Centrifuge

CH series

KBs eries

CB series

Oil-free machine

G series

GPM2 series

XA series

Micro-oil Screw

EPM2 series

EPM2 PRO series

10-20APM series

APM series

LBPM series

H series

Vacuum Pump

VSPM series

VG series

Systematic Energy-saving Solution

SCR HIGH EFFICIENCY FILTER

SCR filters, your great helper for clean air.

SHANGHAI SCREW COMPRESSOR CO., LTD.

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SCR 2025.06

SHANGHAI SCREW COMPRESSOR CO ., LTD.

100000 ㎡
Manufacturing bases

300+
Global sales and service outlets

80000
global users

35
global certifications

Rand registration in **53** countries

Export to **107** countries

3
major R&D teams

50+
R&D engineers

Cooperation with **4** universities

200+
National patents

22
Evisions of industry standards

8%
R&D investment as apercentage of annual revenue

ABOUT SCR

ABOUT ANEST IWATA GROUP

1926
ESTABLISHED IN

1973
LISTED IN

Main businesses: Air compressors, vacuum equipment, painting equipment, medical equipment.

Group composition: **2**production bases in Japan,**30**global companies.

ANEST IWATA

HONORS AND QUALIFICATIONS

High-tech Enterprise Certificate

Science and Technology Progress Award Certificate

Torch Program Project Certificate

EU CE Certification

US UL Certification

ISO 9001-2015 Certification

CLASS 0 Certification

CLASS 0 Certification

Enterprise Qualification Certification

SCR HIGH EFFICENCY FILTER

➤ Full-grade coverage to meet needs in different scenarios

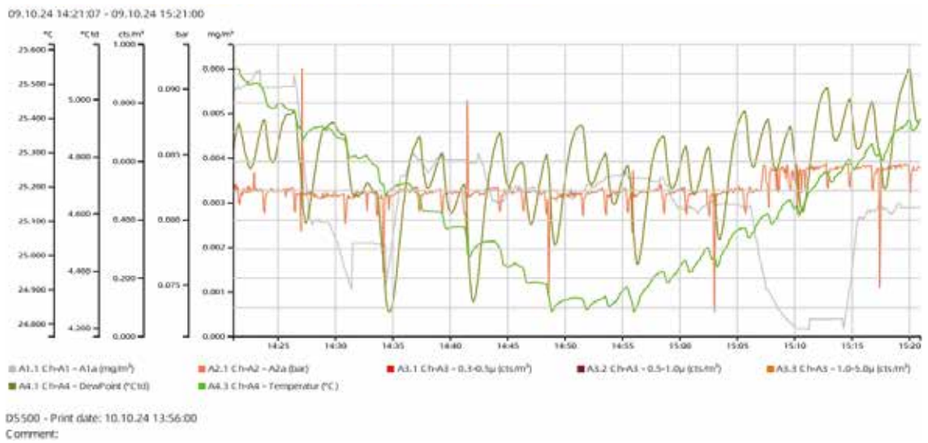
Untreated compressed air contains potential harmful pollutants (such as abrasive solid particles, condensate droplets, oil-gas and hydrocarbon vapor contamination, etc.)

- Accelerates wear and tear of air-using equipment, leading to seal failure
- Reduces production efficiency and increases costs
- Pollutes the production work environment

Filters can effectively treat pollutants, ensure air quality requirements, improve the efficiency of enterprise production equipment, and reduce operational costs.

Grade	Type	Oil content (ppm)	Maximum particulate matter per cubic meter			Initial pressure difference (bar)
			1-5μmm	0.5-1μm	0.5-1μm	
C	Pre-filter	3	-	-	-	0.02
T	Medium level filter	0.1	-	-	-	0.06
A	Fine filter	0.01	≤100，000	-	-	0.07
H	Activated carbon filter	0.003	≤1，000	≤90，000	-	0.04
F	Dust filter	-	≤10	≤400	≤20，000	0.17

Trend Chart of CS Detection Data in Germany



➤ Full-grade coverage to meet needs in different scenarios

Screw has been dedicated to the R & D and production of air compressors for 24 years, serving more than 80,000 global customers. We deeply understand the pain points of customers' production sites and are familiar with the characteristics of compressed air systems. We specialize in creating high - quality, energy - efficient, long - maintenance - cycle, safe and easy - to - install filter products for air compressors.

