



HEAT TECHNOLOGY MANUFACTURER



Product catalogue 2022

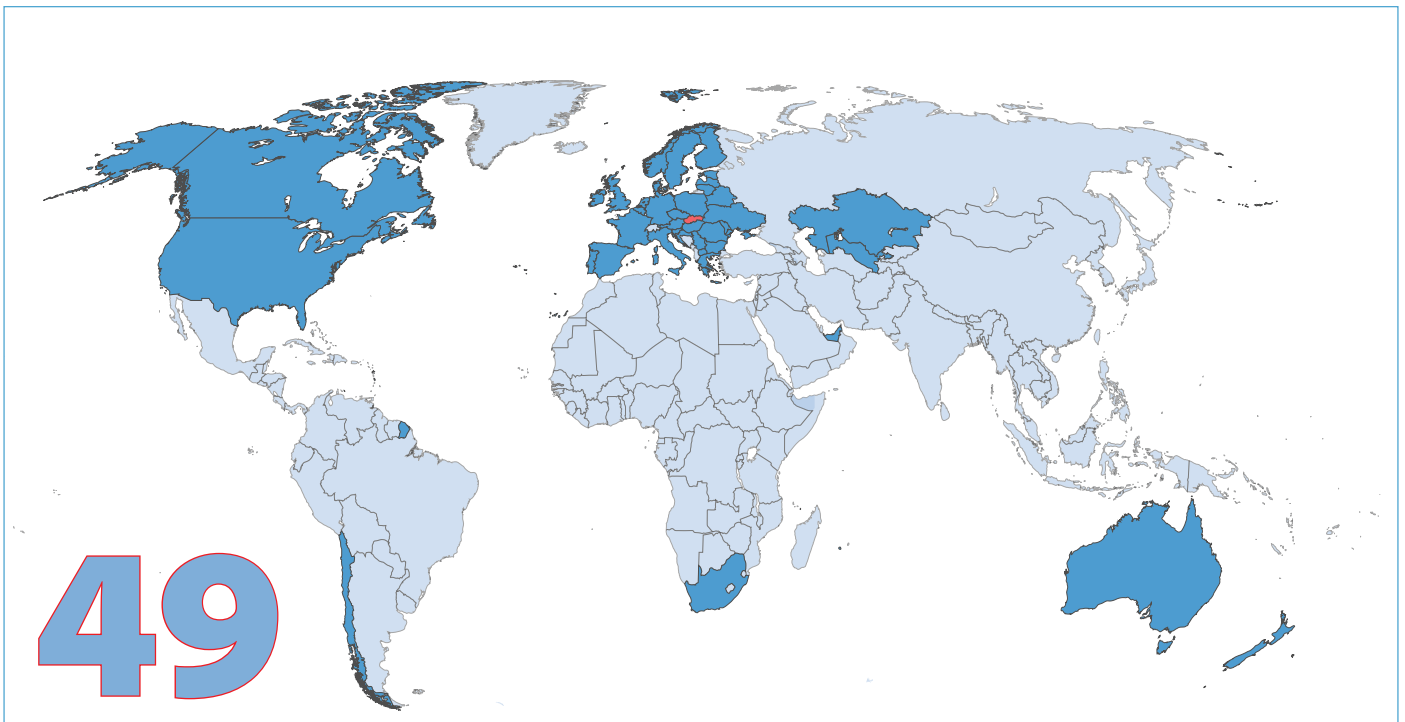
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www.boilers-attack.com



HEAT TECHNOLOGY MANUFACTURER



ATTACK EXPORT ACTIVITIES

Export activities of the ATTACK company have been developed in more than 49 countries of the world and this number is still increasing. Nowadays we export our products to all EU countries, USA, Canada, New Zealand... The modern wood gasifying and pellet boilers have gained the biggest interest and they are demanded in Europe and in America as well. Our floor standing gas boilers represent us even in the far Siberia.

In different countries there is demand for different products. Personal approach to every customer helps us to fulfil particular requirements and to achieve more and more satisfied customers. The ATTACK, s.r.o. company is able to satisfy everyone thanks to the wide product offer.

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ABOUT THE COMPANY ATTACK



ABOUT THE COMPANY ATTACK, S.R.O.

- *The largest Slovak producer of heat technology with purely Slovak capital and sole owner*
- *Satisfied customers in more than 49 countries of the world*
- *Wide assortment of products*
- *44 sale points in Slovak republic*
- *705 service points in Slovak Republic*
- *More than 150 employees*
- *The ATTACK, s.r.o. company is holder of the quality certificate ISO 9001 for boiler manufacturing, service and management*

AWARDS



The ATTACK, s.r.o. company struggles to make every product to be among the best in its class. Almost all our product groups have achieved plenty of awards at domestic and international exhibitions, given by the committee of specialists.

PRODUCT PORTFOLIO

The product portfolio of the ATTACK, s.r.o. company is characterized by wide assortment of the ATTACK® products, classified by concrete product type, output and kind of fuel.

- *wood*
- *natural gas / LPG-propane*
- *accumulation tanks*
- *heat pumps*
- *wood pellets, i.e. biomass*
- *electrical energy*
- *D.H.W. tanks*

In this moment the ATTACK, s.r.o. company has the widest product portfolio in comparison with the competitors.

CERTIFICATES

The ATTACK, s.r.o. company is holder of the quality certificate ISO 9001. The company ATTACK gained the certificate Bisnode Selected Premium Company for the year 2018, only serious companies that have demonstrated their financial stability, successful history and innovativeness can receive this certificate.



All the ATTACK articles are quality premium products made by the latest technology and they are approved and tested for the CE, TÜV, and GOST certificates, granted by world prestigious test institutes

ABOUT THE COMPANY ATTACK



RESEARCH AND DEVELOPMENT

The ATTACK, s.r.o. company has its own research and development centre. The company emphasizes development of sophisticated and innovative products of high quality, competitive on the European as well as on the world markets.

All the ATTACK® products are designed and developed in conformity with appropriate norms, specifications, juridical and other prescriptions. Suitable components are selected under the strictest criteria. Only reliable and by long-time utilization approved components and materials from prestigious suppliers can be used for assembly of the ATTACK® boilers. The ATTACK, s.r.o. does not cooperate in development with other producers, but struggles to be a step before the competition.

THE ATTACK PRODUCTION PLANT

Assembly of the floor standing and wall hung boilers

The ATTACK, s.r.o. manufactures their products in the own production halls. Production is divided into the manufacture of biomass boilers from cast iron and steel, wall hung gas boilers and floor standing cast iron boilers.

Production of the biomass boilers

The ATTACK, s.r.o. disposes with the latest and the most advanced technology for boiler production (robotized welding workstations, laser workstation, CNC workstation, etc.) which exceeds the actual European standard in many ways and markedly increases quality and service life of the final products.

Technology of the biomass boiler production

There are the highest requirements for the ATTACK® product quality. The boilers are made from the special boiler sheet metal.



WHY TO CHOOSE THE ATTACK TRADEMARK?

- The company produced more than 600 000 pieces of products until now
- The latest production technologies used to manufacture the ATTACK® products
- Innovative solutions

- Excellent customer and emission values of the products
- Complete technical support
- Top products of the best quality, functionality and design
- Training organized for customers and partners anywhere in the world
- Wide assortment of products for biomass and gas and solar technique from one manufacturer

HEAT PUMP INVERTER R32

The ATTACK Inverter R32 Air / Water heat pump is a modern energy source based on the principle of obtaining energy from the ambient air and transferring it into a hot water heating system. At maximum use of primary energy from the electricity grid, it produces the energy needed for heating / cooling or DHW heating. **In addition to heating the pump can also fully cool and thus ensure the required room temperature 365 days a year.**

Inverter technology

This emission-free heat source uses renewable environmental energy for its functions. The device works with a highly environmentally friendly refrigerant R32 which has a minimal impact on the Earth's ozone layer. State-of-the-art inverter technology brings significant energy savings and significantly extends the life of the heat pump. During its operation it achieves a high coefficient of performance COP.

Remote control via WIFI

The Inverter heat pump has a simple and very intuitive control via a 5" fully graphical touch screen which allows the control of two other temperature-independent heating circuits by controlling the zone mixing valve and the circulation pump. **The heat pump can also be controlled remotely via the Internet via an external wifi module.** This optional accessory allows efficient control of the heating system remotely from anywhere. The heat pump is also equipped with an equithermal control function.

External unit Monoblock

The ATTACK heat pump consists of an outdoor and an indoor unit. The outdoor monoblock unit hides all the necessary components which facilitates installation and service. A water pipe is connected to the outdoor unit. This solution saves interior space in the building, making it ideal for houses with limited interior space. The outdoor unit has integrated anti-freeze protection for hydraulic parts.

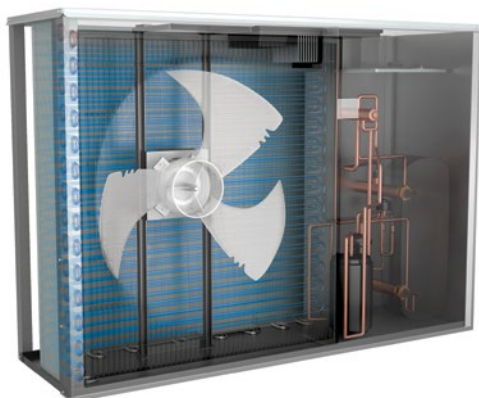


Outdoor unit 6, 9, 12 kW

A+++

ADVANTAGES

- *The monoblock solution enables quick and easy installation The device works with highly environmentally friendly refrigerant R32 with minimal impact on the Earth's ozone layer*
- *A modern, emission-free heat source using renewable environmental energy for its functions*
- *High COP/SCOP*
- *Modern inverter solution with power modulation and low noise*
- *High seasonal energy efficiency of heating A+++*
- *Ideal for modern new buildings of energy class A0 as well as for reconstructions*
- *Preparation for DHW heating in an external storage tank*
- *The control system of the ATTACK heat pump enables complex control of the building heating with several independent temperature circuits and preparation of DHW heating.*
- *All-season operation with the possibility of cooling, heating with stable output even at very low outdoor temperatures and DHW preparation in an external storage tank up to a temperature of 55 °C*
- *Noiseless indoor unit of compact dimensions with built-in electric boiler*
- *Simple and very intuitive operation via a 5" fully graphical touch screen*
- *Possibility of remote control via the Internet via wifi module*
- *Wide choice of ATTACK heat pumps with outputs of 6, 9, 12, 15 and 19 kW*
- *Suitable solution for low temperature heating systems*
- *Equithermal power control*





Indoor unit

The indoor wall unit is the perfect solution in cases you want to keep your existing system for preparing hot drinking water or in case you have limited space. The compact unit contains all the necessary hydraulic connections in its modern and simple design which ensures quick installation and easy maintenance.

The internal hydraulic unit with built-in control system and control panel contains a three-way distribution valve through which it distributes the flow of heating water to the heating / cooling system or for DHW heating in an indirectly heated storage tank. The indoor unit is equipped with a 5" fully graphical touch screen for heat pump control and diagnostics.

The unit is equipped with an auxiliary 3 kW electric heater which ensures reheating of the heating water when the outside air temperature drops and the heat pump is unable to provide the required heating water temperature via its compressor circuit. The indoor unit contains an electrical

terminal for connecting all necessary elements of the hydraulic system (electrical connection of the outdoor unit, zone mixing valves, circulation pumps, temperature sensors and control contacts, auxiliary DHW and DHW heaters and others).



Ecological and economical solution for a modern home

The ATTACK heat pump can minimize heating bills while reducing carbon emissions and environmental impact, making it the ideal solution for modern low-energy new buildings as well as for renovations of existing houses.

Low noise and a wide selection of power

Modern technologies come with power modulation and low noise. In the interior a noiseless indoor hydraulic unit with a touch screen is installed for simple and very intuitive control of the entire system. All functional and moving parts of the device are installed in the outdoor unit outside the residential part of the house.



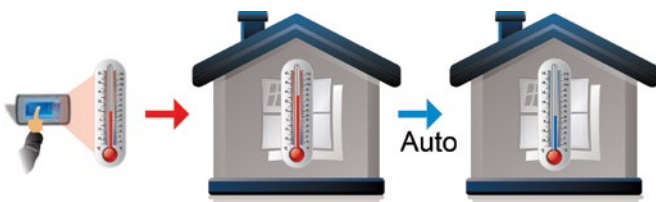
Heating and cooling in one

Year-round operation with the possibility of cooling, heating with stable output even at very low outdoor temperatures and DHW preparation in an external storage tank up to a temperature of 55 ° C. The ATTACK Inverter R32 does not require a large heating water tank for its operation which unnecessarily takes up valuable house space. A minimum storage supply of heating water with a volume of only 50 liters is richly sufficient for its operation. The heat pump can operate in several types of selected modes and their combinations: heating / cooling / DHW heating / holiday mode / quiet mode. It can communicate with backup heat sources in various types of heating systems.



Automatic heating / cooling mode

The ATTACK heat pump uses the automatic function of switching the heat / cold mode, which means that there is no automatic operation of the system. The user can select the mode setting based on the ambient temperature, room temperature or signal input from the connected external devices.



Subsidy for heat pump

As the heat pump is an emission-free heat source, mainly for ecological reasons, it is included in state subsidies in most countries of the European Union. **It is therefore possible to apply for a subsidy for the ATTACK Inverter R32 heat pump, obtain a quality product and an ecological heating source.**

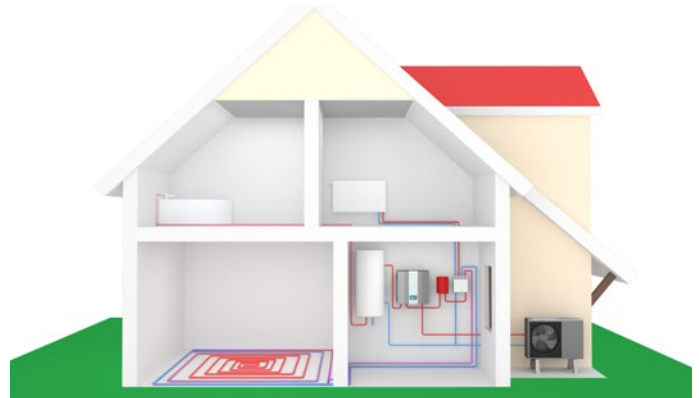
Holiday mode

The built-in holiday mode allows the use of this system of operation at least during the time when residents are away from home for a long time. The holiday regime allows for a regular start and end time for this period. In this mode, the system works to maintain the minimum desired temperature to save the maximum amount of energy. The system switches back to normal mode at the end of the holiday time so that residents return to the space heated by their set temperature, thus maintaining a high level of comfort and minimizing heating costs during the absence of the occupants.



Solutions for new buildings

The heat pump is an ideal solution for modern new buildings with energy class A0. High seasonal energy efficiency of heating A+++ saves costs even for renovated houses.



An air / water heat pump system is less capital intensive than other heat pump systems (e.g. water / water, ground / water).

There is a wide range of heat pump outputs to choose from ATTACK 6, 9, 12, 15 and 19 kW.



