

HIROSS

Product Manual

Screw air compressor



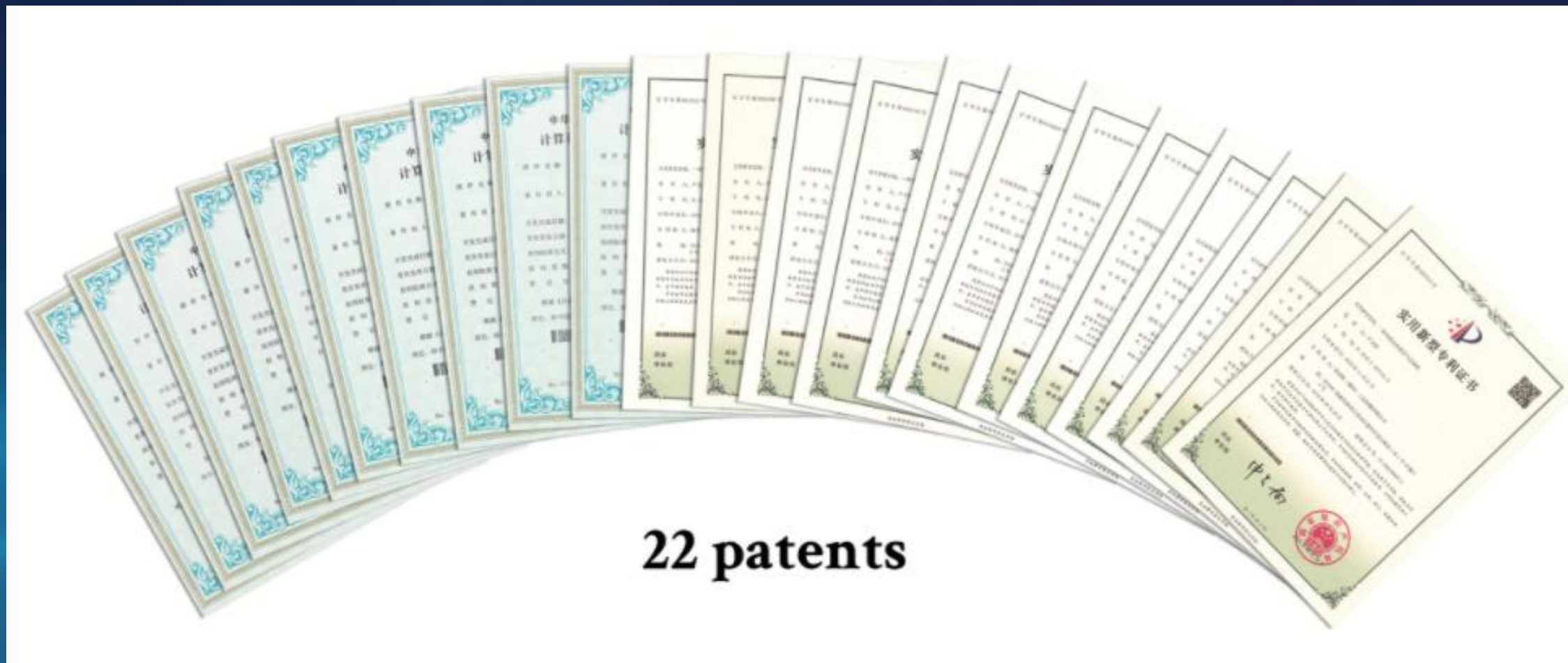
ABOUT OUR COMPANY

Hiross is a national high-tech technology enterprise integrating design, research, development and production of energy-saving, environmentally-friendly and intelligent equipment. With advanced technology as the core, our company has strategic cooperation with the German EverAir high-end brand, and jointly established an advanced R&D center with German EverAir to share research and development results.

A series of HIROSS products have passed QS, ISO9001:2015 international quality system certification, CCS ship certification, national quality and safety GCCA certification

Till now, there are more than 20 purification core inventions and utility model patents have been obtained.





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Particle Removal Down To 0.01
Micron.



Air Cooling Refrigerated Type

Control Dew Pressure Point Under
Range 2~10° C



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Control Dew Pressure Point Under
Range 2~10° C



Desiccant Tower Type

Control Dew Pressure Point Under
Range -20° C~-40° C

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**Screw Air
Compressor**

Dehumidifier Product Feature

1. International Brand Compression.
2. Compression Three Minutes Automatic delayed protection.
3. Save time, save power.
4. Universal wheel, can move conveniently.
5. Tube connection, continuous drainage.





Grade		Q	P	S	C
Material		Multilayer Glass Fiber Filters	Multilayer Glass Fiber Filters	Multilayer Glass Fiber Filters	Activated Carbon Filter Element
Filter Precision	Oil Content	≤3PPM	≤0.1PPM	≤0.01PPM	≤0.003PPM
	Filtering Impurities Particle Size	≤3Micron	≤1Micron	≤0.01Micron	---
Max working Temperature		120℃	120℃	120℃	30℃
Function		Removal of the oil and dust from the air, the purpose is to reduce the load of post-filter , and make sure that the service life of the filter.	Removal of the oil from the air to be micro-oil (0.1PPM) and removal of the dust<1Micron	To meet the requirements of Precision Industry, removal of the oil content in the air(0.01PPM), and removal of the dust <0.01Micron	Using Activated Carbon Filter element for removal of the odors in the air and Filter out oil content to (0.003 ppm).

Precision Air Filter



Model	Air Capacity (NM ³ /Min)	Air Inlet/Outlet Diameter	Height	Diameter mm	Weight (KG)
HR-007	0.7	0.75"	260	80	0.9
HR-015	1.5	0.75"	260	80	0.9
HR-024	2.5	1.5"	330	100	1.5
HR-035	3.8	1.5"	330	100	1.5
HR-060	6.9	1.5"	430	100	2
HR-090	9	2.5"	530	150	7.6
HR-120	12	2.5"	900	150	12.9
HR-150	15	2.5"	900	150	13
HR-180	18	2.5"	900	150	13
HR-240	24	DN80	1190	310	27
HR-300	30	DN80	1100	420	60
HR-360	36	DN100	1150	420	65
HR-450	45	DN100	1230	459	80
HR-550	55	DN100	1130	513	115
HR-600	60	DN100	1155	565	130
HR-750	75	DN125	1210	657	140
HR-900	90	DN150	1210	657	145
HR-1200	120	DN150	1340	657	180
HR-1500	150	DN200	1340	706	190
HR-1800	180	DN200	1365	706	195
HR-2100	210	DN200	1365	746	196
HR-3000	300	DN250	1530	896	354
HR-3600	360	DN250	1660	946	398

or Customized

Compressed Air Precision Filter

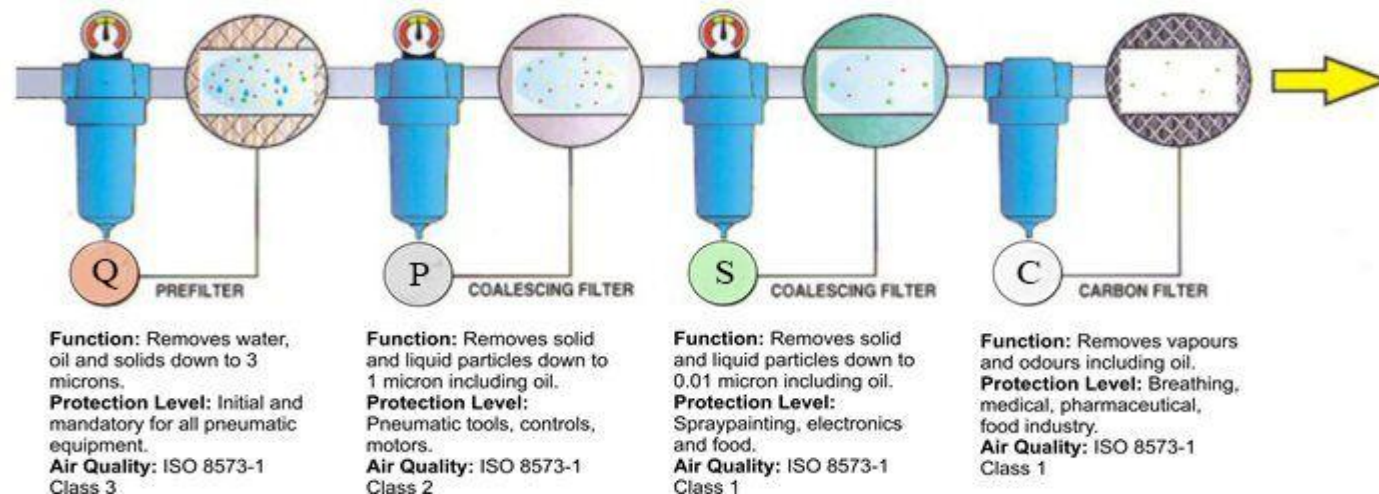
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Four Grades for your choose (Q,P,S,C)

- Q - Pre-Filter, Filtration Grade: 3 Micron
- P - Main Pipe Filter, Filtration Grade: 1 Micron
- S - Efficient Filter, Filtration Grade: 0.01 Micron, +99.99% Oil Mist.
- C - Activated Carbon Filter ≤ 0.003 PPM



FOUR LEVELS OF FILTRATION AND THEIR FUNCTION





Air Cooling Refrigerated Air Dryer for Air Compressor

Inlet Air Temperature: $\leq 80^{\circ}\text{C}$ or 176°F

Operating Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Refrigerant: R-22, R134a, R407C etc

Pressure Dew Point: $2 \sim 10^{\circ}\text{C}$ or $35.6 \sim 50^{\circ}\text{F}$

Offer ISO Standard Air Quality

Type: Air Cooling

Time Proven Design:

Precise design of Copper Tube Heat Exchanger increase the heat exchange areas and efficiently drier high pressure air to standard requested low pressure dew point.

