

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 15 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 600 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	16,8	kW	At rated heat output	η_n	81,9	%	
At [30%/50%] rated heat output, if applicable	P_p	7,4	kW	At [30%/50%] rated heat output, if applicable	η_p	81,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,045	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,035	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%	yes	no	26	25	325	132		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 15 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 600 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	16,8	kW	At rated heat output	η_n	81,9	%	
At [30%/50%] rated heat output, if applicable	P_p	7,4	kW	At [30%/50%] rated heat output, if applicable	η_p	81,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,045	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,035	kW	
				In standby 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	26	25	325	132		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika					
Model identifier		ATTACK DPX 15 LAMBDA					
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 600 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	16,2	kW	At rated heat output	η_n	81,9	%
At [30%/50%] rated heat output, if applicable	P_p	7,5	kW	At [30%/50%] rated heat output, if applicable	η_p	81,9	%
Seasonal energy efficiency of heating				Energy efficiency index			
Seasonal efficiency	η_s	78	%	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}	0,096	kW
				At [30%/50%] rated heat output, if applicable	el_{min}	0,048	kW
				In standby mode	P_{SB}	0,007	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 $\leq 25\%$	yes	no	32	26	234	115	
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 $\leq 50\%$	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 briquettes	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 DPX 25 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1000 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	24,7	kW	At rated heat output	η_n	81,3	%	
At [30%/50%] rated heat output, if applicable	P_p	11,8	kW	At [30%/50%] rated heat output, if applicable	η_p	81,3	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,050	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,040	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 $\leq 25\%$	yes	no	13	15	142	125		
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 $\leq 50\%$	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 briquettes	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 DPX 25 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1000 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	24,7	kW	At rated heat output	η_n	81,3	%	
At [30%/50%] rated heat output, if applicable	P_p	11,8	kW	At [30%/50%] rated heat output, if applicable	η_p	81,3	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	EEI		117		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l_{max}}$	0,050	kW	
				At [30%/50%] rated heat output, if applicable	$e_{l_{min}}$	0,040	kW	
				In standby 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 $\leq 25\%$	yes	no	13	15	142	125		
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 $\leq 50\%$	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 briquettes	no	no	-	-	-	-		
Other blend of biomass and fossil fuel	no	no	-	-	-	-		

Boiler information letter								
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Model identifier		ATTACK DPX 25 LAMBDA						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1000 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	25,5	kW	At rated heat output	η_n	81,0	%	
At [30%/50%] rated heat output, if applicable	P_p	11,9	kW	At [30%/50%] rated heat output, if applicable	η_p	81,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,096	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,048	kW	
				In standby mode	P_{SB}	0,007	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	16	224	108		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 30 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1300 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	30,0	kW	At rated heat output	η_n	83,1	%	
At [30%/50%] rated heat output, if applicable	P_p	15,0	kW	At [30%/50%] rated heat output, if applicable	η_p	90,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	85	%	EEI		125		
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, if applicable	el_{min}	0,045	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%	yes	no	20	7	169	177		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 30 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1300 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	30,0	kW	At rated heat output	η_n	83,1	%	
At [30%/50%] rated heat output, if applicable	P_p	15,0	kW	At [30%/50%] rated heat output, if applicable	η_p	90,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	86	%	EEI		126		
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, if applicable	el_{min}	0,045	kW	
				In standby 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	20	7	169	177		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 30 LAMBDA						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1300 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	30,0	kW	At rated heat output	η_n	83,1	%	
At [30%/50%] rated heat output, if applicable	P_p	15,0	kW	At [30%/50%] rated heat output, if applicable	η_p	90,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	85	%	EEI		126		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,080	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,040	kW	
				In standby mode	P_{SB}	0,007	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	5	124	189		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 35 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre 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	81,1	%	
At [30%/50%] rated heat output, if applicable	P_p	16,1	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		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, if applicable	el_{min}	0,045	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 $\leq 25\%$	yes	no	9	17	276	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 $\leq 50\%$	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 briquettes	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 DPX 35 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme 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 preferre 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	81,1	%	
