

**ROTORCOMP<sup>®</sup>**  
**VERDICHTER**

Quality. Our DNA



## **COMPRESSED AIR PURIFICATION DRYING SYSTEM**



**Shanghai Rotorcomp Screw Compressor Co.,Ltd**

# Company

## Instruction

Shanghai Rotorcomp Co., Ltd. is a manufacturing company which is specialized in compressed air drying and purification equipment who's research, manufactory, sales and service. We with rich experience in the industry, the use of advanced technology and high quality components, to provide customers with high efficiency, low energy consumption, long service life of compressed air purification equipment, improve the quality of your air!

The leading product is Refrigerated Air Dryer, Desiccant Air Dryer, Compressed Air Filter, Modular Regenerative Adsorption Compressed Air Dryer, Water Chiller. We have the CE certification and could provide the ASME code dryer for customer.

We has been seeking excellence all the time. The company ushers in the Denmark, France, Japanese etc. Nations system cold and advanced technique, equipments and the original machine pieces, meanwhile taking the advanced designing concept and exquisite Production Process, following the ISO9001 quantity management system completely.

We have been improving quality by good management, seeking development by innovation, casting the brand in good faith, expanding the market in a win-win situation. Our products not only throughout the Country (for different projects, such as building, rebuilding, and re-moulding of large and medium size enterprises), but also export to Australia, South America, Southeast Asia, Middle East, Europe and more than 30 Countries.



## The conditions of the qualified drying system

- Purge System Selection should be based on rated pressure of air compressor.
- Air Dryer's Model Selection should be based air inlet temperature.rated air flow.rated pressure and ambient temperature.
- Air Dryer' s Type Selection should be based on the dryness,which relate to the discretion of dew point.
- Quantities of stages of air filters and type selection should be based on the discretion of oil content index and dustiness index .
- Pipes configuration and materials of pipes' confirmation should be base on dew point,oil content and business index.
- Install the self-cleaning filter to protect the air compressor,assurance the purifying effect while working in the environment with large amount of dust.
- Compressed air purifying process is the process of drying and filtering.meanwhile it is also a process of temperature decreasing.Temperature takes a key role during the process of purifying as inlet temperature and ambient temperature directly impact the effect of drying and purifying.
- Air receiver tank also is an important part of a whole compressed air system.Air receiver tank should be installed between air compressor and air dryer,air dryer and air consumption location because air receiver tank has the effect of stabilizing air,cooling,dirt drain and air storage.
- System should add the waste oil collector,collecting the oil then drain out the water which reach environment: requirement to the river.

## The damage of the unprocessed compressed air

Compressed air is an important driving force which is widely used in various industrial fields. After the air around us is compressed, a sharp rise in the number of water vapor and dust contained in unit volume.

Meanwhile the water vapor and oil mist condense liquid drops during compressing process.then mixing with dusts in high concentration.forming mostly acidic sludge.

If there is no air after treatment equipment, these acidic sludge will enter the air line. corrode pipeline material,destroy pneumatic tools, equipment, and ultimately resulting in lower-quality product, production stagnated, costs rising, health and safety at risk.

## The cost will be increased because of the bad quality compressed air

**If acidic sludge entering air line,the caused problem will come soon.Below are some common problems:**

- Damage of pneumatic tools and equipment more frequently, life reduction.
- Finished production and other materials that will expose to air will be damaged or quality reduction.
- Corroded air line will result in air leaking,wasting of compressed air and energy.
- In fact.a leak with thickness 3 mm will cause 3.7KW energy consumption, which means there will be extra energy cost every year.

## The solution of the power consumption

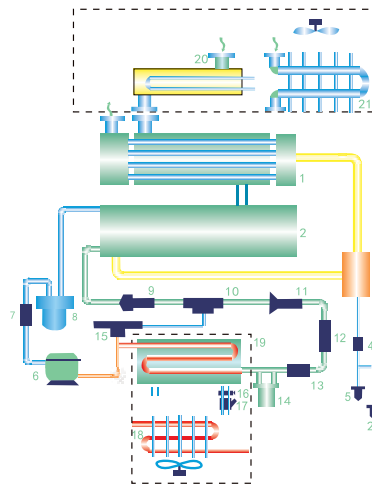
- Air dryer is a durable and low energy consumed air solution.
- Drying process on compressed air is needed in order to prevent the condensed water precipitation and the followed corrosion and equipment damage.Sunfilter series air dry can remove the water from the compressed air,which remove the biggest damage on air pipe system.
- More filters,complete the installation of equipment.
- More filters in the compressed air system will further improve the quality of air,reducing the possibility of damage of pneumatic tools and equipment,enhance the quality of finished production.

