption	W	100	100	200	200	200	300
Electrical Fuse	Amper	3	3	6	6	6	6
HYDROLIC INSTALLATION SPECIFICATIONS							
Gas Connection	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Central Heating Circuit Inlet/Outlet	inch	1"	1"	1"	1"	1"	1"
GENERAL SPECIFICATIONS							
Net Weight	kg	50	50	70	70	70	80
Chimney Diameter (Ø)	mm	80/125	80/125	80/125	80/125	80/125	80/125
NOx Class		5	5	5	5	5	5
G 20 Natural Gas, G 31 LPG							

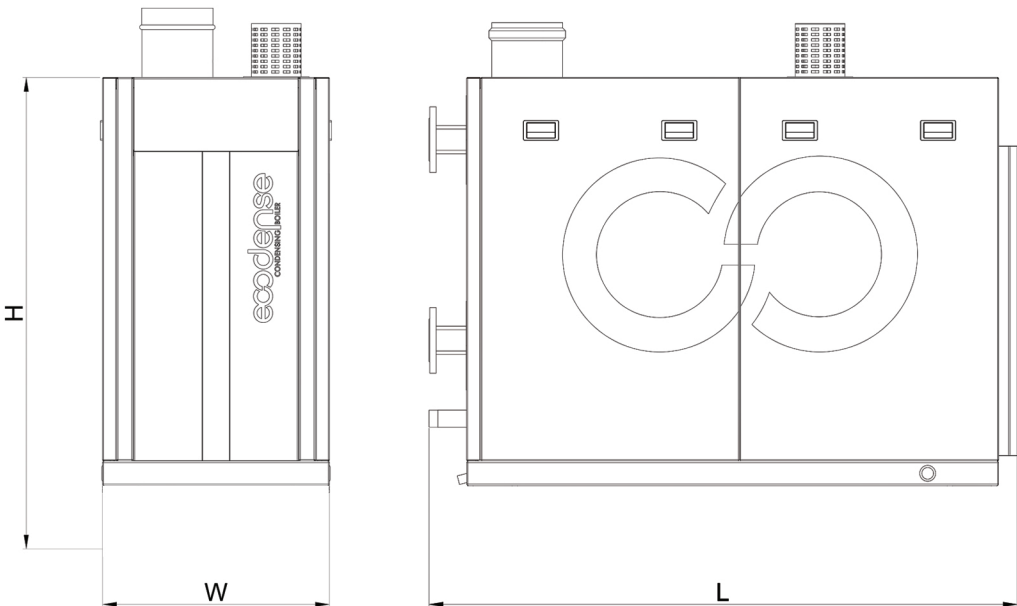
FLOOR TYPE CONDENSING BOILER



SPECIFICATIONS

- Homogenous heat distribution with Premix condensing technology and micro-flame metal fiber coated steel burner,
- Aluminum silicate alloy cast casing exchanger that provides high operating efficiency with high heat transfer,
- A wide option of capacity up to 200 kW- 550 kW in individual boilers and up to 8800 kW in CASCADE systems,
- Provides energy saving through 5:1 modulating operation,
- Allows cascade connection up to total 16 boilers, including 1 master and 15 slave boilers,
- Allows simple control with illuminated LCD panel which provides ease of use; and error codes and boiler information can be displayed on this panel,
- Daily and weekly operation schedule can be programmed,
- Seasonal heat program can be prepared during summer and winter times,
- Option of use with natural gas and LPG,
- Provides an advantage in boiler room plannings and conversions with its compact structure in terms of area of use

EXTERNAL DIMENSIONS



MODEL	W mm	H mm	L mm
FTC-X 200	640	1330	1600
FTC-X 270	640	1330	1600
FTC-X 340	640	1330	1660
FTC-X 410	640	1330	2050
FTC-X 480	640	1330	2050
FTC-X 550	640	1330	2050