High Quality

Energy - efficient pipeline filters that meet the international ISO8573 standard

Energy Efficiency

The precision filter has an efficiency of 99.999%, the lowest operating cost and can quickly recover the equipment purchase cost.

Long Maintenance Cycle

The filter housing is guaranteed for 15 years under rated working conditions to ensure the efficient operation of the equipment.

Safe and Easy to Install

With rich design experience and mature and reliable technology, the filter has passed the pressure test and burst test.

SCR-E Series High-Efficiency Filters(1.0MPa)

Selection Table

Filter model	Interface	Flow rate (m^3/min)	Dimension							Type of filterelement
			A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	
SCR-E015*	RC3/4	1-2	332	240	39	80	85	53	Ø6.5	SCR-E015*
SCR-E016*	RC1	1-2	332	240	39	80	85	53	Ø6.5	SCR-E016*
SCR-E035*	RC1	3.5	386	294	39	94	102	53	Ø8.0	SCR-E035*
SCR-E060*	RC1-1/2	6	512	420	39	105	112	53	Ø8.5	SCR-E060*
SCR-E080*	RC1-1/2	8	512	420	39	105	112	53	Ø8.5	SCR-E080*
SCR-E120*	RC2	11.2	747	655	39	130	140	53	Ø10.5	SCR-E120*
SCR-E160*	RC2	15.5	747	655	39	130	140	53	Ø10.5	SCR-E160*
SCR-E180*	RC2-1/2	20.4	884	792	39	152	160	53	Ø13.0	SCR-E180*
SCR-E240*	RC2-1/2	25	884	792	39	152	160	53	Ø13.0	SCR-E240*

Pressure Correction Coefficient

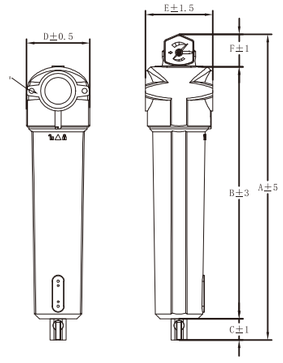
Pressure											
	Barg	1	2	3	4	5	6	7	8	9	10
	psig	15	29	44	59	73	87	100	116	131	145
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19

Notes:
1:Indicates the filter element precision grade.

2:Maximum working pressure: 1.0MPa, maximum working temperature: 80°C, minimum working temperature: 1.5°C

3:For more information about filters, please contact us. The above technical parameters and specifications are subject to change without prior notice, and the actual product shall prevail.

4:Full range standard configuration: differential pressure gauge + manual valve + zero air consumption drainer.



SCR-J Series High-Efficiency Filters (1.6MPa)

Selection Table

Filter model	Interface	Flow rate (m^3/min)	Dimension							Type of filterelement
			A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	
SCR-J005*	RC1/2	0.7	261	169	39	70	76.5	53	Ø5	SCR-J005*
SCR-J010*	RC3/4	1.2	330	238	39	91.5	95	53	Ø6.5	SCR-J010*
SCR-J020*	RC1	2.3	369	277	39	91.5	95	53	Ø6.5	SCR-J020*
SCR-J030*	RC1	3.5	398	307	39	117	123.5	53	Ø9	SCR-J030*
SCR-J050*	RC1-1/2	5.7	516	424	39	117	123.5	53	Ø9	SCR-J050*
SCR-J070*	RC1-1/2	7.8	516	424	39	117	123.5	53	Ø9	SCR-J070*
SCR-J110*	RC2	11.6	642	550	39	160	170	53	Ø12	SCR-J110*
SCR-J150*	RC2	15.5	642	550	39	160	170	53	Ø12	SCR-J150*
SCR-J200*	RC2-1/2	20.8	742	650	39	195	205	53	Ø12	SCR-J200*
SCR-J250*	RC2-1/2	25.3	742	650	39	195	205	53	Ø12	SCR-J250*
SCR-J300*	RC3	30.8	897	805	39	195	205	53	Ø12.5	SCR-J300*
SCR-J400*	RC4	40.5	920	828	39	211.5	210	53	Ø12.5	SCR-J400*

Pressure Correction Coefficient

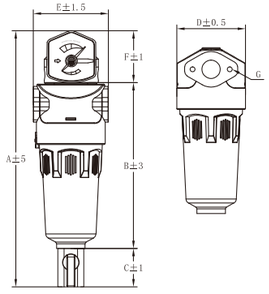
Pressure																	
	Barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psig	15	29	44	59	73	87	100	116	131	145	160	174	189	203	219	232
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

Notes:
1:Indicates the filter element precision grade.

