

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 20 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 800 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	20,3	kW	At rated heat output	η_n	81,8	%	
At [30%/50%] rated heat output, if applicable	P_p	9,7	kW	At [30%/50%] rated heat output, if applicable	η_p	82,6	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		116		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,045	kW	
				At [30%/50%] rated heat output	el_{min}	0,035	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	14	22	308	119		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 20 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 810 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	20,7	kW	At rated heat output	η_n	82,5	%	
At [30%/50%] rated heat output, if applicable	P_p	9,8	kW	At [30%/50%] rated heat output, if applicable	η_p	82,7	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		116		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,048	kW	
				At [30%/50%] rated heat output	el_{min}	0,037	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	12	17	218	123		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 25 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1040 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	25,7	kW	At rated heat output	η_n	82,0	%	
At [30%/50%] rated heat output, if applicable	P_p	11,2	kW	At [30%/50%] rated heat output, if applicable	η_p	84,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		118		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,050	kW	
				At [30%/50%] rated heat output	el_{min}	0,040	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
			[x] mg/m ³ by 10% O ₂					
Log wood, moisture content ≤ 25%	yes	no	16	18	147	124		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 25 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1070 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	26,3	kW	At rated heat output	η_n	82,8	%	
At [30%/50%] rated heat output, if applicable	P_p	11,8	kW	At [30%/50%] rated heat output, if applicable	η_p	83,7	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l_{max}}$	0,052	kW	
				At [30%/50%] rated heat output	$e_{l_{min}}$	0,041	kW	
				In STAND BY mode	P_{SB}	0,003	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
			[x] mg/m ³ by 10% O ₂					
Log wood, moisture content ≤ 25%	yes	no	14	21	233	123		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutky, Slovak Republic						
Model identifier		ATTACK SLX 30 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1290 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	31,2	kW	At rated heat output	η_n	81,8	%	
At [30%/50%] rated heat output, if applicable	P_p	14,8	kW	At [30%/50%] rated heat output, if applicable	η_p	84,3	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		118		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,055	kW	
				At [30%/50%] rated heat output	el_{min}	0,045	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	15	15	208	134		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 30 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1320 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	31,9	kW	At rated heat output	η_n	82,2	%	
At [30%/50%] rated heat output, if applicable	P_p	14,7	kW	At [30%/50%] rated heat output, if applicable	η_p	83,8	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,056	kW	
				At [30%/50%] rated heat output	el_{min}	0,047	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	16	20	226	138		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 35 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1370 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	33,0	kW	At rated heat output	η_n	81,5	%	
At [30%/50%] rated heat output, if applicable	P_p	16,3	kW	At [30%/50%] rated heat output, if applicable	η_p	84,2	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		118		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,055	kW	
				At [30%/50%] rated heat output	el_{min}	0,045	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	13	11	269	143		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 35 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1460 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	35,1	kW	At rated heat output	η_n	81,6	%	
At [30%/50%] rated heat output, if applicable	P_p	16,8	kW	At [30%/50%] rated heat output, if applicable	η_p	83,8	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,056	kW	
				At [30%/50%] rated heat output	el_{min}	0,047	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
			[x] mg/m ³ by 10% O ₂					
Log wood, moisture content ≤ 25%	yes	no	18	19	219	152		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 40 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1790 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	42,4	kW	At rated heat output	η_n	89,5	%	
At [30%/50%] rated heat output, if applicable	P_p	18,8	kW	At [30%/50%] rated heat output, if applicable	η_p	80,5	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,061	kW	
				At [30%/50%] rated heat output	el_{min}	0,049	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	14	6	189	143		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 40 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1750 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	41,6	kW	At rated heat output	η_n	86,7	%	
At [30%/50%] rated heat output, if applicable	P_p	19,2	kW	At [30%/50%] rated heat output, if applicable	η_p	82,5	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		116		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l, max}$	0,063	kW	
				At [30%/50%] rated heat output	$e_{l, min}$	0,050	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	14	5	166	141		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 45 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1850 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	43,8	kW	At rated heat output	η_n	81,1	%	
At [30%/50%] rated heat output, if applicable	P_p	22,3	kW	At [30%/50%] rated heat output, if applicable	η_p	82,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		116		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,061	kW	
				At [30%/50%] rated heat output	el_{min}	0,049	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	15	26	243	145		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 45 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1805 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	42,8	kW	At rated heat output	η_n	81,2	%	
At [30%/50%] rated heat output, if applicable	P_p	21,7	kW	At [30%/50%] rated heat output, if applicable	η_p	82,8	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		116		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,063	kW	
				At [30%/50%] rated heat output	el_{min}	0,050	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	12	20	208	139		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 50 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2160 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	50,6	kW	At rated heat output	η_n	83,5	%	
At [30%/50%] rated heat output, if applicable	P_p	24,3	kW	At [30%/50%] rated heat output, if applicable	η_p	85,9	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	82	%	EEI		120		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,064	kW	
				At [30%/50%] rated heat output	el_{min}	0,053	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	14	5	210	146		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vruty, Slovak Republic						
Model identifier		ATTACK SLX 50 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2170 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	50,9	kW	At rated heat output	η_n	85,0	%	
At [30%/50%] rated heat output, if applicable	P_p	24,8	kW	At [30%/50%] rated heat output, if applicable	η_p	86,0	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	82	%	EEI		121		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,067	kW	
				At [30%/50%] rated heat output	el_{min}	0,055	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
							[x] mg/m ³ by 10% O ₂	
Log wood, moisture content ≤ 25%	yes	no	12	4	170	144		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vrutyky, Slovak Republic						
Model identifier		ATTACK SLX 55 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2355 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	54,5	kW	At rated heat output	η_n	81,1	%	
At [30%/50%] rated heat output, if applicable	P_p	24,6	kW	At [30%/50%] rated heat output, if applicable	η_p	83,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,064	kW	
				At [30%/50%] rated heat output	el_{min}	0,053	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	10	24	180	161		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenska Kruzna 5020, 038 61 Vruty, Slovak Republic						
Model identifier		ATTACK SLX 55 LAMBDA TOUCH						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2330 l								
Condensing boiler		no	Solid fuel cogeneration boiler		no	Combination boiler		no
Energy efficiency class		A+						
Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	54,4	kW	At rated heat output	η_n	81,0	%	
At [30%/50%] rated heat output, if applicable	P_p	26,2	kW	At [30%/50%] rated heat output, if applicable	η_p	83,3	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,067	kW	
				At [30%/50%] rated heat output	el_{min}	0,055	kW	
				In STAND BY mode	P_{SB}	0,004	kW	
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions					
			PM	OGC	CO	NO _x		
				[x] mg/m ³ by 10% O ₂				
Log wood, moisture content ≤ 25%	yes	no	14	13	151	169		
Chipped wood, moisture content 15 - 35 %	no	no	-	-	-	-		
Chipped wood, moisture content > 35 %	no	no	-	-	-	-		
Compressed wood in the form of pellets or briquettes	no	no	-	-	-	-		
Sawdust, moisture ≤ 50 %	no	no	-	-	-	-		
Other woody biomass	no	no	-	-	-	-		
Non-woody biomass	no	no	-	-	-	-		
Bituminous coal	no	no	-	-	-	-		
Brown coal (including briquettes)	no	no	-	-	-	-		
Coke	no	no	-	-	-	-		
Anthracite	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		