Static Condenser Design: Low Vibration, quiet operation and trouble free.

Energy Saving Design:

Recycle cold Energy from evaporator to heat exchanger, Save power consumption.

Ease of Monitoring:

Electronic(Automatic)Drain Valve.

Safety Protection Systems for frost, overheat and Systems Alarm and Stop for Errors and Overworking. Expand Machine Life.

Best Compressor Brands: Panasonic, Copeland, Taikang.

Air Cooling Refrigerated Air Dryer

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Model	Capacity	Applicable Air Compressor	Power Consumption	Air Entrance Diameter	Unit Size (mm)	Power	Weight
	(m3/Min)	(HP)	(KW)		(L*W*H)		(Kg)
HR-10AC	1	5	0.65	G1"	650*400*600	220V/50Hz	36
HR-15AC	1.5	10	0.75	G1"	700*420*710	220V/50Hz	39
HR-23AC	2.3	15	0.85	G1"	700*420*760	220V/50Hz	50
HR-28AC	2.8	20	1	G1"	700*420*760	220V/50Hz	66
HR-38AC	3.8	30	1.35	G1.5"	1000*500*850	220V/50Hz	105
HR-55AC	5.5	40	1.4	G1.5"	1000*500*850	220V/50Hz	125
HR-69AC	6.9	50	1.7	G2"	1000*500*950	220V/50Hz	135
HR-86AC	8.6	60	2.1	G2"	1000*500*950	220V/50Hz	150
HR-110AC	11	75	2.6	G2.5"	1250*570*1110	220V/50Hz	175
HR-150AC	15	100	3.6	G2.5"	1250*570*1110	380V/50Hz	195
HR-180AC	18	125	4	G2.5"	1250*570*1110	380V/50Hz	210
HR-220AC	22	150	5	DN80	1400*680*1190	380V/50Hz	225
HR-250AC	25	175	5.3	DN80	1400*680*1190	380V/50Hz	235
HR-290AC	29	200	5.5	DN80	1400*680*1240	380V/50Hz	250
HR-350AC	35	250	6	DN80	1650*850*1460	380V/50Hz	480
HR-450AC	45	300	8.5	DN100	1650*1000*1500	380V/50Hz	545
HR-550AC	55	350	9.5	DN100	2000*1000*1680	380V/50Hz	550
HR-650AC	65	400	10.5	DN125	2000*1200*1680	380V/50Hz	580

Stainless Steel Refrigerated Air Dryer

- Stainless steel air pipe and exchanger
- Strong corrosion resistance, long lifetime
 - Stable, low vibration, low noise
- Famous compressor: Copeland, Panasonic, Taikang

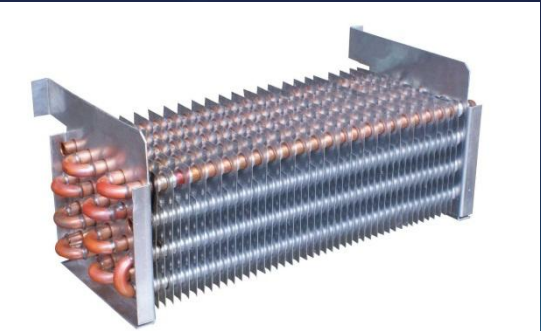
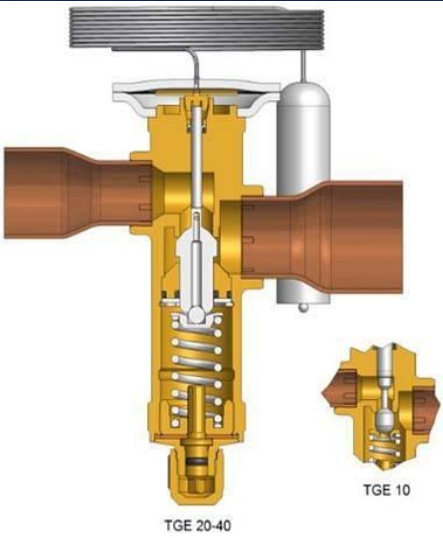
Panasonic *Copeland*

Eco-friendly refrigerant R314a, R407c, R410 for optional



Accessories

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Accessories

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Water Cooling Refrigerated Air Dryer(Low Temperature Type)

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Water Cooling Refrigerated Air Dryer for Air Compressor

Inlet Air Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Operating Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Operating Pressure: $0.4 \sim 1.0\text{MPa}$

Pressure Loss: $\leq 0.02\text{MPa}$

Refrigerant: R-22

Cooling Water Temperature: $2 \sim 34^{\circ}\text{C}$ or $35.6 \sim 93.2^{\circ}\text{F}$

Cooling Water Pressure: $0.2 \sim 0.6\text{MPa}$

Pressure Dew Point: $2 \sim 10^{\circ}\text{C}$ or $35.6 \sim 50^{\circ}\text{F}$

Time Proven Design:

Precise design of Copper Tube Heat Exchanger increase the heat exchange areas and efficiently drier high pressure air to standard requested low pressure dew point.

Static Condenser Design: Low Vibration, quiet operation and trouble free.

Energy Saving Design:

Recycle cold Energy from evaporator to heat exchanger, Save power consumption.

Ease of Monitoring:

Electronic(Automatic)Drain Valve.

Safety Protection Systems for frost, overheat and Systems Alarm and Stop for Errors and Overworking. Expand Machine Life.

Best Compressor Brands: Panasonic, Copeland, Taikang.



Water Cooling Refrigerated Air Dryer(Low Temperature Type)

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Air Inlet Temperature: 45° C

Model	Capacity	Condenser Water Entrance Diameter	Power Consumption (KW)	Air Entrance Diameter	Water Cooling Capacity	Unit Size (mm)	Power
	(m^3/Min)				(m^3/Hr)	(L*W*H)	
HR-110W	11	G0.75"	2.2	G2"	3	1250*570*1010	220V/50HZ
HR-150W	15	G0.75"	3.3	G3"	3	1250*570*1190	380V/50HZ
HR-180W	18	G0.75"	3.6	G3"	3	1250*570*1190	380V/50HZ
HR-220W	21	G1"	4.5	DN80	3.8	1400*680*1190	380V/50HZ
HR-250W	25	G1"	5	DN80	3.8	1400*680*1190	380V/50HZ
HR-290W	28	G1"	5.2	DN80	4.5	1400*680*1240	380V/50HZ
HR-350W	32	G1.25"	5.6	DN80	5.6	1650*850*1380	380V/50HZ
HR-450W	42	G1.5"	8	DN100	6.7	1650*900*1500	380V/50HZ
HR-550W	52	G1.5"	9	DN100	7.9	2000*1000*1680	380V/50HZ
HR-650W	62	G1.5"	10	DN125	9	2000*1000*1680	380V/50HZ
HR-750W	72	G1.5"	11	DN125	10.6	2200*1320*1848	380V/50HZ
HR-850W	82	G1.5"	12.5	DN125	13	2650*1200*1950	380V/50HZ
HR-1000W	100	DN50	13.6	DN125	18	2650*1300*1950	380V/50HZ
HR-1500W	150	DN65	18.8	DN150	22	2850*1300*2000	380V/50HZ
HR-1900W	190	DN65	23	DN200	27	2600*1430*1830	380V/50HZ
HR-2100W	210	DN65	26.2	DN200	30	3000*1500*2200	380V/50HZ
HR-2600W	260	DN65	34	DN250	38	3200*1600*2400	380V/50HZ

Water Cooling Refrigerated Air Dryer(High Temperature Type)

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Air Inlet Temperature: 80° C

Model	Capacity	Condenser Water Entrance Diameter	Power Consumpti on	Air Entrance Diameter	Water Cooling Capacity	Unit Size (mm)	Power	Weight KGs
	(m^3/Min)		(KW)		(m^3/Hr)	(L*W*H)		
HR-110WS	11	G¾"	2.2	G2½"	2	1250*570*1010	220V/50HZ	168
HR-150WS	15	G¾"	3.3	G2½"	3	1250*570*1190	380V/50HZ	180
HR-180WS	18	G¾"	3.6	G2½"	3	1250*570*1190	380V/50HZ	198
HR-220WS	21	G1"	4	DN80	3.8	1400*680*1190	380V/50HZ	240
HR-250WS	25	G1"	4	DN80	3.8	1400*680*1190	380V/50HZ	260
HR-290WS	28	G1"	5	DN80	4.5	1400*680*1240	380V/50HZ	298
HR-350WS	32	G1.2"	6	DN80	5.6	1650*850*1380	380V/50HZ	320
HR-450WS	42	G1.5"	8	DN100	6.7	1650*900*1500	380V/50HZ	425
HR-550WS	52	G1.5"	8	DN100	7.9	2000*1000*1680	380V/50HZ	620
HR-650WS	62	G1.5"	10	DN125	9	2000*1000*1680	380V/50HZ	650
HR-750WS	72	G1.5"	12	DN125	10.6	2200*1320*1848	380V/50HZ	780
HR-850WS	82	G1.5"	15	DN125	13	2650*1200*1950	380V/50HZ	1380
HR-1000WS	100	DN50	13.6	DN125	18	2650*1300*1950	380V/50HZ	1480
HR-1500WS	150	DN65	18.8	DN150	22	2850*1300*2000	380V/50HZ	1850
HR-1900WS	190	DN65	23	DN200	27	2600*1430*1830	380V/50HZ	1624
HR-2100WS	210	DN65	26.2	DN200	30	3000*1500*2200	380V/50HZ	1960
HR-2600WS	260	DN65	34	DN250	38	3200*1600*2400	380V/50HZ	2060
HR-3000WS	300	DN80	80	DN250	80	3610*1640*2180	380V/50HZ	3192
HR-3500WS	350	DN80	92	DN300	92	4010*2000*2440	380V/50HZ	3696
HR-4200WS	420	DN80	108	DN350	108	4210*2040*2550	380V/50HZ	4256