FTC-X SERIES FLOOR TYPE CONDENSING BOILER

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	UNIT	FTC-X 200	FTC-X 270	FTC-X 340	FTC-X 410	FTC-X 480	FTC-X 550
CAPACITY							
Capacity	kW	200.0	270.0	340.0	410.0	480	550
Nominal Thermal Power - Max. (80°C / 60°C)	kW	184.0	258.0	321.0	390.0	456	522
Nominal Thermal Power - Min. (80°C / 60°C)	kW	28	36	44	53	60	72
Nominal Thermal Power - Max. (50°C / 30°C)	kW	200.0	269.0	339.0	408.0	477	542
Nominal Thermal Power - Min.(50°C / 30°C)	kW	32.0	40.0	49.0	58.0	68	79
EFFICIENCY							
%30 (30°C)	%	107.1%	107.1%	107.1%	107.1%	107.1%	107.1%
CENTRAL HEATING CIRCUIT							
Max. Operating Temperature	°C	90	90	90	90	90	90
Quantity of Water	Lt	18.67	22.96	26.42	32.64	36.9	41
Max. Operating Pressure	bar	6	6	6	6	6	6
Min. Operating Pressure	bar	0.8	0.8	0.8	0.8	0.8	0.8
GAS SPECIFICATIONS							
Gas Type		G20	G20	G20	G20	G20	G20
Gas Inlet Pressure (G20)	mbar	21	21	21	21	21	21
COMBUSTION DATA							
Max. Exhaust Gas Temperature	°C	30-80	30-80	30-80	30-80	30-80	30-80
Flue Gas Flow Rate	kg/s	0.092	0.118	0.145	0.171	0.198	0.224
NOx Class		5	5	5	5	5	5
CONNECTION SPECIFICATIONS							
Condensing connection	Ø	R3/4"	R3/4"	R3/4"	R3/4"	R3/4"	R3/4"
Waste gas output connection	mm	160	160	160	200	200	200
Gas connection	Ø	R 1 1/4"	R 1 1/2"	R 1 1/2"	R 2"	R 2"	R 2"
Hot/cold water connection	Ø	R 2"	R 2"	DN65	DN65	DN65	DN65
G 20 Natural Gas							

ROOF TOP SERIES CONDENSING BOILER

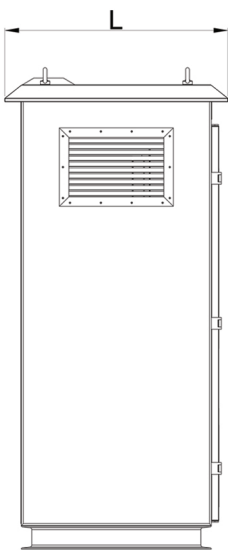
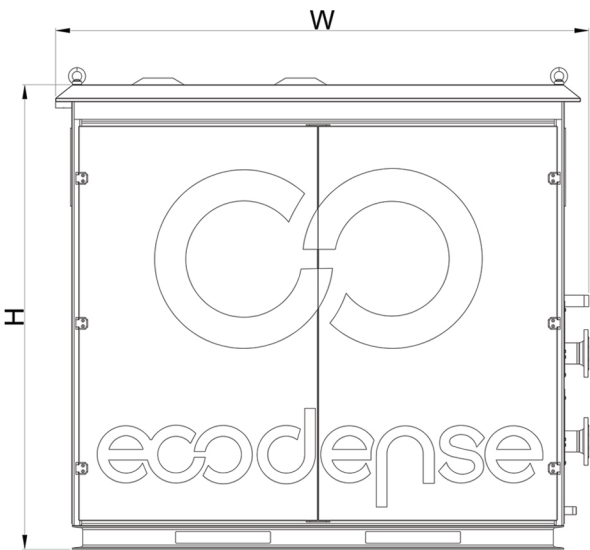


ECODENSE Roof Top condensing boilers offer solution in hot water production for rooftop outdoor installation in many applications such as shopping centers, office buildings, hospitals and hotels. ECODENSE condensing boilers, when used as CASCADE, meet high-capacity energy requirements with line-up operation and also expand the life-cycle by ensuring equal aging in boilers.

