

Boiler information letter							
Contact details:		ATTACK, s.r.o. , Dielenská Kružná 5020, 038 61 Vrútky, Slovakia					
Model identifier		ATTACK DPX 50 COMBI PELLET					
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2085 l							
Condensing boiler	no	Solid fuel cogeneration boiler	no	Combination boiler	yes		
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	kW	At rated heat output	η_n	81	%
At [30%/50%] rated heat output, if applicable	P_p	15	kW	At [30%/50%] rated heat output, if applicable	η_p	81	%
Seasonal energy efficiency of heating				Energy efficiency index			
Seasonal efficiency	η_s	80	%	EEI		114	
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l_{max}}$	0,086	kW
				At [30%/50%] rated heat output, if applicable	$e_{l_{min}}$	0,043	kW
				In standby mode	P_{SB}	0,015	kW
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions				
			PM	OGC	CO	NO _x	
							[x] mg/m ³ pri 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	-	-	-	-	
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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovakia					
Model identifier		ATTACK DPX 45 COMBI PELLET					
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 2085 l							
Condensing boiler	no	Solid fuel cogeneration boiler	no	Combination boiler	yes		
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	46	kW	At rated heat output	η_n	81	%
At [30%/50%] rated heat output, if applicable	P_p	13	kW	At [30%/50%] rated heat output, if applicable	η_p	81	%
Seasonal energy efficiency of heating				Energy efficiency index			
Seasonal efficiency	η_s	80	%	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}	0,086	kW
				At [30%/50%] rated heat output, if applicable	el_{min}	0,043	kW
				In standby mode	P_{SB}	0,015	kW
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions				
			PM	OGC	CO	NO _x	
							[x] mg/m ³ pri 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	-	-	-	-	
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. , Dielenská Kružná 5020, 038 61 Vrútky, Slovakia					
Model identifier		ATTACK DPX 40 COMBI PELLET					
Stoking model: Manual - the boiler should be operated with a hotwater storage tank of a volume of at least 1725 l							
Condensing boiler	no	Solid fuel cogeneration boiler	no	Combination boiler	yes		
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	kW	At rated heat output	η_n	81	%
At [30%/50%] rated heat output, if applicable	P_p	12	kW	At [30%/50%] rated heat output, if applicable	η_p	81	%
Seasonal energy efficiency of heating				Energy efficiency index			
Seasonal efficiency	η_s	80	%	EEI		114	
For solid fuel cogeneration boilers: Electrical efficiency				Auxiliary electricity consumption			
At rated heat output	$\eta_{el, n}$	-	%	At rated heat output	$e_{l_{max}}$	0,086	kW
				At [30%/50%] rated heat output, if applicable	$e_{l_{min}}$	0,043	kW
				In standby mode	P_{SB}	0,015	kW
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Seasonal space heating emissions				
			PM	OGC	CO	NO _x	
				[x] mg/m ³ pri 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	-	-	-	-	
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	-	-	-	-	