

# Cricketfilter®

## FOR WET CAKE DISCHARGE

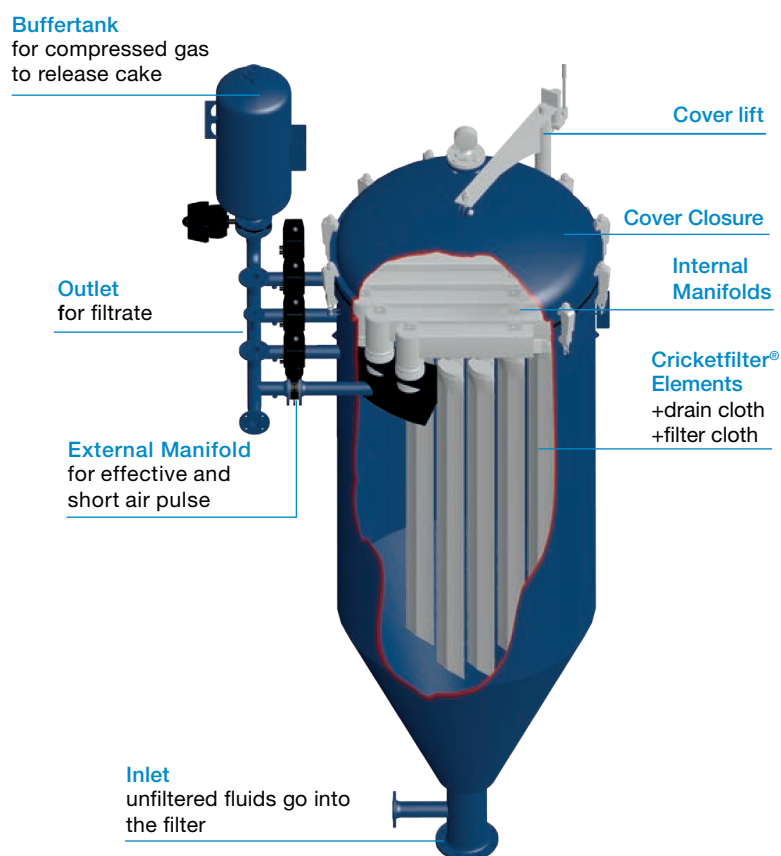
The Cricketfilter® was successfully launched in 1990 and has since been installed in over 1,000 industrial and food applications globally. It has become a well-established pressure filter, developed to combine the advantages of pressure leaf filters and cartridge/candle filters whilst avoiding their drawbacks.

The Cricketfilter® is especially suited for separating fine solids from fluids, widely deployed in applications such as edible oil, gelatine, cocoa butter, sugar, sweeteners, oleo chemicals, mining and amine cleaning. The Cricketfilter® offers versatility for a wide range of applications while providing confidence in critical environments.

It is available as a standard in stainless steel 316L. Carbon steel and other special alloy materials, design pressures/temperatures and design codes can be provided upon request. For the discharge of the cake, the carriage with the filter leaves is moved outside the filter tank with either an electric or a hydraulic system, which also operates the bayonet closure. The cake is then discharged by a pneumatic vibrator.

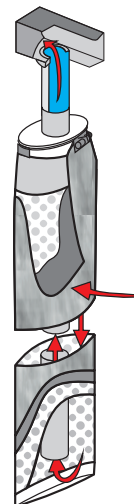
### FEATURES AND BENEFITS

- Up to 40% larger filtration area than traditional pulse tube filter systems
- Large filtration area within a small footprint
- Hermetically closed system and can be fully automated
- Suitable for direct cloth filtration or precoat/body-aid filtration
- High filtrate quality
- The Cricketfilter® is simple to clean. It uses air or gas pulses for cleaning the elements section by section, without requiring a vibrator
- Low maintenance
- Suitable for a wide range of applications
- The Cricketfilter® can be used with filter cloths of various pore sizes and materials. This reduces and at times eliminates the amount of extrapre-coating needed, making filtration more economical.
- Cricketfilter® automation. It is possible to automate, therefore ensuring low necessary maintenance.



## STANDARD DESIGN DATA

| Criteria                     | Detail                                                                                                        |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| Tank Material                | Stainless Steel, others upon request.                                                                         |
| Filter Elements Material     | Stainless Steel                                                                                               |
| Design Pressure              | -1/6 bar(g)                                                                                                   |
| Desing Temperature           | -10/150 °C (depending on filter cloth)                                                                        |
| Max. allowable pressure drop | 4.5 bar                                                                                                       |
| Design Approval              | ASME VIII Div. 1, others upon request.<br>PED 2014/68/EU,<br>SELO 02257 (China) ,<br>TR CU (EACU),<br>U Stamp |