The main components of Desiccant Air Dryer are the two pressure vessels(Tower A & Tower B). They are both filled with desiccant and ***are alternately operated via switch-over***. For a drying cycle, the compressed air to be dried flows through one of the vessel where the moisture is thoroughly removed by the desiccant(adsorption process). Before the **moisture is purging into the atmosphere through muffler**, the moisture is stored in the desiccant in the second vessel will be removed by regeneration process. Once the desiccant in the vessel in which drying process takes place is saturated with moisture, the adsorption and regeneration functions of both vessels will be switched, that is, the drying process begin again.

We called one complete run of adsorption and regeneration in a vessel as a cycle, and the process time required to use is called cycle time. Generally, **a cycle time is about 10 Minutes**, 5 minutes regeneration and 5 Minutes adsorption.



Heatless Desiccant Air Dryer

Inlet Air Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Operating Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Adsorbent: Aluminium Oxide

Pressure Dew Point: $-20 \sim -40^{\circ}\text{C}$ or $-68 \sim -104^{\circ}\text{F}$

Offer IS Standard Air Quality

Type: Heatless Adsorption/Desiccant

Time Proven Design:

Rust Prevention:** have been ***treated against corrosion, it does not need to be treated against corrosion and dust again within **10 years** on the promise that normal maintenance is ensured.

*Various Valves provides reliable and long service life.

*Vessels have a large filling level of desiccant bed that allows compressed air has enough time to contact with desiccant. That is, more efficient on drying process in the Adsorption Dryer.

*Generously sized silencers ensure efficient noise reduction for the escaping regeneration air.

Ease of Monitoring:

***PLC Control Panel**

*Electronic(Automatic)Drain Valve.

Safety Protection Systems for overheat and Systems Alarm and Stop for Errors and Overworking. Expand Machine Life.

*Each valve is controlled individually with a time-delay, which results in overlap-free switch-over without pressure peaks between adsorption and regeneration.

Heatless Desiccant Air Dryer

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Model	Capacity	Air Entrance Diameter	Unit Size (mm)	Power Supply	Weight
	(m ³ /Min)		(L*W*H)		(Kg)
HR-10RD	1	G0.75"	800x350x1300	220V/50HZ	75
HR-15RD	1.5	G0.75"	800x350x1500	220V/50HZ	90
HR-25RD	2.5	G0.75"	800x350x1500	220V/50HZ	100
HR-38RD	3.8	G1"	1000x500x1590	220V/50HZ	160
HR-55RD	5.5	G1.5"	1000x500x1760	220V/50HZ	200
HR-69RD	6.9	G1.5"	1000x500x1950	220V/50HZ	270
HR-86RD	8.6	G2"	1200x550x1950	220V/50HZ	300
HR-110RD	11	DN50	1200x550x2100	220V/50HZ	350
HR-150RD	15	DN65	1200x500x2200	220V/50HZ	520
HR-180RD	18	DN65	1300x550x2200	220V/50HZ	550
HR-220RD	21.5	DN65	1400x600x2200	220V/50HZ	680
HR-250RD	25	DN80	1500x600x2500	220V/50HZ	930
HR-290RD	28.5	DN80	1650x600x2500	220V/50HZ	970
HR-350RD	35	DN80	1650x600x2550	220V/50HZ	1020
HR-450RD	45	DN100	1900x700x2750	220V/50HZ	1600
HR-550RD	55	DN100	2100x700x2800	220V/50HZ	1700
HR-650RD	65	DN125	2100x700x2850	220V/50HZ	1750
HR-750RD	75	DN125	2150x900x2900	220V/50HZ	1800
HR-850RD	85	DN125	2200x900x2950	220V/50HZ	2100
HR-1000RD	100	DN150	2600x1400x3150	220V/50HZ	2700
HR-1400RD	140	DN150	2600x1400x3300	220V/50HZ	3200
HR-1600RD	160	DN200	2700x1500x3350	220V/50HZ	3900
HR-1900RD	190	DN200	3100x1700x3400	220V/50HZ	4600
HR-2100RD	210	DN200	3500x1900x3550	220V/50HZ	4900
HR-2400RD	240	DN200	4400x2400x3780	220V/50HZ	5900
HR-2600RD	260	DN200	4500x2400x3890	220V/50HZ	6900



Micro-Heat Desiccant Air Dryers have similar operating processes as Heatless Air Dryer, but with one exception. Compressed dried air pass through a high-efficiency **external heater** before entering the off-line(B) Tower to regenerate the desiccant. Because heated air holds considerably more moisture, this process reduces the amount of dry compressed air needed for regeneration. While heater-related components add to the initial capital investment, using less diverted compressed air lower operating costs.

The main components of Desiccant Air Dryer are the two pressure vessels(Tower A & Tower B). They are both filled with desiccant and **are alternately operated via switch-over**. For a drying cycle, the compressed air to be dried flows through one of the vessels where the moisture is thoroughly removed by the desiccant(adsorption process). Before the **moisture is purging into the atmosphere through muffler**, the moisture is stored in the desiccant in the second vessel will be removed by regeneration process. Once the desiccant in the vessel in which drying process takes place is saturated with moisture, the adsorption and regeneration functions of both vessels will be switched, that is, the drying process begins again.

We called one complete run of adsorption and regeneration in a vessel as a cycle, and the process time required to use is called cycle time. Generally, **a cycle time is about 10 mins**, 5 mins regeneration and 5 mins adsorption.



Micro-Heat Desiccant Air Dryer

Inlet Air Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Operating Temperature: $\leq 40^{\circ}\text{C}$ or 104°F

Adsorbent: Aluminium Oxide, Molecular Sieve

Gas Consumption: 6%~8%

Pressure Dew Point: $-20 \sim -40^{\circ}\text{C}$ or $-68 \sim -104^{\circ}\text{F}$

Type: Micro-Heat Adsorption/Desiccant

Time Proven Design:

***Rust Prevention:** have been *treated against corrosion*, it does not need to be treated against corrosion and dust again within **10 years** on the promise that normal maintenance is ensured.

*Various Valves provides reliable and long service life.

*Vessels have a large filling level of desiccant bed that allows compressed air has enough time to contact with desiccant. That is, more efficient on drying process in the Adsorption Dryer.

*Generously sized silencers ensure efficient noise reduction for the escaping regeneration air.

Ease of Monitoring:

*PLC Control Panel

*Electronic(Automatic)Drain Valve.

Safety Protection Systems for overheat and Systems Alarm and Stop for Errors and Overworking. Expand Machine Life.

*Each valve is controlled individually with a time-delay, which results in overlap-free switch-over without pressure peaks between adsorption and regeneration.

