

NBE is a prominent leader within the production of residential and commercial wood pellet boiler systems. NBE was founded by Kim Gregersen and Jannich Hansen, two forward thinking entrepreneurs who were fed up with the rising cost of heating oil and the damaging effects it has had on the environment. In 1999, the two friends decided to do their part to turn it around. Initially operating out of a garage in North Jutland Denmark, the two began installing and exploring with various types of alternative fuels and burner technologies. However, after much consideration and experimentation they concluded that a wood pellet burner was the most viable alternative to compete with oil. This was due to the fact that wood pellets are **inexpensive** and are both **CO2 neutral** and are a **renewable fuel source**. While wood pellet boiler systems existed in the early 2000 they were often far too expensive. In contrast, Kim & Jannich envisioned a high quality product that could be affordable to everyone. It was this realization that marked the true beginning of NBE.

Today, NBE has over **80,000 systems out on the field**. This success can be attributed to our founding vision of delivering to customers the absolute best value on their investment. This requires rapid integration of new technologies, thoughtful and elegant product designing, and state of the art production methods that utilize robot welding and bending technologies. Combined this contributes to the high product reliability and affordability.

RTB Phoenix

Ready to burn



- Flip up 7" capacitive touch screen
- Web enabled controls with built-in WIFI
- 16 output printboard
- Automatic burner cleaning
- Automatic boiler cleaning
- Automatic ash extraction system
- Self compressing ash can
- Ash drawer system with ash level sensor
- Low Noise Compressor
- Boiler circulation pump (only on 10-30 kW models)
- Inbuilt exhaust fan with underpressure sensor
- O2 control with lambda sensor
- Chimney temperature sensor
- Up to 4 weather compensation zone controls
- Hot Water priority controls
- Boiler and hot water timer
- Return water priority
- 10-100% step-less modulating burner with combustion air flow control
- E-mail & SMS notifications*

The boiler

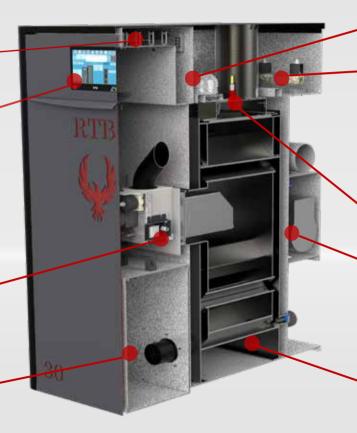
V16 print board w/ wifi module

7" Capacitive Touch Screen

10-100% step-less modulating burner

The 10-100% step-less modulating burner includes air flow combustion control, burner temp/drop shaft sensor, and air compressor cleaning.

Self compressing ash drawer w/ ash can level sensor.



Modulating exhaust fan w/ underpressure control

Automatic air compressor boiler cleaning

O2 sensor

The O2 sensor allows for the oxygen control system to maintain the desired O2% during the combustion process at all power% levels of the burner.

Inbuilt air compressor

Automatic ash extraction

Large self compressing ash can allows up to 3 tons of pellets to be consumed before emptying

Customization

Modularly designed to fit any need and



Choose kW Size



RTB 10 90131000



RTB 16 90131600



RTB 30 90133000



RTB 50 90135000



RTB 80** 80138000

Output	2-11 kW
Efficiency	93,9% (Class 5)
Heats	150-200 m ² *
Replaces	3500 litres of oil/y
Width	504 mm
Depth	920 mm
Height	1236 mm

Output	2-17 kW
Efficiency	91,1% (Class 5)
Heats	200-300 m ² *
Replaces	5000 litres of oil/y
Width	504 mm
Depth	920 mm
Height	1236 mm

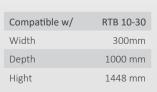
Output	3-28 kW
Efficiency	91,4% (Class 5)
Heats	300-500 m ² *
Replaces	7500 litres of oil/y
Width	655 mm
Depth	926 mm
Height	1240 mm

Output	5-47 kW
Efficiency	93,6% (Class 5)
Heats	500-750 m ² *
Replaces	10000 litres of oil/y
Width	796 mm
Depth	1192 mm
Height	1443 mm

Output	8-78 kW
Efficiency	93,6% (Class 5)
Heats	800-1300 m ² *
Replaces	16500 litres of oil/y
Width	937 mm
Depth	1396 mm
Height	1643 mm