## SPECIFICATIONS

| Model                         | Filter area<br>m <sup>2</sup> | Element length<br>mm | Element spacing<br>mm | Cake volume<br>dm <sup>3</sup> | Filter volume<br>dm <sup>3</sup> | Inlet / Outlet<br>DN | Filtrate outlet<br>DN | Vent<br>DN | Cake discharge<br>DN |
|-------------------------------|-------------------------------|----------------------|-----------------------|--------------------------------|----------------------------------|----------------------|-----------------------|------------|----------------------|
| <b>SMALL ELEMENT SPACING</b>  |                               |                      |                       |                                |                                  |                      |                       |            |                      |
| 800W-11/1000-58               | 11                            | 1000                 | 58.0                  | 140                            | 870                              | 50                   | 2x50                  | 65         | 100                  |
| 800W-16/1500-58               | 16                            | 1500                 | 58.0                  | 210                            | 1110                             | 50                   | 2x50                  | 65         | 100                  |
| 1000W-27/1500-58              | 27                            | 1500                 | 58.0                  | 350                            | 1810                             | 65                   | 4x50                  | 65         | 150                  |
| 1200W-42/1500-58              | 42                            | 1500                 | 58.0                  | 540                            | 2750                             | 100                  | 4x50                  | 65         | 200                  |
| 1200W-35/1500-68              | 35                            | 1500                 | 67.5                  | 520                            | 2750                             | 100                  | 4x50                  | 100        | 200                  |
| 1200W-58/2500-68              | 58                            | 2500                 | 67.5                  | 870                            | 3870                             | 100                  | 5x80                  | 100        | 200                  |
| 1400W-78/2500-68              | 78                            | 2500                 | 67.5                  | 1170                           | 5420                             | 150                  | 5x80                  | 100        | 200                  |
| 1600W-108/2500-68             | 108                           | 2500                 | 67.5                  | 1610                           | 7280                             | 150                  | 6x80                  | 150        | 250                  |
| 1800W-139/2500-68             | 139                           | 2500                 | 67.5                  | 2090                           | 9400                             | 150                  | 6x100                 | 150        | 250                  |
| 2000W-180/2500-68             | 180                           | 2500                 | 67.5                  | 2710                           | 11900                            | 200                  | 7x100                 | 150        | 300                  |
| 2200W-222/2500-68             | 222                           | 2500                 | 67.5                  | 3340                           | 14720                            | 200                  | 9x100                 | 150        | 300                  |
| 2400W-272/2500-68             | 272                           | 2500                 | 67.5                  | 4080                           | 17920                            | 200                  | 9x100                 | 150        | 300                  |
| <b>MEDIUM ELEMENT SPACING</b> |                               |                      |                       |                                |                                  |                      |                       |            |                      |
| 800W-7.4/1000-80              | 7.4                           | 1000                 | 80                    | 150                            | 870                              | 50                   | 2x50                  | 50         | 100                  |
| 800W-11/1500-80               | 11.0                          | 1500                 | 80                    | 220                            | 1110                             | 50                   | 2x50                  | 50         | 100                  |
| 1000W-19/1500-80              | 19.0                          | 1500                 | 80                    | 370                            | 1810                             | 65                   | 3x50                  | 65         | 150                  |
| 1200W-26/1500-90              | 26.0                          | 1500                 | 90                    | 580                            | 2750                             | 100                  | 3x65                  | 80         | 200                  |
| 1200W-44/2500-90              | 44.0                          | 1500                 | 90                    | 960                            | 3870                             | 100                  | 3x65                  | 80         | 200                  |
| 1400W-62/2500-90              | 62.0                          | 2500                 | 90                    | 1370                           | 5420                             | 100                  | 4x65                  | 100        | 200                  |
| 1600W-81/2500-90              | 81.0                          | 2500                 | 90                    | 1770                           | 7280                             | 150                  | 5x80                  | 100        | 200                  |
| 1800W-105/2500-90             | 105.0                         | 2500                 | 90                    | 2310                           | 9400                             | 150                  | 5x100                 | 150        | 250                  |
| 2000W-137/2500-90             | 137.0                         | 2500                 | 90                    | 3020                           | 11900                            | 150                  | 6x100                 | 150        | 250                  |
| 2200W-169/2500-90             | 169.0                         | 2500                 | 90                    | 3720                           | 14720                            | 200                  | 7x100                 | 150        | 300                  |
| 2400W-208/2500-90             | 208.0                         | 2500                 | 90                    | 4580                           | 17920                            | 200                  | 8x100                 | 150        | 300                  |
| <b>LARGE ELEMENT SPACING</b>  |                               |                      |                       |                                |                                  |                      |                       |            |                      |
| 1200W-22/1500-110             | 22                            | 1500                 | 110                   | 640                            | 2750                             | 80                   | 3x65                  | 80         | 200                  |
| 1200W-37/2500-110             | 37                            | 2500                 | 110                   | 1070                           | 3870                             | 80                   | 3x65                  | 80         | 200                  |
| 1400W-29/1500-110             | 29                            | 1500                 | 110                   | 850                            | 5420                             | 100                  | 3x65                  | 100        | 200                  |
| 1400W-49/2500-110             | 49                            | 2500                 | 110                   | 1420                           | 5420                             | 100                  | 3x65                  | 100        | 200                  |
| 1600W-69/2500-110             | 69                            | 2500                 | 110                   | 2000                           | 7280                             | 150                  | 4x80                  | 100        | 250                  |
| 1800W-90/2500-110             | 90                            | 2500                 | 110                   | 2610                           | 9400                             | 150                  | 5x100                 | 150        | 250                  |
| 2000W-109/2500-110            | 109                           | 2500                 | 110                   | 3170                           | 11900                            | 150                  | 5x100                 | 150        | 300                  |
| 2200W-138/2500-110            | 138                           | 2500                 | 110                   | 4010                           | 14720                            | 150                  | 7x100                 | 150        | 300                  |
| 2400W-170-2500/110            | 170                           | 2500                 | 110                   | 4920                           | 17920                            | 200                  | 7x100                 | 150        | 300                  |

Other models available upon request.

Dimensions are for reference only. Subject to technical alteration without prior notice.