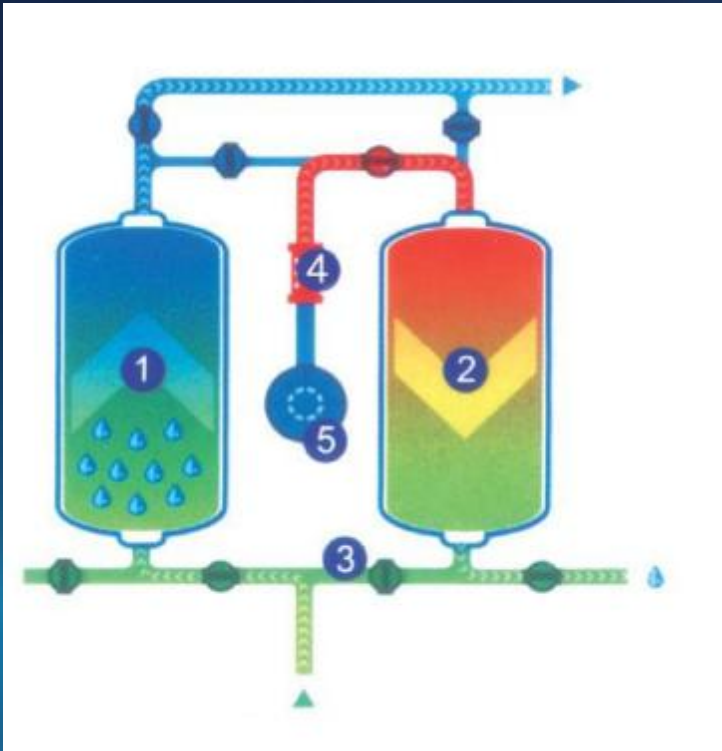
Micro-Heat Desiccant Air Dryer

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Model	Capacity	Air Entrance Diameter	Unit Size (mm)	Power Supply	Heating power	Weight
	(m ³ /Min)		(L*W*H)			
HR-10WRD	1	G0.75"	800x500x1200	220V/50HZ	0.6KW	110
HR-15WRD	1.5	G0.75"	800x500x1250	220V/50HZ	0.6KW	120
HR-25WRD	2.5	G1"	800x500x1680	220V/50HZ	1.2KW	150
HR-38WRD	3.8	G1"	1000x550x1450	220V/50HZ	1.5KW	180
HR-55WRD	5.5	G1.5"	1000x550x1700	220V/50HZ	2KW	210
HR-69WRD	6.9	G1.5"	1000x550x1900	220V/50HZ	2.5KW	290
HR-86WRD	8.6	DN50	1200X600X1920	220V/50HZ	4KW	310
HR-110WRD	11	DN50	1200x600x2000	220V/50HZ	4KW	380
HR-150WRD	15	DN65	1400x650x2050	380V/50HZ	6KW	580
HR-180WRD	18	DN65	1400x650x2100	380V/50HZ	6KW	610
HR-220WRD	21.5	DN65	1400x750x2200	380V/50HZ	9KW	750
HR-250WRD	25	DN80	1500x700x2650	380V/50HZ	10KW	950
HR-290WRD	28.5	DN80	1650x650x2500	380V/50HZ	15KW	1000
HR-350WRD	35	DN80	1650x650x2550	380V/50HZ	15KW	1050
HR-450WRD	45	DN100	1900x800x2750	380V/50HZ	20KW	1700
HR-550WRD	55	DN100	2100x800x2800	380V/50HZ	25KW	1800
HR-650WRD	65	DN125	2100x800x2850	380V/50HZ	30KW	1850
HR-750WRD	75	DN125	2150x1000x2900	380V/50HZ	36KW	1900
HR-850WRD	85	DN125	2200x1000x2950	380V/50HZ	40KW	2300
HR-1000WRD	100	DN150	2600x1500x3150	380V/50HZ	60KW	2900
HR-1400WRD	140	DN150	2600x1500x3300	380V/50HZ	75KW	3500
HR-1600WRD	160	DN200	2700x1600x3350	380V/50HZ	75KW	4200
HR-1900WRD	190	DN200	3100x1800x3400	380V/50HZ	108KW	5000
HR-2100WRD	210	DN200	3500x2000x3570	380V/50HZ	130KW	5500
HR-2400WRD	240	DN200	4400x2500x3780	380V/50HZ	150KW	6500
HR-2600WRD	260	DN200	4500x2500x3890	380V/50HZ	200KW	7500

Configuration schematic dry air



- 1 AB tower
- 2 AB tower
- 3 Air inlet and exhaust valve
- 4 Heater
- 5 Blower

Working principle

Blower purge regenerative adsorption dryer is a kind of energy-saving compressed air drying device, the equipment uses the air sent into the external environment air blower and a small amount of compressed air and heated after desorption, so it can save a lot of product gas required by traditional process regeneration. The basic principle of adsorption and traditional adsorption process type, but its regeneration method is the process of air regeneration, process sequence includes heating, blowing cold. During heating, the regenerative air source comes from the ambient air after the blower pressure boost, and is heated to the regeneration temperature by the heater as the regenerative gas resolved by the adsorber bed. In the regeneration operation, the regeneration heating gas is used to heat the adsorption bed, and the water vapor precipitated by the regeneration gas is carried out and carried out of the adsorber. Regenerative blowing cooling or from its own dry compressed air, after decompression as regenerative blowing cooling gas, blowing cooling the bed to meet the needs of the next stage of adsorption work, to avoid the air outlet dew point due to the existence of bed temperature and instability.



Working conditions

Inlet temperature $\leq 40^{\circ}\text{C}$

Ambient temperature $\leq 40^{\circ}\text{C}$

Working pressure 0.5~ 1.0mpa

Pressure dew points -20°C , -40°C , -70°C

Working cycle: 8 hours

Adsorbent: activated alumina/molecular sieve

Intake oil content $\leq 0.1\text{ppm}$

Average regeneration gas consumption: $\leq 0\%\sim 2\%$
(select according to requirements)

Blower Purge Regenerative Adsorption Dryer---- Micro gas consumption

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Model	Capacity	Unit Size (mm)	Blower Power KW	Heater Power KW	Weight
	(m^3/Min)	(L*W*H)			(Kg)
HR-220GRD	22	1650x1200x2400	3	12	900
HR-290GRD	29	1700x1250x2700	4.3	20	1200
HR-350GRD	35	1750x1250x2750	4.3	25	1250
HR-450GRD	45	1950x1350x2750	5.5	30	1700
HR-550GRD	55	2050x1400x2800	5.5	30	1750
HR-650GRD	65	2600x1400x2800	7.5	36	1850
HR-750GRD	75	2800x1800x3130	12.5	48	2200
HR-850GRD	85	2800x1800x3130	12.5	50	2250
HR-1000GRD	100	3000x1800x3150	12.5	60	2750
HR-1400GRD	140	3500x2200x3150	15	75	3900
HR-1600GRD	160	3600x2200x3200	20	108	4300
HR-1900GRD	190	3700x3380x3460	25	130	5800
HR-2100GRD	210	3800x3450x3500	35	150	6800
HR-2400GRD	240	3800x3500x3580	40	180	10100
HR-2600GRD	260	4000x3600x3650	45	200	11200



Blower Purge Regenerative Adsorption Dryer---- Zero gas consumption

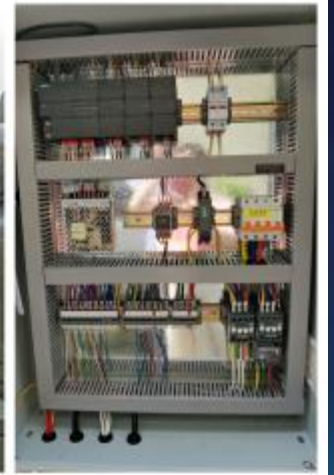
HIROSS



Model	Capacity (m3/Min)	Air Inlet/Outlet	Water cooling Inlet/Outlet	Water cooling flow m3/h	Unit Size (mm) (L*W*H)	Blower Power KW	Heater Power KW	Weight (Kg)
HRS-220GRD	22	DN65	DN40	8	2150x1100x2200	3	12	1100
HRS-290GRD	29	DN80	DN40	9	2300x1200x2650	4.3	20	1400
HRS-350GRD	35	DN80	DN40	10	2500x1300x2700	4.3	25	1450
HRS-450GRD	45	DN100	DN40	11	2500x1350x2700	5.5	30	1900
HRS-550GRD	55	DN100	DN40	12	2500x1350x2800	5.5	30	1950
HRS-650GRD	65	DN125	DN40	15	2600x1400x2800	7.5	36	2050
HRS-750GRD	75	DN125	DN65	18	2800x1800x3130	12.5	48	2400
HRS-850GRD	85	DN125	DN65	20	2800x1800x3130	12.5	50	2450
HRS-1000GRD	100	DN150	DN65	22	3000x1800x3150	12.5	60	2950
HRS-1400GRD	140	DN150	DN80	26	3600x2200x3150	15	75	4100
HRS-1600GRD	160	DN200	DN100	28	3600x2200x3200	20	108	4500
HRS-1900GRD	190	DN200	DN100	32	3700x3380x3460	25	130	6000
HRS-2100GRD	210	DN200	DN100	36	3800x3450x3500	35	150	7000
HRS-2400GRD	240	DN250	DN100	40	3800x3500x3580	40	180	10500
HRS-2600GRD	260	DN250	DN100	45	4000x3600x3650	45	200	12500

Blower Purge Regenerative Adsorption Dryer

HIROSS



Blower Purge Regenerative Adsorption Dryer (User sites pictures)