The outdoor unit 15, 19 kW

TECHNICAL PARAMETERS

← A+++

← A+++

← A+++

← A+++

← A+++

Model		ATTACK 6	ATTACK 9	ATTACK 12	ATTACK 15	ATTACK 19
Power supply	V/Hz	220-240/50			380-420/ 50	
Phase connection	phaze	1			3	
Max. heating output (1)	kW	6,5	9,2	11,6	15,35	18,5
C.O.P (1)	-	4,61	4,38	4,3	4,78	4,47
Heating output Min./Max.(1)	kW	3,5 / 6,5	4,3/9,2	5,5 / 11,6	6/15,35	9,2/18,5
Elektrical input Min./Max.(1)	W	758 / 1410	927/2097	1107 / 2683	1222/3209	1834/4142
C.O.P Min./Max.(1)	-	4,5 / 4,7	4,38/4,71	4,3 / 4,9	4,78/5,06	4,47/5,01
Max. heating output (2)	kW	6	8,6	11,2	14,26	18,2
C.O.P (2)	-	3,46	3,37	3,45	3,64	3,6
Heating output Min./Max.(2)	kW	3,15 / 6	3,9/8,6	4,9 / 11,2	5,6/14,26	8,5/18,2
Elektrical input Min./Max.(2)	W	943 / 1732	1162/2550	1401 / 3263	1551/3913	2248/4998
C.O.P Min./Max.(2)	-	3,34 / 3,56	3,37 / 3,58	3,3 / 3,5	3,64 / 3,82	3,6 / 3,82
Max. cooling output (3)	kW	7,45	9,5	9,8	18,57	22,5
E.E.R (3)	-	4,05	4,23	3,9	3,78	3,58
Cooling output Min./Max.(3)	kW	6,22/7,45	6,7/9,5	7,2/9,8	7,23/18,57	8,5/22,5
Elektrical input Min./Max.(3)	W	1400/1863	1679/2242	1791/2510	D1334/4917	1660/6285
E.E.R Min./Max.(3)	-	4,05/4,45	4,0/4,6	4,0/3,8	3,78/5,42	3,58/5,12
Max. cooling output (4)	kW	4,5	7,2	6,5	13	16
E.E.R (4)	-	2,7	2,8	2,7	2,96	2,85
Cooling output Min./Max.(4)	kW	3,5/4,5	4,9/7,2	4,9 / 6,5	4,46/13	5,5/16
Elektrical input Min./Max.(4)	W	1330/1680	1451/2366	1358 / 2444	2592/4390	2970/5510
E.E.R Min./Max.(4)	-	2,5/2,74	2,8/3,1	2,6 / 3,5	2,96/3,29	2,85/3,2
Outdoor temperature operating range	°C	-25~43				
Min. water temperature (Heating / Cooling)	°C	20 / 7				
Electrical fuses for control electronics	-	Indoor unit: 65TS/T15AL/250V Outdoor unit: 65TS/T25AL/250V			Indoor unit: 65TS/T15AL/250V Outdoor unit: 51NM/10A/250V	
Min. floor area for installation, operation and storage	m ²	0,8	1,9	3,1	6,2	6,4
Max. operation by high pressure	MPa	4,2				
Max. operation by low pressure	MPa	1,2				
Kompresor	Type / Quantity	Double Rotary - 1	Double Rotary - 1	Double Rotary - 1	Double Rotary-1	Double Rotary - 1
Refrigerant Type / Weight	- / kg	R32 / 0,9kg	R32 / 1,4kg	R32 / 1,8kg	R32 / 2,55kg	R32 / 2,6kg
Fan - quantity	ks	1	1	1	2	2
Fan - airflow	m ³ /h	2500	3150	3150	6200	7000
Fan - nominal output	W	34	45	45	90	120
Indoor/Outdoor unit noise level	dB(A)	44/52	44/53	44/52	44/55	44/59
Heat exchanger - water side	Typ	Plate heat exchanger				
Heat exchanger . water pressure drop	kPa	26				
Heat exchanger - Piping Connection	inch	G1"			G1-1/4"	
Allowable Water Flow Min./Nominal/Max.	l/s	0,21/0,29/0,35	0,26/0,43/0,52	0,34/0,57/0,68	0,43/0,71/0,85	0,55/0,92/1,1
Dimensions (LxWxH) Indoor unit	mm	570x550x255				
Dimensions (LxWxH) Outdoor unit	mm	1010x370x700	1165x370x845		1085x390x1450	
Weight indoor unit	kg	25	25	25	25	25
Weight outdoor unit	kg	65	78	85	120	140

Note: (1) Heating condition: Water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/ WB 6°C;
 (2) Heating condition: Water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/ WB 6°C;
 (3) Cooling condition: Water inlet/outlet temperature: 23°C/18°C, Ambient temperature: DB 35°C/ WB 24°C;
 (4) Cooling condition: Water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB 35°C/ WB 24°C;
 Technical parameters and specifications are subject to change

THE WOOD GASIFYING BOILER

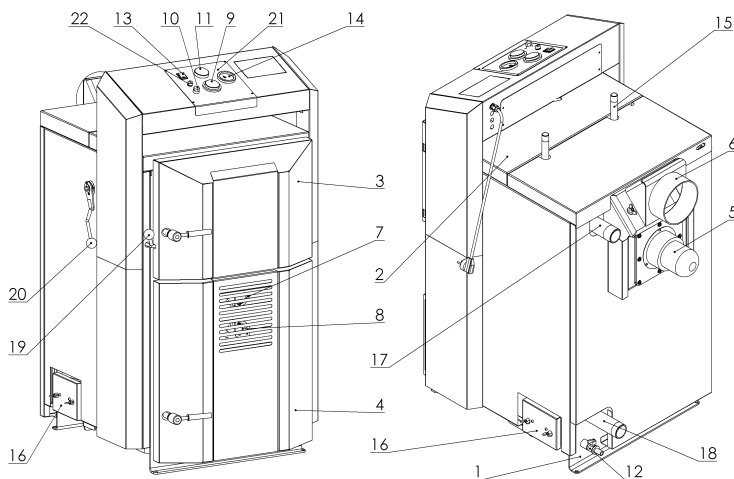
The wood gasifying boilers **ATTACK DPX** in the versions **STANDARD, PROFI, LAMBDA** and **COMBI Pellet** are intended for economical and ecological heating of dwelling houses, cottages, small plants, work rooms and similar objects. Prescribed fuels for **the ATTACK DPX boilers** are dry wood and pellets. By full utilization of the feeding chamber there is possibility of the continual burning for 8–12 hours.

BOILER ADVANTAGES

- Modern and innovative boiler design
- High efficient tubular exchanger “flue gas-water” with turbulators
- Long time approved construction, thousands of the satisfied customers
- Boiler efficiency of 86,5–91,3 %
- Wide output range of 15–100 kW
- 4 modifications – STANDARD, PROFI, LAMBDA and COMBI Pellet
- High combustion efficiency of 91 % ensured by the tubular heat exchanger with movable turbulators
- Extraordinary voluminous feeding chamber of the boiler, which ensures longer burning by one fuel load
- Burns soft and hard wood and wood briquettes

- Possibility to load big wood logs – length of the feeding chamber is 580 mm (by 25 kW and higher outputs) and enables to load the wood logs of half-meter, which saves time by chopping the wood
- Minimum of ash
- User comfort, reliability of operation, easy use and maintenance
- Suction fan for balanced and effective burning and dustless operation
- Automatic regulation of the heat-up flap, which is connected with the door of the feeding chamber
- Fluently modulated fan rotations (modification PROFI, LAMBDA)
- Automatic boiler stop when fuel burns out
- Option of the LAMBDA modification – the most advanced technology for the burning process regulation, which ensures the excellent values of emissions and efficiency
- Left and right door version
- Possibility to burn alternative fuel types like olive pits and pit crumb in the automatic burners with of 30 and 50 kW output – the COMBI Pellet modification
- Equipped with aftercooling circuit against overheating of boiler in the water
- Refractory pieces are resistant up to the temperature of 1 350 °C, which ensure better parameters of burning
- The boiler fulfils criteria of the highest class under the European norm EN303-5
- Attention: The Attack DPX 15 boiler is not equipped with turbulators and it has to be cleaned by the tools delivered.

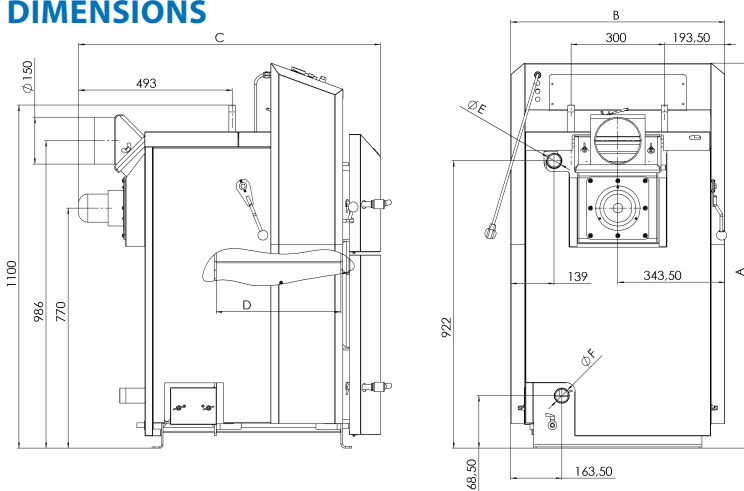
DESCRIPTION OF THE BOILER ATTACK DPX



KEY:

- | | |
|-----------------------------------|-----------------------------------|
| 1. Boiler body | 12. Inlet valve |
| 2. Front upper cover | 13. Main switch |
| 3. Feeding door | 14. Thermo-manometer |
| 4. Door of the combustion chamber | 15. Aftercooling circuit |
| 5. Suction fan | 16. Cover of the cleaning opening |
| 6. Chimney | 17. C.H. flow connection |
| 7. Primary air suction | 18. C.H. return connection |
| 8. Secondary air suction | 19. Pull rod of the chimney flap |
| 9. Boiler thermostat | 20. Lever of turbulators |
| 10. Reset of emergency thermostat | 21. Control panels |
| 11. Flue gas thermostat | 22. Electrical fuse |

DIMENSIONS





TECHNICAL PARAMETERS

A+ A+ A+ A+ A+ A+ A+ A+

Parameter	Unit	DPX15	DPX25	DPX30	DPX35	DPX40	DPX45	DPX80	DPX100
Output	kW	15	25	30	35	40	45	80	100
Heat exchange area	m ²	1,98	2,52	2,78	2,78	3,03	3,03	5,6	5,6
Volume of feeding chamber	dm ³	82	125	158	158	190	190	440	440
Dimension of feeding door	mm	235x445	235x445	235x445	235x445	235x445	235x445	292x542	292x542
Prescribed chimney draught	Pa	23	23	23	23	23	23	35	35
Max. operating overpressure of water	kPa	250							
Pressure loss on the water side (ΔT 10 K)	kPa	1,9	2,3	4,4	4,4	6,6	6,6	2,1	2,1
Pressure loss on the water side (ΔT 20 K)	kPa	0,6	0,7	1	1	1,8	1,8	0,55	0,55
Boiler weight	kg	370	430	460	460	490	490	800	800
Diameter of flue gas connection	mm	150	150	150	150	150	150	200	200
Boiler height „A“	mm	1 240	1 240	1 240	1 240	1 240	1 240	1 522	1 522
Boiler width „B“	mm	700	700	700	700	700	700	915	915
Boiler depth „C“	mm	840	1 240	1 340	1 340	1 440	1 440	1 846	1 846
Length of feeding chamber „D“	mm	400	590	690	690	790	790	1 100	1100
Grade of protection	IP	21							
El. input	W	32	38	48	54	54	78	72	72
Boiler efficiency	%	91,3	90,4	90,1	90,1	90,2	90,2	86,5	87
Boiler class by CO (under the norm EN 303-5)	-	5							
Flue gas temperature by nominal output	°C	160	165	170	180	170	180	204	205
Flue gas flow by nominal output	kg/s	0,014	0,018	0,020	0,022	0,025	0,028	0,045	0,045
Max. noise level	dB	65							
Fuel type	-	Wood logs with relative humidity of 12 % – max. 20 %, Ø 50–150 mm							
Average fuel consumption	kg/h	3,9	6,5	7,8	9,1	10,4	11,75	21,5	26,8
Approximate wood consumption per season	-	1 kW = 0,9 m ³							
Max. length of wood logs	mm	350	550	650	650	750	750	1 000	1 000
Combustion time at nominal output	hod	3							
Volume of water in the boiler	l	80	100	110	110	128	128	210	210
Recommended volume of the accumulation tank	l	800 – 1 500				1000 – 2 500			
Connection voltage	V / Hz	~230/50							
Range to set the heating water temperature	°C	65–90							

COMBINED BOILER FOR WOOD AND PELLETS

The warm water boiler **ATTACK® DPX COMBI Pellet** is a modern heat source with new construction of heat exchanger. The prescribed fuel is wood and pellets – if the automatic stainless steel burner is installed. This innovative solution brings higher comfort thanks to the automatic pellet burner, which is simply installed in the boiler, and the advantage of the cheapest heat energy gained from wood in the wood gasifying boiler.

By installation of the burner into the steel body of the boiler **ATTACK® DPX** you get the combined boiler for solid fuel and pellets with adjustable output, automatic grate cleaning, automatic start and termination of the burning process.

The boiler is controlled by the **PROFI „PID“** regulator and burner electronics. It is possible to choose the burner of 8–30 kW or 15–50 kW output.

BOILER ADVANTAGES:

- High efficient tubular exchanger „flue gas-water“
- High efficiency of burning: 90 % – thanks to the tubular exchanger, equipped with special movable turbulators for cleaning of heat exchanger
- Extraordinary voluminous feeding chamber up to 190l, that enables longer burning by one wood load
- Option to burn pellets
- Boiler enabling operation with wood and fully automatic operation with pellets
- User comfort, reliability of operation, easy use and maintenance
- Manufactured from the special boiler steel of 6 mm to ensure long life-time
- Stainless steel burner of the highest quality with automatic cleaning
- Option of easy installation of the burner into the boiler by a movable construction and thereby – the fuel use change within 1 minute
- Decreased operating costs per season thanks to the combination of fuels
- Option of the gradual output regulation according to the burner type
- Option to re-build the already installed boiler **DPX** to the **DPX COMBI Pellet** by the set for re-building
- Fully automatic burner operation
- Compact design, easy use, information given on the LCD display
- Automatic grate cleaning, adjustable in dependence on the quality of pellets
- Automatic start and termination of the burning process by pellet combustion
- Precise measuring of flame intensity by the photocell – by the operation with pellets
- Option to set the burner output within the range of 8–30 kW or 15–50 kW, according to the type of burner
- Option to connect the external sensor into the accumulation tank
- Regulation of the burner operation by the room thermostat or thermal probe
- Option to burn wood pellets of 6 mm diameter and 35 mm length
- Option to adjust the combustion according to the fuel used
- Quality stainless steel used for combustion chamber and burner grate
- Option to connect fuel feeders of different length
- Safety elements against backward burning, 4× protection against overheating – emergency, boiler, flue gas thermostat and aftercooling circuit
- Requirement for low operating under-pressure in the combustion chamber
- Multi-lingual menu, option to adjust the wide scale of parameters



- Indication of operating modes
- Error diagnostic

ECODESIGN

BOILER MODIFICATIONS

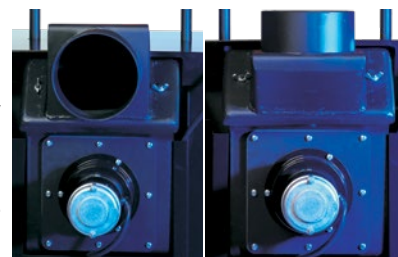
- **ATTACK DPX 25, 30, 35, 40, 45, 50 COMBI Pellet**

COMBINED BOILER ATTACK DPX 25–50 COMBI PELLETT CONTAINS:

- Wood gasifying boiler **ATTACK® DPX**,
- Burner **ATTACK PELLETT BURNER Automatic 8–30 kW** or burner **ATTACK PELLETT BURNER Automatic 15–50 kW**,
- Door **DPX** for burner,
- Movable construction (holder, arms, door)

INSTALLATION OF FLUE CONNECTION

Flue connection can be installed horizontally or vertically on the boilers **SLX** and **DPX**. This is possible by turning the flange by 180°.



ATTACK PELLET BURNER

ATTACK® PELLET BURNER Automatic are fully automatic stainless steel burners for wood pellets with option to set the output within the **range of 8–30 kW** and **15–50 kW**, automatic grate cleaning, automatic ignition, controlled start and regulated burning process.

BURNER ADVANTAGES

- Fully automatic burner operation
- Compact design, easy control, information on LCD display
- Automatic grate cleaning, adjustable in dependence on quality of the pellets used
- Automatic start and termination of the burning process
- Precise measuring of flame intensity by photocell
- Option to set output within the range of 8–30 kW or 15–50 kW
- Option to connect external sensor into accumulation tank
- Burner operation controlled by room thermostat or thermal probe
- High combustion efficiency and low operating emissions
- Possibility to burn wood pellets with diameter of 6 mm and length of 35 mm
- Option to regulate combustion according to the fuel used
- Quality stainless steel of combustion chamber and burner grate
- Option to connect fuel feeders of different lengths
- Safety elements against backward burning, 4× protection against overheating – emergency, boiler, flue gas thermostat and aftercooling circuit
- Requirement for low operating under-pressure in combustion chamber
- Multilingual menu, option to set wide scale of parameters
- Displaying operating modes
- Error diagnostics

DESCRIPTION

Stainless steel burner **ATTACK®** works on principle of fuel -pellet falling from fuel feeder through supply hose and pipe on the grate to be combusted.

Burner works under fully automatic mode, from evaluation of heat supply need, fuel supply, electrical ignition, burning-up, burning, shutting-down, burning-out, cleaning and switching to the emergency regime.

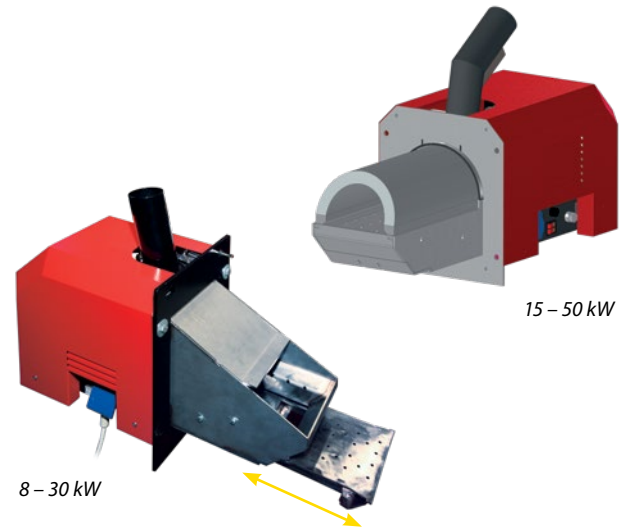
ATTACK PELLET BURNER Automatic 8–30 kW – output range of **14–30 kW** is set from production. There are three levels of output: 1. (14 kW), 2. (22 kW) and 3. (30 kW). Output range of three levels: 8–12 kW, 14–30 kW can be set in the advanced menu.