2:Maximum working pressure: 1.0MPa, maximum working temperature: 80°C, minimum working temperature: 1.5°C

3:For more information about filters, please contact us. The above technical parameters and specifications are subject to change without prior notice, and the actual product shall prevail.

4:Full range standard configuration: differential pressure gauge + manual valve + zero air consumption drainer.



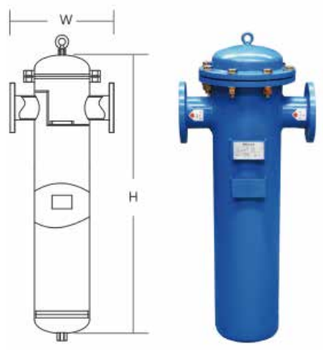
SCR-Y series flange high-efficiency filter(1.0MPa)

Selection Table

Filter model	Flow rate (m^3/min)	Interface	Dimension			Type of filterelement	Filter element quantity
			H(mm)	W(mm)	Diameter(mm)		
SCR-Y020*	15-20	DN65	950	353	133	SCR-Y020*	1
SCR-Y025*	25	DN80	1110	353	133	SCR-Y025*	1
SCR-Y030*	30	DN80	980	430	245	SCR-Y030*	2
SCR-Y040*	40	DN100	1120	465	245	SCR-Y040*	2
SCR-Y050*	50	DN100	1166	500	273	SCR-Y050*	3
SCR-Y060*	60	DN125	1166	500	273	SCR-Y060*	3
SCR-Y080*	80	DN125	1250	565	325	SCR-Y080*	4
SCR-Y100*	100	DN150	1268	617	377	SCR-Y100*	5
SCR-Y120*	120	DN150	1304	726	426	SCR-Y120*	6
SCR-Y140*	140	DN200	1390	780	480	SCR-Y140*	7
SCR-Y160*	160	DN200	1420	800	500	SCR-Y160*	8
SCR-Y180*	180	DN200	1420	800	500	SCR-Y180*	8
SCR-Y200*	200	DN200	1570	800	500	SCR-Y200*	9
SCR-Y260*	260	DN250	1645	860	550	SCR-Y260*	12
SCR-Y300*	320	DN250	1710	970	650	SCR-Y300*	14

Pressure Correction Coefficient

Pressure											
	Barg	1	2	3	4	5	6	7	8	9	10
	psig	15	29	44	59	73	87	100	116	131	145
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19



Notes:
1:Indicates the filter element precision grade.

2:Maximum working pressure: 1.0MPa, maximum working temperature: 80°C, minimum working temperature: 1.5°C

3:For more information about filters, please contact us. The above technical parameters and specifications are subject to change without prior notice, and the actual product shall prevail.

4:Full range standard configuration: differential pressure gauge + manual valve + zero air consumption drainer.

SCR series high-efficiency cyclone gas-water separator (1.0MPa)

Selection Table

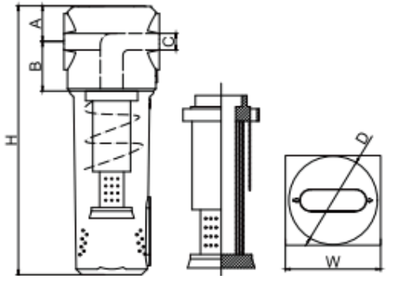
Filter model	Interface	Flow rate (m^3/min)	Dimension		A(mm)	B(mm)
			H(mm)	W(mm)		
SCR-0020WS	RC3/4	1-2	240	85	31.65	44.33
SCR-0050WS	RC1	3-5	294	102	41	57.49
SCR-0080WS	RC1-1/2	6-8	420	112	41	60.56
SCR-0180WS	RC2	11-18	655	140	51.68	73.64
SCR-0280WS	RC2-1/2	20-28	792	160	60.33	81.17

Pressure Correction Coefficient

Pressure											
	Barg	1	2	3	4	5	6	7	8	9	10
	psig	15	29	44	59	73	87	100	116	131	145
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19

The working principle of the cyclone gas-water separator mainly utilizes centrifugal force and inertia force to achieve gas-liquid separation. The cyclone gas-water separator is a commonly used gas-liquid separation equipment, and its operation principle is as follows: The gas-water mixture enters the cyclone gas-water separator through the inlet pipe, and will be forced to rotate after entering the equipment. During the rotation process, the speed and direction of the gas-water mixture will change, causing water droplets with a larger mass to be subjected to a larger centrifugal force and thus move towards the outer wall of the separator. The water droplets with a larger mass move towards the outer wall under the action of centrifugal force, and after hitting the outer wall (which is also a baffle), they coalesce and grow larger and are separated from the gas. The water droplets with a smaller particle size migrate towards the central axis in a negative pressure state under the action of gas pressure, and are finally separated.