HIROSS









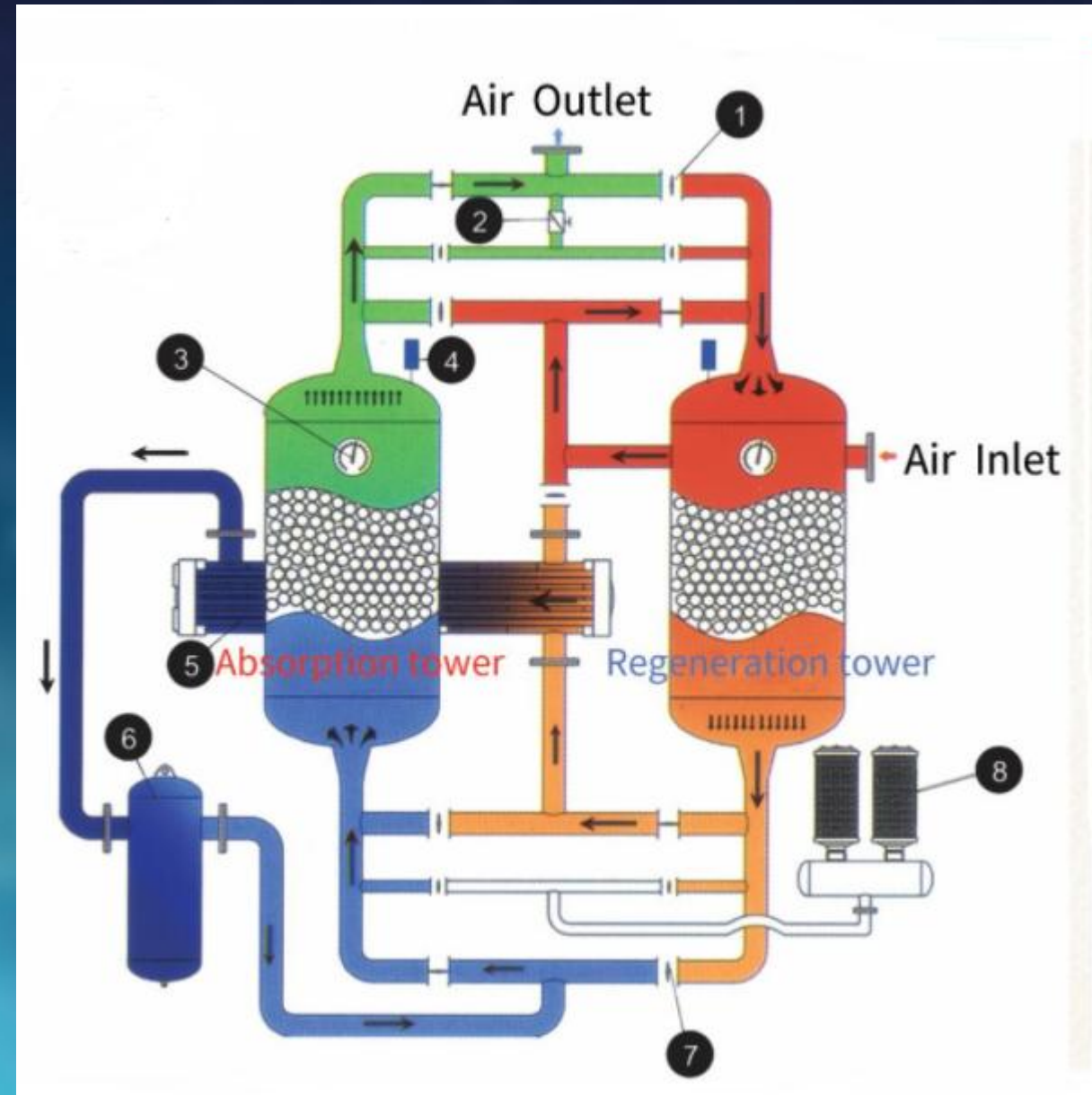
Blower Heat Regenerative Adsorption Dryer (User sites pictures)

HIROSS



Heat of Compression Adsorption Dryer (energy-saving type)

The air contains a lot of heat after being compressed. In most purification systems, the heat is cooled by a cooler, and the temperature is lowered and then dried by a dryer to reach the required dew point. When using the traditional adsorption dryer, about 15% of the treatment capacity must be consumed for regeneration in order to reach the desired dew point. The compression heat regenerative dryer makes full use of the heat of the uncooled compressed air to reduce the adsorbent, so on average, it only needs to consume 1% of the processing volume to cool the adsorbent to achieve continuous drying.



Heat of Compression Adsorption Dryer - No Gas Consumption

HIROSS



1.Standard processing air conditions (air inlet presure: 07MPa; air inlet temperature: 120'C; cooling water temperature: 30C; average regeneration air volume: 0%-2%)
3.Models, specifications, and colors are subject to change without notice
2.For more processing capacity or special specification requirements, please consult the relevant personnel of HIROSSs business department

Model	Capacity	Air Inlet/Outlet	Water cooling Inlet/Outlet	Water cooling flow m3/h	Unit Size (mm)	Weight
	(m3/Min)				(L*W*H)	
HRS-430YR	43	DN100	DN50	40	2800x1500x2600	3000
HRS-520YR	52	DN125	DN65	48	2900x1900x2650	3400
HRS-600YR	60	DN125	DN65	50	2900x1900x2800	3500
HRS-700YR	70	DN125	DN65	52	2900x1900x2850	3900
HRS-800YR	80	DN125	DN65	55	2900x1900x2900	4000
HRS-1080YR	108	DN150	DN80	60	3400x2300x2900	6700
HRS-1450YR	145	DN150	DN100	80	3500x2500x3300	7300
HRS-1700YR	170	DN200	DN100	77	4300x2700x3300	12000
HRS-2120YR	212	DN200	DN100	96	4500x2700x3350	13000
HRS-2830YR	283	DN300	DN125	129	4850x3200x3600	18000
HRS-3400YR	340	DN300	DN125	155	4980x3500x3800	22000
HRS-4250YR	425	DN300	DN150	194	5100x3750x4120	33000

Remarks: It is recommended to install an auxiliary heater if the inlet temperature is lower than 120'C to ensure the stable regeneration of the heat source.





HOC Regenerative Adsorption Dryer (User sites pictures)

HIROSS

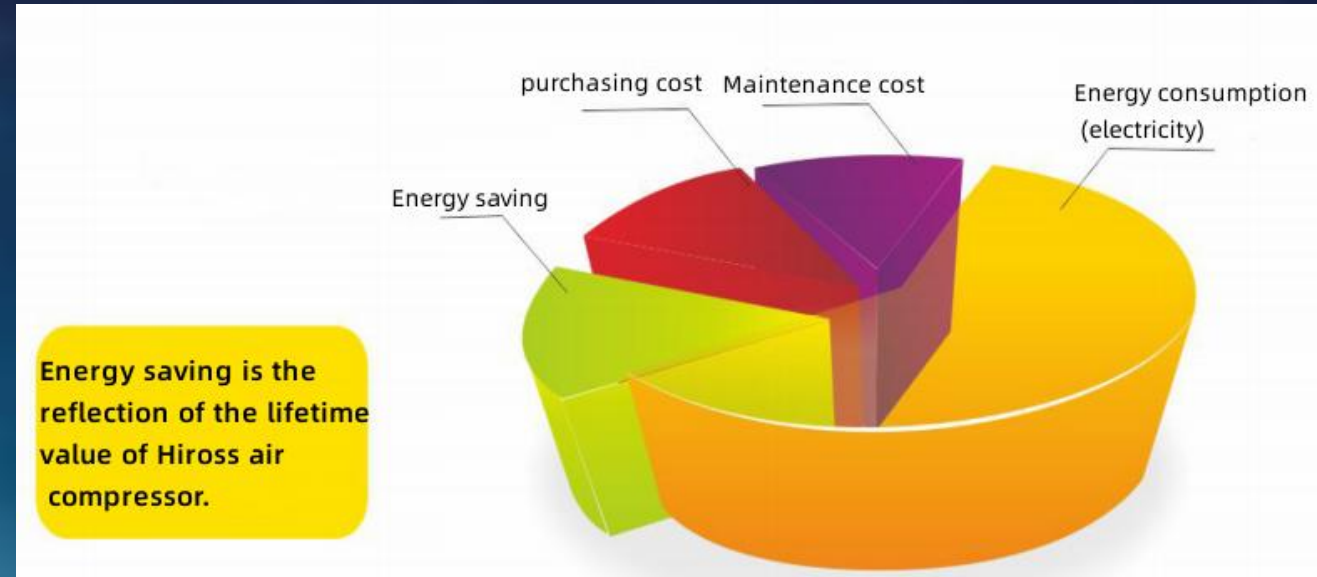


Energy saving = saving money = improving market competitiveness

A large part of the total operating cost of each industrial enterprise is consumed by the cost of electricity. Among them, the power consumption of air compressors occupies a very large proportion. Therefore, effective control of energy consumption costs in operation is crucial to the operation and cost control of each plant.

Adhering to the consistent high-efficiency and energy-saving design concept, supplemented by the world-recognized German exquisite processing technology, it penetrates into every aspect of the comprehensive design, bringing unprecedented energy consumption savings to your operating costs.

Hiross screw air compressors use **German Sigma large rotors** to ensure the low speed, high efficiency and best reliability. Matching high-efficiency motors and a full range of 1:1 flexible direct-coupled transmissions, the three are perfectly integrated to push efficiency and energy saving to the pinnacle.



