

The following tables list the general specifications for **Navien System Boiler**.

Description	units	NCB-20LHWE	NCB-23LHWE	NCB-28LHWE	NCB-33LHWE
Central Heating					
Heat input range	kW	20.0/4.2	24.0/4.2	29.0/5.1	34.0/4.0
Heat output range @ 80/60°C	kW	19.5/3.9	23.4/3.9	28.3/4.9	33.2/3.8
Condensing heat output range @ 50/30°C	kW	21.4/4.5	25.6/4.5	31.1/5.4	36.3/4.3
Full load efficiency at Max./Min. output @ 80/60°C	%	97.5/96.4	97.5/96.4	97.6/96.4	97.6/95.8
Full load efficiency at Max./Min. output @ 50/30°C (Condensing)	%	106.9/107.8	106.6/107.8	107.3/106.9	106.9/106.9
Partial load (30%) efficiency with 47°C return temp.	%	101.9	103.1	102.0	103.1
Partial load (30%) efficiency with 30°C return temp.	%	108.6	108.9	108.5	108.8
Max. heating operation pressure	bar	2.5			
Max. heating temperature	°C	90			
Adjustable heating temperature range	°C	40-90			
Flue					
Flue exhaust/Air intake system types		B23-B33-B53-C13-C33-C43-C53-C63-C83			
Flue exhaust/Air intake system diameters	mm	Coaxial Ø60/100 and Ø80/125–Dual duct Ø80/80			
Multi-directional fluing LH, RH, Rear and Vertical		✓	✓	✓	✓
Max. horizontal coaxial length ø60/100	m	20			
Max. horizontal coaxial length ø80/125	m	68			
Max. dual duct length ø80/80	m	110			
Equivalent elbow length @ 90° ø80	m	2.2			
Equivalent elbow length @ 45° ø80	m	1.4			
Electrical					
Electrical power supply		230 V/50 Hz			
Appliance protection rating		IP X5D			
Fault finding diagnostics		✓	✓	✓	✓
Built-in frost thermostat		✓	✓	✓	✓
General Data					
Seasonal efficiency rate (SEDBUK 2009)		89.0	89.1	89.0	89.1
NOx Classification		Class 6			
Category		II2H3P			
LPG fuel conversion, including the package		✓	✓	✓	✓
Hydraulic connection diameter	Central Heating	mm	22		
	DHW	mm	15		
	Gas supply	mm	22		
Free Valve kit	mm	✓	✓	✓	✓
Dimensions (Width x Depth x Height)	mm	440 x 358 x 695		440 x 408 x 695	
Total boiler weight (lift weight)	Kg	36		40	

* KD Navien reserves the right to change specifications at anytime without prior notice.