



## PET Crystallizer

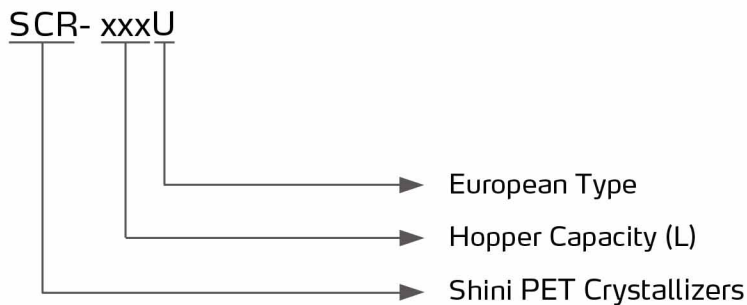
SCR-450U



Refer carefully to this manual before operation.

# SCR Series

## ■ Coding Principle



Notes: \*

CE=CE Conformity    ML=Optional with safety ladder

## ■ Features

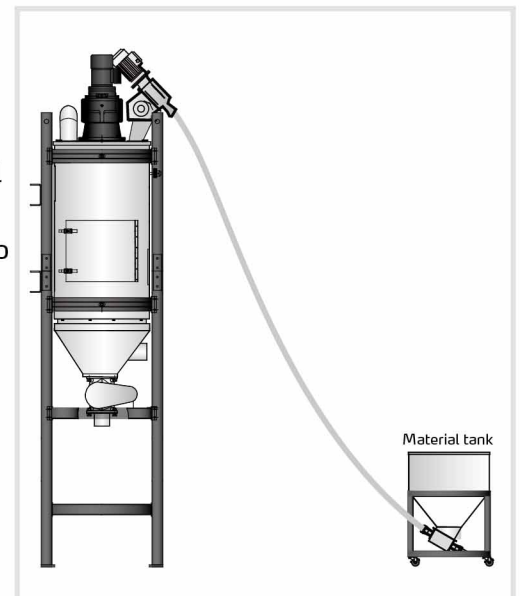
- Fixed speed of agitator makes materials not lump together during the crystallization.
- Simplify and improve drying efficiency.
- Materials can be dried under high temperature to improve drying efficiency.
- Cyclone dust collector is standard, which is applied to dust-rich place. Can effectively reduce the load on filter bag, and reduce the number of times of filter bag cleaning, thus extend the life span of the filter bag.
- With double overheat protector, it can reduce the possibility of either mechanical or man-made problems.
- Equipped with rotary valve with good sealing performance, which can output crystallized material accurately.
- Equipped with material level switch, which can detect material level accurately and make operation reliable.
- Equipped with negative pressure tester(excluding SCR-1600U) to immediately test the ventilation of the filter. Give an alarm when the negative pressure is higher than the setting value, clean the filter to avoid blockage.

## ■ Options

- Collocate with dehumidifier to fulfill dehumidification directly.
- Safety ladder is optional(only for SCR-900U and above models).
- Auto loader, Vacuum hopper receiver are optional for material conveying.
- Optional feed screw for stable and even conveying of un-crystallized material.
- External pipeline is optional with the stainless steel configuration.