Taking one 40m³/min, 250KW equipment as an example, the electricity cost for one year is:

$$250\text{KW} \times 8600\text{hours} \times \$0.1(\text{electricity cost}) = \$215,000$$

The electricity cost for 15 years is:

$$15 \times 250\text{KW} \times 8600\text{hours} \times \$0.1(\text{electricity cost}) = \$3,225,000$$

Screw air compressor- single stage- fixed speed

HIROSS



Model	Motor Power		Capacity(m3/min/Mpa)				Air Entrance Diameter	Unit Size (mm)	Weight (Kg)
	KW	HP	0.7	0.8	1.0	1.3		(L*W*H)	
HR-10AZ	7.5	10	1.2	1.1	0.9	0.8	G1½"	700*570*800	120
HR-15AZ	11	15	1.6	1.5	1.3	1.1	G¾"	1040*750*1000	215
HR-20AZ	15	20	2.3	2.1	1.8	1.6	G¾"	1040*750*1000	215
HR-25AZ	18.5	25	3.2	3.0	2.6	2.0	G1"	780*400*780	68
HR-30AZ	22	30	3.8	3.5	3.1	2.8	G1"	1050*850*1050	293
HR-40AZ	30	40	5.5	5.2	4.6	4.1	G1¼"	1300*1000*1300	430
HR-50AZ	37	50	6.6	6.3	5.8	5.1	G1¼"	1300*1000*1300	430
HR-60AZ	45	60	7.5	7.3	6.8	5.9	G1¼"	1370*1020*1300	750
HR-75AZ	55	75	10.8	10.1	8.5	7.5	G2"	1800*1250*1570	1050
HR-100AZ	75	100	13.5	12.6	11.0	10.0	G2"	1800*1250*1570	1456
HR-120AZ	90	120	16.3	15.3	14.3	13.0	G2"	2050*1400*1800	1800
HR-150AZ	110	150	21.6	20.2	17.6	16.0	G2½"	2050*1400*1800	2200

Screw air compressor+ Permanent magnet motor+ Inverter+- Single Stage

HIROSS



Model	Motor Power		Capacity(m3/min/Mpa)				Air Entrance Diameter	Unit Size (mm)	Weight
	KW	HP	0.7	0.8	1.0	1.3		(L*W*H)	(Kg)
HR-7.5BZ	7.5	10	1.2	1.1	0.9	0.8	G½"	700*570*800	120
HR-11BZ	11	15	1.6	1.5	1.3	1.1	G¾"	1040*750*1000	215
HR-15BZ	15	20	2.3	2.1	1.8	1.6	G¾"	1040*750*1000	215
HR-22BZ	22	30	3.8	3.5	3.1	2.8	G1"	1050*850*1050	293
HR-30BZ	30	40	5.5	5.2	4.6	4.1	G1¼"	1300*1000*1300	430
HR-37BZ	37	50	6.6	6.3	5.8	5.1	G1¼"	1300*1000*1300	430
HR-45BZ	45	60	7.5	7.3	6.8	5.9	G1¼"	1370*1020*1300	750
HR-55BZ	55	75	10.8	10.1	8.5	7.5	G2"	1800*1250*1570	1050
HR-75BZ	75	100	13.5	12.7	11.0	10.0	G2"	1800*1250*1570	1456
HR-90BZ	90	120	16.3	15.3	14.3	13.0	G2"	2050*1400*1800	1800
HR-110BZ	110	150	21.6	20.2	17.6	16.0	G2½"	2050*1400*1800	2200
HR-132BZ	132	180	25.2	24.1	21.0	18.3	G2½"	2050*1400*1800	2500
HR-160BZ	160	215	29.0	28.0	25.0	22	DN75	2625*1736*1905	3000
HR-185BZ	185	250	33.0	31.0	29.0	25.0	DN75	2625*1736*1905	3880
HR-220BZ	220	300	37.0	35.0	31.0	28.0	DN80	3092*1944*2143	4050
HR-250BZ	250	340	43.0	41.0	38.0	35.0	DN80	3092*1944*2143	4700
HR-355BZ	355	380	64.0	58.0	50.0	42.0	DN80	3383*1998*2220	5100

Screw air compressor+ Permanent magnet motor+ Inverter+ Two-Stage

HIROSS



Model	Motor Power		Capacity(m3/min/Mpa)				Air Entrance Diameter	Unit Size (mm)	Weight
	KW	HP	0.7	0.8	1.0	1.3		(L*W*H)	(Kg)
HR-15BZ- II	15	20	3.1	2.8	2.5	2.3	PR1	1500*900*1150	650
HR-18BZ- II	18	25	3.5	3.4	3.0	2.4	PR1	1500*900*1150	665
HR-22BZ- II	22	30	4.1	4.0	3.4	3.2	PR1	1500*900*1150	700
HR-30BZ- II	30	40	6.5	6.4	4.8	4.1	PR1	1800*1100*1350	950
HR-37BZ- II	37	50	7.1	7.0	6.2	5.5	PR 1¼	1800*1100*1350	1000
HR-45BZ- II	45	60	9.8	9.7	7.8	6.6	PR2	2100*1260*1300	1590
HR-55BZ- II	55	75	12.8	12.4	9.7	8.7	PR2	2100*1260*1300	1650
HR-75BZ- II	75	100	17.6	16.5	12.4	11.1	PR2	2200*1260*1300	2200
HR-90BZ- II	90	120	21.0	19.8	17.9	14.2	DN65	2700*1600*1950	2300
HR-110BZ- II	110	150	24.5	23.6	19.8	17.5	DN65	2700*1600*1950	3200
HR-132BZ- II	132	180	29.9	28.0	23.5	19.8	DN65	2800*1700*1900	3300
HR-160BZ- II	160	215	34.5	33.7	30.0	23.8	DN80	2800*1700*1900	3600
HR-185BZ- II	185	250	41.0	38.4	32.6	28.7	DN100	3200*2200*2100	3800
HR-200BZ- II	200	270	44.7	43.0	38.5	32.9	DN100	3200*2200*2100	4700
HR-220BZ- II	220	300	48.6	46.9	41.0	38.0	DN100	4000*2300*2050	5300
HR-250BZ- II	250	340	55.0	54.0	45.9	40.0	DN100	4000*2300*2050	5850
HR-280BZ- II	280	380	61.0	59.9	51.0	44.9	DN100	4000*2300*2050	6340
HR-315BZ- II	315	420	69.0	67.6	61.0	51.0	DN125	4350*2050*2150	6850

◎ Color touch screen microcomputer controller

1. Advanced microcomputer control drive system realizes intelligent control, variable speed control, automatic gas volume adjustment, load driving, and soft driving;
2. The elimination of current surges and the extension of the service life of components greatly increase the reliability of the system;
3. Intelligent dynamic control, monitors the working status of each component in the machine, and displays pressure, temperature, current and other parameters in real time, which can better monitor the operation of the equipment.

◎ Oil filter

The rotary oil filter, which uses high-end aviation materials for filtration, has a 20% higher effect than the conventional filter element, effectively extending the normal service life of the main engine.

◎ Oil and gas separator

A super large capacity oil and gas separator, with superior quality oil and gas separation components and gas liquid filtration components, coupled with advanced design for tertiary oil and gas separation, with an oil content controlled below 3 ppm, ensuring high-quality compressed air.



◎ Intake valve

Designed with advanced air valves, the intake adjustment range is 0-100%, and the volume control valve is adjustable. The pressure loss is small, the action is stable, and the service life is long.

◎ Air filter

with high dust capacity and low flow resistance, it can filter out small solid particles in the air, achieving a dust removal effect of 99.5%, ensuring the normal operation and economical service life of all components of the system.

◎ High efficiency cooler

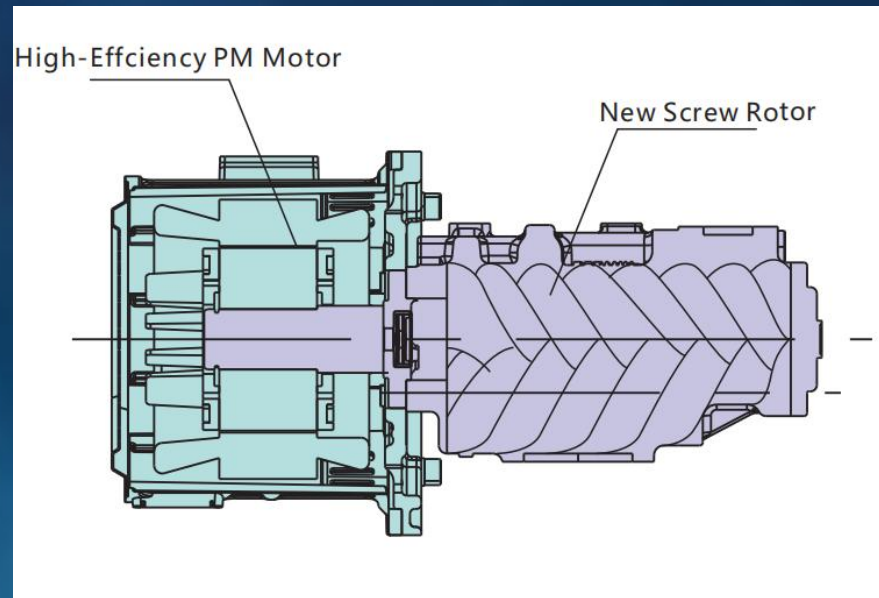
The ultra-large heat dissipation area design improves cooling efficiency and effectively prevents the machine from overheating. The inner wall is anti-corrosion treated to adapt to more severe working conditions and extend service life.

● High efficiency integrated air end

Germany's world-class screw host, high efficiency, low speed, rotor adopts the third-generation 5:6 tooth profile, the world's best profile design, good power balance, high reliability, low noise, low energy consumption, low maintenance costs, and ultra long service life.

The permanent magnet motor and the compressor host adopt an embedded integrated shaft directly connected structure, which makes the structure more compact and the transmission efficiency 100% higher.

There are no motor bearings. The rotor with permanent magnets is directly installed on the extended shaft of the male rotor. This structure does not require the use of bearings, thereby eliminating the failure point of the motor bearings; the rotor is directly connected to the machine head, reducing transmission losses and improving the overall performance. Machine efficiency.



● Highly efficient and energy-saving permanent magnet motor

1. Energy saving

Efficient permanent magnet motors (PM motors) have superior energy-saving performance compared to ordinary frequency modulation motors; Especially at low motor speeds, permanent magnet motors can still maintain high motor efficiency.

2. Stability

The permanent magnet synchronous motor (PM motor) uses high-performance neodymium iron boron permanent magnet, 120°C; The stator coil uses corona-resistant enameled wire specially designed for frequency converters, with excellent insulation performance and longer service life;

3. Small volume

The motor has a small volume, usually about one-third the size of a regular frequency modulation motor, making it easy to disassemble.