SPECIFICATIONS

- High efficiency with premix condensing technology and micro-flame metal fiber coated steel burner,
- Provides energy saving through 5:1 modulating operation,
- 10 different capacity option between 65 kW-300 kW in ECODENSE RT One/Twin series,
- Operation option with natural gas and LPG,
- Easy hydraulic and gas circuit connections,
- Allows simple control with illuminated LCD panel which provides ease of use; and error codes and boiler information can be displayed on this panel,
- Daily and weekly operation schedule can be programmed,
- Seasonal heat program can be prepared during summer and winter times,
- Operation in lower noise values,
- Environmentally-friendly with lower NOx and CO emission rates,
- Easy installation, operation and maintenance.

EXTERNAL DIMENSIONS



MODEL	H mm	W mm	L mm
RT-65 One	1960	1500	950
RT-80 One	1960	1500	950
RT-100 One	1960	1500	950
RT-125 One	1960	1500	950
RT-150 One	1960	1500	950
RT-65 Twin	1960	2250	950
RT-80 Twin	1960	2250	950
RT-100 Twin	1960	2250	950
RT-125 Twin	1960	2250	950
RT-150 Twin	1960	2250	950

BOILER SAFETY

- When outdoor temperature goes below +4 °C, the boiler automatically protects itself and prevents from freezing.
- The boiler protects itself, when the temperature of flue gas exceeds the set value during operation,
- The boiler protects itself during unexpected high temperatures with combustion space safety thermostat.

STANDART EQUIPMENTS

- Primer hydraulic circuit circulating pump,
- Inlet and return collectors in size according to installed total power,
- Check valve in inlet line and safety valve in return line of the boiler,
- Ball valves in both inlet and return lines of the boilers,
- Balance container with residue, dirt and air separator return collectors in size according to total installed power,
- Gas detector for the gas leakage control,
- Pressure gauge and ball valve in gas line,
- Thermometer in hydraulic circuits,
- Drain trap for each boiler,
- Ventilation grills for the air inlet and outlet,
- Eye bolt for easy transport.



ROOF TOP SERIES CONDENSING BOILER CAPACITY TABLE

TYPE	CAPACITY	BOILER NUMBER	GAS INLET PRESSURE	MAXIMUM OPERATING PRESSURE
	kW	-	mbar	bar
ECODENSE RT-65 One	65	1	21	6
ECODENSE RT-80 One	80	1	21	6
ECODENSE RT-100 One	100	1	21	6
ECODENSE RT-125 One	125	1	21	6
ECODENSE RT-150 One	150	1	21	6
ECODENSE RT-65 Twin	130	2	21	6
ECODENSE RT-80 Twin	160	2	21	6
ECODENSE RT-100 Twin	200	2	21	6
ECODENSE RT-125 Twin	250	2	21	6
ECODENSE RT-150 Twin	300	2	21	6

OPTIONAL ACCESSORIES



Circulation Pump: High efficiency circulation pump provides energy saving.



Checkvalve: It must be installed on the installation according to the check valve circuit diagram with the appropriate connection diameter.



6 bar safety valve: A spring-loaded safety valve must be fitted on the installation in accordance with the circuit diagram of the valve without other restriction.



QAC34 Outside Sensor:
Operable at the range of -50°C to 70°C. Allows connection at maximum 120 meters using cable with 1.5 mm² section. +1/-1 Kelvin tolerance.



QAD36 Strap-On Temperature Sensor:
Operable at the range of -30°C to 125°C. Allows connection at maximum 80 meters using cable with 1 mm² section. +0.5/-0.5 Kelvin tolerance.



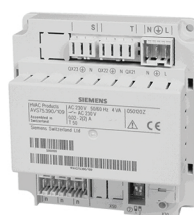
QAZ36 Cable Temperature Sensor:
Operable at the range of 0°C to 95°C. +0.5/-0.5 Kelvin tolerance. 2 meters long.