## HDR Series

### Refrigerated Compressed Air Dryer

#### Technical Flow

1. Heat exchanger
2. Evaporator
3. Gas/liquid separator
4. Jam-prevent drain filter
5. Manual draining valve
6. Refrigerated compressor
7. Aspirating filter
8. Vaporization
9. Separator
10. Gas/liquid mixer
11. Thermal expansion valve
12. View monitor
13. Dry filter
14. Tank
15. Hot gas by-pass valve
16. Water adjustable valve
17. Water filter
18. Condenser(Air-cooling)
19. Condenser(Water-cooling)
20. Per-cooler(Water-cooling)
21. Per-cooler(Air-cooling)
22. Auto-drainer



#### Working Condition And Technical Data

Capacity: 1.2~400 m<sup>3</sup>/min  
 Working pressure: ≤1.3Mpa (13bar)  
 Max. inlet temperature: 80°C  
 Max. ambient temperature: 40°C  
 Min. ambient temperature: 5°C  
 Cooling type: Air-cooling or Water-cooling  
 Refrigerant: R22  
 PDP: 2~10°C

#### Technical Specification of HDR Air-cooling Refrigerated Dryer

| Model     | Capacity             | Nominal Power | Power Supply | Air Connections | Dimensions(mm) |      |      | Weight |
|-----------|----------------------|---------------|--------------|-----------------|----------------|------|------|--------|
|           | Nm <sup>3</sup> /min | Kw            | V/Ph/Hz      |                 | L              | W    | H    |        |
| HDR-10HP  | 1.2                  | 0.85          | 220/1/50     | Rc1"            | 630            | 450  | 640  | 50     |
| HDR-20HP  | 2.4                  | 1             | 220/1/50     | Rc1"            | 700            | 450  | 830  | 80     |
| HDR-30HP  | 3.8                  | 1.25          | 220/1/50     | Rc1.5"          | 850            | 500  | 920  | 105    |
| HDR-50HP  | 6.5                  | 1.5           | 220/1/50     | Rc1.5"          | 880            | 550  | 1020 | 150    |
| HDR-60HP  | 8.5                  | 1.8           | 220/1/50     | Rc1.5"          | 880            | 550  | 1020 | 160    |
| HDR-75HP  | 10.7                 | 2.5           | 380/3/50     | Rc2"            | 1180           | 670  | 1080 | 240    |
| HDR-100HP | 13.5                 | 2.5           | 380/3/50     | Rc2"            | 1180           | 670  | 1080 | 260    |
| HDR-125HP | 18                   | 3             | 380/3/50     | DN65            | 1360           | 710  | 1220 | 310    |
| HDR-150HP | 25                   | 4             | 380/3/50     | DN80            | 1360           | 710  | 1220 | 400    |
| HDR-200HP | 28                   | 4.5           | 380/3/50     | DN80            | 1650           | 750  | 1290 | 450    |
| HDR-300HP | 35                   | 6.5           | 380/3/50     | DN100           | 1670           | 750  | 1575 | 780    |
| HDR-350HP | 45                   | 8.8           | 380/3/50     | DN100           | 2000           | 950  | 1740 | 820    |
| HDR-400HP | 55                   | 10.2          | 380/3/50     | DN125           | 2350           | 1050 | 1910 | 900    |
| HDR-450HP | 65                   | 13            | 380/3/50     | DN125           | 2550           | 1100 | 1940 | 1100   |

