What is claimed is:

1. A laundry treatment apparatus, comprising:

at least two containers arranged in parallel, wherein a container of the at least two containers is used for accommodating laundry; and

a drying device, alternatively communicated with one of the at least two containers to form a circulation path, wherein the drying device is used for dehumidifying a humid airflow from the container into a dry airflow, and the dry airflow enters the container to dry the laundry,

wherein the drying device comprises:

a circulation module, communicated with the container and used for providing power for circulation flowing of the humid airflow in the container;

a dehumidification module, located downstream or upstream of the circulation module and communicated with the container, wherein the dehumidification module is used for adsorbing moisture from the humid airflow in the container and outputting the generated dry airflow into the container;

a regeneration module, communicated with the dehumidification module and used for outputting a dry regenerated airflow to the dehumidification module to desorb the moisture from at least part of the dehumidification module to restore a dehumidification capability of the dehumidification module,

an air inlet channel, communicated with the circulation module and the container, and used for a humid circulation airflow from the container to enter the circulation module; and

an air outlet channel, arranged to communicate the dehumidification module with the container, and used as a channel for a dry circulation airflow after moisture desorption to enter the container,

wherein the circulation module, the dehumidification module and the regeneration module of the drying device are substantially within a plane, and

wherein the container comprises an air inlet passage and an air outlet passage, the air inlet passage is communicated with the air outlet channel, so that the dry circulation airflow after moisture desorption enters the container; and the air outlet passage is communicated with the air inlet channel, so that the humid circulation airflow in the container enters the circulation module.

2. The laundry treatment apparatus according to claim 1, wherein the drying device is arranged above or below at least one container, and a plane where the drying device is located is parallel to a rotation axis of the container.

3. The laundry treatment apparatus according to claim 1, further comprising:

a switching mechanism, used for controlling the drying device to be communicated with the container;

wherein the switching mechanism is arranged on a pipeline of the drying device communicated with the container.

4. The laundry treatment apparatus according to claim 3, wherein,

the switching mechanism comprises a first switching mechanism and a second switching mechanism;

wherein the first switching mechanism is used for controlling connection or disconnection between each air inlet passage and the air outlet channel; the first switching mechanism is arranged at a joint between the air inlet passage and the air outlet channel; and

a number of the first switching mechanism is more than one, and more than one first switching mechanism is respectively arranged within the air inlet passage of the container;

the second switching mechanism is used for controlling connection or disconnection between each air outlet passage and the air inlet channel; and the second switching mechanism is arranged at a joint between the air outlet passage and the air inlet channel; and

a number of the second switching mechanism is more than one, and more than one second switching mechanism is respectively arranged within the air outlet passages of the container.

5. The laundry treatment apparatus according to claim 1, wherein the drying device further comprises:

a condensation module, communicated with a regenerated air outlet of the regeneration module and used for condensing the regenerated airflow outputted by the regeneration module to form a low-temperature dry airflow;

wherein an air outlet of the condensation module is communicated with a regenerated air inlet of the regeneration module.

6. The laundry treatment apparatus according to claim 5, wherein the drying device is provided with a packaging housing, comprising:

a first housing, comprising a first turntable housing for housing the dehumidification module, a first circulation housing for housing the circulation module, a first condensation housing for housing the condensation module, and a regeneration housing for housing the regeneration module; and

a second housing, comprising a second turntable housing for housing the dehumidification module, a second circulation housing for housing the circulation module and a second condensation housing for housing the condensation module;

wherein the first turntable housing, the first circulation housing and the first condensation housing are at least integrally formed as the first housing, or separately formed as a plurality of discrete first housing components; and

the second turntable housing, the second circulation housing and the second condensation housing are at least respectively formed as a plurality of discrete second housing components.

7. The laundry treatment apparatus according to claim 6, further comprising:

a frame, wherein the container is located within the frame and flexibly connected to the frame;

wherein the drying device is located on top of the frame; and

at least one mounting part is arranged on the first housing, and the mounting part is connected to the top of the frame to fix a position of the drying device.

8. The laundry treatment apparatus according to claim 1, wherein,

the air inlet passage is arranged on a sidewall of the container, and the air inlet passage extends upward and is flexibly connected to the air outlet channel; and

the air outlet passage is arranged on a backwall of the container, the air outlet passage is close to a left side or a right side of the container, and the air outlet passage extends upward and is flexibly connected to the air inlet channel.