OCI345.06 CASCADE Module
For wall mounted boilers, 16 boilers, including 1 master and 15 slave boilers, can be controlled as cascade.



AVS-74 Control Panel:
Controls the parameters contained in the boiler control card. Connected to the boiler control card via the connection cable. Different language options that are not in the standard control panel are active. (DE, EN, FR, IT, NL, ES, DA, SV, FI, PT, PL, CS, SK, SL, HU, EL, TR, RU, SR)



AVS75: Relay connection, solar panel connection, 3 way valve connection



QAA55 Cascade Room Unit:
Room comfort setting value can be changed and operation mode can be selected.



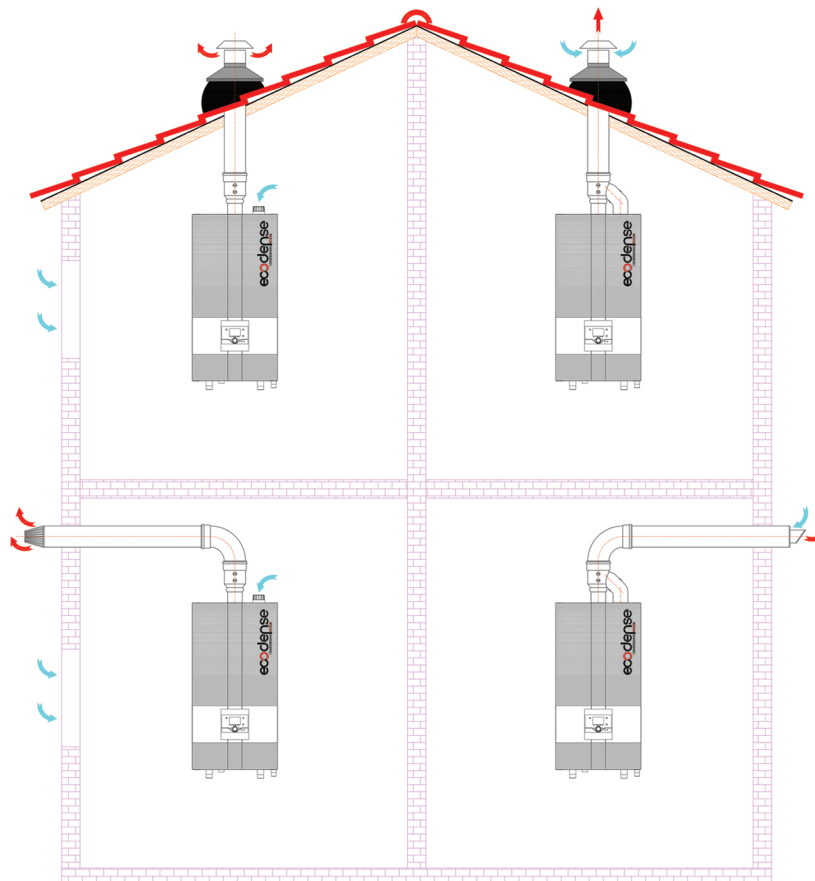
Webserver

You can connect to the web server device from anywhere in the world to monitor and control your system.

- Remote access to your facility, and monitoring operating values,
- Adjustment of system hour, minute and year details,
- Language selection setting,
- Time program setting (Heating circuit, boiler, external time program)
- Vacation mode setting for heating circuits (controlling the heating circuit as per the anti-freeze protection mode in buildings for prolonged non-use)
- Changing temperature values of heating circuits,
- Setting boiler operating temperature and changing the boiler's operating mode (operation by 24 hours or time program)
- Controlling legionella function in boiler circuit,
- Controlling swimming pool circuit and changing temperature values,
- Controlling cascade parameters,
- Setting parameters of solar powered system,
- Setting accumulation tank or hot water storage tank parameters,
- Configuration settings (Relay and sensor assignment)
- Resetting system to factory settings,
- Monitoring system errors, viewing error times (Last 10 errors)
- Viewing maintenance time and defining maintenance interval,
- Testing the relays connected to the system,
- Viewing status information of cascade system,
- Viewing information on heat generation and consumption,
- Changing operating modes (economy, comfort, anti-freeze protection and automatic operation modes)

FLUE GAS SYSTEM SOLUTIONS

Horizontal or vertical; discrete or concentric flue sets are presented for different solutions for different applications. Flue gas sets can be used with the extension pieces that can be added to the allowed length. You can contact our sales department for detailed information.