#### Technical Specification of HDR Water-cooling Refrigerated Dryer

| Model    | Capacity             | Nominal Power | Power Supply | Air Connections | Dimensions(mm) |      |      | Weight |
|----------|----------------------|---------------|--------------|-----------------|----------------|------|------|--------|
|          | Nm <sup>3</sup> /min | Kw            | V/Ph/Hz      |                 | L              | W    | H    |        |
| HDR-75W  | 10.7                 | 2.5           | 380/3/50     | Rc2"            | 1180           | 670  | 1080 | 240    |
| HDR-150W | 25                   | 4.0           | 380/3/50     | DN80            | 1360           | 710  | 1220 | 400    |
| HDR-300W | 35                   | 6.1           | 380/3/50     | DN100           | 1670           | 750  | 1575 | 780    |
| HDR-350W | 45                   | 8.0           | 380/3/50     | DN100           | 1850           | 850  | 1630 | 980    |
| HDR-400W | 55                   | 9.0           | 380/3/50     | DN125           | 2100           | 920  | 1645 | 1150   |
| HDR-450W | 65                   | 11.3          | 380/3/50     | DN125           | 2280           | 1300 | 1880 | 1250   |
| HDR-500W | 85                   | 16            | 380/3/50     | DN150           | 2420           | 1340 | 1900 | 1600   |
| HDR-600W | 110                  | 19            | 380/3/50     | DN150           | 2750           | 1350 | 2004 | 2200   |

# HDR- SH Series

## Refrigerated Compressed Air Dryer

### Features

- 1.SH series with stainless steel plate heat exchanger and air connection pipe.
- 2.High efficiency plate heat exchanger with counter-flow on both air-to-air and air-to-refrigerant sides for efficient heat transfer. As the outgoing air is reheated, it protects the outlet piping against pipe sweating.
- 3.SH series dryer have passed latest CE safety certification with multiple overload protection devices configured.

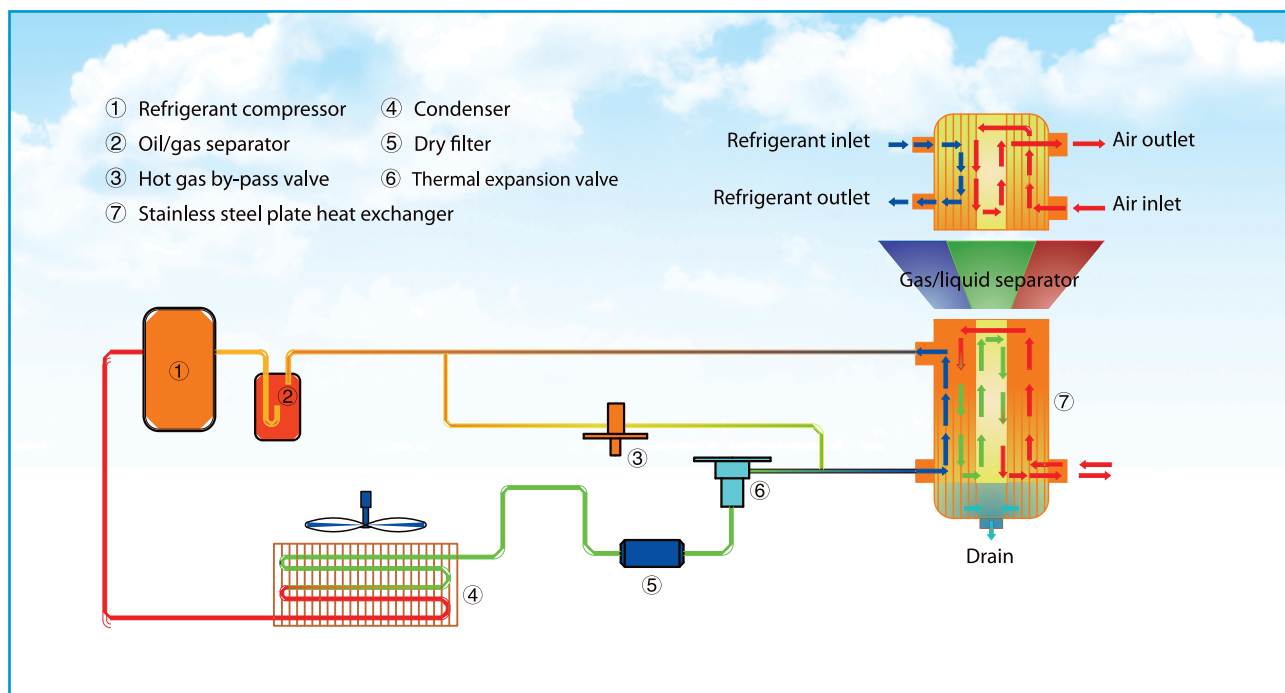


### Working Condition And Technical Data

Capacity: 0.6~25.0 m<sup>3</sup>/min  
 Working pressure: ≤1.6Mpa (16bar)  
 Max.inlet temperature: 60°C  
 Max.ambient temperature: 50°C  
 Cooling type: Air-cooling  
 Refrigerant: R134A(06~24) \ R410A(38~135)  
                   R407C(180~250)  
 PDP: 3~8°C