Choose Hopper Size

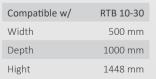




901120



500 901220





700 901320

Compatible w/	RTB 10-30
Width	700 mm
Depth	1000 mm
Hight	1448 mm



NBE hopper 80x80 extension 300085



80x80 kg silo 300087

Compatible w/	RTB 10-80
Width	800mm
Depth	800 mm
Hight	122

Technical Data



RTB 10/16 Phoenix

RTB 30 Phoenix

RTB 50 Phoenix

RTB 80*

Phoenix

SKU:90131000 SKU:90131600

SKU:90133000

SKU:90135000

SKU:90138000



(for RTB 10-30 Phoenix) SKU:901120



(for RTB 10-30 Phoenix) SKU:901220



(for RTB 10-30 Phoenix) SKU:901320

	RTB 10 Phoenix	RTB 16 Phoenix	RTB 30 Phoenix	RTB 50 Phoenix	RTB 80* Phoenix
Output	11kW	17kW	25kW	48kW	78kW
Output low	3kW	5,5kW	7,5kW	14kW	23kW
Efficiency	93,9%	91,1%	91,4%	93,6%	93,6%
Efficiency low	90,5%	92,4%	92,7%	94,6%	93,9%
Power consumption	37W	40W	90W	168W	126W
Power consumption low	24W	20W	34W	39kW	69kW
EN303 - 5:2012 Klasse	5	5	5	5	5
Controller	V16	V16	V16	V16	V16
Width (mm) boiler	504	504	655	816	978
Width incl. 300 hopper	804	804	955	N/A	N/A
Width incl. 500 hopper	1004	1004	1155	N/A	N/A
Width incl. 700 hopper	1204	1204	1355	N/A	N/A
Depth (mm)	920	920	926	1115	1390
Height (mm)	1236	1236	1240	1318	1519
Chimney diameter (mm)	100	100	130	150	180
Weight (kg)	222	222	280	470	580
Water content (liter)	36	36	48	78	105
Ash tray size (liter)	31	31	38	60	60
Forward/Return/Filling size	3/4"	3/4"	3/4"	1"	5/4"
Test report 300-ELAB-	2042	2045	2064	2109	2216
Energy class	A+	A+	A+	A+	A+

Choose Feed Type





Got the muscles and don't mind the work? Then loading your hopper by hand may be right for you. Remember the little extra effort could be well worth it as you begin to see your savings. However, if you ever get tired of manually filling your hopper we have plenty of automatic solutions that you can add-on at any time.



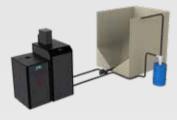
Cloth Silo w/ Auger Transport

Do you have plenty of space in your boiler room? If so, our Cloth Silo option with 3 meter auger transport is the easiest and most cost effective way to achieve automatic bulk feeding to your system. The Cloth Silo assembles in 15 minutes and comes "pellet truck friendly" with inlets for blowing in pellets by your pellet delivery provider. At the bottom of the silo, pellets are transported via a 3 meter long auger to either a hopper or directly into a burner.



Cloth Silo w/ Vac Transport

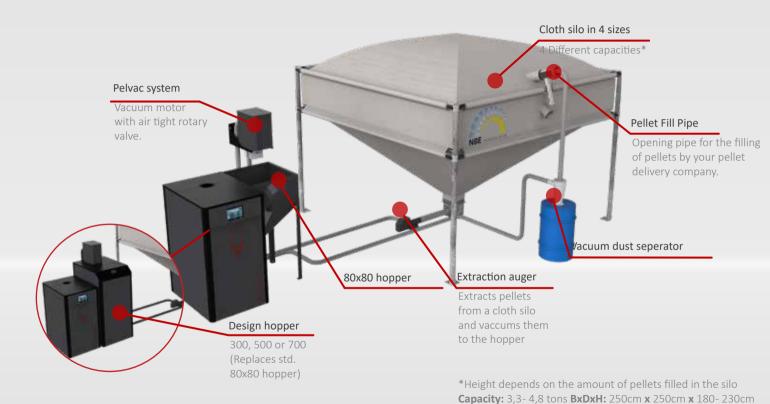
Do you need to transport pellets some distance to your boiler? If so, then consider the Cloth Silo with Vacuum Transport. The vacuum transport system allows for either a 15 or 20 meter distance-depending vacuum on the vacuum motor size. The Cloth Silo assembles in 15 minutes and comes 'pellet truck ready' with inlets for pumping in pellets by your pellet delivery provider. Pellets are extracted via a vac auger and then vacuum transported to your boiler's hopper.