HEATING COMPONENTS

MANOMETER

Minimum one manometer covering a range of 0-6 bars must be installed to the system. The manometer must be placed in a manner easily visible from the charging point, and preferably, must be connected to the same point with the expansion tank.

SEDIMENT TRAP

The substances like dirt, sludge, sediment, etc., present in the installation water may result in failure of boiler and installation components, stress on heat transfer surfaces and decrease in efficiency. In order to prevent this, a sediment trap to be added to the system prevents penetration of such substances into the installation.

AIR SEPARATOR

The air inside the installation dissolves by increase of temperature and circulates through the system in aeriform. This results in cavitation in the installation, decrease in efficiency and noise. The air inside the installation can be removed by use of an air separator

BALANCE VESSEL

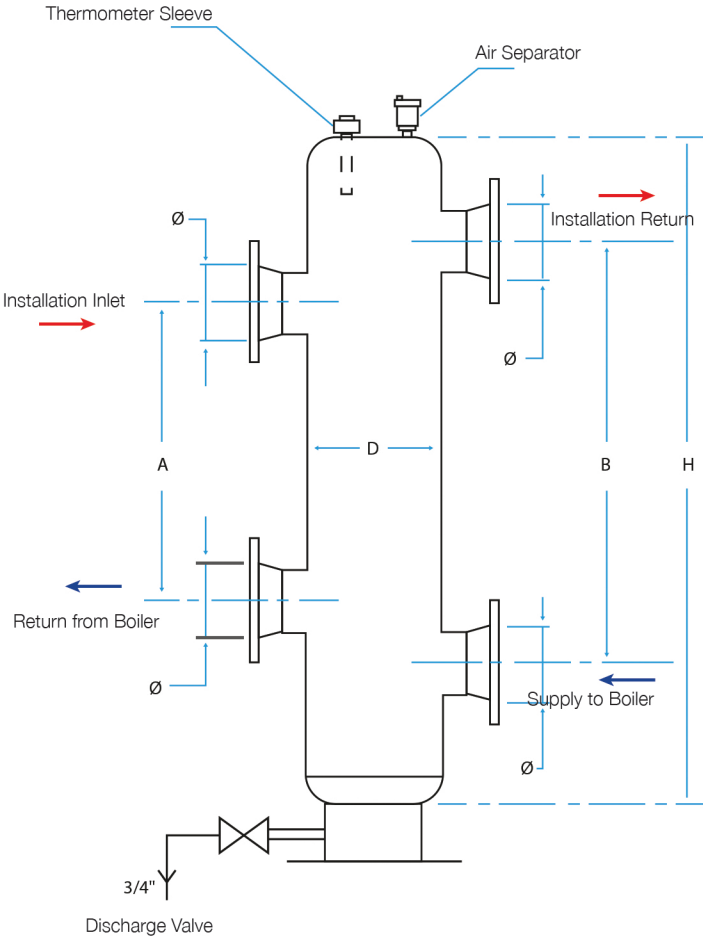
The main duty of balance vessel is to provide thermal equilibrium through enabling mixing of cold fluid from the installation with hot water from the boiler. Additionally, they are used to compensate potential pressure differences in a system containing multiple pumps. The balance vessel must be positioned upright.

SIZING OF BALANCE VESSEL:

- In order for healthy operation of balance vessel, it must be designed in proper dimensions.
- The discharged water temperature of the boiler should be measured at top of the balance vessel. For this, a ½” sleeve must be welded on top of the vessel; also an air purger must be mounted.
 - Dimensions shown below are minimum dimensions required to be applied.