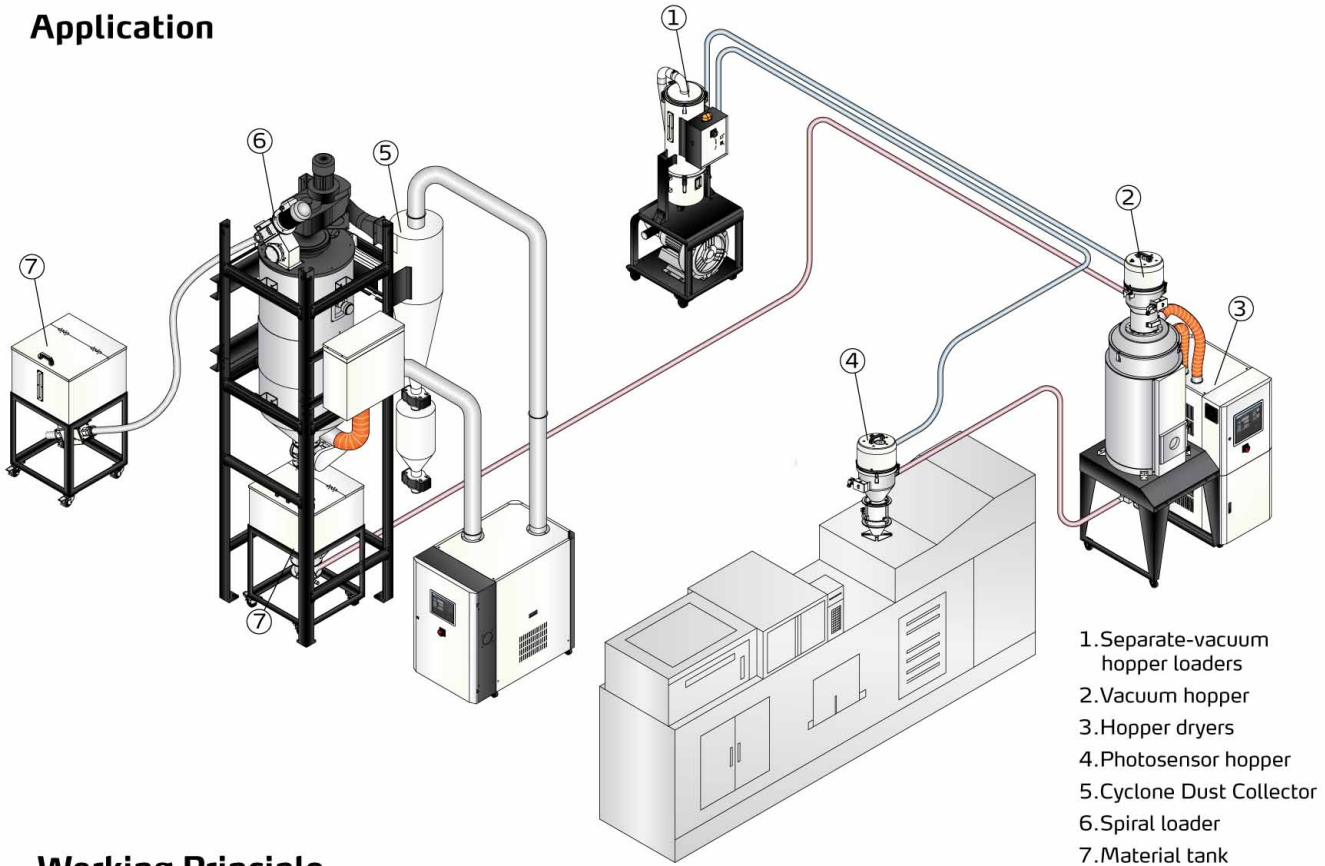


Inner Structure



Feed Screw (optional)

## Application

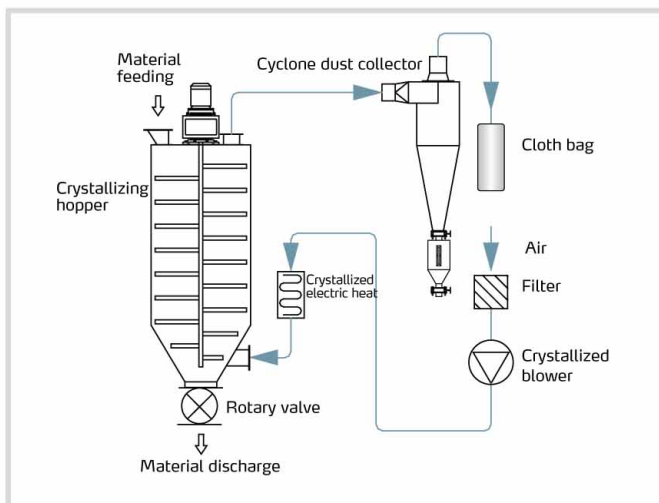


1. Separate-vacuum hopper loaders
2. Vacuum hopper
3. Hopper dryers
4. Photosensor hopper
5. Cyclone Dust Collector
6. Spiral loader
7. Material tank

