

Boiler information letter								
Contact details		ATTACK, s.r.o. , Dielenská Kružná 5020, 038 61 Vrútky, Slovenská republika						
Model identifier		ATTACK DPX 25 COMBI PELLET						
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	32,3	kW	At rated heat output	η_n	83,6	%	
At [30%/50%] rated heat output, if applicable	P_p	8,9	kW	At [30%/50%] rated heat output, if applicable	η_p	75,4	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		107		
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	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	yes	no	5	9	315	190		
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 DPX 30 COMBI PELLET						
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	32,3	kW	At rated heat output	η_n	84,8	%	
At [30%/50%] rated heat output, if applicable	P_p	8,9	kW	At [30%/50%] rated heat output, if applicable	η_p	72,3	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	79	%	EEI		103		
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	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	yes	no	14	8	332	172		
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 DPX 35 COMBI PELLET					
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	32,3	kW	At rated heat output	η_n	82,2	%
At [30%/50%] rated heat output, if applicable	P_p	9,0	kW	At [30%/50%] rated heat output, if applicable	η_p	71,6	%
Seasonal energy efficiency of heating				Energy efficiency index			
Seasonal efficiency	η_s	79	%	EI	102		
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	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	yes	no	11	9	267	136	
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 DPX 40 COMBI PELLET						
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	42,6	kW	At rated heat output	η_n	83,7	%	
At [30%/50%] rated heat output, if applicable	P_p	12,3	kW	At [30%/50%] rated heat output, if applicable	η_p	84,6	%	
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}	0,078	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	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	yes	no	6	11	184	155		
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 DPX 45 COMBI PELLET						
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	46,1	kW	At rated heat output	η_n	84,7	%	
At [30%/50%] rated heat output, if applicable	P_p	13,4	kW	At [30%/50%] rated heat output, if applicable	η_p	79,9	%	
Seasonal energy efficiency of heating				Energy efficiency index				
Seasonal efficiency	η_s	80	%	EEI		113		
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	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	yes	no	4	14	224	140		
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 DPX 50 COMBI PELLET						
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volme of at least 2350 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	49,5	kW	At rated heat output	η_n	83,4	%	
At [30%/50%] rated heat output, if applicable	P_p	14,5	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	$e_{l_{max}}$	0,078	kW	
				At [30%/50%] rated heat output, if applicable	$e_{l_{min}}$	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	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	yes	no	7	18	403	190		
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	-	-	-	-		