DOMUSA
TEKNIK

OIL FIRED CONDENSING BOILER

EVOLUTION EV HFDX

ErP Compliant A B

HIGH PERFORMANCE
STAINLESS STEEL CONDENSER
CAST IRON HEAT EXCHANGER
POLYPROPYLENE FLUE DUCTS
PRODUCTION OF DHW BY ACUMULATION

The most advanced technology
at the most reasonable price

The EVOLUTION EV HFDX boiler belongs to a new generation of boilers that respond to users' requirements in terms of energy-saving and ecological concerns while preserving optimal comfort and reliability.

Silent

The effective acoustic isolation of the body and the boiler housing, as well as the use of an airtight burner, makes this boiler a discrete companion.

Ecological

The EVOLUTION EV HA boiler permits the reduction of contaminating CO_2 emissions, contributing to the reduction of the greenhouse effect, as this boiler consumes less energy than a conventional boiler to provide the same power and performance.

Cast Iron Heat Exchanger

The heat exchanger of the boiler is made of cast iron which ensures its long life.

DHW stainless steel cylinder

The high quality material that the tank is made of, reduces maintenance costs and avoids leaks caused by corrosion.

Odourless

The sealed home system eliminates the risk of fuel smells from combustion because the air required for the combustion is taken from outside and the flue gases are also expelled outside without the possibility of them coming into contact with the room.

EVOLUTION EV HFDX

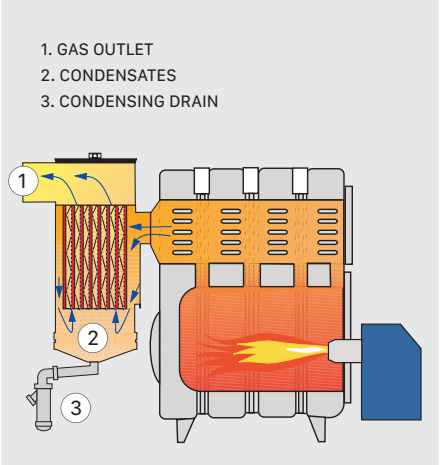
SAVINGS

The **EVOLUTION EV HFDX** boiler takes advantage of the condensation effect of the combustion gases **reaching yields of over 104% LHV.**

The performance reflects the energetic efficiency of the fuel (LCV). When we say that we have a performance higher than 100% we are not saying that we are creating energy, it is that we are taking advantage of the latent heat of the combustion gases when we condens the steam present in these gases.

The **EVOLUTION EV HFDX** boiler is equipped with a modulating hot water production system that stabilises the water temperature, adapting it to the temperature selected on the control panel, regardless of the water flow required and of the cold water intake temperature at any given time.

Modulation enables the continuous adaptation of the boiler power to the hot water demand at any time, allowing it to work at lower boiler temperatures. With this system cold.



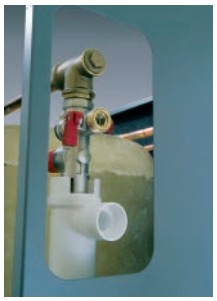
SIMPLICITY OF INSTALLATION

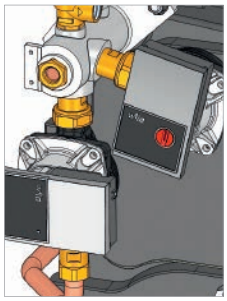
It is delivered completely assembled and prepared for installation with the **most complete equipment in the market.**

Amongst the equipment it must be highlighted:

- **The hot water expansion vessel** which stops the constant leaking from the DHW pressure relief unit which is also incorporated.
- **Dielectric coupling** designed exclusively by and for DOMUSA.
- **Double pump** system.
- Double safety automatic air vent.

All intakes are easily accessible from the side, making installation easy, fast and save.





Double pump system

SIMPLICITY OF INSTALLATION

The design simplifies the installation for the professional, allowing for fast installation. As it does not use air from the room for combustion, the boiler can even be installed in rooms without ventilation, thus making installation easier.

The boiler is controlled with an electronic system that provides considerable safety and operating advantages.

Worthy of note among these advantages are:

Safety system in case of lack of water

It prevents breakages in boiler body due to lack of water.

Pump anti-blocking system

It reduces the maintenance of the circulation pumps.

Anti-inertia system

Post-circulation system in order to prevent overheating in the boiler body.

Anti-freeze system

When the boiler temperature goes below 6ºC, the boiler is activated even if it is switched off, in order to avoid problems in the system due to freezing.

Legionella prevention system

The temperature of the tank in these boilers regularly rises to 70ºC, thus avoiding the formation of legionella.

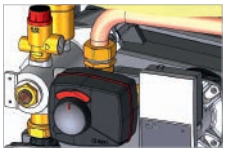
OPTIONAL E20 REMOTE CONTROL

The Evolution EV HFDX boilers optionally permit the connection of the E20 remote control with which you can program the working hours of the boiler, the desired ambient temperature at any time, access the boiler parameters and have infromation about any alarms that are produced in the boiler, all of this from the place in the house where you have the remote control.