ATTACK PELLET BURNER Automatic 15–50 kW – output range of **15–50 kW**. There are three levels of output: 1. (15 kW), 2. (32 kW) and 3. (50 kW). Output range of both burners can be set in steps of 2 kW.

The burner is cleaned automatically – after every burn out or in particular time intervals, set by the user. The grate is cleaned by automatic movement towards the scraper. Dirts like ash and eschars fall out of the opening of the grate.

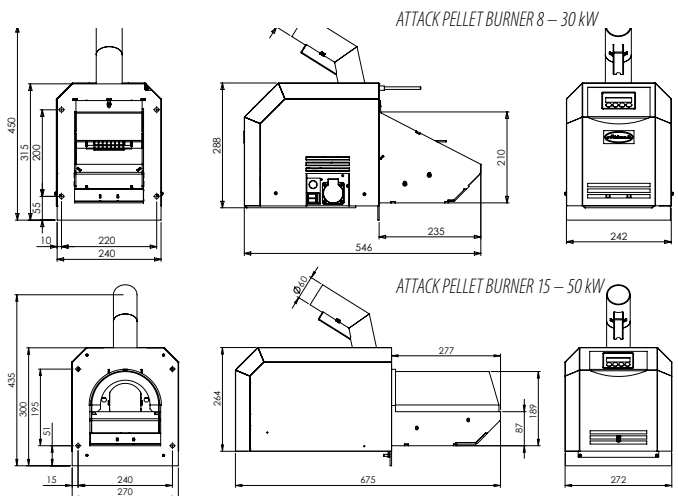
Burner body, grate, tinplate of lighter and scraper are made from high quality refractory stainless steel.

FUEL



The burner is intended and certified for combustion of wood pellets with diameter of **6 mm** and length of **35 mm**. After feeder exchange it burns different fruit pits and milled olive pits up to the max. size of peach pits. Eventual conversions have to be consulted with producer.

DIMENSIONS



TECHNICAL PARAMETERS

Parameter	PELH30A	PELH50A
Prescribed fuel	wood pellets \varnothing 6 mm, l = 35 mm max.	
Mode	8 – 12 kW, 14 – 30 kW	15 – 50 kW
Output scale	8–30 kW, scaled by 2 kW	115–50 kW, scaled by 2 kW
Connection voltage	~ 230 V / 50 Hz	
Electrical fuse	10 A	
Weight	22 kg	33 kg

TABLE OF ACCESSORY ITEMS

Items
Pellet feeder 2,5 m (with eventual preparation of own length)
Pellet tank 500 l

THE WOOD GASIFYING BOILER

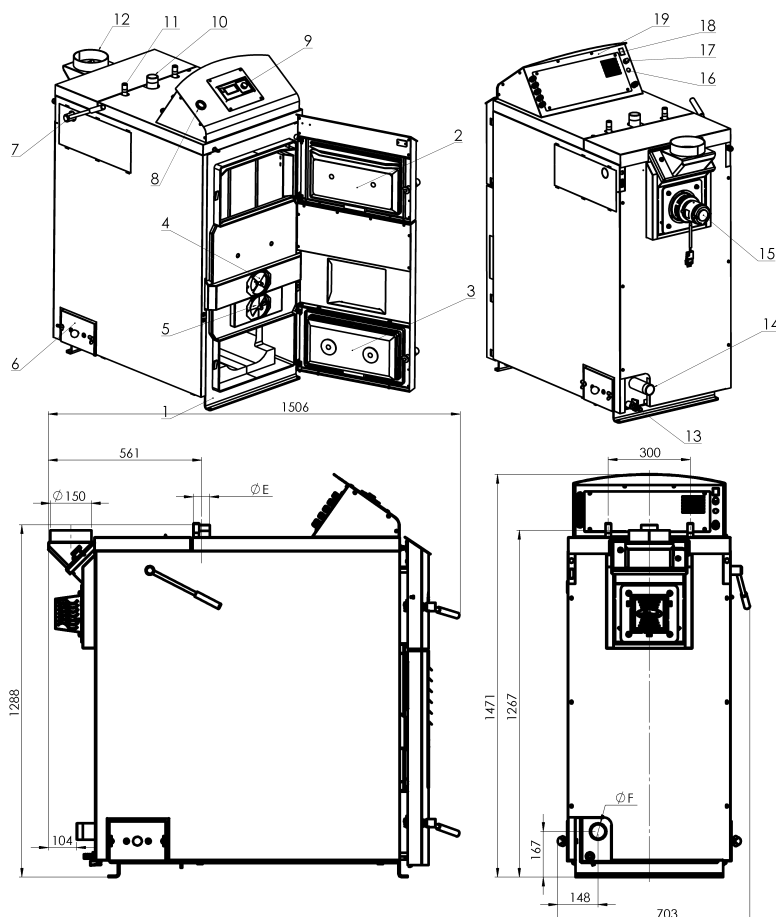
The wood gasifying boilers **ATTACK® SLX** in the versions **PROFI** and **LAMBDA Touch** are intended for economical and ecological heating of dwelling houses, cottages, small plants, work rooms and similar objects. Prescribed fuels for **ATTACK® SLX** boilers are dry wood and pellets. By full utilization of the feeding chamber there is possibility of the continual burning for 8–12 hours.

BOILER ADVANTAGES

- Modern and innovative boiler design of ecological boiler
- High efficient tubular exchanger "flue gas-water" with turbulators
- Boiler efficiency of 90,3–91,8 %
- Wide output range of 20–55 kW
- 2 modifications – PROFI and LAMBDA Touch
- High combustion efficiency of 91,8 % ensured by the tubular heat exchanger with movable turbulators
- Long time approved construction, thousands of the satisfied customers
- Heat exchanger cleaning by turbulators, by moving the lever, clean exchanger = high efficiency = lower operating costs, fuel saving
- The volume of the boiler's feeding chamber is unique: 200–230 l and ensures longer burning on one fuel load
- Burns soft and hard wood and wood briquettes

- Option of the dry coat placed around the whole feeding chamber – increased protection against tar creation
- Possibility to load big wood logs – length of the feeding chamber is 680 mm (by 20 kW and higher outputs) and enables to load the wood logs of half-meter, which saves time by chopping the wood
- Minimum of ash
- Better burning and lower fuel consumption
- Excellent emissions and efficiency
- Fixed position of the lever for easier cleaning
- User comfort, reliability of operation, easy use and maintenance
- Manufactured from the special boiler steel of 6 mm to ensure long life-time
- Suction fan for balanced and effective burning and dustless operation
- Automatic regulation of the heat-up flap, which is connected with the door of the feeding chamber
- Fluently modulated fan rotations
- Option of the LAMBDA touch modification – the most advanced technology for the burning process regulation, which ensures the excellent values of emissions and efficiency
- Right door version
- Automatic boiler stop after the fuel burns-out
- Equipped with aftercooling circuit against overheating of boiler in the water
- Refractory pieces are resistant up to the temperature of 1 350 °C, which ensure better parameters of burning
- The boiler fulfils criteria of the highest class under the European norm EN303-5

DESCRIPTION AND DIMENSIONS OF THE BOILER



KEY:

- | | |
|-----------------------------------|-----------------------------------|
| 1. Boiler body | 13. Drain valve |
| 2. Feeding door | 14. C.H. return connection |
| 3. Door of the combustion chamber | 15. Suction fan |
| 4. Primary air suction | 16. Electrical fuse |
| 5. Secondary air suction | 17. Reset of emergency thermostat |
| 6. Cover of the cleaning opening | 18. Main switch of lambda |
| 7. Lever of turbulators | 19. Control panel |
| 8. Thermo-manometer | |
| 9. Boiler thermostat | |
| 10. C.H. flow connection | |
| 11. Aftercooling circuit | |
| 12. Rotatable Chimney | |





TECHNICAL PARAMETERS

Parameter		A+		A+		A+		A+		A+		A+	
		SLX20	SLX25	SLX30	SLX35	SLX40	SLX45	SLX50	SLX55				
Nominal output of the boiler	kW	20	25	30	35	40	45	50	55				
Output range	kW	10 – 20	12,5 – 25	15 – 30	17,5 – 35	20 – 40	22,5 – 45	25 – 50	27,5 – 55				
Area of the exchanger	m ²	2,95				3,32							
Volume of the feeding chamber	dm ³	200				230							
Dimensions of the feeding hole	mm	235x445											
Prescribed chimney draught	Pa	23											
Prescribed chimney draught	mbar	0,23											
Max. working overpressure of the water	kPa	250											
Pressure loss of the water (ΔT 10K)	kPa	1,9	2,1	2,4	2,7	3,9	4,5	5,2	6,1				
Pressure loss of the water (ΔT 20K)	kPa	0,8	0,9	1,2	1,6	1,9	2,1	2,4	3,2				
Weight of the boiler	kg	570				650							
Diameter of the flue gas outlet	mm	150											
Height of the boiler	mm	1 472											
Width of the boiler	mm	703											
Depth of the boiler	mm	1 337				1 506							
Depth of the feeding chamber	mm	690											
Diameter of the riser pipe "E"	"	G 6/4"				G 2"							
Diameter of the reverse "F"	"	G 6/4"				G 2"							
Protection class	IP	21											
Electrical input at the nominal output	W	42				78							
Electrical input at the minimal output	W	31				52							
Electrical input at the standby mode	W	< 15											
Boiler efficiency	%	91,8	91,6	90,3	90,3	90,4	90,4	90,3	90,3				
Boiler class	—	5											
Temperature of the flue gas by the nominal output	°C	165	170	175	180	165	170	170	180				
Temperature of the flue gas by the minimal output	°C	130	135	140	145	135	140	140	145				
Mass flow of the flue gas by the nominal output	kg/s	0,018	0,02	0,021	0,023	0,027	0,029	0,031	0,033				
Mass flow of the flue gas by the minimal output	kg/s	0,008	0,011	0,014	0,016	0,017	0,021	0,022	0,023				
Max. noise level	dB	65											
Class and type of the fuel	—	A, Wood logs with relative humidity of 12 % – max. 20 %, Ø 50 – 150 mm											
Average wood consumption	kg/h	5,2	6,5	7,8	9,1	10,4	11,7	13	14,3				
Indicative consumption of the wood per season	—	1 kW = 1 m ³											
Max. length of logs	mm	650				750							
Time of burning by nominal output *	h	8	7,2	6,5	5,8	6	5,1	4,6	4				
Volume of the water in the boiler	l	117				136							
Recommended volume of the accumulation tank	l	1 000 – 2 000				2 500 – 3 500							
Voltage	V/Hz	~230/50											
Range of the setting the temperature of the heating water	°C	65 ÷ 85											
Capacity of the contacts of the boiler regulator (PROFI version)	—	2 A/ ~230 V											

* Dependent on type of fuel and the perfection of feeding the chamber by wood.

COMBINED BOILER FOR WOOD AND PELLETS

Hot-water boiler for wood and pellets **ATTACK SLX COMBI Pellet** is modern heat source with innovative construction with prescribed fuel of wood, briquettes with the whole in the middle and wooden pellets. It is a universal solution providing high comfort thanks to a fully automatic pellet burner which is easily built into the boiler and thus combines the advantage of the cheapest thermal energy produced from wood in a wood-gasifying boiler with simple and comfortable control of the pellet boiler.

The boiler is equipped with a modern burner with the possibility of setting the output with automatic grate cleaning, automatic start and end of the combustion process which is inserted into the SLX steel body thus creating a combined boiler for solid fuel and pellets.

The boiler control consists of a **PROFI „PID“** controller and electronics of the burner.

BOILER ADVANTAGES

- *The boiler enables operation of wood and fully automatic operation of pellets*
- *Possibility of burning wood and pellets*
- *Simple change of fuel through easy installation of the burner in the boiler using a pantograph.*
- *High-efficiency tube heat exchanger*
- *High combustion efficiency up to 91.6%*
- *Large feeding chamber up to 200 l which enables longer burning by one wood load*
- *Customer comfort, operational reliability and easy operation and maintenance*
- *Made of special boiler steel 6 mm thick to ensure long life-time*
- *The boiler is equipped with a stainless steel burner of the highest quality with automatic cleaning*
- *Decreased operating costs per season thanks to the combination of fuels*
- *Possibility of step modulation of burner output according to burner type*
- *Fully automatic burner operation*
- *Compact design, easy use, information given on the LCD display*
- *Automatic grate cleaning, adjustable in dependence on the quality of pellets*
- *Automatic start and termination of the burning process by pellet combustion*
- *Precise measuring of flame intensity by the photocell – by the operation with pellets*
- *Option to set the burner output within the range of 8–30 kW*
- *Option to connect the external sensor into the accumulation tank*
- *Regulation of the burner operation by the room thermostat or thermal probe*
- *Option to burn wood pellets of 6 mm diameter and 35 mm length*
- *Option to adjust the combustion according to the fuel used*
- *Quality stainless steel used for combustion chamber and burner grate*
- *Multi-lingual menu, option to adjust the wide scale of parameters*



- *Aftercooling circuit*
- *Display of operating states*
- *Fault diagnosis*
- *Dry coat placed on four sides of the entire loading chamber - increased protection against tarring of the chamber*
- *Possibility to add large pieces of wood - the length of the chamber is 680 mm (from 20 kW) which saves the customer time by cutting wood*

BOILER MODIFICATIONS

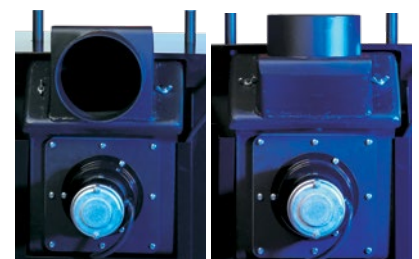
- **ATTACK SLX 20 COMBI Pellet**
- **ATTACK SLX 25 COMBI Pellet**
- **ATTACK SLX 30 COMBI Pellet**
- **ATTACK SLX 35 COMBI Pellet**

COMBINED BOILER ATTACK SLX 25 COMBI PELLETT CONTAINS:

- **Wood-gasifying boiler ATTACK SLX PROFII**
- **Burner ATTACK PELLETT BURNER Automatic 8 – 30 kW**
- **Door SLX for burner, pantograph set (console, arms and door)**

INSTALLATION OF SMOKE FLUE

The smoke flue for SLX, DPX, DPX COMBI Pellet and SLX COMBI Pellet boilers can be oriented horizontally or vertically by turning the flange 180 °.



ATTACK PELLET BURNER

ATTACK® PELLET BURNER Automatic are fully automatic stainless steel burners for wood pellets with option to set the output within the range of **8–30 kW**, automatic grate cleaning, automatic ignition, controlled start and regulated burning process. The burner is designed for boilers 20SLXP, 25SLXP, 30SLXP, 35SLXP.

BURNER ADVANTAGES

- Fully automatic burner operation
- Compact design, easy control, information on LCD display
- Automatic grate cleaning, adjustable in dependence on quality of the pellets used
- Automatic start and termination of the burning process
- Precise measuring of flame intensity by photocell
- Option to set output within the range of 8–30 kW or 15–50 kW
- Option to connect external sensor into accumulation tank
- Burner operation controlled by room thermostat or thermal probe
- High combustion efficiency and low operating emissions
- Possibility to burn wood pellets with diameter of 6 mm and length of 35 mm
- Option to regulate combustion according to the fuel used
- Quality stainless steel of combustion chamber and burner grate
- Option to connect fuel feeders of different lengths
- Safety elements against backward burning, 4× protection against overheating – emergency, boiler, flue gas thermostat and aftercooling circuit
- Requirement for low operating under-pressure in combustion chamber
- Multilingual menu, option to set wide scale of parameters
- Displaying operating modes
- Error diagnostics

DESCRIPTION

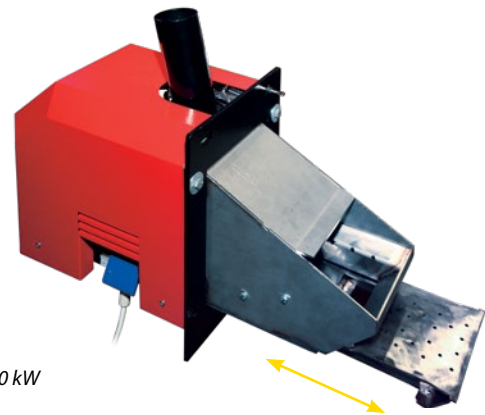
Stainless steel burner **ATTACK®** works on principle of fuel -pellet falling from fuel feeder through supply hose and pipe on the grate to be combusted.

Burner works under fully automatic mode, from evaluation of heat supply need, fuel supply, electrical ignition, burning-up, burning, shutting-down, burning-out, cleaning and switching to the emergency regime.

ATTACK PELLET BURNER Automatic 8–30 kW – output range of **14–30 kW** is set from production. There are three levels of output: 1. (14 kW), 2. (22 kW) and 3. (30 kW). Output range of three levels: 8–12 kW, 14–30 kW can be set in the advanced menu.