## Technical Flow



## Technical Specification of SH Refrigerated Air Dryer

| Model      | Capacity             | Nominal Power | Power Supply | Air Connections | Dimensions (mm) |     |      | Weight |
|------------|----------------------|---------------|--------------|-----------------|-----------------|-----|------|--------|
|            | Nm <sup>3</sup> /min | HP            | V/P/H        |                 | L               | W   | H    | kg     |
| HDR-SH-06  | 0.6                  | 1/4           | 220/1/50     | 1/2             | 500             | 300 | 525  | 27     |
| HDR-SH-14  | 1.4                  | 1/3           |              | 1/2             | 500             | 300 | 525  | 31     |
| HDR-SH-18  | 1.8                  | 1/3           |              | 3/4             | 520             | 440 | 780  | 52     |
| HDR-SH-24  | 2.4                  | 1/2           |              | 3/4             | 520             | 440 | 780  | 54     |
| HDR-SH-38  | 3.8                  | 1 1/4         |              | 1               | 680             | 490 | 830  | 72     |
| HDR-SH-65  | 6.5                  | 1 1/2         |              | 1 1/2           | 680             | 490 | 830  | 84     |
| HDR-SH-80  | 8                    | 1 1/2         |              | 1 1/2           | 680             | 490 | 830  | 89     |
| HDR-SH-107 | 10.7                 | 3             | 380/3/50     | 1 1/2           | 950             | 580 | 900  | 130    |
| HDR-SH-135 | 13.5                 | 3             |              | 1 1/2           | 950             | 580 | 900  | 142    |
| HDR-SH-180 | 18                   | 3 1/2         |              | 2               | 1250            | 800 | 1050 | 160    |
| HDR-SH-250 | 25                   | 4             |              | 2 1/2           | 1250            | 800 | 1050 | 200    |

# Heatless Purge Desiccant Air Dryer

- Purge air:  $\leq 12 \sim 15\%$
- Working pressure:  $0.6 \sim 1.0\text{Mpa}$
- Inlet oil content:  $\leq 0.01\text{ppm}$
- Pressure dew point:  $-20^{\circ}\text{C} \sim -40^{\circ}\text{C}$
- Desiccant: Activated aluminum or Molecular sieze
- Working periods:  $T = 4 \sim 20$  Minutes
- Inlet temperature:  $0^{\circ}\text{C} \sim 45^{\circ}\text{C}$



| Type      | Items | Capacity<br>(Nm <sup>3</sup> /min) | Air inlet/outlet<br>pipe diameter | Dimensions(mm) |      |      | Weight(kg) |
|-----------|-------|------------------------------------|-----------------------------------|----------------|------|------|------------|
|           |       |                                    |                                   | L              | W    | H    |            |
| HDR-10XF  |       | 1.2                                | ZG1                               | 800            | 400  | 1376 | 120        |
| HDR-20XF  |       | 2.4                                | ZG1                               | 800            | 400  | 1476 | 180        |
| HDR-30XF  |       | 3.8                                | ZG1.5                             | 1000           | 450  | 1600 | 270        |
| HDR-50XF  |       | 5.5                                | ZG1.5                             | 1000           | 450  | 1890 | 300        |
| HDR-60XF  |       | 6.5                                | ZG1.5                             | 1200           | 500  | 1950 | 400        |
| HDR-75XF  |       | 8.5                                | ZG1.5                             | 1400           | 600  | 2000 | 510        |
| HDR-100XF |       | 10.7                               | ZG2                               | 1400           | 600  | 2090 | 700        |
| HDR-150XF |       | 13.5                               | ZG2                               | 1400           | 600  | 2140 | 740        |
| HDR-200XF |       | 18                                 | DN65                              | 1400           | 600  | 2200 | 780        |
| HDR-250XF |       | 25                                 | DN80                              | 1670           | 650  | 2435 | 1180       |
| HDR-300XF |       | 35                                 | DN100                             | 1670           | 650  | 2566 | 1760       |
| HDR-350XF |       | 45                                 | DN100                             | 1750           | 750  | 2700 | 2200       |
| HDR-400XF |       | 55                                 | DN125                             | 1800           | 750  | 2755 | 2600       |
| HDR-450XF |       | 65                                 | DN125                             | 1900           | 700  | 3070 | 3100       |
| HDR-500XF |       | 85                                 | DN150                             | 2620           | 1120 | 3070 | 4100       |
| HDR-550XF |       | 110                                | DN150                             | 3100           | 1650 | 3200 | 5200       |
| HDR-600XF |       | 160                                | DN200                             | 3240           | 1770 | 3190 | 6000       |