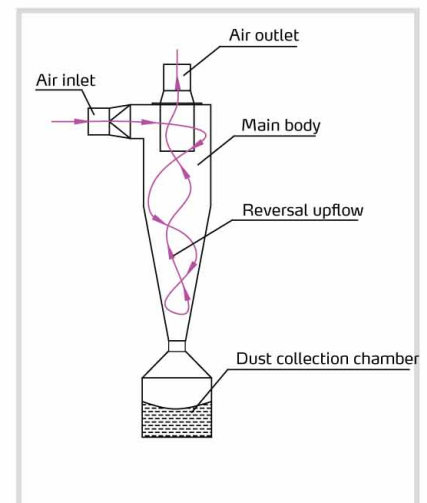
## Working Principle

Once material filling starts, heat blower starts up and material heating begins. Control cabinet would stop sending signals to auto loader when material filling amount is higher than material level switch. Then material heating lasts for a while. When temperature sensing needle detects the value of reaching the set crystallized temperature, material would be conveyed out via feeding device; meanwhile, as material level in hopper lowers gradually, filling device starts to supply the uncrystallized material accordingly to realize the continuous crystallization process.

When temperature sensing needle detects the temperature value of stopping material conveying, feeding device halts. If temperature rises again to reach the set crystallized temperature, feeding device will be activated to work so that the continuous crystallization process can be realized through this kind of circle.



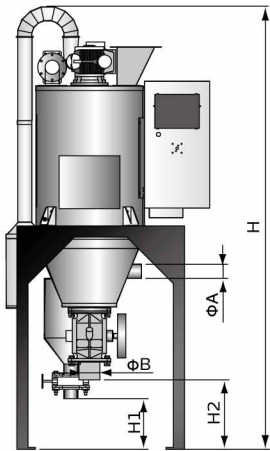
Working Principle



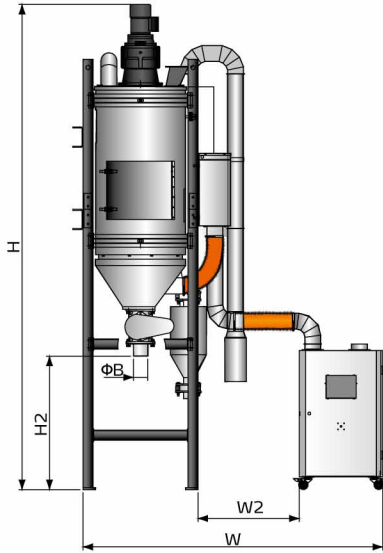
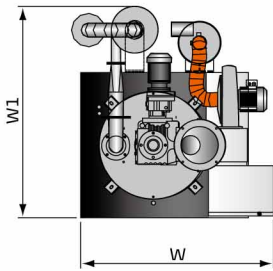
Working Principle of Cyclone Dust Collector