The burner is cleaned automatically – after every burn out or in particular time intervals, set by the user. The grate is cleaned by automatic movement towards the scraper. Dirts like ash and eschars fall out of the opening of the grate.

Burner body, grate, tinfoil of lighter and scraper are made from high quality refractory stainless steel.

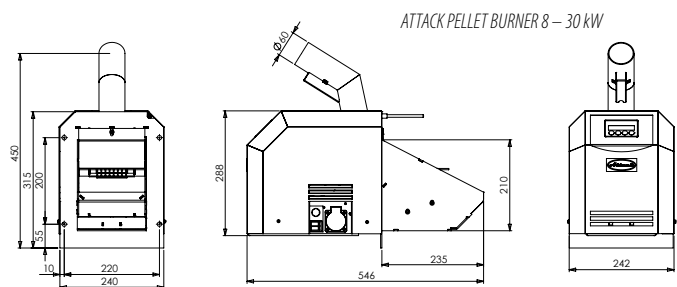


8 – 30 kW

FUEL

The burner is intended and certified for combustion of wood pellets with diameter of **6 mm** and length of **35 mm**. After feeder exchange it burns different fruit pits and milled olive pits up to the max. size of peach pits. Eventual conversions have to be consulted with producer.

DIMENSIONS



TECHNICAL PARAMETERS

Parameter	PELH30ACP
Prescribed fuel	wood pellets Ø 6 mm, l = 35 mm max.
Mode	8 – 12 kW, 14 – 30 kW
Output scale	8 – 30 kW, scaled by 2 kW
Connection voltage	~ 230 V / 50 Hz
Electrical fuse	10 A
Weight	22 kg

TABLE OF ACCESSORY ITEMS

Items
Pellet feeder 2,5 m (with eventual preparation of own length)
Pellet tank 500 l

VERSIONS OF BOILER REGULATION ATTACK, SLX, DPX

Gasification boilers the ATTACK® are equipped with three types of regulation: **STANDARD**, **PROFI** and **LAMBDA Touch**.

ATTACK DPX STANDARD

The easiest way of regulation for efficient applications. The management lies in the management of the boiler temperature using the boiler thermostat, and turning off the fan after burning out of fuel, by flue gas thermostat. This regulator is recommended everywhere, where objects are not regularly heated such as cottages and the like. A suitable solution for simpler systems in terms of regulation in connection with accumulation tanks. A good option is with use of upgrade **regulator ATTACK Regumax**, where most of the control takes over the controller and from the boiler is only required the simplest version of control.

THE MAIN ADVANTAGES OF CONTROL:

- **Simplicity**
- **Suitable for simple applications**

ATTACK DPX – STANDARD



DESCRIPTION:

1. **Reset** – of the boiler against overheating (after reaching a higher temperature then 110 °C the boiler is cutoff from the electric network)
2. **Fuse** – protection of the boiler against the electric short circuit
3. **Main power switch** – turn on the boiler and if necessary allows you to disable the whole boiler
4. **Flue gas thermostat** – the decrease of the gas temperature under the value set is turned off the fan
5. **Boilers Thermostat** – serves for setting the desired water temperature in the boiler (when exceeding the set temperature is turned off the fan the boiler works at min power and after falling below the set temperature the fan will be switched on again and the boiler works at maximum output).
6. **Termomanometer** – shows the output temperature and the current pressure of the heating water in the boiler

ATTACK SLX, DPX, PROFI

The ATTACK PROFI, generation of "PID" is the more advanced regulator suitable for everyday heating, in particular of family houses, different facilities, or other regularly heated objects. It has PID control of rotation speed of the fan, which can precisely control the temperature of the flue gas and thereby to achieve excellent efficiency. Besides the boiler itself it can also control two pumps. One is the pump of the heating circuit and second is the pump for charging the accumulation tank or the domestic hot water. It is particularly suitable for use with a storage tank, because it has in itself the integrated the logic of correct charging of the accumulation tank and its protection against the discharge of energy through the boiler. Easy operation is ensured by clear display with lots of instant information, such as boiler temperature, the temperature of the flue gas temperature in the accumulation tank. Of course there is high reliability, long service life and automatic shut down after burning out of fuel.

THE MAIN ADVANTAGES OF CONTROL:

- **Improved electronics with be fluent PID regulation of fan rotations on the basis of the temperature of flue gas**
- **Fuzzy logic – adjust the working cycle of the combustion of the wood in ideal conditions.**
- **High efficiency of the boiler and stable burning**
- **Management options including a pump for charging the accumulation tank, the pump charging domestic hot water**
- **The Possibility of management of circulating pump by thermostat.**
- **Clear screen showing the operation of the individual elements**

ATTACK SLX, DPX - PROFI



DESCRIPTION:

1. **0/1** – main switch of electronics
2. **OK** – button to confirm the parameters in menu
3. **STOP** – button to turn off the boiler and moving in the menu
4. **START** – button to start the boiler and moving in the menu of the fan
5. **Fan** – an icon showing the operation of the fan
6. **Water tap** – the icon showing the operation of the pump charging the hot domestic service water, or charging of the accumulation tank
7. **Pump** – an icon showing the operation of the circulating pump of heating circuits
8. **Key** – an icon showing the entry into the menu settings
9. **Warning triangle** – icon display the notification on the hazardous condition
10. **Thermostat**
11. **Digits** – the current boiler temperature

ATTACK SLX LAMBDA Touch



Has all the benefits of a controller ATTACK the LAMBDA moreover it is additionally equipped with a XY" inch screen clearly showing the necessary information. This regulator has a good connectivity to the internet thereby it is possible to manage and check the status of boiler boiler remotely, for example from a PC or Smartphone. Big advantage is also the possibility to update the version of the software thereby it is possible years after purchasing of the boiler to update the software of the boiler according to the latest trends from the field of combustion of wood. ATTACK Lambda Touch can in addition manage also automatic cleaning of the pipes of the heat exchanger by powerful engine which significantly simplifies its operation. The regulator in addition to the boiler allows charging the accumulation tank by the pump and after the purchase of additional modules may also control 2 mixing circuits, domestic hot water tank, solar panels or with on automatic boiler after use of the heat from the storage tank.

MAIN BENEFITS OF CONTROL:

- *Electronics with transparent touch screen*
- *Perfect control of the combustion process by the lambda probe*
- *Fluent performance regulation and gas temperature*
- *Rapid initiation of burning, the long time of keeping hot coal for the next initiation of the burning*
- *Protection against the draining of the accumulation tank*
- *Automatic cleaning of the pipes of the heat exchanger using a robust engine*
- *Possibility of controlling via internet and Smartphone*
- *Possibility of extension with add-on modules and the control of HOT water, MIX1, MIX2, solar, and etc.*

ATTACK SLX – LAMBDA TOUCH



DESCRIPTION:

1. Start / switch off the boiler
2. Temperature of the boiler
3. Temperature of flue gas
4. Parameters
5. Settings of the boiler
6. Record of failures
7. Information menu
8. USB Connector

BOILERS FOR BIOMASS BURNING

Modern wood pellet burning boilers **ATTACK® PELLET 30 AUTOMATIC Plus** save environment by their perfect combustion. Their user enjoys comfort comparable to gas burning. They are intended for heating of dwelling houses, cottages, small plants, workrooms and similar objects.

BOILER ADVANTAGES:

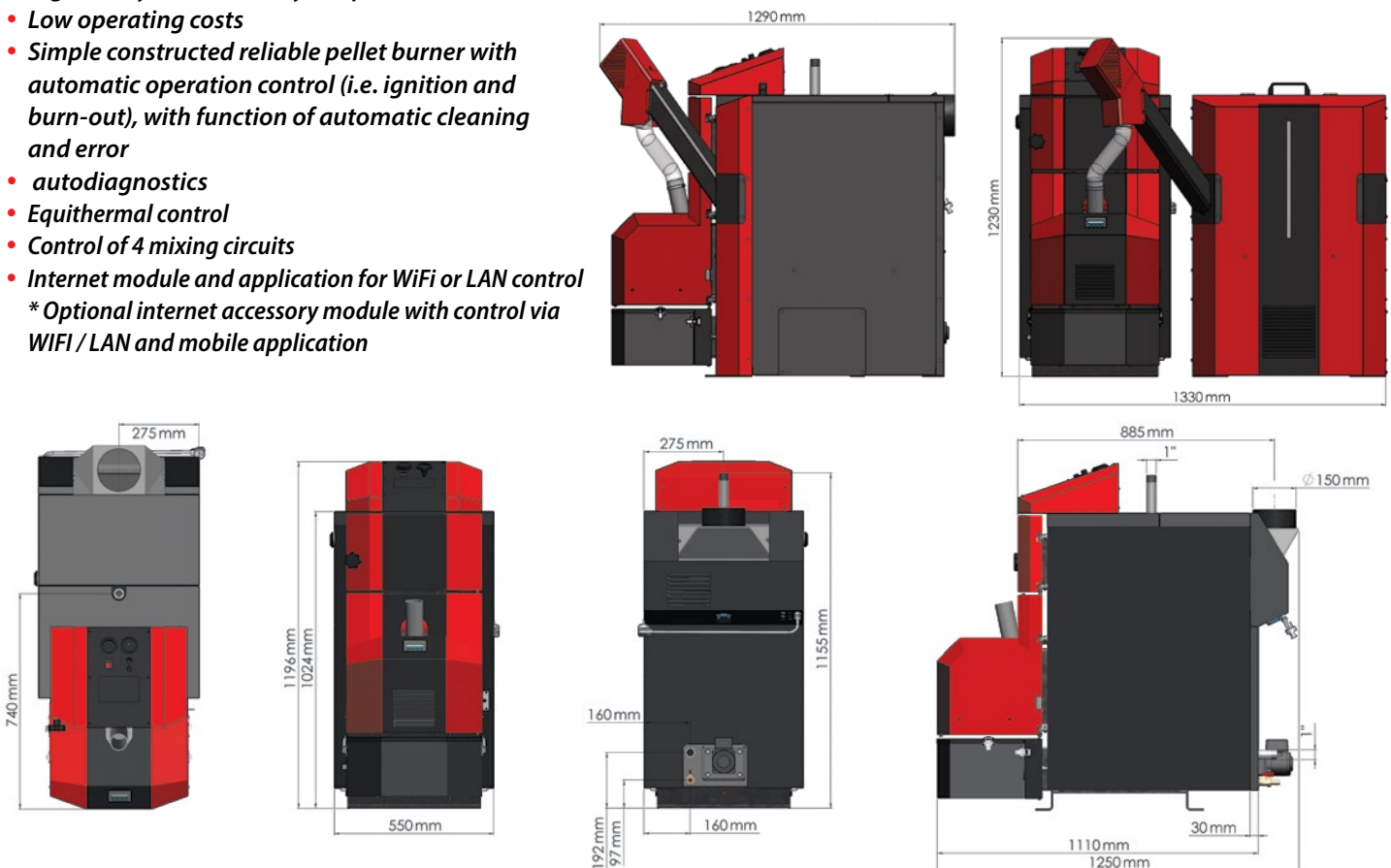
- *Clear fully graphic 4.5 "touch screen*
- *Night attenuation*
- *DHW tank heating control with automatic, regular disinfection (removal of Legionella bacterial flora)*
- *Automatic exchanger cleaning*
- *Automatic ash removing*
- *Automatic operation of the boiler controlled by a room thermostat guaranteeing high operator comfort*
- *High combustion efficiency - low fuel consumption*
- *High-efficiency tube heat exchanger equipped with spiral turbulators, which ensure better heat transfer in the heat exchanger, higher boiler efficiency, while also serving for its cleaning*
- *Stainless steel burner ATTACK*
- *Easy operation and simple cleaning*
- *Automatic fuel supply*
- *Quality boiler steel of 6 mm thickness used for boiler manufacturing*
- *High safety and reliability of operation*
- *Low operating costs*
- *Simple constructed reliable pellet burner with automatic operation control (i.e. ignition and burn-out), with function of automatic cleaning and error*
- *autodiagnosics*
- *Equithermal control*
- *Control of 4 mixing circuits*
- *Internet module and application for WiFi or LAN control*
- * *Optional internet accessory module with control via WIFI / LAN and mobile application*

TECHNICAL PARAMETERS



Parameter	Unit	PELLET 30 AUTOMATIC Plus
Nominal output	kW	30
Range of output setting	kW	8 – 30
Heat exchange area	m ²	1,9
Prescribed chimney draught	Pa	15 – 20
Max. operating overpressure of heat. water	kPa	250
Pressure loss of water	Pa	152 (ΔT = 10K), 38 (ΔT = 20K)
Boiler weight	kg	355
Diameter of flue exhaust	mm	150
Boiler height	mm	1 220
Boiler width	mm	575
Boiler depth	mm	1 250
Protection of el. parts	IP	IP 40
Max. el. input (by ignition)	W	600
Operating el. input	W	90
Boiler efficiency	%	90,6
Boiler class (under the EN 303-5)	–	5
Flue gas temperature by nominal output	°C	143
Prescribed fuel	–	wood pellets Ø = 6 mm, l = 35 mm max.
Average fuel	kg/h	2,4 – 6,9
Volume of water in boiler	l	62
Range of temperature setting of heat. water	°C	60 – 90
Connection voltage	V/Hz	~230/50

DIMENSIONS





CHARACTERISTIC OF THE BOILERS ATTACK PELLETT 30

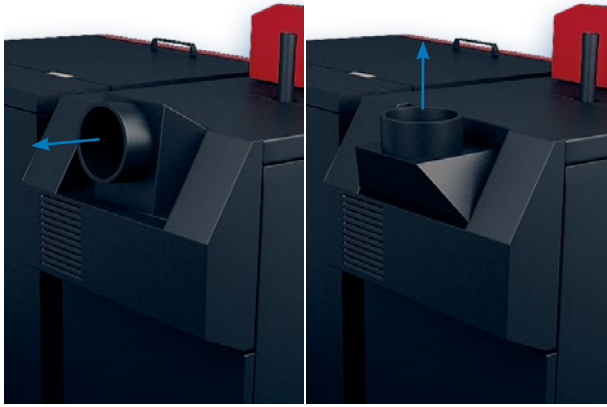
The boilers for wood pellets with regulated output of 8–30 kW are intended for heating of dwelling houses and industrial premises. They can be accessorized with an **electrical heating device** of 2,4–6 kW output, equipped with own operation and emergency thermostat.

Basic part of the boiler is a water cooled boiler body. Welded piece of the body is made from special boiler steel plates of 4–6 mm thickness, which **guarantees long lifetime** of the boiler. Exchanger is tubular, with turbulators improving heat transfer into the heating water and enabling exchanger cleaning to ensure balanced efficiency.

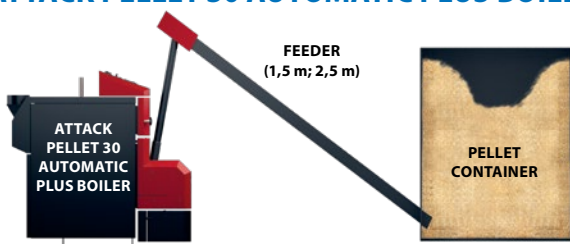
Fuel is burned in the stainless steel burner, intended for combustion of the wood pellets. **Fuel is automatically ignited by electrical spiral, built into the burner.** Optimal burning conditions and output regulation are provided by **electronically controlled fuel feeding** and air inlet, following the parameters of heating and d.h.w. warming, required and set by the user. Burner, combustion chamber and exchanger are constructed to ensure optimal burning of all combustible materials. Boiler body is isolated with mineral wool, design is completed with powder-treated coating.

The ATTACK Pellet Automatic Plus boiler is equipped with system for **automatic cleaning of tubular boiler exchanger** in intervals adequate to the **automatic ash removing** into detachable box.





EXAMPLE OF CONNECTION OF THE ATTACK PELLET 30 AUTOMATIC PLUS BOILER



DESCRIPTION

The boiler consists of the combustion chamber with partitions and tubular heat exchanger. Beyond the heat exchanger, the flue gas goes into collector with chimney, that can be horizontally or vertically oriented by turning the flange for 180°C. There is a wood pellet burner built into the boiler body.

The boiler is equipped with spiral fuel feeder (1,5 m), ensuring continual fuel dosing. The **ATTACK PELLET 30 AUTOMATIC Plus** boiler can be delivered with pellet container of 500 l volume (dimensions: 720 × 1 240 × 830 mm).

The „big-bag“ – the external textile tank can be used as an alternative.

By wood pellets combustion in the ATTACK® boiler, there is minimal ash production. Amount of ash depends on quality of pellets and represents approximately 1 % of the consumed fuel.

The **ATTACK PELLET 30 AUTOMATIC Plus** boiler is equipped with automatic system for ash removing into detachable box. Box of appropriate volume has to be emptied one time pro heating season, according to the season and intensity of boiler operation.