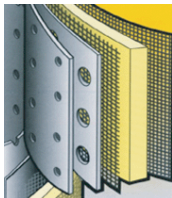
# Externally Heated Purge Desiccant Air Dryer

- Purge air:  $\leq 4 \sim 6\%$
- Working pressure:  $0.4 \sim 1.0\text{Mpa}$
- Inlet oil content:  $\leq 0.01\text{ppm}$
- Pressure dew point:  $-20^{\circ}\text{C} \sim -70^{\circ}\text{C}$
- Power: 380V 50HZ
- Desiccant: Activated aluminum or Molecular sieze
- Working periods):  $T = 60 \sim 180$  Minutes
- Inlet temperature:  $0^{\circ}\text{C} \sim 45^{\circ}\text{C}$



| Type       | Items | Capacity<br>(Nm <sup>3</sup> /min) | Heater power<br>(kw) | Air inlet/outlet<br>pipe diameter | Dimensions(mm) |      |      | Weight(kg) |
|------------|-------|------------------------------------|----------------------|-----------------------------------|----------------|------|------|------------|
|            |       |                                    |                      |                                   | L              | W    | H    |            |
| HDR-10HXF  |       | 1.2                                | 1.5                  | ZG1                               | 800            | 480  | 1420 | 145        |
| HDR-20HXF  |       | 2.4                                | 1.5                  | ZG1                               | 800            | 480  | 1520 | 200        |
| HDR-30HXF  |       | 3.8                                | 1.5                  | ZG1.5                             | 1000           | 525  | 1600 | 330        |
| HDR-50HXF  |       | 5.5                                | 1.5                  | ZG1.5                             | 1000           | 525  | 1890 | 350        |
| HDR-60HXF  |       | 6.5                                | 3                    | ZG1.5                             | 1200           | 550  | 1950 | 430        |
| HDR-75HXF  |       | 8.5                                | 3                    | ZG1.5                             | 1400           | 600  | 2000 | 550        |
| HDR-100HXF |       | 10.7                               | 4.5                  | ZG2                               | 1400           | 600  | 2090 | 750        |
| HDR-150HXF |       | 13.5                               | 4.5                  | ZG2                               | 1400           | 600  | 2140 | 790        |
| HDR-200HXF |       | 18                                 | 4.5                  | DN65                              | 1400           | 650  | 2200 | 830        |
| HDR-250HXF |       | 25                                 | 6                    | DN80                              | 1670           | 725  | 2435 | 1250       |
| HDR-300HXF |       | 35                                 | 8                    | DN100                             | 1670           | 725  | 2566 | 1480       |
| HDR-350HXF |       | 45                                 | 8                    | DN100                             | 1750           | 775  | 2700 | 1740       |
| HDR-400HXF |       | 55                                 | 15                   | DN125                             | 1800           | 775  | 2755 | 2260       |
| HDR-450HXF |       | 65                                 | 15                   | DN125                             | 1900           | 800  | 3070 | 2600       |
| HDR-500HXF |       | 85                                 | 20                   | DN150                             | 2620           | 1120 | 3073 | 3380       |
| HDR-550HXF |       | 110                                | 30                   | DN150                             | 3100           | 1650 | 3200 | 4390       |
| HDR-600HXF |       | 160                                | 50                   | DN200                             | 3240           | 1770 | 3190 | 5800       |

## Specifications

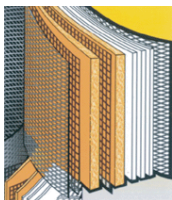


### Separator filter (Q)

For bulk liquid removal plus a 3 micron coalescer (5ppm w/w maximum remaining oil content).