Vaccum Transport w/ self made pellet storage

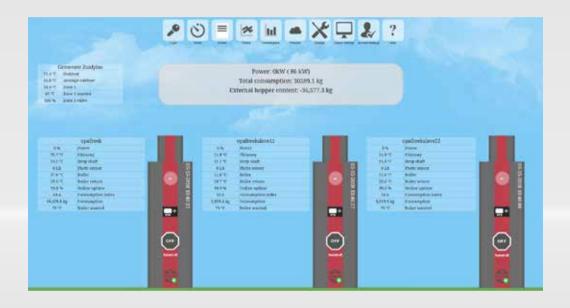
Prefer to build your own pellet storage? Then consider adding the vacuum transport system to your self made pellet storage. The vacuum transport system includes a vacuum auger to extract the pellets from your storage unit and vacuums the pellets to your boiler's hopper. Please note that during construction of your pellet storage the side walls must be angled as to allow for the pellets to easily fall to the extraction area.

Vacuum



Capacity: 4,0- 5,5 tons **BxDxH:** 250cm **x** 250cm **x** 200- 250cm **Capacity:** 4,2- 6,6 tons **BxDxH:** 300cm **x** 300cm **x** 180- 230cm **Capacity:** 5,2- 7,6 tons **BxDxH:** 300cm **x** 300cm **x** 200- 250cm

Cascade system





Choose Accessories



Hot Water priority Kit

Never be stuck without hot water! With the hot water priority kit your system will be able to monitur the temperature of your hot water tank and prioritize the destribution of hot water when the tank temperature gets below a certain specified threshold. This feature will also work during the summer time when heating demands are low



Extention Module

Need more outlets? The new BlackStar + with V13 wireless screen is delivered as standard with extra outputs to connect to accessories, for instance hot water priority and a weather compenzation zone valve. However, if you find that you would like to add more accessories to your system the extention module with 7 extra outlets is an ideal choice to get the extra functionality.



Weather Compensation Kit with Flowbox

Get stable indoor temperatures regardless of the wather! With the weather compensation kit you are able to operate your pellet boiler in a more energy efficient manner with less cycling; while ensuring that indoor temperatures are never too hot, not too cold



StokerCloud

Control from everywhere





Products

The RTB Phoenix lineup



Product Name	Product #
RTB 10 Phoenix	90131000
RTB 16 Phoenix	90131600
RTB 30 Phoenix	90133000
RTB 50 Phoenix	90135000
RTB 80 Phoenix*	90138000
RTB Phoenix hopper 300	901120
RTB Phoenix hopper 500	901220
RTB Phoenix hopper 700	901320
NBE hopper 80x80	300087
Large hopper 3,3-4,8 ton. Single extraction (A)	300037
Large hopper 3,3-4,8 ton. Double extraction (B)	300039
Large hopper 4,0-5,5 ton. Double extraction (B)	300109
Large hopper 4,0- 5,5 ton. Single extraction (A)	300108
Large hopper 4,2-6,6 ton. Single extraction (A)	300110
Large hopper 4,2-6,6 ton. Double extraction (B)	300111
Large hopper 5,2-7,6 ton. Single extraction (A)	300112
Large hopper 5,2-7,6 ton. Double extraction (B)	300113
Auger for pellets burner 200cm 10-80 kW, Steel	300520
Auger for pellets burner 250cm 10-80 kW, Steel	300525
Auger for pellets burner 300cm 10-80 kW, Steel	300530

Product Name	Product #
Auger for pellets burner 400cm 10-80 kW, Steel	300540
600Watt Pelvac Vacuum Transport System with rotary valves and inbuilt controller	707000
1000Watt Pelvac Vacuum Transport System with rotary valves and inbuilt controller	708000
600Watt Pelvac Vacuum Transport System with rotary valves (to be connected to V16 conroller)	707100
1000Watt Pelvac Vacuum Transport System with rotary valves (to be connected to V16 conroller)	708100
Vacuum Dust Seperator	701001
Wall mount for Pelvac	706026
3/4" KIT for weather compensation including a flowbox new model	510036
1" KIT for weather compensation including a flowbox new model	510041
NBE 3 ways motorized valve for weather compensation 3/4" KIT	570024
NBE 3 ways motorized valve for weather compensation 1" KIT	570026
Extension module for V16 Controler	300211

