CLAIMS

What is claimed is:

1. A filter for a cleaning system, comprising:

a separator element accommodated in a telescopic arrangement within a housing, comprising:

a first hollow member configured to be connected to an inlet of the cleaning system, wherein the inlet is tangential to the first hollow member;

a conical separator accommodated within the first hollow member; and

a second hollow member adjoined to the first hollow member and the conical separator,

wherein the conical separator separates water from a debris received from the inlet of the cleaning system in the first hollow member when the debris is centrifugally circulated relative to the conical separator, wherein the water is drained from the first hollow member to the second hollow member.

2. The filter of claim 1, wherein the first hollow member further comprises:

a first flange adjoined to the conical separator, wherein the first flange extends vertically downwards by a predefined distance from a base of the conical separator, wherein the base comprises:

a first set of grooves formed on a circumference of the base and adjoined to the first flange, wherein the first set of grooves is configured to drain water separated by the conical separator to the second hollow member.

3. The filter of claim 2, wherein the second hollow member further comprises:

a second flange extending vertically downwards by a predefined distance from a base of the second hollow member, wherein the base comprises:

a second set of grooves formed on a circumference of the base and adjoined to the second flange, wherein the second set of grooves are configured to drain water received from the first set of grooves towards a collection chamber of the cleaning system.

4. The filter of claim 3 and further comprising:

a passage formed between the first flange and the second flange; and

a bore formed on the second flange and in line with the passage, wherein the passage and the bore cooperatively configured to drain water towards the collection chamber of the cleaning system.

5. The filter of claim 1, wherein the housing comprises a vacuum outlet, and wherein the vacuum outlet is fluidically coupled to the inlet.

6. The filter of claim 1, wherein the conical separator comprises:

a plurality of slits comprising any one of:

a spiral slit,

a vertical slit,

a elliptical slit, or

an array of perforated holes.

7. A cleaning system, comprising:

a filter positioned within a collection chamber of the cleaning system, comprising:

a separator element accommodated in a telescopic arrangement within a housing, comprising:

a first hollow member configured to be connected to an inlet of the cleaning system, wherein the inlet is tangential to the first hollow member;

a conical separator accommodated within the first hollow member; and

a second hollow member adjoined to the first hollow member and the conical separator,

wherein the conical separator separates water from a debris received from the inlet of the cleaning system in the first hollow member when the debris is centrifugally circulated relative to the conical separator, wherein the water is drained from the first hollow member to the second hollow member.

8. The cleaning system of claim 7, wherein the first hollow member further comprises:

a first flange adjoined to the conical separator, wherein the first flange extends vertically downwards by a predefined distance from a base of the conical separator, wherein the base comprises:

a first set of grooves formed on a first circumference of the base and adjoined the first flange, wherein the first set of grooves is configured to drain water separated by the conical separator to the second hollow member.

9. The cleaning system of claim 8, wherein the second hollow member further comprises:

a second flange extending vertically downwards by a predefined distance from a base of the second hollow member, wherein the base comprises:

a second set of grooves formed on a circumference of the base and adjoined to the second flange, wherein the second set of grooves are configured to drain water received from the first set of grooves towards a collection chamber of the cleaning system.

10. The cleaning system of claim 9 and further comprising:

a passage formed between the first flange and the second flange; and

a bore formed on the second flange and in line with the passage, wherein the passage and the bore cooperatively configured to drain water towards the collection chamber of the cleaning system.

11. The cleaning system of claim 7, wherein the housing comprises a vacuum outlet, and wherein the vacuum outlet is fluidically coupled to the inlet.

12. The cleaning system of claim 7, wherein the conical separator comprises:

a plurality of slits comprising any one of:

a spiral slit,

a vertical slit,

a elliptical slit, or

an array of perforated holes.