#### Two-stage filtration

- ◆ First stage—two stainless steel orifice tubes provide 10 micron mechanical separation.
- ◆ Second stage—in-depth fiber media captures solid and liquid particles to 3 micron.

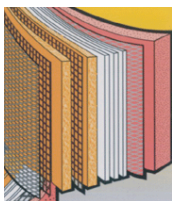


### Air line filter (P)

For removal of liquid water and oil; removes solid particles to 1 micron (1.0 ppm w/w maximum remaining oil content)

#### Corrosion resistant inner and outer cores.Two-stage filtration

- ◆ First stage:captures larger particles with alternate layers of fiber media and media screen.
- ◆ Second stage:coalesces aerosols and captures solid particles with multiple layers of epoxy bonded, blended fiber media.



### High efficiency oil removal filter (S)

For coalescing fine water and oil aerosols; removes solid particles to 0.01 micron (0.01 ppm w/w maximum remaining oil content).

#### Corrosion resistant inner and outer cores.Two stage filtration

- ◆ First stage:multiple layers of bonded, blended fiber media for fine coalescence.
- ◆ Second stage:multiple layers of bonded, blended fiber media for fine coalescence.

Outer coated, closed cell foam sleeve.



### Ultra high efficiency oil removal filter (T)

For coalescing ultra-fine oil aerosols; removes solid particles to 0.01 micron (0.001 ppm w/w maximum remaining oil content).

#### Corrosion resistant inner and outer cores.Two stage filtration

- ◆ First stage—coated, closed cell foam sleeve acts as pre-filter and flow disperser.
- ◆ Second stage—multiple layers of matrix blended fiber media for ultra-fine coalescence.

Outer coated, closed cell foam sleeve.



### Oil vapor removal filter (C)

For removal of oil and hydrocarbon vapors normally absorbable by activated carbon; removes solid particles to 0.01 micron (0.003 ppm w/w maximum remaining oil content)

#### Corrosion resistant inner and outer cores.Two stage filtration

- ◆ First stage—a stabilized bed of finely divided carbon particles removes the majority of the oil vapor
  - ◆ Second stage—multiple layers of fiber media with bonded micro fine carbon particles removes the remaining oil vapor
- Multiple layers of fine media prevent particle migration Outer coated, closed cell foam sleeve prevents fiber migration  
Designed for 1000 hour life at rated conditions.





# ROTORCOMP //

## Precision Compressor Air Filter

### Features

- ◆ Easy replacement;
- ◆ Stainless steel for added structural integrity low resistance to flow seam welded for extra strength.
- ◆ Piston type elements to housing seal keeps unfiltered air from by-passing element.

### Product introduction

Technical Parameter  
 Max. working pressure: 1.6 MPa  
 Max. working temperature: 80°C  
 Service life of filter elements: 8000 hour  
 Differential pressure: 0.007MPa



### Specification Parameter List

| Model    | Nominal Volume Flow  | Air Connections | Dimensions(mm) |     |      | Weight(kg) |
|----------|----------------------|-----------------|----------------|-----|------|------------|
|          | Nm <sup>3</sup> /min |                 | L              | W   | H    |            |
| HDR-004  | 0.4                  | G1/2"           | 105            | 76  | 250  | 2          |
| HDR-007  | 0.7                  | G1/2"           | 105            | 76  | 250  | 2          |
| HDR-015  | 1.5                  | G3/4"           | 105            | 76  | 250  | 2          |
| HDR-024  | 2.4                  | G1"             | 105            | 76  | 250  | 2          |
| HDR-035  | 3.5                  | G1-1/2"         | 105            | 76  | 310  | 3          |
| HDR-060  | 6.0                  | G1-1/2"         | 137            | 99  | 400  | 4          |
| HDR-090  | 9.0                  | G1-1/2"         | 137            | 99  | 425  | 5          |
| HDR-120  | 12.0                 | G2"             | 137            | 99  | 620  | 10         |
| HDR-150  | 15.0                 | G2"             | 135            | 108 | 750  | 12         |
| HDR-240  | 24.0                 | G2-1/2"         | 148            | 125 | 920  | 15         |
| HDR-360  | 36.0                 | DN150           | 475            | 135 | 1113 | 137        |
| HDR-450  | 45.0                 | DN150           | 475            | 135 | 1265 | 140        |
| HDR-600  | 60.0                 | DN150           | 520            | 157 | 1315 | 180        |
| HDR-900  | 90.0                 | DN200           | 590            | 157 | 1315 | 200        |
| HDR-1200 | 120.0                | DN250           | 660            | 157 | 1350 | 250        |
| HDR-1500 | 150.0                | DN300           | 700            | 189 | 1350 | 265        |
| HDR-1800 | 180.0                | DN350           | 980            | 235 | 1350 | 300        |