4 in 1 Screw air compressor

HIROSS

Specially designed for laser cutting applications, exhaust pressure: 16bar



Adopting advanced German head and motor, with good power balance and high reliability.

Low energy consumption, low noise, and ultra long service life.

For laser cutting applications, efficient centrifugal oil and gas separators, all imported materials, and optimized oil and gas separation systems ensure ultra-low oil content.

- The whole oil frame and pipeline are designed according to a working condition of 20 bar, which is safe and reliable, and operates without any optimization.
- The intelligent control system integrates multiple protection functions, effectively preventing faults caused by overheating, short circuit, overload, etc. It can achieve unmanned operation and intelligent operation.
- The entire series uses fully synthetic lubricating oil with 8000- hours service life. For laser cutting applications, efficient centrifugal oil and gas separators, all imported materials, and optimized oil and gas separation systems ensure ultra-low oil content.
- The whole oil frame and pipeline are designed according to a working condition of 20 bar, which is safe and reliable, and operates without any optimization.
- The intelligent control system integrates multiple protection functions, effectively preventing faults caused by overheating, short circuit, overload, etc. It can achieve unmanned operation and intelligent operation.
- The entire series uses fully synthetic lubricating oil with 8000- hours service life.

4 in 1 Screw air compressor for laser cutting ----Medium pressure 16 bar

HIROSS



Model	Motor Power		Capacity(m3/min)	Air Entrance Diameter	Unit Size (mm)	Weight
	KW	HP	16 Bar		(L*W*H)	(Kg)
HR11-16PM	11	15	0.9	Rp3/4"	1700*750*1550	442
HR15-16PM	15	20	1.2	Rp3/4"	1700*750*1550	456
HR22-16PM	22	30	2.1	PR3/4"	1700*750*1550	495
HR37-16PM	37	50	3.6	Rp 1"	1080*850*1130	700
HR55-16PM	55	75	6.5	Rp1½"	1200*1000*1280	1250
HR75-16PM	75	100	9.1	Rp2"	1580*1150*1530	1300
HR90-16PM	90	120	11.2	Rp2"	1580*1150*1530	1560
HR110-16PM	110	150	14.5	G2"	1700*1250*1580	2700
HR132-16PM	132	180	18	G2"	1700*1250*1580	2950

Notes: Our company reserves the right to continuously improve technology, and parameters will change without prior notification.

4 in 1 Screw air compressor for laser cutting ----Medium pressure 16 bar

HIROSS



Basic parameters

Technical standards:

Oil content: 0.001mg/m
Water removal: 99.999%
Filtration precision: 0.01micron
Comply with EU usage standards
Under standard working conditions,
gas quality can be maintained for 12
consecutive months.

Main component configuration:

screw air compressor
Refrigerated air dryer
Precision air filter
Gas water separator



© German advanced air end
Sufficient exhaust volume
Stable and durable for 10-20
years



© Energy-saving
permanent magnet
inverter



© Rotary oil filter with
excellent material
filtration, protect the
host from normal use



© High-efficiency precision
filter, good oil and water
removal effect.

2 in 1 Screw air compressor ----working pressure 8 bar

HIROSS

The combination all-in-one air compressor is designed for applications such as laser cutting, automotive maintenance, machining, spraying, and pneumatic tools, with high reliability and low energy consumption.



Model	Motor Power		Capacity(m3/min)	Noise dB(A)	Unit Size (mm)	Weight
	KW	HP	8 Bar		(L*W*H)	(Kg)
HR-7.5	7.5	10	1.1	65±2	700*570*800	180
HR-11	11	15	1.7	65±2	1040*750*1000	210
HR-15	15	20	2.3	65±2	1040*750*1000	235

Notes: Our company reserves the right to continuously improve technology, and parameters will change without prior notification.

4 in 1 Screw air compressor ----working pressure 8 bar

HIROSS



Model	Motor Power		Capacity(m3/min/Bar)				Noise dB(A)	Unit Size (mm)	Weight
	KW	HP	8	10	13	16		(L*W*H)	(Kg)
HR7.5-8PM	7.5	10	1.1	0.9	0.7	0.5	65±2	700*570*800	240
HR11-8PM	11	15	1.7	1.5	1.2	1.0	65±2	1040*750*1000	350
HR15-8PM	15	20	2.3	2.0	1.7	1.5	69±2	1040*750*1000	365
HR22-8PM	22	30	3.8	3.1	2.6	2.2	69±2	1050*850*1170	465

Notes: Our company reserves the right to continuously improve technology, and parameters will change without prior notification.

Ceiling Mounted Dehumidifier

HIROSS

关于我们

我们是一家致力于为全球客户提供高品质产品的制造企业。我们拥有先进的生产设备和技术，致力于为客户提供量身定制的解决方案。我们的产品涵盖多个行业和领域，包括工业制造、电子设备、温室种植、食品加工以及其他重要市场。我们的产品在质量和可靠性方面广受好评并多次获得认可。我们的公司始终遵循“品质第一”的原则，测试并检查所有产品以确保一致的性能和可靠性。我们的专业团队汇聚了多年的经验，具备专业的技术和知识。我们积极采用全球采购策略，不断推动业务优化，实现更好的成本控制。



Model	HR-C155	HR-C195	HR-C210	HR-A225
Relative humidity	27°C/60%RH	27°C/60%RH	27°C/60%RH	27°C/60%RH
Capacity	155pint/D	195pint/D	225pint/D	225pint/D
Maximum power	1250W	1350W	1450W	1450W
Air volume	1020m³/h	1300m³/h	1200m³/h	1200m³/h
Power supply	220-240V/50Hz			
Control method	Microcomputer intelligence			
Setting range	10~90%			
Adjust value	±1%			
Humidity accuracy	±3%			
Display	LED temperature and humidity dual display			
Cycle mode	Left in and right out			
Dust filter	Medium efficiency filter			
Power off memory	yes			
Timing function	24-hour timed on/off switch			
Defrost mode	automatic			
Refrigerant	R410			
Drainage method	continuous drainage			
Fault prompt	screen code			
Protection level	IP21			
Protection function	High and low temperature automatic			
Compressor protection	Delay, overheating			
Product size	790*540*460MM	510*420*935MM	870*555*505MM	700*645*525MM
Packing size	870*642*600MM	530*440*965MM	940*660*660MM	780*790*675MM
Product net weight	73KG	82KG	90KG	86KG

About Us

We are a manufacturing enterprise dedicated to providing high-quality products to clients worldwide. With advanced production equipment and technology, we are committed to offering tailored solutions. Our products span multiple industries and fields, including industrial manufacturing, electronic devices, greenhouse cultivation, food processing, and other key markets. Renowned for quality and reliability, our products have received widespread acclaim and numerous accolades. Upholding the principle of "quality first," we rigorously test and inspect all products to ensure consistent performance and dependability. Our professional team brings years of experience, specialized expertise, and technical knowledge. By actively adopting a global sourcing strategy, we continuously optimize operations and achieve better cost control.



Model	HR-C320	LN-M320	HR-B320	HR-A335
Relative humidity	27°C/60%RH	27°C/60%RH	27°C/60%RH	27°C/60%RH
Capacity	320pint/D	320pint/D	320pint/D	335pint/D
Maximum power	2250W	2250W	2250W	2300W
Air volume	1650m³/h	1650m³/h	1650m³/h	1650m³/h
Power supply	220-240V/50Hz			
Control method	Microcomputer intelligence			
Setting range	10~90%			
Adjust value	±1%			
Humidity accuracy	±3%			
Display	LED temperature and humidity dual display			
Cycle mode	Left in and right out			
Dust filter	Medium efficiency filter			
Power off memory	yes			
Timing function	24-hour timed on/off switch			
Defrost mode	automatic			
Refrigerant	R410			
Drainage method	continuous drainage			
Fault prompt	screen code			
Protection level	IP21			
Protection function	High and low temperature automatic			
Compressor protection	Delay, overheating			
Product size	870*555*505MM	870*555*505MM	870*555*505MM	700*645*525MM
Packing size	940*660*660MM	940*660*660MM	940*660*660MM	780*790*675MM
Product net weight	97KG	97KG	97KG	96KG

Ceiling Mounted Dehumidifier

HIROSS



Ceiling Mounted Dehumidifier

- *High-Quality ABS plastic steel, power saving, mute.
- *Placed inside ceiling, Do not take up the interior space.
- *Compressor three minutes automatic delay protection.
- ***International Brand Compressors:** Panasonic, Copeland, Taikang.
- *Function of buzzer alarm and stop when water full.
- *Ambient humidity LED display, auto stop when ambient humidity under control.
- *Upward air outlet, adjustable outlet direction.
- *Humidity and timing setting.
- ***Automatic defrost.**
- *Full copper tube condenser and evaporator.
- *Control range of humidity: 30% - 95%.
- *Accuracy of humidity adjustment: 1%.
- ***Continuous drainage.**
- *Save money-one machine, controls the whole space.