Full range standard configuration: manual valve + zero air consumption drainer.



SCR Series Flange Cyclone Gas - Water Separator (1.0MPa)

Selection Table

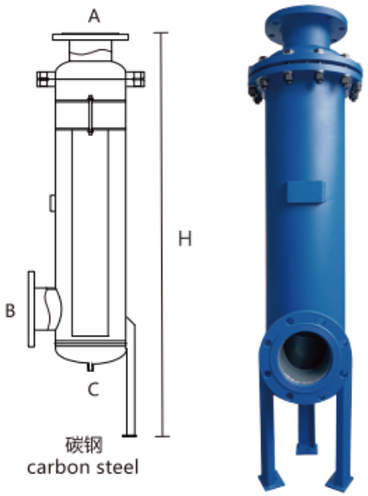
Filter model	Flow rate (m^3/min)	Interface A、B	Interface C	DiameterØ	H(mm)
SCR-0400WS	30-40	DN80	DN15	159	1175
SCR-0600WS	40-60	DN100	DN15	219	1310
SCR-0800WS	60-80	DN125	DN15	273	1470
SCR-1000WS	80-100	DN150	DN15	325	1400
SCR-1400WS	100-140	DN150	DN15	377	1700
SCR-1800WS	150-180	DN200	DN15	426	1750

Pressure Correction Coefficient

Pressure											
	Barg	1	2	3	4	5	6	7	8	9	10
	psig	15	29	44	59	73	87	100	116	131	145
Correction factor		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19

Installing a gas-water separator before the compressed air filter and drying equipment can remove 99% of the liquid water, enabling the downstream purification equipment to perform better. The unique double-stage cyclone separation design of the SCR gas-water separator makes its water removal effect higher than that of traditional gas-water separators. The optional installation positions of the gas-water separator are after the air compressor, before the aftercooler, and after the air storage tank.

Full range standard configuration: manual valve + zero air consumption drainer.



Zero Air Loss Float-Type Drain Valve

All the (condensate) generated by air drying needs to be properly handled because it is a dirty mixture containing water, compressor oil, pollutants, and rust. Due to the constant changes in atmospheric conditions, production loads, and air compressor conditions, it is not advisable to use solenoid valves or manual drain valves in the case of constant air loss. Because these methods are very easy to cause improper adjustment, resulting in a huge waste of energy or a large amount of water leakage from the filter.

The SCR filter automatically removes condensate through a float-type drain valve. To extend the service life and improve energy-saving efficiency, it is recommended to use the SCR series zero air loss float-type drain valve. This is an external drain valve that is easy to maintain. It uses the relationship between buoyancy and pressure to control the discharge of condensate, which is economical and effective.

Selection Table

Model	Operating Temperature	Maximum Working Pressure	Width	Depth	Height
AD-10	≤100°C	1.6MPa	79.5mm	75mm	126mm

Working Principle:

The drainer is equipped with a float ball drainage system. When the buoyancy of the drained water is less than the weight of the float ball and the pressure exerted by the compressed air, the drain port will be closed and no drainage work will be carried out. When the buoyancy and the pressure tend to be balanced, the drainer starts to drain water in a dripping mode. When the buoyancy is greater than the weight of the float ball and the generated pressure, the drain port will open to perform drainage work, and it works in a cycle according to the magnitude of the buoyancy.

Differential Pressure Gauge

Selection Table

Model	Operating Temperature	Maximum Working Pressure	Width	Depth	Height
SCR-YN002	≤80°C	1.6MPa	55mm	40mm	52.28mm

Features:

Installed on the filter housing, it plays an indicating role but does not provide calibration for precise instruments.

There are green and red zones in the display area. If the pointer is in the green zone, it indicates that the filter is in good working condition and does not need to be replaced.

It functions to measure the pressure difference and indicate whether the filter element is clogged prematurely.

For filters with a flow rate of 2.8m³/min and above, please select a differential pressure gauge.