# SCR Series

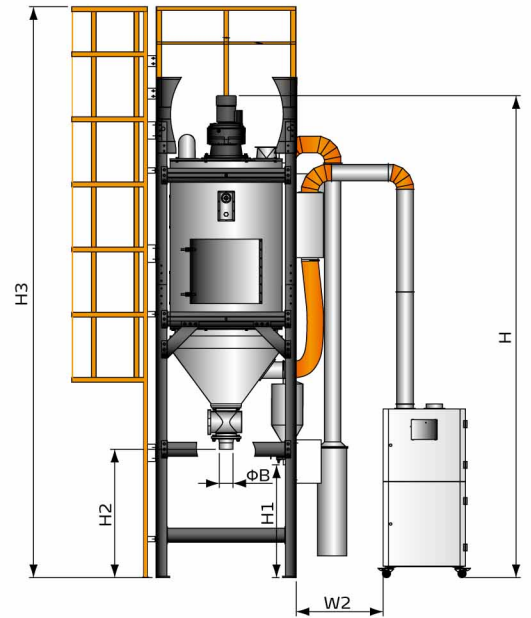
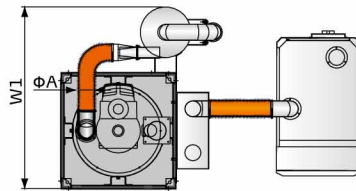
## Outline Drawings



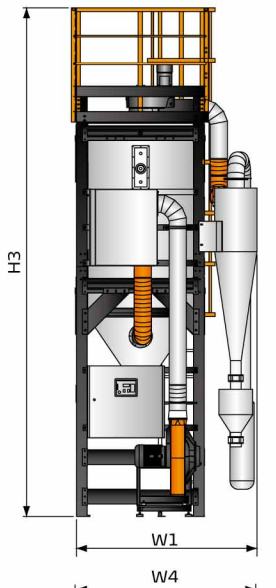
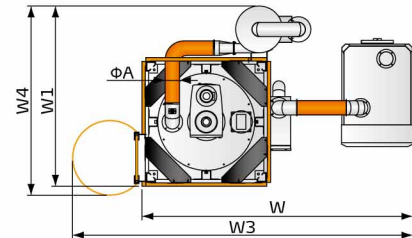
SCR-160U



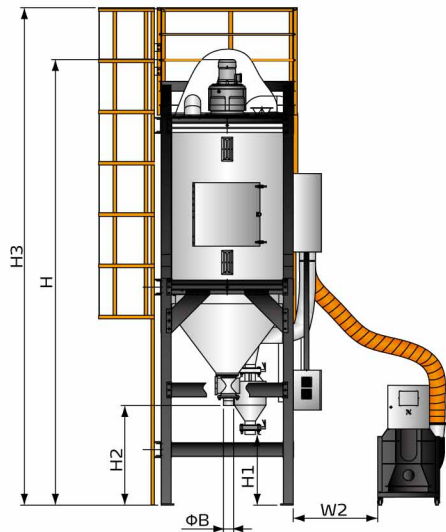
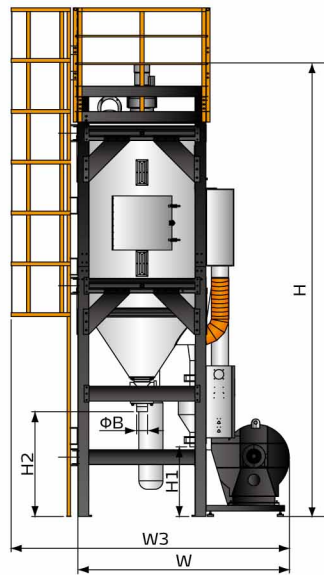
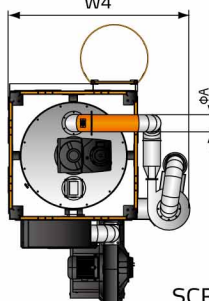
SCR-450U



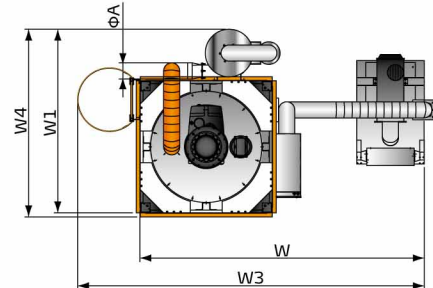
SCR-900U (Maintenance ladder is optional)



SCR-1600U (Maintenance ladder is optional)



SCR-2500U (Maintenance ladder is optional)





