| Essential characteristics Performance  |                                |   |  |              |  |
|--|--------------------------------|---|--|--------------|--|
| Range  | Shaft type                     | Shaft                                       | Sealing  | Installation | Classification   |
| 200x200 mm ≤ VU120+MANF/BLE + grill ≤ 1200x800 mm; 1000x1000. 200x200 mm ≤ VU120+NF/SF + grill ≤ 1200x650 mm; 950x750 mm | Vertical / horizontal<br>shaft | Promatect L500 ≥ 30 mm                      | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  | 1            | El 60 (v <sub>ed</sub> h <sub>od</sub> i ↔ o) 5 1500 AA multi  |
|  |                                | Geoflam ≥ 30 mm                             | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Geotec ≥ 30 mm                              | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Tecniver ≥ 35 mm                            | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  |              |  |
|  |                                | Glasroc F V500 ≥ 35 mm                      | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  |              |  |
|  |                                | Exthamat ≥ 25 mm                            | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Desenfire ≥ 25 mm HD                        | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  | Vertical / horizontal<br>shaft | Promatect L500 ≥ 40 mm                      | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  | 1            | El 90 (v <sub>ed</sub> h <sub>od</sub> i ↔ o) S 1500 AA multi  |
|  |                                | Geoflam ≥ 35 mm                             | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Tecniver ≥ 45 mm                            | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  |              |  |
|  |                                | Exthamat ≥ 30 mm                            | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Desenfire ≥ 25 mm THD                       | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  | Vertical shaft                 | Reinforced concrete (≥ 2150 kg/m³) ≥ 70 mm  | Mortar   | 1            | El 90 (v <sub>ed</sub> i ↔ o) S 1500 AA multi                  |
|  | Vertical / horizontal<br>shaft | Promatect L500 ≥ 50 mm                      | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  | 1            | El 120 (v <sub>ed</sub> h <sub>od</sub> i ↔ o) S 1500 AA multi |
|  |                                | Geoflam ≥ 45 mm                             | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Geoflam Light ≥ 35 mm                       | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Geotec ≥ 45 mm                              | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Tecniver ≥ 50 mm                            | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  |              |  |
|  |                                | Glasroc F V500 ≥ 50 mm                      | Gap between duct and damper (≤ 6 mm) sealed with refractory kit (on a depth ≥ 105 mm)  |              |  |
|  |                                | Exthamat ≥ 35 mm                            | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Desenfire ≥ 35 mm HD                        | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  |                                | Desenfire STR ≥ 25 mm                       | Gap between duct and damper (≤ 80 mm) sealed with refractory kit (on a depth ≥ 105 mm) |              |  |
|  | Vertical shaft                 | Masonry, concrete blocks, concrete ≥ 100 mm | Mortar   | 1            | El 120 (v <sub>ed</sub> i ↔ o) S 1500 AA multi                 |

Type of installation: shaft-mounted 0/90°/180°/270°. Minimal distances authorised.

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| Nominal activation conditions/sensitivity:   | Pass - automatic activation  |
|--|--|
| Response delay (response time): closure time | Pass - automatic activation  |
| Operational reliability: cycling             | Belimo NF - 300 cycles (with load); Belimo SF - 300 cycles (with load); MANF - 300 cycles (no load); BLE - 10000 cycles (C10000) (no load) |
| Durability of response delay:                | Pass   |
| Durability of operational reliability:       | Pass   |
| High operational temperature (HOT 400/30):   | NPD (no performance determined)  |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by: Mathieu Steenland, Technical Manager



Oosterzele, 11/2019