

## Duonit®: innovative compact cylindrical burner with a round head



### Application

To complement existing proven and successful product lines, Furipat®, Aconit® and Furinit®, we have combined the best of Aconit® and Furinit®. The result of this innovation is Duonit®: a hybrid comprising an Aconit® cylindrical burner in combination with a Furinit® round head. The Duonit® gas burner can be installed into a heat exchanger with a long combustion chamber. The flames on the head of the Duonit® allow you to reduce significantly the height of the gas burner in relation with the length of the combustion chamber. The Duonit® has considerable size and shape options and a compact design with a high specific loading.



Turning up the heat on energy efficiency

## Discover our new burner concept: Duonit®

Duonit® is combining the Aconit® technology with that of the Furinit®. This means that you get all the best from both types of burner concept. Furinit® with its excellent modulation properties and very high loading, Aconit® with its robust and proven design. This combination offers you a wide range of combinations in diameter and length and an equally wide range in distributing heat load between the cylindrical part and the end cap.

Duonit® is based on the unique Bekaert Bekinit® material. Thanks to its excellent heat resistance, insulation characteristics and flexibility, this material is used as gas burner surface media. The knitted structure is based on ultra thin, high temperature resistant stainless steel fibres. This in combination with the knitting process makes a burner surface that has superior properties to any other burner surface. The Bekinit® structure is completely 3-dimensional creating loops that give flexibility, excellent insulation and the best possible cooling to the flame. It is designed to last the life of the boiler and to endure normal service and cleaning operations.

Benefit exclusively from Bekaert's leading experience in the combustion technology!

### Benefits

- Developed to reduce the size of the burner inside the longer combustion chambers without losing any performance
- Many size options in height and diameter
- Equipped with Bekaert Bekinit® material which has superior properties over any other burner surface material

### Specifications

- Extremely compact
- Suited for longer combustion chambers
- Available in various sizes for all boiler loads
- Reduces significantly the height of the burner relative to the length of the combustion chamber
- High modulation range of 1 to 35 kW/dm<sup>2</sup> (dependent upon appliance and dimensions)
- High power outputs of up to 1 MW (bigger sizes available on request)
- NOx emission level is 50 mg/kWh (blue angel)
- CO emission level is 50 mg/kWh (blue angel)
- Compatible with all gases of the first, second and third family

Size options		
Diameter (mm)	Maximum length (mm)	Maximum heat load (kW)
50	380	65
70	500	140
98	600	320
140	700	650
200	900	1400
245	900	2000

Heat load and maximum length are indicative and dependent upon appliance and application



### Duonit® is a product of:

#### Europe

Bekaert Combustion Technology B.V.  
J.C. van Markenstraat 19  
9403 AR Assen  
The Netherlands  
T +31 592 345 145  
F +31 592 345 483  
bct@bekaert.com

#### USA

Bekaert Combustion Technology  
1395 S. Marietta Parkway  
Building 700, Suite 708  
Marietta GA 30067  
USA  
T +1 770 514 2273  
F +1 770 423 9181  
bct-us@bekaert.com

#### Asia

Bekaert Korea Ltd.  
3rd Floor Changwoo Building,  
#553 Dogok-Dong, Kangnam-Ku,  
Seoul, 135-270  
South Korea  
T +82 2 539 8762  
F +82 2 539 8780  
jan.chun@bekaert.co.kr

Bekaert Management (Shanghai) Co., Ltd  
17F, Block E, Waterfront Palace, No. 31  
Lane 168, Daduhe Road  
Shanghai 200062, P.R.  
China  
T +86 2122 1971 03  
F +86 2122 1971 00  
xing.fan@bekaert.com

Bekaert Japan Co., Ltd.  
3F, 2-27-10, Hatchobori, Chuo-ku  
Tokyo 104-0032  
Japan  
T +81 3 5542 7624  
F +81 3 5542 7771  
takeshi.masu@bekaert.com

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