Ceiling Mounted Dehumidifier (Testing condition: T=30°C/RH=80%)

HIROSS



Model	HRDD-20	HRDD-58	HRDD-90	HRDD-150
Dehumidifying Capacity	20L/D	58L/D	90L/D	150L/D
Circulating Air Flow	250m3/h	650m3/h	800m3/h	1200m3/h
Application Space	10-35 m2 (H2.6m)	40-50 m2 (H2.6m)	90-120 m2 (H2.6m)	90-120 m2 (H2.6m)
Power	220V/50Hz/60HZ	220V/50Hz/60HZ	220V/50Hz/60HZ	220V/50Hz/60HZ
Input Power	350W	910W	1500W	2200W
Current	1.8A	3.5A	7.5A	11A
Working Temperature	5-38°C	5-38°C	5-38°C	5-38°C
Dimension(mm)	545X375X200	660X630X420	940X630X480	940X630X480
N.W./G.W.	26kg	56kg	70kg	78kg
Time Setting	1-24Hrs	1-24Hrs	1-24Hrs	1-24Hrs
Drainage Method	Hose Connection	Hose Connection	Hose Connection	Hose Connection
Defrost Function	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting
Refrigerant	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional

Ceiling Mounted Dehumidifier (Testing condition: T=30°C/RH=80%)

HIROSS



Model	HRDD-168	HRDD-248	HRDD-388	HRDD-488
Dehumidifying Capacity	168L/D	240L/D	360L/D	480L/D
Circulating Air Flow	2000m3/h	2800m3/h	4000m3/h	5600m3/h
Application Space	90-120 m2 (H2.6m)	300-400 m2 (H2.6m)	400-500 m2 (H2.6m)	500-600 m2 (H2.6m)
Power	380V/50Hz/60HZ	380V/50Hz/60HZ	380V/50Hz/60HZ	380V/50Hz/60HZ
Input Power	3KW	4KW	5.1W	10.5KW
Current	11A	12A	13.5A	15A
Working Temperature	5-38°C	5-38°C	5-38°C	5-38°C
Dimension(mm)	940X630X480	1050*750*800	1300*1280*740	1300*1270*735mm
N.W./G.W.	78kg	105kgs	205kgs	
Time Setting	1-24Hrs	1-24Hrs	1-24Hrs	1-24Hrs
Drainage Method	Hose Connection	Hose Connection	Hose Connection	Hose Connection
Defrost Function	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting	Automatic Defrosting
Refrigerant	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional	R-22, R410A, R407C, 134A for optional

Dehumidifier

HIROSS



Microprocessor: All units are supplied standard with microprocessor controls. The microprocessor controls the following functions: compressor timing, automatic defrost cycles, alarms.

An appropriate LCD display shows the operation mode of the unit, set point and alarms.

Condenser and evaporator are made of copper pipes and aluminum fins.

Universal Wheel, Portable

Automatic Drain Through Water Pipe

Compressor Brand: Panasonic, Copeland (3 Minutes Delay protection)

Control and Protection Devices

All units are supplied with the following control and protection devices: antifreeze protection sensor, high-pressure switch with manual reset, low-pressure switch with automatic reset, high-pressure safety valve, compressor thermal overload protection, fans thermal overload protection.



Dehumidifier

HIROSS



(Testing condition: T=30°C/77°F, RH=80%)				
	HR-20	HR-26	HR-30	HR-50
Capacity(L/DAY)	20L/DAY	26L/DAY	30L/DAY	50L/DAY
Power	220V/50Hz			
Rated input current	2.5A	3.0 A	2.5A	3.0A
Rated input power	500W	550W	570W	650W
Work temperature	5~38°C or 32~100°F			
Circulating air flow	550M^3/H	600M^3/H	800M^3/H	850M^3/H
Drainage type	Water Tank/ Hose Connection			
Outlook size	370*345*665 (mm)		530*430*650(MM)	
Gross weight	20KG	21KG	26KG	27KG
Net Weight	18KG	19KG	24KG	25KG
Applicable scope	10~25M^2	20~35M^2	40~50M^2	50~60M^2
Compressor	Hitachi(Japan)			
Automatic Defrost	Defrost once temperature under 18°C			
Universal Wheel	Movable			
Wind direction	Upshift/Downshift			
Design	Digital Display, Humidity Control			
Packaging	Carton & wooden box			

Dehumidifier

HIROSS



(Testing condition: T=30°C/RH=80%)

Model	HR-90	HR-138	HR-150
Capacity(L/DAY)	90L/DAY	138L/DAY	150L/DAY
Power	220V/50Hz		
Rated input current	7.5A	10.0 A	11.0A
Rated input power	1.3KW	1.5KW	2.2KW
Work temperature	5~38°C or 32~100°F		
Circulating air flow	1000M ³ /H	1300M ³ /H	1500M ³ /H
Drainage type	Water Tank/ Hose Connection		
Outlook size	540*460* 1030(MM)	540*460* 1130(MM)	
Gross weight	53KG	57KG	58KG
Net Weight	50KG	55KG	56KG
Applicable scope	90~ 120M ²	120~ 150M ²	130~ 170M ²
Compressor	Hitachi(Japan)		
Automatic Defrost	Defrost once temperature under 18°C		
Universal Wheel	Movable		
Wind direction	Upshift/Downshift		
Design	Digital Display, Humidity Control		
Packaging	Carton box, 1 piece		

Dehumidifier
HIROSS



(Testing condition: T=30°C/RH=80%)

Model	HR-168
Capacity(L/H)	7L/H
Power	380V/50Hz
Rated input current	6A
Rated input power	3.0KW
Work temperature	5~38°C
Circulating air flow	2000M ³ /H
Drainage type	Water Tank/ Hose Connection
Outlook size	640*400* 1600(mm)
Gross weight	140kg
Net Weight	120kg
Applicable scope	160~200m ²
Compressor	Panasonic(Japan)
Automatic Defrost	Defrost once temperature under 18°C
Universal Wheel	Movable
Wind direction	Upshift/Downshift
Design	Digital Display, Humidity Control
Packaging	Carton & wooden box

Dehumidifier

HIROSS

(Testing condition: T=30°C/RH=80%)



Model	HR-218	HR-248	HR-388	HR-488
Capacity (30°C,RH80%)	8.8L/H	10L/H	15L/H	20L/H
Power	380V/50Hz			
Rated input current	8.0A	12.0 A	13.0A	15.0A
Rated input power	4.2KW	5.2KW	8.1KW	10.5KW
Work temperature	5~38°C or 32~100°F			
Circulating air flow	2600m3/h	2800m3/h	4000m3/h	5600m3/h
Drainage type	Water Tank/ Hose Connection			
Outlook size(mm)	790*470*1720		1200*450*1750	1220*470*1770
Gross weight	160KG	170KG	220KG	240KG
Net Weight	140KG	150KG	200KG	220KG
Applicable scope	220~300m²	300~400m²	400~500Mm²	500~600Mm²
Compressor	Panasonic(Japan)			
Automatic Defrost	Defrost once temperature under 18°C			
Universal Wheel	stationary or universal wheel			
Wind direction	Upshift/Downshift			
Design	Digital Display, Humidity Control			
Packaging	Carton & wooden box			

Dehumidifier

HIROSS



(Testing condition: T=30°C/RH=80%)

Model	HR-960
Capacity(L/H)	40L/H
Power	380V/50Hz
Rated input current	25.8A
Rated input power	16.9KW
Work temperature	5~38°C
Circulating air flow	12000M ³ /H
Drainage type	Water Tank/ Hose Connection
Outlook size	1400*650*1930(mm)
Gross weight	500kg
Net Weight	440kg
Applicable scope	900~1100m ²
Compressor	Panasonic(Japan)
Automatic Defrost	Defrost once temperature under 18°C
Universal Wheel	stationary
Wind direction	Upshift/Downshift
Design	Digital Display, Humidity Control
Packaging	Carton & wooden box

Portable Dehumidifier

HIROSS



(Testing condition: T=30°C/RH=80%)

Model	HR-90DL	HR-138DL	HR-150DL
Capacity(L/H)	90L/D	138L/D	150L/D
Humidity range	RH45%-95%		
Rated input current	6A	8.5A	9.5A
Rated input power	1.2KW	1.7KW	1.9KW
Max. electricity consumption	1.5kw	2.1kw	2.2kw
Work temperature	5~38°C or 32~100°F		
Circulating air flow	1000m3/h	1300m3/h	1500m3/h
Drainage type	Water Tank/ Hose Connection		
Applicable scope	90~100m²	100~130m²	130~150Mm²
Air outlet pressure	80-100 Pa		
Remote controller	Available		
Work temperature	5~38°C or 32~100°F		
Big Wheels	yes		
Continuously drian	Available		
Design	Digital Display, Humidity Control		
Packaging	Carton & wooden box		

Portable Dehumidifier

HIROSS



(Testing condition: T=30°C/RH=80%)

Model	HRGY-90	HRGY-138	HRGY-150
Capacity(L/H)	90L/D	138L/D	150L/D
Humidity range	RH10%-90%		
Rated input power	1075W	1215W	1495W
Max. Power	1500w	1850w	2300w
Work temperature	5~38°C or 32~100°F		
Circulating air flow	1000m3/h	1300m3/h	1500m3/h
Drainage type	Water Tank/ Hose Connection		
Applicable scope	90~100m²	100~130m²	130~150Mm²
Outlook size(mm)	540x480x1140	540x485x1200	540x485x1200
Net weight (KGS)	52	69	69
Gross weight (KGS)	55	72	72
Big Wheels	yes		
Continuously drian	Available		
Design	Digital Display, Humidity Control		
Packaging	Carton & wooden box		