SMART BOILER CONTROL

The ATTACK PELLET 30 AUTOMATIC Plus pellet combustion boiler is controlled by a clear, fully graphics 4.5" touch screen on the upper covering plate of the boiler. **The new control allows to expand with an internet module * through which the boiler can be connected to WIFI or LAN and controlled using a mobile device or computer (* optional accessory).**

NEW



Touch control and change of parameters:

- Summer / winter mode
- Cleaning timer
- Operational information
- Temperature setting
- Circuits control
- Mixing circuits settings
- Wide range of additional settings
- Internet module and application for WiFi or LAN control (optional accessory)

FUEL

Recommended fuel for the ATTACK PELLET 30 AUTOMATIC Plus are wood pellets with max. humidity of **12 %**, diameter of **6 mm** and max. length of **35 mm**. Recommended ash content is **1 %**. Heat value of the prescribed fuel should be **15–17,5 MJ/kg**.



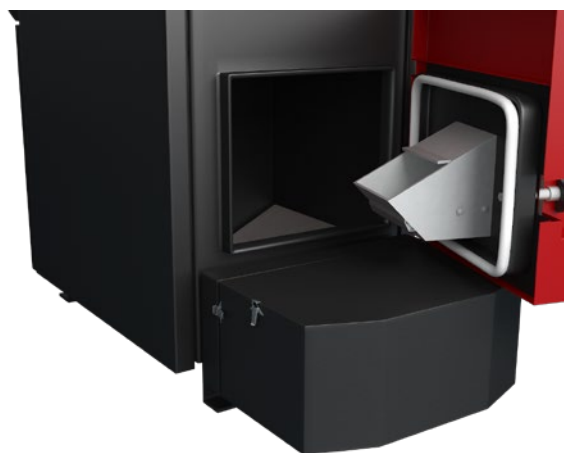
DESCRIPTION OF THE ATTACK 30 BURNER

The **ATTACK 30 stainless steel burner** is based on principle of fuel (pellet) falling – from feeder through supply hose and tube on the grate, where it is burned. Burner works under fully automatic mode, from evaluation of heat supply need, fuel supply, electrical ignition, burning-up, burning, shutting-down, burning-out, cleaning and switching to the stand-by mode.

Range of the burner's output is: 8–30 kW. Output can be set in the intervals of 2 kW. Burner's output range of 14–30 kW is set by production and divided into three levels: 1. (14 kW), 2. (22 kW) and 3. (30 kW).

Output range can be changed via the advanced menu in two levels: 8–12 kW, and 14–30 kW.

Burner is cleaned automatically – after every burning out or in particular time intervals, set by the user, the grate is cleaned by automatic movement towards the scraper. Dirts like ash and eschars fall

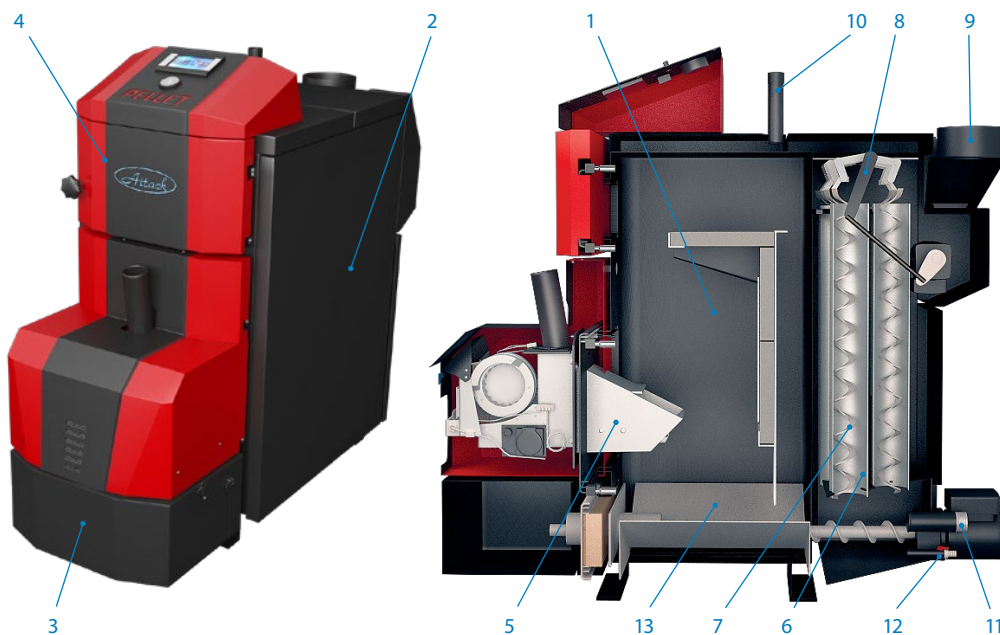


EXAMPLE OF INSTALLATION



Required dimension of the boiler room with the boiler **ATTACK PELLET 30 Automatic Plus** connected to the **500 l pellet tank** and the accumulation tank **ATTACK AS**.

DESCRIPTION OF ATTACK PELLET 30 BOILER



KEY:

- 1. Boiler body
- 2. Covering
- 3. Box for ash
- 4. Door of the inspection opening
- 5. Burner
- 6. Tubular exchanger
- 7. Turbulators
- 8. Pull rod of turbulators
- 9. Flue gas exhaust
- 10. Flow connection 1"
- 11. Return connection 1"
- 12. Drawing valve 1/2"
- 13. Ash tray

COMBINED BOILER FOR SOLID FUEL AND PELLETS



If you are looking for a boiler with low operating costs and comfort comparable with usage of a gas boiler, you have just found it. We are introducing you the ecological **combined boiler ATTACK® WOOD&PELLET, suitable for burning of several types of fuel, especially soft and hard wood, briquettes and pellets.** The boiler is intended for heating of family houses, huts, small plants, workrooms and similar objects.

BOILER ADVANTAGES

- Innovative, ecological and high efficient boiler – maximal comfort of the customer
- High combustion efficiency: 90,5 % (wood) – 90,4 % (pellets)
- Modern electronics with the Lambda probe
- Graphical and well-readable touch display
- Automatic cleaning of turbulators and pellet chamber
- By the wood burning at full output, there is a continuous period of burning for 6 hours
- Automatic change from the operation with wood to the operation with pellets – flexible fuel selection
- Very low operating costs
- High quality components – verified quality
- Long life
- Multi-level safety concept – pleasant feeling of safety
- Big volume of the feeding chamber

TECHNICAL PARAMETERS

Parameter	ATTACK WOOD&PELLET	A+
Output range by wood	12,5 – 25 kW	
Output range by pellets	9 – 30 kW	
Volume of feeding chamber	160 l	
Width x height x depth	951x1 604x1 207 mm	
Boiler width without covering	760 mm	
Efficiency	90,5 % by wood, 90,4 % by pellets	
Max. length of wood logs	560 mm	
Flue gas temperature	150 °C	
Prescribed chimney draught	25 Pa	
Boiler weight	840 kg	

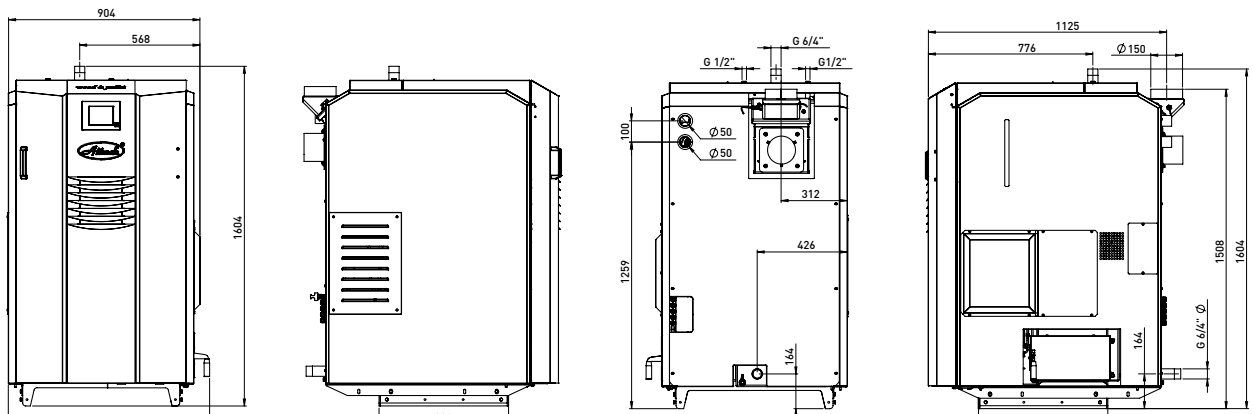


CHARACTERISTICS

The **ATTACK WOOD&PELLET** boiler is equipped with the flue gas fan and the horizontal flue exhaust from the feeding chamber. After opening the door of the chamber, the flue gas is taken into the chimney to ensure clean and dustless environment in the boiler room. **It is only necessary to fully load the chamber and to light the space by the middle door – heating up can be done within 10 minutes, without any smoke. High precision of the combustion process is ensured by the modern electronics with the Lambda probe,** which enables regulation of the boiler output and setting of many useful parameters.

Combustion of pellets is ensured by the **burner made from the best quality refractory steel. Burner operation is fully automatic.** Boiler body is welded from the high quality **boiler steel of 6 mm thickness,** ensuring long life. Furthermore, the most strained **nozzle is treated by a special refractory cast iron, prolonging the boiler's life,** because it is resistant to scoring. Boiler cleaning is very easy. **Turbulators and pellet combustion chamber are cleaned automatically.** Boiler electronics can be supplemented with the additional modules, enabling control of accumulation tank, mixing circuits, D.H.W. storage tank, solar panels and other heat sources. Boiler state can be also controlled via the LAN internet connection.

DIMENSIONS





BOILER SAFETY

The boiler is equipped with the integrated aftercooling circuit, connected to the cold water and ensuring the safe cooling down of the boiler in the case of its overheating. The emergency thermostat is the next safety element. In the case of overheating, it stops electrical power supply into the all electrical parts of boiler, except of the pump to cool the boiler down as soon as possible.

If the boiler gets overheated, the electronics warns the user by a sound signal. If the boiler works under the pellet mode, it is able to lock the main door by the electrical lock, not to leave the door imperfectly closed or partly open. The boiler has a double protection against the backward burning – the high efficient turnstile feeder and the self-extinguishing hose.

HIGH EFFICIENT COMBUSTION

The boiler achieves particularly high efficiency, exceeding 90,5 % by wood and 90,4 % by pellet combustion.

DESCRIPTION OF THE BURNER

The burner is fully automatic, accessorized with the reliable system for pellet ignition, advanced combustion regulation, modulation, precise control of the flame, high efficient automatic cleaning, control of fan rotations and protection against overheating. The burner is separated from the feeding and combustion chamber for wood gasification by its own combustion chamber. Thereby it is minimally thermally strained, when it is out of order. If it is necessary to clean the burner, it can be easily shifted out of the combustion chamber on a pantograph, enabling easy manipulation.

FUEL

In the wood gasifying part of the ATTACK WOOD&PELLET it is possible to burn the soft and hard wood with relative humidity of 12–20 % and max. length of 560 mm. To burn the wood briquettes together with the wood it is necessary to keep the appropriate ratio. The ATTACK WOOD&PELLET stainless steel burner is intended for combustion of the wood pellets with diameter of 6 mm, length up to 35 mm and max. humidity of 12 %.



BOILER ELECTRONICS

- Option to select the modes: Wood, Combi, Testmode
- Automatic pellet burner start after the wood is burned-out in the feeding chamber, under the Combi mode
- Wood is lighted manually or automatically by the burner – immediately or with time delay
- Precise burning control by the Lambda probe
- Reliable control of the flame by the photocell
- Colour touch display of 7"
- Option to update the boiler's regulation anytime with the newest software – easily by the USB key
- Option to start, watch, control and stop the boiler via the internet
- Time programs of the boiler operation
- Option of control by the external thermostat
- Option to add the external modules to control accumulation tank, heating circuits including the floor heating, D.H.W. circuit, solar circuit and switching the other automatic boiler
- Record of the error messages

ACCESSORY FOR THE BOILER

There is an optional accessory for the ATTACK WOOD&PELLET boiler that can be purchased and installed anytime when it is necessary – the pellet tank called ATTACK PEL5000 WP. Volume of this tank is 500 l and it can be installed near the boiler or up to the distance of 10 m, even in the another room. Pellets are supplied by the vacuum motor built into the ATTACK WOOD&PELLET boiler through hoses (available to be purchased separately). The cyclonic separator delivered together with the ATTACK WOOD&PELLET boiler is able to separate fine dust particles from pellets and thereby it keeps the environment in the boiler cleaner.

ACCUMULATION TANKS ATTACK®

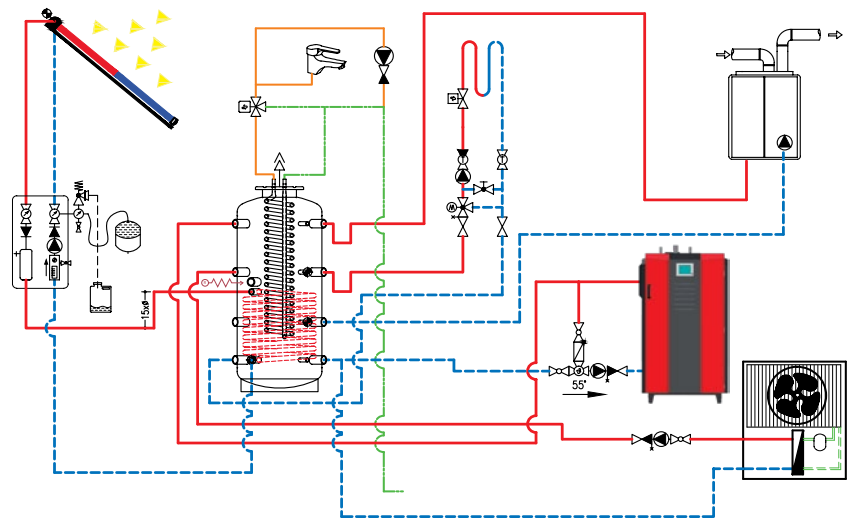
The **ATTACK, s.r.o.** company is the largest manufacturer of the accumulation tanks in Slovakia with the widest offer of these items.

ACCUMULATION TANKS ATTACK AK, ATTACK AS

The accumulation tanks **ATTACK AK, AS** made from the quality steel serve for accumulation and subsequent distribution of the heat energy from the biomass boiler (e.g. **SLX, DPX, DP, PELLET 30 AUTOMATIC Plus, WOOD&PELLET**). The **ATTACK AS** model is accessorized with an extra exchanger to be connected to the solar system.

ATTACK AK: 9× socket G 1 ½", 4× socket G ½"

ATTACK AS: 9× socket G 1 ½", 4× socket G ½", 2× socket G 1" – solar circuit.

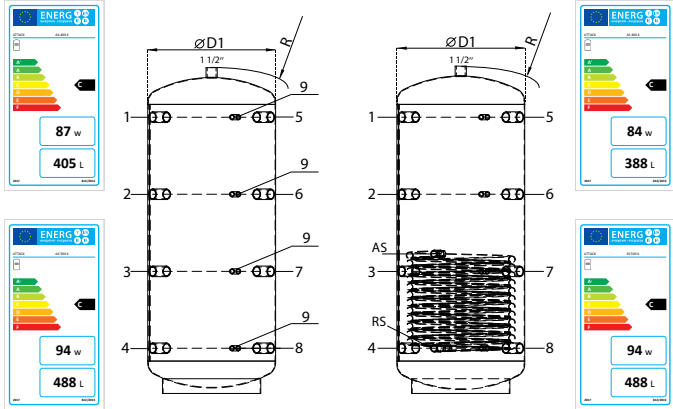
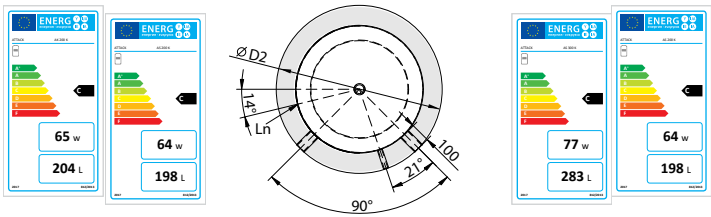


ADVANTAGES OF INSTALLATION WITH THE ACCUMULATION TANKS:

- *Equalisation of an unequal boiler output and higher comfort*
- *Lower fuel consumption – boiler works at full output, i.e. with optimal efficiency*
- *Higher comfort of operation*
- *Long life of the boiler and chimney – minimum production of tars and acids at full output*
- *Option to combine with another means of heating (accumulation electricity, solar devices)*
- *Option to combine radiators with underfloor heating*

