

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK SLX 20 COMBI PELLET						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	27,8	kW	At rated heat output	η_n	83,7	%	
At [30%/50%] rated heat output, if applicable	P_p	7,9	kW	At [30%/50%] rated heat output, if applicable	η_p	81,1	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	77	%	EEI		114		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,078	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,059	kW	
				In standby mode	P_{SB}	0,005	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%	no	yes	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	yes	no	30	8	132	159		
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	-	-	-	-		
Anthracit	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK SLX 25 COMBI PELLET						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	27,8	kW	At rated heat output	η_n	83,8	%	
At [30%/50%] rated heat output, if applicable	P_p	7,9	kW	At [30%/50%] rated heat output, if applicable	η_p	81,1	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	77	%	EEI		114		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,078	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,059	kW	
				In standby mode	P_{SB}	0,005	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%	no	yes	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	yes	no	30	8	132	159		
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	-	-	-	-		
Anthracit	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
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Model identifier		ATTACK SLX 30 COMBI PELLET						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	27,8	kW	At rated heat output	η_n	83,7	%	
At [30%/50%] rated heat output, if applicable	P_p	7,9	kW	At [30%/50%] rated heat output, if applicable	η_p	81,1	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	77	%	EEI		114		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,078	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,059	kW	
				In standby mode	P_{SB}	0,005	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%	no	yes	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	yes	no	30	8	132	159		
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	-	-	-	-		
Anthracit	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
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Model identifier		ATTACK SLX 35 COMBI PELLET						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre fuel only:								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Useful heat output				Useful efficiency				
At rated heat output	P_n	27,8	kW	At rated heat output	η_n	83,7	%	
At [30%/50%] rated heat output, if applicable	P_p	7,9	kW	At [30%/50%] rated heat output, if applicable	η_p	81,1	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	77	%	EEI		114		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}		kW	
				At [30%/50%] rated heat output, if applicable	el_{min}		kW	
				In standby mode	P_{SB}		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%	no	yes	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	yes	no	30	8	132	159		
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	-	-	-	-		
Anthracit	no	no	-	-	-	-		
Blended fossil fuel briquettes	no	no	-	-	-	-		
Other fossil fuel	no	no	-	-	-	-		
Blended biomass (30 - 70 %) fossil fuel	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		