At [30%/50%] rated heat output, if applicable	P_p	16,1	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		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, if applicable	el_{min}	0,045	kW	
				In standby 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 $\leq 25\%$	yes	no	9	17	276	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 $\leq 50\%$	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 briquettes	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 DPX 35 LAMBDA						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1510 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	36,2	kW	At rated heat output	η_n	81,0	%	
At [30%/50%] rated heat output, if applicable	P_p	16,8	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		118		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,080	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,040	kW	
				In standby mode	P_{SB}	0,007	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	17	240	135		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 40 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1700 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	40,0	kW	At rated heat output	η_n	82,4	%	
At [30%/50%] rated heat output, if applicable	P_p	20,0	kW	At [30%/50%] rated heat output, if applicable	η_p	87,2	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	83	%	EEI		122		
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, if applicable	el_{min}	0,049	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%	yes	no	17	13	259	183		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 40 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1700 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	40,0	kW	At rated heat output	η_n	82,4	%	
At [30%/50%] rated heat output, if applicable	P_p	20,0	kW	At [30%/50%] rated heat output, if applicable	η_p	87,2	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	83	%	EEI		122		
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, if applicable	el_{min}	0,049	kW	
				In standby 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	17	13	259	183		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 40 LAMBDA						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1700 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	40,0	kW	At rated heat output	η_n	83,0	%	
At [30%/50%] rated heat output, if applicable	P_p	20,0	kW	At [30%/50%] rated heat output, if applicable	η_p	87,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	83	%	EEI		122		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	el_{max}	0,080	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,040	kW	
				In standby mode	P_{SB}	0,007	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	19	14	153	188		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 45 STANDARD						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 2000 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	46,9	kW	At rated heat output	η_n	81,0	%	
At [30%/50%] rated heat output, if applicable	P_p	22,5	kW	At [30%/50%] rated heat output, if applicable	η_p	81,7	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,061	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,049	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%	yes	no	21	22	268	197		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 45 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 2000 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	46,9	kW	At rated heat output	η_n	81,0	%	
At [30%/50%] rated heat output, if applicable	P_p	22,5	kW	At [30%/50%] rated heat output, if applicable	η_p	81,7	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,061	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,049	kW	
				In standby 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	21	22	268	197		
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	-	-	-	-		
Anthracit	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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 45 LAMBDA						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 1830 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	43,2	kW	At rated heat output	η_n	81,3	%	
At [30%/50%] rated heat output, if applicable	P_p	21,8	kW	At [30%/50%] rated heat output, if applicable	η_p	82,2	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	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}	0,080	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	0,040	kW	
				In standby mode	P_{SB}	0,007	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 $\leq 25\%$	yes	no	18	29	225	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 $\leq 50\%$	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 briquettes	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 DPX 80 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 3700 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	84,4	kW	At rated heat output	η_n	82,8	%	
At [30%/50%] rated heat output, if applicable	P_p	-	kW	At [30%/50%] rated heat output, if applicable	η_p	-	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	81	%	EEI		118		
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption				
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l_{max}}$	0,103	kW	
				At [30%/50%] rated heat output, if applicable	$e_{l_{min}}$	-	kW	
				In standby 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 $\leq 25\%$	yes	no	14	11	208	195		
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 $\leq 50\%$	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 briquettes	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 DPX 100 PROFI						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 4330 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	98,2	kW	At rated heat output	η_n	81,4	%	
At [30%/50%] rated heat output, if applicable	P_p	-	kW	At [30%/50%] rated heat output, if applicable	η_p	-	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	78	%	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}	0,103	kW	
				At [30%/50%] rated heat output, if applicable	el_{min}	-	kW	
				In standby 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	40	18	270	198		
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	-	-	-	-		
Anthracit	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	-	-	-	-		