TECHNICAL PARAMETERS – TYPE ATTACK AK, ATTACK AS

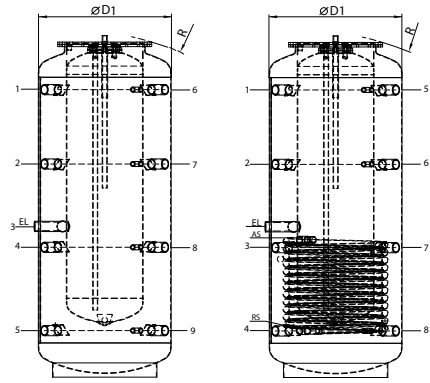
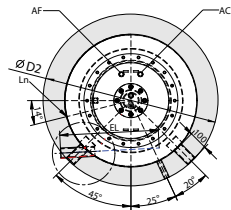
Typ	Tank							Solar exchanger							Tank					
	Position 1–5	Position 2–6	Position 3–7	Position 4–8	Position RS	Position AS	L – max. length of the electric heating body	Ø D1 – Diameter without insulation	Ø D2 – Diameter with insulation of 100 mm	Height	Height with insulation of 100 mm	R – Slope dimension without insulation	Max. operating pressure (bar)	Max. operating temperature (°C)	Area of exchanger (m ²)	Volume of exchanger (l)	Max. operating pressure (bar)	Max. operating temperature (°C)	Volume (l)	Weight (kg)
AK200K	925	705	455	205	-	-	550	500	700	1140	1190	1157	3	95	-	-	-	-	204	46
AK300K	1110	790	460	210	-	-	600	550	750	1350	1400	1368	3	95	-	-	-	-	289	60
AK400K	1120	815	515	210	-	-	700	650	850	1380	1430	1402	3	95	-	-	-	-	405	73
AK500K	1405	1013	621	230	-	-	700	650	850	1660	1710	1678	3	95	-	-	-	-	488	81
AK800K	1545	1135	725	315	-	-	840	790	990	1840	1890	1864	3	95	-	-	-	-	732	109
AK1000K	1735	1255	775	295	-	-	840	790	990	2030	2080	2052	3	95	-	-	-	-	915	118
AK1500K	1755	1345	820	375	-	-	1050	1000	1200	2095	2145	2142	3	95	-	-	-	-	1449	201
AK2000K	1955	1409	862	315	-	-	1150	1100	1300	2310	2360	2353	3	95	-	-	-	-	1980	235
AK2500K	2005	1465	915	375	-	-	1250	1200	1400	2387	2437	2438	3	95	-	-	-	-	2435	271
AK3000K	2205	1600	985	375	-	-	1300	1250	1450	2596	2646	2643	3	95	-	-	-	-	2915	363
AK4000K	2385	1730	1065	405	-	-	1450	1400	1600	2819	2869	2872	3	95	-	-	-	-	3819	475
AK5000K	2285	1680	1065	455	-	-	1650	1600	1800	2770	2820	2845	3	95	-	-	-	-	4940	578
AS500K	1405	1013	621	230	230	710	700	650	850	1660	1710	1678	3	95	1,8	11,9	10	105	474	118
AS800K	1545	1135	725	315	315	725	840	790	990	1840	1890	1864	3	95	2,4	15,9	10	105	713	157
AS1000K	1735	1255	775	295	295	860	840	790	990	2030	2080	2052	3	95	3	19,8	10	105	891	172
AS1500K	1755	1345	820	375	375	895	1050	1000	1200	2095	2145	2142	3	95	3,6	23,7	10	105	1420	265



ATTACK AK / ATTACK AS

KEY

- 1 – Flow connection – boiler . . . 1 1/2"
- 2 – Freely utilizable 1 1/2"
- 3 – Freely utilizable 1 1/2"
- 4 – Return connection – heating circuit 1 1/2"
- 5 – Flow connection – heating circuit (radiators) 1 1/2"
- 6 – Flow connection – heating circuit (floor) 1 1/2"
- 7 – Return connection – gas, oil and pellet boiler 1 1/2"
- 8 – Sensor of solar system or heating 1 1/2"
- 9 – Flow connection of solar system 1/2"
- AS – Flow connection of solar system 1"
- RS – Return connection of solar system 1"
- D1 – Diameter without insulation
- D2 – Diameter with insulation



ATTACK HR / ATTACK HRS

KEY

- 1 – Flow connection – boiler . . . 1 1/2"
- 2 – Freely utilizable 1 1/2"
- 3 – Electrical heating coil (EL) . . . 1 1/2"
- 4 – Freely utilizable 1 1/2"
- 5 – Return conn. – heating circuit . . . 1 1/2"
- 6 – Flow connection – heating circuit (radiators) 1 1/2"
- 7 – Flow connection – heating circuit (floor) 1 1/2"
- 8 – Return connection – gas, oil and pellet boiler 1 1/2"
- 9 – Return conn. – wood boiler . . . 1 1/2"
- 10 – Sensor of solar system or heating . . . 1/2"
- AS – Flow conn. of solar system 1"
- RS – Return conn. of solar system 1"
- D1 – Diameter without insulation
- D2 – Diameter with insulation
- CN – Pump of the circulation tank . . . 3/4"
- AF – Cold drinking water 3/4"
- AC – Domestic hot water 3/4"
- MA – Magnesium anode -

ACCUMULATION TANKS ATTACK HR, ATTACK HRS

The accumulation tanks **ATTACK HR, HRS** are made from the quality steel and serve for accumulation of the heating water as well as for preparation of the D.H.W. by an internal enameled exchanger. The **ATTACK HRS** model is accessorized with an extra exchanger to be connected to the solar system. Tanks of this type have a built-in magnesium anode in the D.H.W. tank to increase resistance against corrosion. The manual de-aeration valve is installed in the upper part.

ATTACK HR: 9x socket G 1 1/2", 6x socket G 1/2"
ATTACK HRS: 9x socket G 1 1/2", 6x socket G 1/2", 2x socket G 1" – solar circuit

Typ	Tank								Solar exchanger				Internal tank			Tank								
	Position 1-6	Position 2-7	Position 3	L – max. length of the electric heating body	Position 4-8	Position 5-9	Position RS	Position AS	Ø D1 – Diameter without insulation	Ø D2 – Diameter with insulation of 100 mm	Height	Height with insulation of 100 mm	R – Slope dimension without insulation	Max. operating temperature (°C)	Max. operating pressure (bar)	Area of exchanger (m²)	Volume of exchanger (l)	Max. operating pressure (bar)	Max. operating temperature (°C)	Volume (l)	Max. operating pressure (bar)	Volume (l)	Weight (kg)	
HR600K	1515	1123	794	650	684	245	-	-	700	900	1754	1854	1841	95	3	-	-	-	160	95	6	445	157	
HR800K	1545	1135	846	735	725	315	-	-	790	990	1806	1906	1898	95	3	-	-	-	160	95	6	553	157	
HR1000K	1735	1255	1036	735	775	295	-	-	790	990	1996	2096	2081	95	3	-	-	-	160	95	6	731	172	
HRS600K	1515	1123	794	650	684	245	245	725	700	900	1754	1854	1841	95	3	1,8	11,9	10	105	160	95	6	445	157
HRS800K	1545	1135	846	735	725	315	315	725	790	990	1806	1906	1898	95	3	2,4	15,9	10	105	160	95	6	553	157
HRS1000K	1735	1255	1036	735	775	295	295	860	790	990	1996	2096	2081	95	3	3	19,8	10	105	160	95	6	731	172
HRS1250K	1655	1175	988	880	695	285	285	850	950	1150	1948	2048	2064	95	3	3	19,8	10	105	160	95	6	1079	172
HRS1500K	1755	1345	1072	920	820	375	375	895	1000	1200	2032	2132	2160	95	3	3,6	19,8	10	105	160	95	6	1260	265
HRS2000K	1955	1408	1314	1000	862	315	315	843	1100	1300	2274	2374	2390	95	3	4,2	23,7	10	105	160	95	6	1800	296

ACCUMULATION TANKS ATTACK TUV, ATTACK TUVS

The accumulation tanks **ATTACK TUV, TUVS** are made from a quality steel and they serve for accumulation of the heating water as well as for the D.H.W. preparation in a water coil.

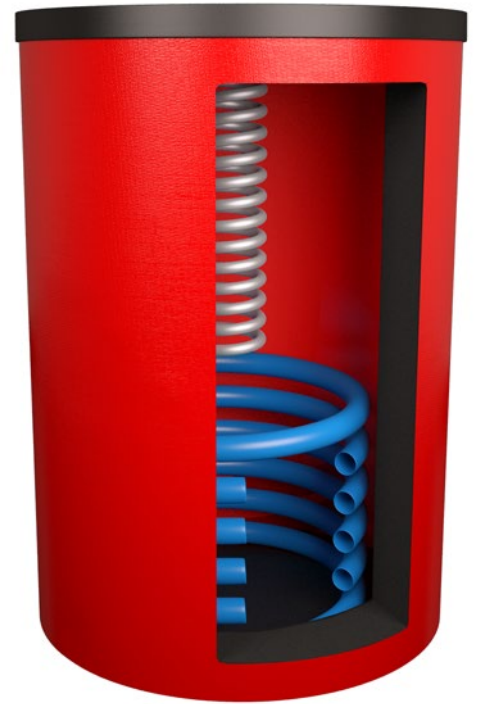
The **ATTACK TUVS** model is accessorized with an extra exchanger for connection to the solar system.

ATTACK TUV: 9× socket G 1 ½", 5× socket G ½", 2× socket G 1" – D.H.W.

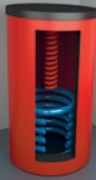
ATTACK TUVS: 9× socket G 1 ½", 5× socket G ½", 2× socket G 1" – solar circuit, 2× socket G 1" – D.H.W.

TECHNICAL PARAMETERS OF THE D.H.W. XCHANGER

Material	Copper
Heated area	6,25 m ²
Volume	20 l
Connection	1 ¼"
Max. operating pressure	8 bar



TECHNICAL PARAMETERS – TYPE ATTACK TUV, ATTACK TUVS

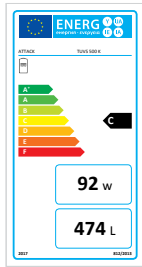
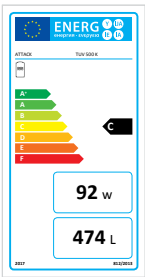
Image	Tank													Sola exchanger				Tank					
	Position 1–6	Position 2–7	Position 3 (EL)	L – max. length of the electric heating body	Position 4–8	Position 5–9	Position RS	Position AS	∅ D1 – Diameter without insulation	∅ D2 – Diameter with insulation	Height	R – Slope dimension without insulation	Mini. installation height	Max. operating temperature (°C)	Max. operating pressure (bar)	Area of exchanger (m ²)	Volume of exchanger (l)	Max. operating pressure (bar)	Max. operating temperature (°C)	Volume (l)	Area of D.H.W. exchanger (m ²)	Weight (kg)	
	TUV500K	1405	1013	771	600	621	230	-	-	650	850	1631	1717	1831	95	3	-	-	-	-	4,54	474	157
	TUV600K	1515	1123	794	650	684	245	-	-	700	900	1754	1841	1954	95	3	-	-	-	-	4,54	605	157
	TUV800K	1545	1135	846	735	725	315	-	-	790	990	1806	1898	2006	95	3	-	-	-	-	4,54	713	157
	TUV1000K	1735	1255	1036	735	775	295	-	-	790	990	1996	2081	2196	95	3	-	-	-	-	4,54	891	172
	TUVS500K	1405	1013	771	600	621	230	230	710	650	850	1631	1717	1831	95	3	1,8	11,9	10	105	4,54	474	157
	TUVS600K	1515	1123	794	650	684	245	245	725	700	900	1754	1841	1954	95	3	1,8	11,9	10	105	4,54	605	157
	TUVS800K	1545	1135	846	735	725	315	315	725	790	990	1806	1898	2006	95	3	2,4	15,9	10	105	4,54	713	157
	TUVS1000K	1735	1255	1036	735	775	295	295	860	790	990	1996	2081	2196	95	3	3	19,8	10	105	4,54	891	172
	TUVS1250K	1655	1175	988	880	695	285	285	850	950	1150	1948	2064	2148	95	3	3	19,8	10	105	4,54	1239	172
	TUVS1500K	1755	1345	1072	920	820	375	375	895	1000	1200	2032	2160	2232	95	3	3,6	19,8	10	105	4,54	1420	265
	TUVS2000K	1955	1408	1314	1000	862	315	315	843	1100	1300	2274	2390	2474	95	3	4,2	23,7	10	105	4,54	1960	296

THE ELECTRICAL HEATING BODIES FOR THE ATTACK ACCUMULATION TANKS

Type	Specification	Length of coil	Use for the type	
			AK, AS, TUV, TUVS, S, SS from the volume of:	HR, HRS from the volume of:
TH100	Electrical heating body 2,4 kW/3× 230 V with thermostat, G 6/4"	300 mm	od 300 l	od 600 l
TH101A	Electrical heating body 3 kW/3× 230 V with thermostat, G 6/4"	330 mm	od 300 l	od 600 l
TH102	Electrical heating body 4,5 kW/3× 230 V with thermostat, G 6/4"	440 mm	od 300 l	od 600 l
TH103	Electrical heating body 6 kW/3× 230 V with thermostat, G 6/4"	520 mm	od 300 l	od 600 l
TH107	Electrical heating body 2 kW/3× 230 V with thermostat, G 6/4"	300 mm	od 300 l	od 600 l

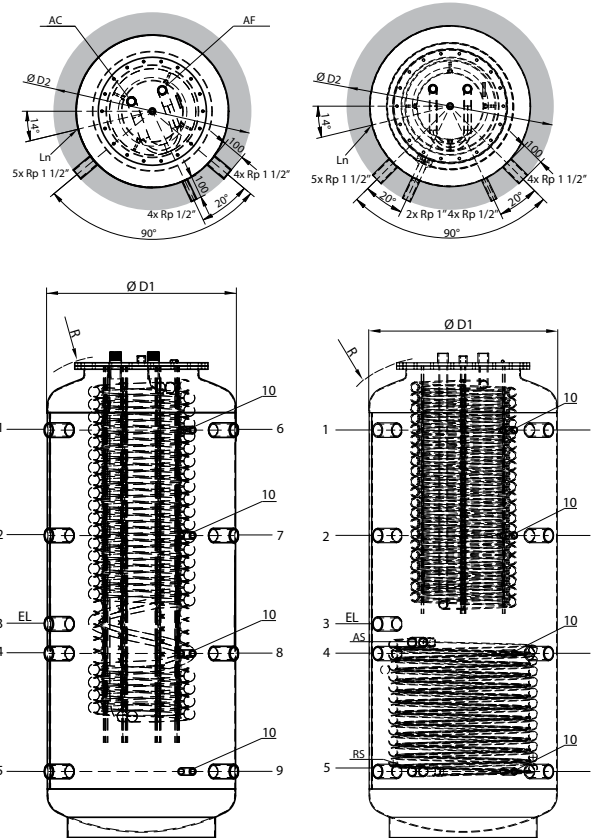


ATTACK TUV / ATTACK TUVS



KEY

- 1 – Flow connection – boiler 1 ½"
- 2 – Freely utilizable 1 ½"
- 3 – Electrical heating coil (EL) 1 ½"
- 4 – Freely utilizable 1 ½"
- 5 – Return conn. – heating circuit 1 ½"
- 6 – Flow connection – heating circuit (radiators) 1 ½"
- 7 – Flow connection – heating circuit (floor) 1 ½"
- 8 – Return connection – gas, oil or pellet boiler 1 ½"
- 9 – Return connection – wood boiler 1 ½"
- 10 – Sensor of solar system or heating ½"
- AS – Flow conn. of solar system 1"
- RS – Return connection of solar system 1"
- D1 – Diameter without insulation
- D2 – Diameter with insulation
- AF – Cold drinking water 1"
- AC – Domestic hot water 1"



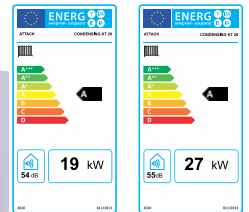
NEW

CONDENSING BOILER ATTACK CONDENSING KT

ATTACK CONDENSING KT 28 is a wall-mounted boiler produced in versions KT 20 and KT28 for heating with the possibility of variable connection of a hot water tank. After connecting the boiler to the additional storage tank you can not only heat but also prepare DHW and satisfy the needs of a large household. **The boiler achieves significant savings in gas consumption thanks to continuous power modulation of up to 1:10 and the ISC Intelligent Combustion System.** The boiler can also be controlled according to the outside temperature (equithermal control) and it is also possible to connect it to **WIFI * and control it using a smart-phone.** * to connect to the WIFI network, it is necessary to use additional accessories that are not part of the boiler delivery

BOILER ADVANTAGES

- High modulation ratio 1:10
- Energy class for heating A
- Compact and elegant design
- Condensing stainless steel heat exchanger with extra wide water channels
- Possibility of preparing hot water in an external storage tank
- Easy operation with long life with up to 106% efficiency
- High efficiency and gas savings
- Intelligent adaptive gas valve
- Brass hydraulic group
- ICS (Intelligent Combustion System) guarantees perfect combustion in all conditions
- Safe and easy to use thanks to integrated protection functions (frost protection, ANTI-Legionella protection, pump blockage protection)
- Backlit LCD display with self-diagnostics and simple operation
- Remote control with two-way OpenTherm communication
- Possibility of control via WIFI * and cell phone
- 6 NOx class
- Intelligent OpenTherm control



HEATING WITH THE POSSIBILITY OF HEATING D.H.W. IN AN EXTERNAL STORAGE TANK



New stainless steel heat exchanger

Boiler Condensing KT is equipped with a stainless steel heat exchanger equipped with extra wide channels where the inner part has increased up to four times compared to the commonly used exchanger. Thanks to the new exchanger, better thermal efficiency and better resistance to deposits is achieved which makes Condensing KT also ideal when replacing the boiler in an existing heating system.