# HDR-K Series

## Compressed Air Filters

### Features

1. Air filter with differential pressure indicator and sight glass.
2. Filter housing internal with anti-corrosion treatment.

### Technical Data

Max. working temperature:  $\leq 80^{\circ}\text{C}$   
 Service life of filter element: 8000 hour  
 Differential pressure: 0.007Mpa  
 Max. working pressure:

| Model   | Max. Working Pressure (Mpa) |
|---------|-----------------------------|
| 001-013 | 1.3Mpa                      |
| 015-025 | 1.3Mpa                      |
| 030-200 | 1.0Mpa                      |



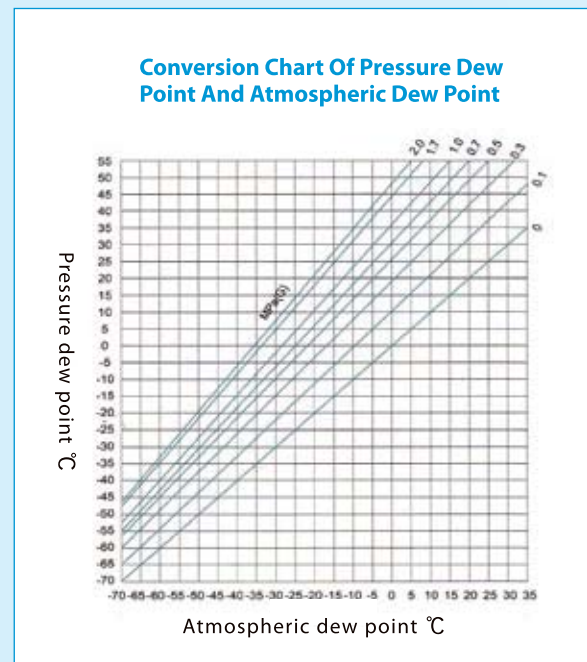
### Technical Specification of Air Filter

| Model      | Capacity<br>(Nm <sup>3</sup> /min) | Air<br>Connections | Dimensions (mm) |     |      | Weight<br>(kg) |
|------------|------------------------------------|--------------------|-----------------|-----|------|----------------|
|            |                                    |                    | L               | W   | H    |                |
| HDR-K-10   | 1.2                                | ZG1                | 105             | 76  | 250  | 2              |
| HDR-K-20   | 2.4                                | ZG1                | 105             | 78  | 310  | 3              |
| HDR-K-30   | 3.8                                | ZG1.5              | 137             | 99  | 400  | 4              |
| HDR-K-50   | 6.5                                | ZG1.5              | 137             | 99  | 425  | 5              |
| HDR-K-60   | 8                                  | ZG1.5              | 137             | 99  | 620  | 5              |
| HDR-K-75   | 10.7                               | ZG2                | 137             | 99  | 620  | 5              |
| HDR-K-75F  | 10.7                               | DN50               | 310             | 133 | 860  | 25             |
| HDR-K-100  | 14                                 | ZG2                | 135             | 108 | 750  | 10             |
| HDR-K-100F | 14                                 | DN50               | 310             | 133 | 860  | 25             |
| HDR-K-125  | 18                                 | ZG2.5              | 148             | 125 | 920  | 13             |
| HDR-K-125F | 18                                 | DN65               | 310             | 133 | 860  | 25             |
| HDR-K-150  | 22                                 | ZG2.5              | 148             | 125 | 920  | 14             |
| HDR-K-200  | 25                                 | DN80               | 379             | 133 | 1040 | 44             |
| HDR-K-250  | 28                                 | DN80               | 379             | 133 | 1140 | 52             |
| HDR-K-300  | 35                                 | DN100              | 465             | 219 | 1060 | 65             |
| HDR-K-350  | 45                                 | DN100              | 470             | 219 | 1060 | 68             |
| HDR-K-400  | 55                                 | DN125              | 513             | 273 | 1215 | 96             |
| HDR-K-450  | 65                                 | DN125              | 513             | 273 | 1215 | 96             |
| HDR-K-500  | 85                                 | DN150              | 615             | 325 | 1395 | 140            |
| HDR-K-600  | 110                                | DN150              | 615             | 377 | 1300 | 145            |
| HDR-K-650  | 130                                | DN150              | 615             | 416 | 1395 | 210            |
| HDR-K-700  | 150                                | DN200              | 615             | 462 | 1470 | 220            |
| HDR-K-750  | 180                                | DN200              | 615             | 462 | 1470 | 235            |
| HDR-K-800  | 200                                | DN200              | 615             | 516 | 1504 | 240            |