## Specifications

| Model                                  |       | SCR-160U | SCR-450U | SCR-900U | SCR-1600U | SCR-2500U |
|--|-------|----------|----------|----------|-----------|-----------|
| Heater Power(kW)                       |       | 12       | 24       | 48       | 96        | 128       |
| Blower Power(kW, 50/60Hz)              |       | 0.55     | 2.2      | 3        | 7.5       | 15        |
| Blending / Motor Power (kW, 50 / 60Hz) |       | 0.25     | 0.55     | 1.5      | 2.2       | 4         |
| Max. Throughput                        | kg/hr | 50       | 150      | 300      | 500       | 750       |
|  | lb/hr | 110      | 331      | 661      | 1102      | 1653      |
| Hopper Capacity                        | L     | 160      | 450      | 900      | 1600      | 2500      |
|  | Gal   | 42.3     | 118.9    | 237.8    | 422.7     | 660.4     |
| H                                      | mm    | 2380     | 3850     | 4550     | 5350      | 5710      |
|  | inch  | 93.7     | 151.6    | 179.1    | 210.6     | 224.8     |
| H1                                     | mm    | 280      | 720      | 1040     | 820       | 890       |
|  | inch  | 11       | 28.3     | 40.9     | 32.2      | 35        |
| H2                                     | mm    | 380      | 1060     | 1185     | 1240      | 1270      |
|  | inch  | 15       | 41.7     | 46.7     | 48.8      | 50        |
| H3                                     | mm    | -        | -        | 5260     | 6010      | 6260      |
|  | inch  | -        | -        | 207      | 236.6     | 246.5     |
| W                                      | mm    | 1040     | 2370     | 2890     | 2510      | 3700      |
|  | inch  | 40.9     | 93.3     | 113.8    | 98.8      | 145.7     |
| W1                                     | mm    | 1140     | 1440     | 1930     | 2160      | 2310      |
|  | inch  | 44.9     | 56.7     | 76       | 85        | 90.9      |
| W2                                     | mm    | -        | 800      | 800      | -         | 800       |
|  | inch  | -        | 31.5     | 31.5     | -         | 31.5      |
| W3                                     | mm    | -        | -        | 3640     | 3295      | 4400      |
|  | inch  | -        | -        | 143.3    | 129.7     | 173.2     |
| W4                                     | mm    | -        | -        | 2020     | 2200      | 2360      |
|  | inch  | -        | -        | 79.5     | 86.6      | 92.9      |
| ΦA                                     | mm    | 3        | 5        | 6        | 8         | 8         |
|  | inch  | 0.12     | 0.2      | 0.24     | 0.31      | 0.31      |
| ΦB                                     | mm    | 4        | 4        | 5        | 5         | 5         |
|  | inch  | 0.16     | 0.16     | 0.2      | 0.2       | 0.2       |
| Weight                                 | kg    | 235      | 500      | 865      | 2290      | 2790      |
|  | lb    | 518      | 1102     | 1907     | 5049      | 6151      |

Notes: 1) Above maximum processing capacity is based on uncrystallized PET material of 0.85kg/L in density and 3-5mm in diameter.  
2) Power: 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.

## PET Property

PET material is well-used in textile fiber, food and chemical packaging. Tape stripes, industry thread, heat-resistant dishware. Air bubble and chapping will take place due to its high moisture content.

With this drying demand and the development on plastic industry, Shini provides a series of secured and reliable drying and dehumidifying technologies for PET molding and other PET product manufacturers.

Shini's PET system has great technology to meet various application needs.

- Bottle and blank making
- Thermal forming film and sheet making
- Strapping tape and industrial yarns making
- Tubing making
- Waste recovery making

## Shini Group

Addr: No. 23, Minhe St., Shulin Dist.,  
New Taipei, Taiwan

Tel: +886 2 2680 9119

Fax: +886 2 2680 9229

Email: [shini@shini.com](mailto:shini@shini.com)

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