ISC intelligent combustion system

The Condensing KT condensing boiler is equipped with an Intelligent Combustion System. The only boiler on the market that sets its own parameters according to current conditions using an intelligent combustion system. The intelligent combustion system controls combustion and adjusts values such as gas flow to always achieve the correct air / gas ratio ensuring: **reduction of gas consumption, lower CO2 emissions, high modulation ratio, perfect combustion, extension of boiler life**

TECHNICAL PARAMETERS

Parameter	Unit	ACKT 20	ACKT 28
Max. heat input of central heating	kW	25	33,2
Min. heat input of central heating	kW	2,5	3,5
Max. heat output of central heating (50/30 °C) / (80/60 °C)	kW	21/19,4	29,5/27,4
Min. heat output of central heating (80/60 °C)	kW	2,4	3,3
Gas connection pressure G20	mbar	20	
Gas connection pressure G31	mbar	37	
Emission class NO _x	-	6	
Max. / min. operating pressure by heating	bar	3/1	3/1
Efficiency class by directive 92/42 EHS	-	A	
Degree of protection	IP	X5D	
Electric voltage	V/Hz	~240/50	
Elektrical input	W	73	86
Weight of the empty boiler	kg	28,1	33,4
Dimensions (W x H x D)	mm	400x727x324	

NEW

CONDENSING BOILER

ATTACK CONDENSING KST

Compact and elegant condensing boiler with intelligent control for your comfort. ATTACK CONDENSING KST 24 is a wall-mounted condensing gas boiler ideal for heating with D.H.W. preparation in a flow-through manner. The boiler achieves significant gas consumption savings thanks to continuous power modulation of up to 1:10 and thanks to the ISC Intelligent Combustion System it can also work with a minimum power of 2.8 kW, which is a great advantage for houses. The boiler can also be controlled according to the outside temperature (equithermal control) and it is also possible to connect it to **WIFI * and control it using a smartphone.** * to connect to the WIFI network, it is necessary to use additional accessories that are not part of the boiler delivery



BOILER ADVANTAGES

- High modulation ratio 1:10
- Energetická trieda pre vykurovanie A
- Energy class for heating A
- Efficiency up to 106.4% with gas savings
- Condensing stainless steel heat exchanger with extra wide water channels
- Compact and elegant design
- Intelligent adaptive gas valve
- Easy operation
- Brass hydraulic group
- ICS (Intelligent Combustion System) guarantees perfect combustion in all conditions
- Ideal for smaller households
- Backlit LCD display with self-diagnostics and simple operation
- Possibility of control via WIFI * and cell phone
- Safe and easy to use thanks to integrated protection functions (frost protection, ANTI-Legionella protection, pump blockage protection)
- 6 NOx class
- Intelligent OpenTherm control



HEATING AND INSTANTANEOUS WARMING OF D.H.W.



TECHNICAL PARAMETERS

Parameter	Unit	ACKST 24
Max. heat input of central heating	kW	30
Min. heat input of central heating	kW	3
Max. heat output of central heating (50/30 °C) / (80/60 °C)	kW	25,2/23,3
Min. heat output of central heating (80/60 °C)	kW	2,8
Gas connection pressure G20	mbar	20
Gas connection pressure G31	mbar	37
Emission class NO _x	-	6
Flow of DHW Δt 25 °C	l/min	17
Flow of DHW Δt 30 °C	l/min	13,8
Max. / min. operating pressure by heating	bar	3/1
Efficiency class by directive 92/42 EHS	-	A
Degree of protection	IP	X5D
Electric voltage	V/Hz	~240/50
Elektrical input	W	85
Weight of the empty boiler	kg	30,2
Dimensions (W × H × D)	mm	400×727×324

New stainless steel heat exchanger

Boiler Condensing KST24 is equipped with a stainless steel heat exchanger equipped with extra wide channels where the inner part has increased up to four times compared to the commonly used exchanger. Thanks to the new exchanger, better thermal efficiency and better resistance to deposits is achieved which makes Condensing KST24 also ideal when replacing the boiler in an existing heating system.

ISC intelligent combustion system

The Condensing KT condensing boiler is equipped with an Intelligent Combustion System. The only boiler on the market that sets its own parameters according to current conditions using an intelligent combustion system. **The intelligent combustion system controls combustion and adjusts values such as gas flow to always achieve the correct air / gas ratio ensuring: reduction of gas consumption, lower CO2 emissions, high modulation ratio, perfect combustion, extension of boiler life.**

NEW

CONDENSING BOILER ATTACK CONDENSING KZT

Condensing boiler with built-in 60L DHW tank and intelligent control for your comfort. The boiler achieves significant savings in gas consumption thanks to continuous power modulation of up to 1:10. Attack Condensing KZT is a great choice for households with a high demand for DHW supply. The boiler can also be controlled according to the outside temperature (equithermal control), and it is also possible to connect it to WIFI * and control it with a smartphone. The ATTACK Condensing KZT boiler is manufactured in two versions KZT 25 and KZT 35

* to connect to the WIFI network, it is necessary to use additional accessories that are not part of the boiler delivery

BOILER ADVANTAGES

- **High modulation ratio 1:10**
- **Energy class for heating A**
- **Energy class for D.H.W. A – XXL**
- **Efficiency up to 107% with gas savings**
- **Built-in DHW tank 60 l**
- **Higher efficiency due to the small number of starts and shutdowns**
- **Automatic filling valve**
- **Programmable setting of DHW preparation time for the storage tank**
- **Easy operation**
- **Brass hydraulic group**
- **Multifunction control system: more than 40 configurable parameters**
- **Safe and easy to use thanks to integrated protection functions (frost protection, ANTI-Legionella protection, pump blockage protection)**
- **Digital control panel with backlit LCD display and self-diagnostics**
- **Intelligent OpenTherm remote control with two way communication**
- **Possibility of control via WIFI * and cell phone**
- **Low CO₂ and NO_x emissions**
- **6 NO_x clas**
- **Low fuel consumption (gas)**

New stainless steel heat exchanger

The Condensing KZT boiler is equipped with a new stainless steel heat exchanger which achieves better thermal efficiency and long service life.

Hot water always available

Thanks to the PLUS function, the boiler always has a hot water supply ready that you can use immediately. The boiler with a storage tank is able to satisfy high demands on DHW consumption and ensure the supply of hot water at the same time in various situations in the household. Thanks to the 60L tank, it is possible to have a large amount of water ready for use, while the water contained in the tank is consumed, the boiler quickly heats the same amount that is stored in the tank.



HEATING AND HOT WATER HEATING IN A BUILT-IN STAINLESS STEEL TANK



Wide range of settings for boiler parameters using a backlit LCD panel with simple and comfortable operation.

TECHNICAL PARAMETERS

Parameter	Unit	ACKZT 25	ACKZT 35
Max. heat input of central heating	kW	26	33
Min. heat input of central heating	kW	2,6	3,4
Max. heat output of central heating (50/30°C) / (80/60°C)	kW	27,2/25,1	34,7/32
Min. heat output of central heating (80/60°C)	kW	2,5	3,2
Gas connection pressure G20	mbar	20	
Gas connection pressure G31	mbar	37	
Emission class NO _x	–	6	
Volume of DHW	litres	60	
Flow of DHW Δt 30°C	l/min	16	17
Efficiency class by directive 92/42 EHS	–	A	
Degree of protection	IP	X5D	
Electric voltage	V/Hz	~240/50	
Elektrical input	W	100	
Weight of the empty boiler	kg	41,6	43,5
Dimensions (W × H × D)	mm	600×880×425	

NEW

CONDENSING BOILER

ATTACK CONDENSING KT 48-150 kW

Condensing boilers designed with the strictest emission limits in mind and suitable for everybody who needs high performance, **Condensing KT** boilers can also be connected in a cascade. **Condensing KT is a wall-mounted boiler manufactured in versions of 48kW to 150kW** with the possibility of variable connection of a DHW storage tank. After connecting the boiler to the additional storage tank, you can heat and also prepare DHW to satisfy even the most demanding needs. **The boiler achieves significant gas consumption savings of up to 40% thanks to continuous power modulation of up to 1:10.** The boiler can also be controlled according to the outside temperature (equithermal control) and it is also possible to connect it to WIFI * and control it using a smartphone.

* to connect to the WIFI network, it is necessary to use additional accessories that are not part of the boiler delivery



HEATING WITH THE POSSIBILITY OF HEATING HOT WATER IN AN EXTERNAL STORAGE TANK

Modulation 1:10 and gas savings of up to 40%

The stainless steel condensing heat exchanger enables significant latent heat recovery thus increasing energy efficiency and reducing gas consumption by up to 40%. The innovative mixer provides a wide range of modulation up to a ratio of 1:10, the maximum heat input of the boiler can be adjusted according to the current requirements of the heating system.

High efficiency modulation pump

Condensing KT boilers are equipped with a fully electronic modulating pump which optimizes the output according to the heat demand in the system and thus significantly increases the efficiency of the thermal module and achieves up to 50% energy savings.

BOILER ADVANTAGES

- Mixer with pneumatic modulation up to 1:10
- Possibility of preparing hot water in an external tank
- Condensing stainless steel heat exchanger
- Possibility of cascade connection
- Thermoacoustic insulation
- Integrated combustion analysis
- Elegant design and easy operation
- Special burner – flame stability even at low power levels
- High efficiency according to 92/42 EEC ****
- Gas savings up to 40%
- High-efficiency modulating pump
- Multifunction control system: more than 40 configurable parameters
- Possibility of control via WIFI * and cell phone
- Safe and easy to use thanks to integrated protection functions
- 6 NOx class
- Intelligent OpenTherm remote control

TECHNICAL PARAMETERS

Parameter	Unit	ACKT 48	ACKT 65	ACKT 85	ACKT 110	ACKT 150
Max. heat input of central heating	kW	47,5	63	85	108	150
Min. heat input of central heating	kW	5	7	9,5	11	25
Max. heat output of central heating (50/30°C) / (80/60°C)	kW	49,2/46	65,6/61,1	89,3/82,4	113,5/104,9	157,5/144,6
Min. heat output of central heating (80/60°C)	kW	4,7	6,6	9	10,5	23,8
Gas connection pressure G20	mbar	20	20	20	20	20
Gas connection pressure G31	mbar	37	37	37	37	37
Emission class NO _x	–	6	6	6	6	6
Volume of water in the boiler on central heating	litre	3,5	4	9	11,5	14
Max. / min. operating pressure by heating	bar	3/1	3/1	4,5/1	4,5/1	4,5/1
Efficiency class by directive 92/42 EHS	–	A	A	A	A	A
Degree of protection	IP	X5D	X5D	X5D	X5D	X5D
Electric voltage	V/Hz	~240/50	~240/50	~240/50	~240/50	~240/50
Electrical input	W	145	190	255	315	480
Weight of the empty boiler	kg	38,8	45,8	86,5	92	105
Dimensions (W x H x D)	mm	450x837x457		600x837x615		600x837x725



Condensing KT boilers are designed to enable cascade connection of up to 4 boilers. To connect to the cascade it is necessary to use the cascade controller which is supplied as an accessory. The cascade controller intelligently controls the connected boilers and provides complete control over the connected system.

STATIONARY COMBINED GAS CAST-IRON BOILERS of the new generation with the output 12, 15, 20, 25, 30 kW

BOILER ADVANTAGES

- Cast iron body
- Possibility of selection of different types and volumes of DHW storage tank
- Low noise, high efficiency
- Ecological combustion thanks to low-emission LOV NOx burners
- Long almost unlimited lifetime
- Two-stage power control (PLQ, KLQ, E-aut.)
- Continuous power modulation (EZ)
- High reliability, low maintenance
- Good price, quality service network
- Modern design, original solution, simple operation

CHARACTERISTICS OF STATIONARY COMBINED BOILERS ATTACK®

If you are looking for a long-life boiler, easy operation and optimal performance, we offer you a stationary cast iron boiler ATTACK®. Stationary boilers of the new generation ATTACK® COMBI are suitable for central heating systems of family houses, residential and non-residential premises with heating of domestic hot water in combination with the DHW tank. They can be used in both open and closed systems with forced circulation of heating water. Flue gas exhaust is possible to connect to the chimney.

MODIFICATIONS STATIONARY COMBINED BOILERS ATTACK®

ATTACK COMBI EKO

Stationary cast iron boiler with flame ignition, thermocouple flame monitoring and exhausting flue gas into the chimney. Boiler works with fixed power. All boilers with flue gas exhaustion are equipped with flue gas thermostat..

ATTACK COMBI PLQ

Stationary cast iron boiler with flame ignition, thermocouple flame monitoring and exhausting flue gas into the chimney.

TECHNICAL PARAMETERS HEATED DISPENSER OF HOT WATER

Type		125 OKC/1m2	125 OKC	125 OKCV	160 OKC/1m2	160 OKC	160 OKCV	OKC NTR 160	200 OKC	200 OKCV
Volume	lit.	120	120	125	147	147	147	148	195	195
Weight without water	Kg	64	55	55	71	62	62	73	79	79
Exchanger capacity	kW	24	9	9	24	9	9	32	9	9
The heating time of the exchanger from 10 °C to 60 °C	min.	17	28	28	21w	35	35	16	45	45
Heat exchanger surface	m2	1,08	0,68	0,68	1,08	0,68	0,68	1,45	0,68	0,68
Input of the heater	W	2200	2200	2200	2200	2200	2200	-	2200	2200

chimney. In transitory periods "Spring, Autumn" the boiler's fixed capacity is possible to reduce excess power by simple switching the switch installed in the boiler's front control panel by 20% of the boiler's fixed power without loss of boiler efficiency.

ATTACK COMBI KLV

Stationary cast iron boiler with electronic ignition, ionizing flame monitoring and exhausting the flue gas into the chimney. Boiler works with fixed power.

ATTACK COMBI KLQ

Stationary cast iron boiler with electronic ignition, ionizing flame monitoring and flue exhausting gas into the chimney. In transitory periods "Spring, Autumn" the boiler's fixed capacity is possible to reduce excess power by simple switching the switch installed in the boiler's front control panel by 20% of the boiler's fixed power without loss of boiler efficiency.

ATTACK COMBI E

Stationary cast iron boiler with electronic ignition, ionizing protecting the flame and exhausting the flue gas into the chimney. Boiler's output is automatically reduced by 20% of the boiler's fixed power, 7 °C before reaching the demanded temperature without loss of efficiency boiler. There is an advantage of constant using automatic power control during boiler operation.

ATTACK COMBI EZ

Stationary cast iron boiler with electronic ignition, continuous output modulation, ionizing flame monitoring and exhausting the flue gas into the chimney. The boiler continuously regulates output in the range 80-100%. There is an advantage of continuous output modulation without loss boiler efficiency. The boiler has built-in DHW heating in the control electronics and includes its own fault diagnosis.



ATTACK COMBI P non-electric stationary cast iron boiler with eternal flame-protected thermocouple. It is intended for a gravity system only. Intended for sale outside the EU.

INDIRECTLY HEATED D.H.W. STORAGE TANKS

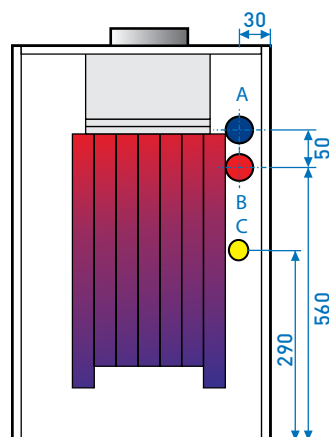
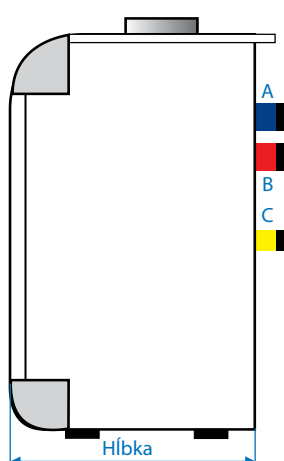
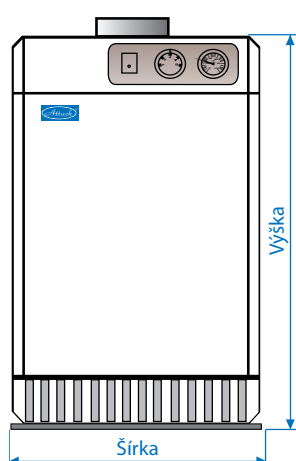
Indirectly heated D.H.W. storage tanks are intended for connection to stationary or wall-mounted

boiler with a different source of energy for DHW in residential and non-residential premises.