## Atmospheric Dew-Water Content Relation Table

| Dew Point (°C) | Water (g/m <sup>3</sup> ) | Dew Point (°C) | Water (g/m <sup>3</sup> ) | Dew Point (°C) | Water (g/m <sup>3</sup> ) | Dew Point (°C) | Water (g/m <sup>3</sup> ) | Dew Point (°C) | Water (g/m <sup>3</sup> ) |
|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|
| 33             | 35.7                      | 14             | 12.07                     | -5             | 3.407                     | -24            | 0.7678                    | -43            | 0.1298                    |
| 32             | 33.8                      | 13             | 11.35                     | -6             | 3.169                     | -25            | 0.7074                    | -44            | 0.1172                    |
| 31             | 32.1                      | 12             | 10.66                     | -7             | 2.946                     | -26            | 0.6463                    | -45            | 0.1055                    |
| 30             | 30.3                      | 11             | 10.01                     | -8             | 2.737                     | -27            | 0.5922                    | -46            | 0.09501                   |
| 29             | 28.8                      | 10             | 9.309                     | -9             | 2.541                     | -28            | 0.5422                    | -47            | 0.08544                   |
| 28             | 27.2                      | 9              | 8.819                     | -10            | 2.358                     | -29            | 0.496                     | -48            | 0.07675                   |
| 27             | 25.8                      | 8              | 8.27                      | -11            | 2.186                     | -30            | 0.4534                    | -49            | 0.06886                   |
| 26             | 25.4                      | 7              | 7.75                      | -12            | 2.206                     | -31            | 0.4141                    | -50            | 0.06171                   |
| 25             | 23.1                      | 6              | 7.26                      | -13            | 1.876                     | -32            | 0.3779                    | -51.1          | 0.054                     |
| 24             | 21.8                      | 5              | 6.797                     | -14            | 1.736                     | -33            | 0.3445                    | -53.9          | 0.04                      |
| 23             | 20.6                      | 4              | 6.36                      | -15            | 1.605                     | -34            | 0.3138                    | -56.7          | 0.029                     |
| 22             | 19.4                      | 3              | 5.947                     | -16            | 1.483                     | -35            | 0.2856                    | -59.4          | 0.021                     |
| 21             | 18.3                      | 2              | 5.559                     | -17            | 1.369                     | -36            | 0.2597                    | -62.2          | 0.014                     |
| 20             | 17.3                      | 1              | 5.192                     | -18            | 1.261                     | -37            | 0.2359                    | -65            | 0.011                     |
| 19             | 16.3                      | 0              | 4.847                     | -19            | 1.165                     | -38            | 0.2141                    | -67.8          | 0.008                     |
| 18             | 15.4                      | -1             | 4.523                     | -20            | 1.074                     | -39            | 0.194                     | -70.6          | 0.005                     |
| 17             | 14.5                      | -2             | 4.217                     | -21            | 0.9884                    | -40            | 0.1757                    | -73.3          | 0.003                     |
| 16             | 13.6                      | -3             | 3.93                      | -22            | 0.9093                    | -41            | 0.159                     |                |                           |
| 15             | 12.8                      | -4             | 3.66                      | -23            | 0.8359                    | -42            | 0.1438                    |                |                           |



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