9. The laundry treatment apparatus according to claim 1, wherein rotation axes of at least two of the circulation module, the dehumidification module and the regeneration module within the

drying device are parallel to each other and substantially perpendicular to a rotation axis of the container.

10. The laundry treatment apparatus according to claim 1, wherein,

a rotation axis of the circulation module and a rotation axis of the dehumidification module are arranged to be in different planes from and perpendicular to a rotation axis of the container and distributed on either side of the rotation axis of the container; and

the regeneration module is arranged on a side of the circulation module, and the regeneration module and the dehumidification module are respectively located on either side of the rotation axis of the container.

11. The laundry treatment apparatus according to claim 1, wherein, when a plane where the drying device is located is horizontally arranged according to one of following manners:

above the container, wherein the air inlet channel is arranged on a rear left side or a rear right side of the container, and the circulation module communicated with the air inlet channel is also correspondingly arranged at an upper part of the rear left side or the rear right side of the container;

below the container, wherein the air inlet channel is arranged to extend along a bottom part, a back part and an upper part of the laundry treatment apparatus in sequence, and communicate an air outlet of the container with an air inlet of a circulation fan; or

below the container, wherein the air outlet channel is arranged to extend along a bottom part, a back part and an upper part of the laundry treatment apparatus, and communicate an air outlet of the dehumidification module with an air inlet of the container.

12. The laundry treatment apparatus according to claim 1, wherein the drying device is arranged behind the container, and a plane where the drying device is located is perpendicular to a rotation axis of the container;

wherein, a rotation axis of the circulation module and a rotation axis of the dehumidification module are parallel to the rotation axis of the container and distributed on either side of the rotation axis of the container; and

the regeneration module is arranged on a side of the circulation module, and the regeneration module and the dehumidification module are respectively located on either side of the rotation axis of the container.

13. The laundry treatment apparatus according to claim 12, wherein, the drying device further comprises at least one of:

an air inlet channel, wherein the air inlet channel is arranged to extend in a direction perpendicular to the rotation axis of the container, communicate an air outlet of the container with an air inlet of the circulation module, and be used as a channel for the humid circulation airflow from the container to enter the circulation module; or

an air outlet channel, wherein the air outlet channel is arranged to extend in a direction parallel to the rotation axis of the container and communicate an air outlet of the dehumidification module with an air inlet of the container, and is used as a channel for the dry circulation airflow after dehumidification to enter the container.

14. The laundry treatment apparatus according to claim 4, further comprising:

a filtering mechanism, comprising:

a filter, arranged on an air outlet passage of the container or within the air inlet channel of the drying device; and

a filter self-cleaning device, used for cleaning the filter;

wherein, the filter and the filter self-cleaning device are arranged within the air inlet channel of the drying device, and are located between the second switching mechanism and the circulation module; and

a number of the filter and a number of the filter self-cleaning device are more than one, more than one filter and more than one filter self-cleaning device are respectively arranged on the air outlet passage of the container and located upstream or downstream of the second switching mechanism.

15.The laundry treatment apparatus according to claim 14, wherein, the filter self-cleaning device comprises at least one of:

a spraying mechanism for spraying on the filter;

a vibration mechanism for driving the filter to vibrate; a blowing mechanism for blowing the filter; or

a scraping mechanism for scraping the filter.

16. The laundry treatment apparatus according to claim 15, wherein a direction of a fluid of the spraying mechanism flowing through the filter is opposite to a direction of an airflow flowing through the filter; and

the filter and the filter self-cleaning device are arranged within the air inlet channel of the drying device and located between the second switching mechanism and the circulation module; the filter self-cleaning device comprises the spraying mechanism for spraying on the filter, and a fluid spraying direction of the spraying mechanism is a direction away from the circulation module; and

a nozzle of the spraying mechanism is arranged above a center line of the filter or on a side of an airflow outlet of the filter.

17. The laundry treatment apparatus according to claim 15 or 16, wherein the container comprises a first tub and a second tub, the drying device is located between the first tub and the second tub, and at least one of the first tub or the second tub is an inner tub of a washing machine.