TECHNICAL PARAMETERS

Type of boiler ATTACK®	Unit	12	15	20	25	30
Nominal output EKO-, KLV COMBI	kW	12	15	20	25	30
Nominal input EKO-, KLV COMBI	kW	13,4	16,5	19,5	27	32,5
The number of elements	kW	3			4	
Adjustable output PLQ-, KLQ COMBI	kW	-	12 – 15	14,5 – 18	20 – 25	24 – 30
Adjustable output E-, EZ COMBI	kW	-	12 – 15	14,5 – 18	20 – 25	24 – 30
Adjustable input PLQ-, KLQ COMBI	kW	-	13,5 – 16,5	15,6 – 19,5	21,6 – 27	26,4 – 32,5
Adjustable input E-, EZ COMBI	kW	-	13,5 – 16,5	15,6 – 19,5	21,6 – 27	26,4 – 32,5
Inlet pressure from the gas distribution network	mbar					
Nozzle diameter	mm	2,5	2,5	2,5	2,5	2,7
Pressure on nozzles EKO-, PLQ-, KLV-, KLQ COMBI	kPa	0,8	0,8 – 1,05	1,05 – 1,45	0,8 – 1,2	0,9 – 1,25
Pressure on nozzles E-, EZ COMBI	kPa	-	0,8 – 1,05	1,05 – 1,45	0,8 – 1,2	0,9 – 1,25
Fuel consumption at max. output EKO-, PLQ-, KLV-, KLQ-, E-, EZ COMBI	m ³ /h	1,3	1,6	2,05	2,65	3,15
Fuel consumption at min. output EKO-, PLQ-, KLV-, KLQ-, E-, EZ COMBI	m ³ /h	-	1,25	1,65	2,1	2,5
NOx class		5	5	5	5	5
Fuel	-	Zemný plyn G 20				
Natural gas connection	DN	15 (prevlečná matice 3/4")				
Diameter of exhaust flue gas mechanism	mm	110			135	
Water volume in cast iron body	l	10			13,8	
Max. pressure in central heating	kPa	300				
Connection of central heating	G	1"				
Boiler weight	kg	99			125	
Power supply	V/Hz	~230/50				
Degree of protection	IP	40				
Heating water temperature	°C	40 – 90				
Efficiency	%	92 – 93				
Mass flow rate of flue gas	g/s	14,4			20,5	
Electric input	W	15 – 30				



Connections	
A	heating outflow 1"
B	heating return 1"
C	natural gas 1/2"

INDIRECTLY HEATED DISPENSER OF HOT WATER

Indirectly heated stationary tanks **ATTACK Z, OKC, OKCV, OKH, NTR, SOL** is manufactured in volumes of 100 l. They are intended to connect to or by a wall boiler with a different source of energy for preparation of supply hot water in residential and non-residential premises.



TECHNICAL PARAMETERS

Parameter		40 NTR	100 OKH NTR/HV	125 OKH NTR/HV	100 OKC/ NTR/HV	125 OKC/ NTR/Z	125 OKC/ NTR/HV	160 OKC/ NTR	160 OKC/ NTR/HV	200 SOL/ NTR	300 SOL/NTRR
Volume	lit.	40	87	115	87	113	113	148	148	200	275
Weight without water	Kg	45	55	67	53	55	67	73	77	104	111
Exchanger capacity	kW	23,2	24	32	24	32	32	32	32	19	29
The heating time of the exchanger from 10 °C to 60 °C	min.	10	13	13	13	13	13	16	16	34	33
Heat exchanger surface	m ²	0,6	1,08	1,45	1,08	1,08	1,08	1,45	1,45	0,8	1,2
Input of the heater	W	-	-	-	-	-	-	-	-	-	-

DIRECT HEATED DHW STORAGE TANKS

The device works as a gas storage water heater of hot domestic water with connection of flue to the chimney. It is run on natural gas. The device consists of a steel tank with a ceramic layer, outer packaging with high quality thermal insulation, combined gas valve, a gas burner and the accessories.

ADVANTAGES

- **Direct heating**
- **High efficiency**
- **Ecological combustion**
- **Low noise**
- **Equipped with flue thermostat**
- **Perfect insulated**
- **High reliability**

PRINCIPLE OF OPERATION

When putting into operation of the heater is ignited by a pilot light piezoelectric device OF WHICH the flame of the main burner starts. The heat resulting from the combustion of the gas is passed through the bottom of a steel tank and flue pipe on to the water in the tank. The water tank is equipped with a fuse against backflow of flue gas (flue gas thermostat), which in case of failure of flue flow blocks the action of the heater and disconnects the supply of gas to

ATTACK PZO PLUS



the gas armature.

The temperature of heated water is set by user by setting the control button of the thermostat in the range of 30 to 70 °C. The water temperature at the adjusted value is maintained automatically. Its additional heating starts after either taking away about 20 l of hot water or the drop of temperature by 5 °C.

Parameter	ATTACK PZO80PLUS	ATTACK PZO120PLUS
Flue gas connection	80 mm	80 mm
Tank capacity	80 l	120 l
Nominal heat output of spiral	4,7 kW	4,7 kW
Efficiency of the heater	87 %	87 %
Weight of heater without water	38 kg	47 kg
Water heating time from 20 °C to 60 °C	65 min.	83 min.
Diameter x height	515x879 mm	515x1 144 mm

WALL HUNG ELECTRIC BOILER

The ATTACK, s.r.o. company presents the wall hung electric boiler **ATTACK® ELECTRIC EXCELLENT**, constructed to use the advantages of modern technology and design. Thanks to the unique properties of the new electric boiler you can heat economically and also very comfortably. This boiler is intended for heating of dwelling houses, buildings and mutual premises with heat losses up to **22,5 kW**.

BOILER ADVANTAGES

- *Modern design, small dimensions*
- *High efficiency – up to 99 %*
- *Comfortable setting and control by the multifunctional LCD display*
- *Relay module separated from control unit*
- *Noiseless operation*
- *Continual output regulation – economical service*
- *Rotation of the heating bodies prolongs the boiler's life*
- *Possibility to use the boiler for the floor heating*
- *Possibility of boiler control per cell phone*
- *Option of the equithermal operation*
- *Possibility to connect the room thermostat*
- *Possibility to connect the tank for D.H.W. preparation*

BOILER DESCRIPTION

The wall hung electric boiler **ATTACK® ELECTRIC EXCELLENT** is intended for usage in the heating systems with **forced circulation and D.H.W. warming**. The heating water is warmed in boiler body by one, two or three heating devices with the output of **7,5 kW**. Each heating device consists from three heating rods, each one of **2,5 kW** output.

TECHNICAL PARAMETERS

Boiler type	Unit	ATTACK ELECTRIC EXCELLENT 8	ATTACK ELECTRIC EXCELLENT 15	ATTACK ELECTRIC EXCELLENT 24	ATTACK ELECTRIC EASY 8
Nominal thermal output	kW	7,5	15	22,5	7,5
Nominal current	A	3×12/1×3	3×24	3×36	3×12/1×36
Grade of protection	IP	40			40
Mains voltage	V	3×230/400 V + N + PE/50 Hz 1×230 V + N + PE/50 Hz	3×230/400 V + N + PE/50 Hz	3×230/400 V + N + PE/50 Hz	3×230/400 V + N + PE/50 Hz 1×250 V + N + PE/50 Hz
Nominal current max.	A	3×12 / 1 x 36	3×24	3×36	3×16/1×40
Main circuit breaker of the el. installation	A	3×16 / 1 x 40	3×25	3×40	3×16/1×40
Nominal current of the fuse of regulation	A	0,315			0,315
Relay – el. lifetime	–	250 000 cycles, 16 A, 250 V			250 000 cycles, 16 A, 250 V
Inlet / outlet of the heating water	G	¾" external			¾" external
Min. operating overpressure of the heating system	bar	0,4			0,4
Max. operating overpressure of the heating system	bar	3			3
Max. temperature of heating water	°C	80			80
Volume of water in the whole boiler	l	10,6			5,8
Efficiency by nominal output	%	99			99
Expansive vessel	l	8			Not part of the boiler
Boiler weight	kg	36,5	38	39,5	19
Dimensions (H × W × D)	mm	450×656×345			370×625×225



Process of warming is regulated by the control unit – the precise PID regulation, ensuring high economical operation through minimalization of the temperature overshoots of the heating water by adjusted temperature. Thanks to this perfect regulation, the boiler saves the electrical energy.

Boiler is controlled via the room thermostat. It is possible to use the boiler for heating of the indirectly heated tank. There is also an option to control the boiler via your cell phone.

The **ATTACK® ELECTRIC EASY** boiler is intended for usage in heating systems with forced circulation and thermal losses up to **7,5 kW** (low-energy houses, flats and smaller recreation objects). **ATTACK® ELECTRIC EASY** can be also used as emergency source for modern heating systems – in combination with **ATTACK®** biomass boilers (with heat pump, solar systems, etc.).

PROTECTION AND PROLONGATION OF THE BOILER'S LIFE-TIME

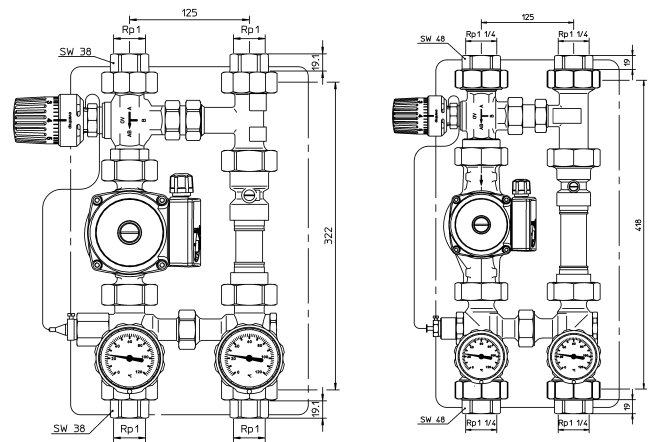
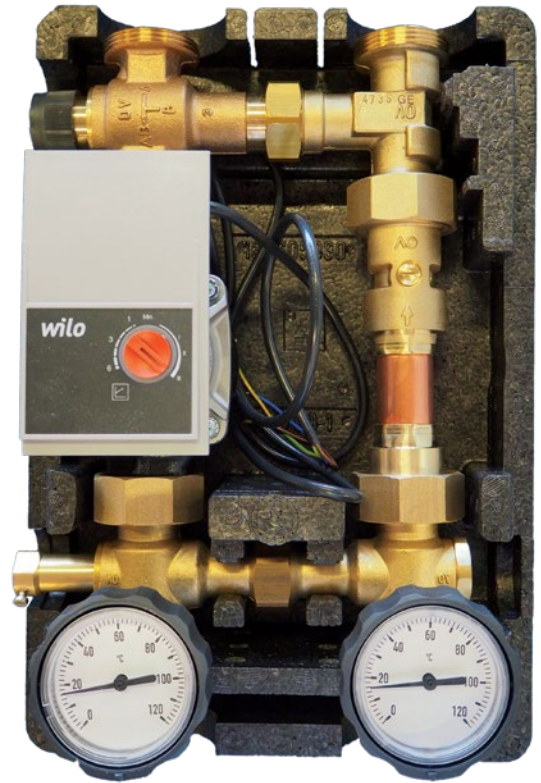
When the temperature of return water flowing into the boiler is low (under 50 °C), it comes to production of harmful acids, condensate and tar on the steel walls of boiler, and thereby to their damage. **Suitable protective solution to eliminate this harmful effect and to extend life of the boiler is to use the mixing device – Regumat ATTACK-OVENTROP.** By installation of device, the boiler and the heating circuit are created. The mixing device Regumat ATTACK-OVENTROP keeps constant temperature of the return heating water flowing into the boiler over 65 °C, when the thermostatic head is set on the level 5–6 and prevents damage of the steel walls. **The mixing device ATTACK-OVENTROP guarantees significantly longer life of the boiler.**

The regumat consists of three-way mixing valve, thermostatic head with capilar, bypass, valve for self-force circulation (alt. natural circulation), three-grade circulating pump, closing valves, thermometers and isolation. **This solution is advantageous, because it is compact, enables simple operation and ensures protection of the steel boiler's heat exchanger.**

Regumat ATTACK-OVENTROP for boiler:

ATTACK DPX, SLX, WP, PEL, COMBI Pellet 15 – 35kW - type **DPP25007 (DN25)**

ATTACK DPX, SLX, PEL, COMBI Pellet 40 – 100kW - type **DPP25008 (DN32)**










DPP25007

DPP25008



EQUITHERMAL AND ROOM CONTROLLERS

Code	Title / Description	
0T70	Thermostat CS-292 V3	
	<p>The room double status regulator (3 mm glass)</p> <p>Features:</p> <ul style="list-style-type: none"> Control of the room temperature Weekly program of heating Manual program Program - day/night Wired communications - momentary lighting of the display <p>Equipment:</p> <ul style="list-style-type: none"> Built-in room sensor The front panel of 3 mm glass Battery 2 x AA 1.5 V Available in white and black <p><i>*in case of specifications absence in the order, the color will be selected randomly</i></p>	
0T71	Room regulator with RS communication CS-296	
	<p>Room regulator with RS communication (3 mm glass)</p> <p>Features:</p> <ul style="list-style-type: none"> Control of the room temperature Temperature control of boiler for central heating Temperature control of boiler for hot water The display of the external temperature (in cooperation with the module of the valve) Control of the mixing valve (only available with the module of the valve) Weekly program of heating Parental lock Automatic control of the display brightness <p>Equipment:</p> <ul style="list-style-type: none"> Graphic display The front panel of 3 mm glass Built-in room sensor A built-in sensor for brightness Communication of the RS cable to the boiler regulator <p><i>Works only with controllers with RS communication: CS-37RS, CS-48, CS-480, CS-880zPID, CS-407N, (0T76 CS-408N), CS-409N, (0T75 CS-431N)</i></p>	
0T72	Room regulator with RS communication CS-280	
	<p>Room two-status bar color controller</p> <p>Features:</p> <ul style="list-style-type: none"> Control of the room temperature Alarm function Calendar function The function of access control based on PIN cod Setting the brightness of the display day and night 6 modes of operation: <ul style="list-style-type: none"> mode of manual temperature settings, mode day/night, mode event mode vacation mode against freezing weekly program <p>Equipment::</p> <ul style="list-style-type: none"> Color touch screen 4,3" Built-in room sensor Transmitter – executive module (communications) 	
0T73	GSM module CS-65	
	<p>Features:</p> <ul style="list-style-type: none"> Cooperation with the controllers with RS communication Check the temperatures of the sensors using SMS A SMS notification and a telephone (incoming call) on the alarm of the boiler The possibility of changing the specified temperature using a mobile phone Module protection by authorization code <p>Equipment :</p> <ul style="list-style-type: none"> Transmitter Communication cable RS for the boiler controller GSM antenna 	

Code	Title / Description	
0T74	Internet module CS-505	
	<p>Functions in cooperation with new regulators:</p> <ul style="list-style-type: none"> Remote control of activity of the boiler using the internet View of all equipment of the heating system The ability to change all parameters of the main controller (while preserving the structure and sequence of the menu) View the history of the temperature View the history of events (alarm and change the parameters) The option to create any quantity of passwords (with different privileges - menus, events, statistics) Change the desired temperature on the room controller The possibility to control the quantity of modules from a single administrative point Mail notification about alarm An additional option of SMS notification about alarms (necessary abonent) <p>Functions when working with older regulators:</p> <ul style="list-style-type: none"> Remote control of boiler activity using the internet Graphic interface with animation on the screen of the home computer The opportunity to make changes to the specified temperatures for both the pumps, as well as for mixing valves The opportunity to make changes to the specified temperatures for the rooms - RS Temperature display on the sensors Displaying the history of the temperature Displaying the history and type of alarm <p><i>The version for mobile devices to download on Google Play</i></p>	
0T75	Regulator 1 mixing valve CS-431N	
	<p>Regulator for heating systems</p> <p>Features:</p> <ul style="list-style-type: none"> Coherent control of 3 - and 4-way valve Control the pump valve operation Possibility to control two valves using additional modules CS-61 v4 and CS-431N Protection temperature of reverse Equimetric and weekly control The possibility of connecting room regulator with RS communication (the preview and the change in the temperature of the main controller) or with normal communication (dvojstavový - on/off.) <p>Equipment:</p> <ul style="list-style-type: none"> LCD display The temperature sensor valve Temperature sensor of reverse Equitermic sensor (outside temperature) Jacket made from high-quality materials resistant to high and low temperatures <p><i>*Also available in a version with multi-function rotary knob</i></p>	
0T76	Regulator 2 mixing circuits and DHW CS-408N	
	<p>Regulator for heating systems (operation: 2 engine valve)</p> <p>Features:</p> <ul style="list-style-type: none"> Continuous control of two mixing valves, two pumps, valves, control pump, HOT water, control two beznapřetových configured outputs, two power outputs It has the function of reverse protection temperature, equithermic and weekly control, cooperates with the two room regulators with a mere communication (two status –on/off.) and with the room controller RS communication (the preview and the change in the temperature of the main controller) The additional ability to control two valves by means of additional modules CS-61 v4 or CS-431N <p>Equipment:</p> <ul style="list-style-type: none"> A large, color, touch LCD displej, 5 temperature sensors for any configuration Equithermic protection sensor (outside temperature) Jacket made from high-quality materials resistant to high and low temperatures 	



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