Also this option allows the installation of an outdoor temperature sensor, with which the heating system regulates depending on the outside temperature of the house, thus obtaining a more efficient performance of the heating system in fuction of required temperature at any time.

This way we can reduce consumption and have higher level of comfort in the house.

E20

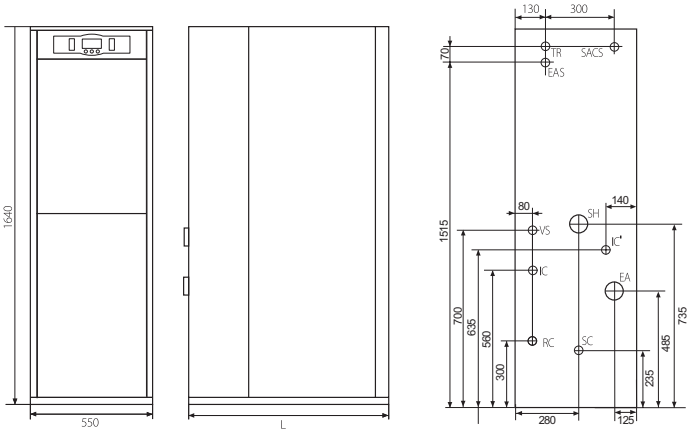


Hydraulic kit SRX2/EV

DIMENSIONS

IC: Heating flow.
RC: Heating return.
SACS: Domestic hot water outlet.
EA: Air intake, Ø100.
SH: Gas outlet, Ø100.
TR: DHW recirculation outlet.
EAS: Domestic cold water intake.
IC': Optional heating flow.
SC: Condensate outlet, 3/4" H.
VS: Safety valve.

Model	SACS EAS	IC RC	L	SH	EA
EV 20 HFDX	3/4"M	3/4"M	910	100	80
EV 30 HFDX	3/4"M	3/4"M	910	100	80
EV 40 HFDX	3/4"M	1"M	950	100	80



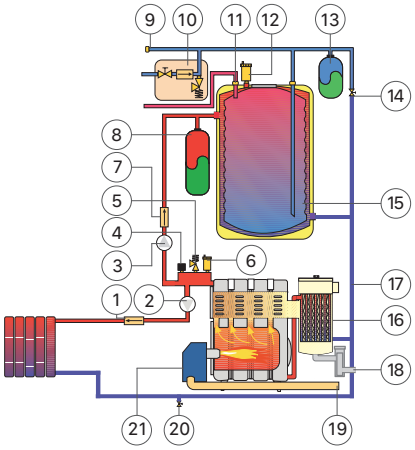
EQUIPMENT

1. Heating retaining valve
2. Circulation pump
3. DHW pump
4. Pressure transducer
5. Safety valve
6. Automatic air vent
7. Summer retaining valve
8. Heating circuit expansion vessel
9. DHW recirculation outlet
10. DHW pressure relief unit
11. Dielectric coupling
12. Tank automatic air vent
13. Hot water expansion vessel
14. Filling valve
15. Stainless steel cylinder
16. Condensing boiler
17. Gas outlet
18. Condensate drain
19. Air intake
20. Empying valve
21. Sealed burner

Telephone relay connection

OPTIONS

Cathodice protection DX
Remote control E20
External probe for E20
Underfloor heating kit SRX2/EV
Gas discharge kit



EVOLUTION EV HFDX INSTALLATION EXAMPLE

Maximum discharge length

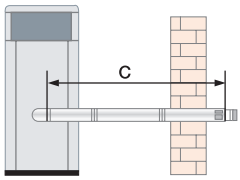
	A+B	C	SH	EA
EV 20 HFDX	15 m Ø 100	8	100	80
EV 30 HFDX	15 m Ø 100	6	100	80
EV 40 HFDX	12 m Ø 100	-	100	80

Equivalences

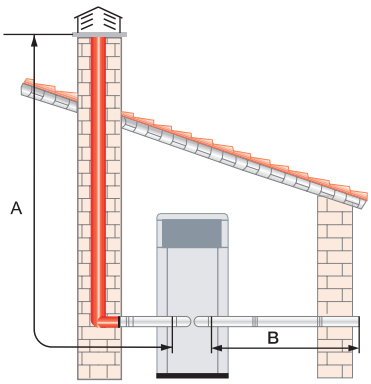
Diameter	90º Curve	45º Curve
80/125	1 m	0.5 m
80 or 100	1 m	0.5 m

1 horizontal metre equals 2 vertical meters.

Note: Due to the low smoke temperature, the gas outlet must be airtight and made of an anticorrosive material due to the condensation of the combustion gas water vapour.



Horizontal balance outlet



Double flue outlet

Model	Nominal power 50º C / 30º C	Nominal power 80º C / 60º C	DHW flow rate L/h Δ30ºC	DHW flow rate L/10 min Δ30ºC	Vol. hot water tank L	Heating Efficiency Class	DHW efficiency class
	kW	kW					
Evolution EV 20 HFDX	20.3	19.1	575	275	130	A	B
Evolution EV 30 HFDX	30.2	28.7	846	321	130		
Evolution EV 40 HFDX	40.5	38.7	846	321	130		

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