SYSTEM CAPACITY	A	B	H	BALANCE VESSEL DIAMETER D	INLET OUTLET DIAMETER Q
Kw	cm	cm	cm	mm	mm
65	33	38	48	100	50
90	38	44	55	125	50
115	42	47	59	125	65
130	47	54	68	150	65
170	54	62	77	150	80
230	59	67	84	200	80
345	72	82	103	200	100
460	83	95	119	250	100
575	93	106	133	250	125
690	102	116	145	300	125
805	110	126	157	300	150
920	118	134	168	350	150
1035	131	150	188	350	150
1150	138	157	197	400	200
1265	144	164	206	400	200
1380	150	171	214	450	200
1495	155	178	222	450	200
1610	162	185	230	450	200
1725	169	192	238	450	200

TOTAL CAPACITY (kW)	EXPANSION TANK CAPACITY (lt)	TOTAL CAPACITY (kW)	EXPANSION TANK CAPACITY (lt)
65	60	270 - 360	300
90	80	460 - 570	500
114	100	685 - 800	750
130	125	920	900
180	150	1030	1000
228	200	1140	1250

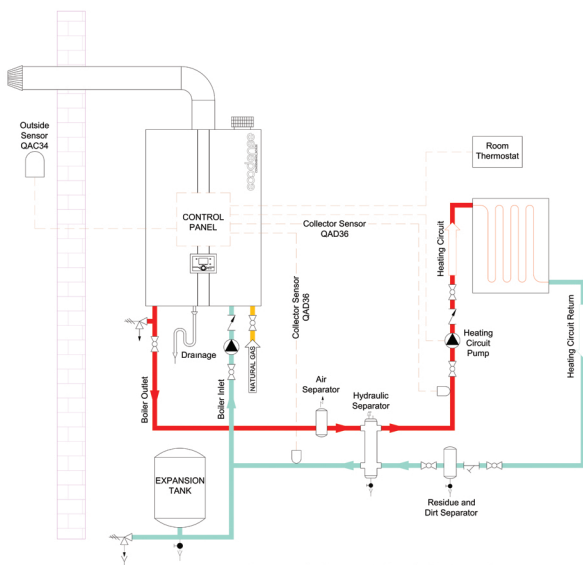


EXPANSION TANK CAPACITY

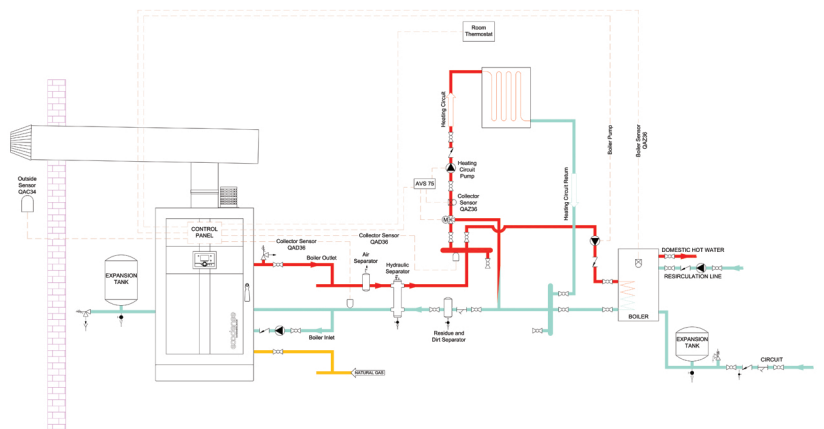
The expansion tank's initial pressures must be adjusted properly to the system and the tank must be placed in parallel to the installation return line.



ECODENSE condensing boiler application can be downloaded from App Store and Play Store.



Read the QR code for wall-mounted condensing boiler circuit diagrams.



Read the QR code for floor standing condensing boiler circuit diagrams.

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