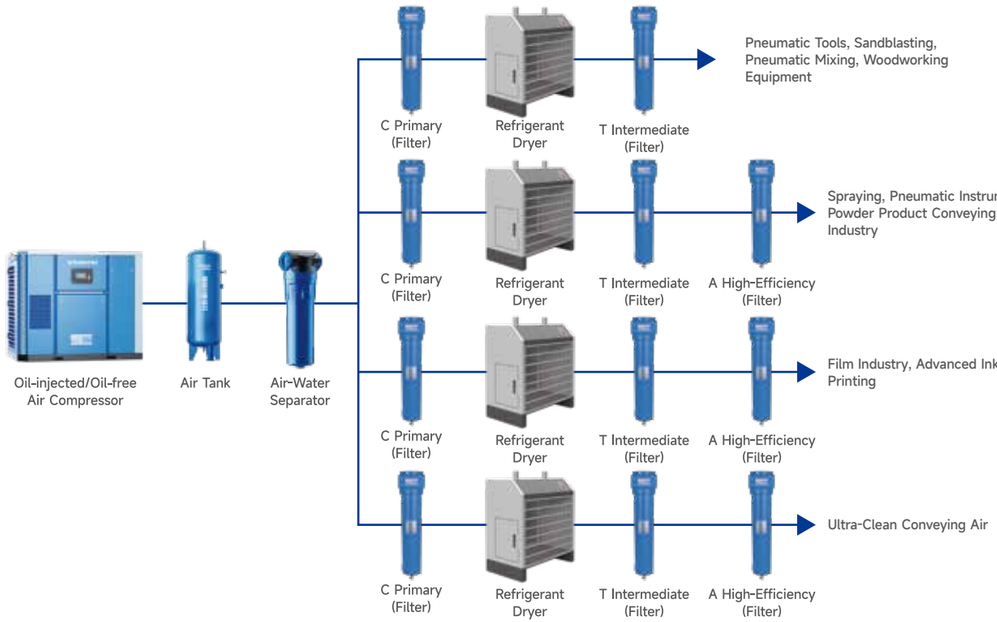
Compressed Air Standard

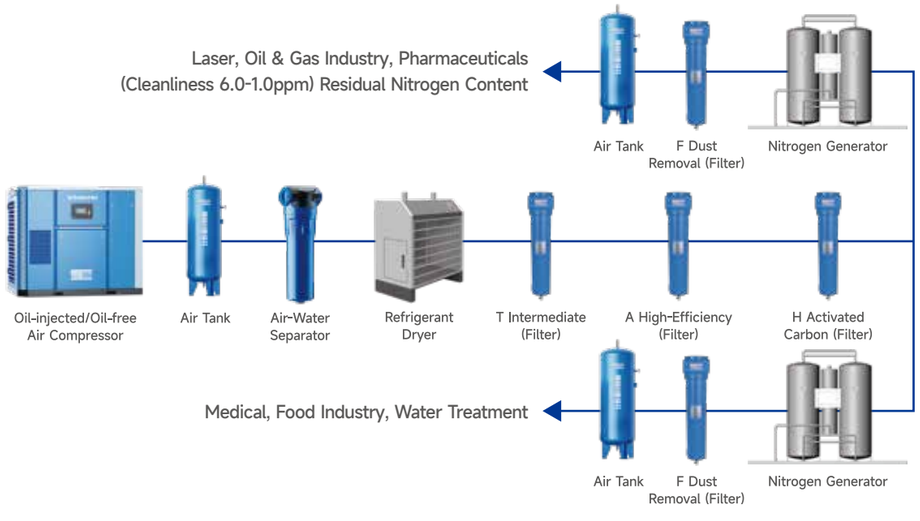
Solid Particles/Dust			
Grade	d< (μm) Maximum number of particles per cubic meter within specified particle diameter range		
	0.1≤d≤0.5	0.5≤d≤1.0	1.0≤d≤5.0
0	Provisions stricter than Class 1 (To be determined)		
1	≤20.000	≤400	≤10
2	≤400.000	≤6.000	≤100
3	No provision	≤90.000	≤1.000
4	No provision	No provision	≤10.000
5	No provision	No provision	≤100.000

Water	
Grade	Pressure Dew Point
0	Provisions stricter than Class 1 (To be determined)
1	≤-70°C
2	≤-40°C
3	≤-20°C
4	≤3°C
5	≤7°C
6	≤10°C

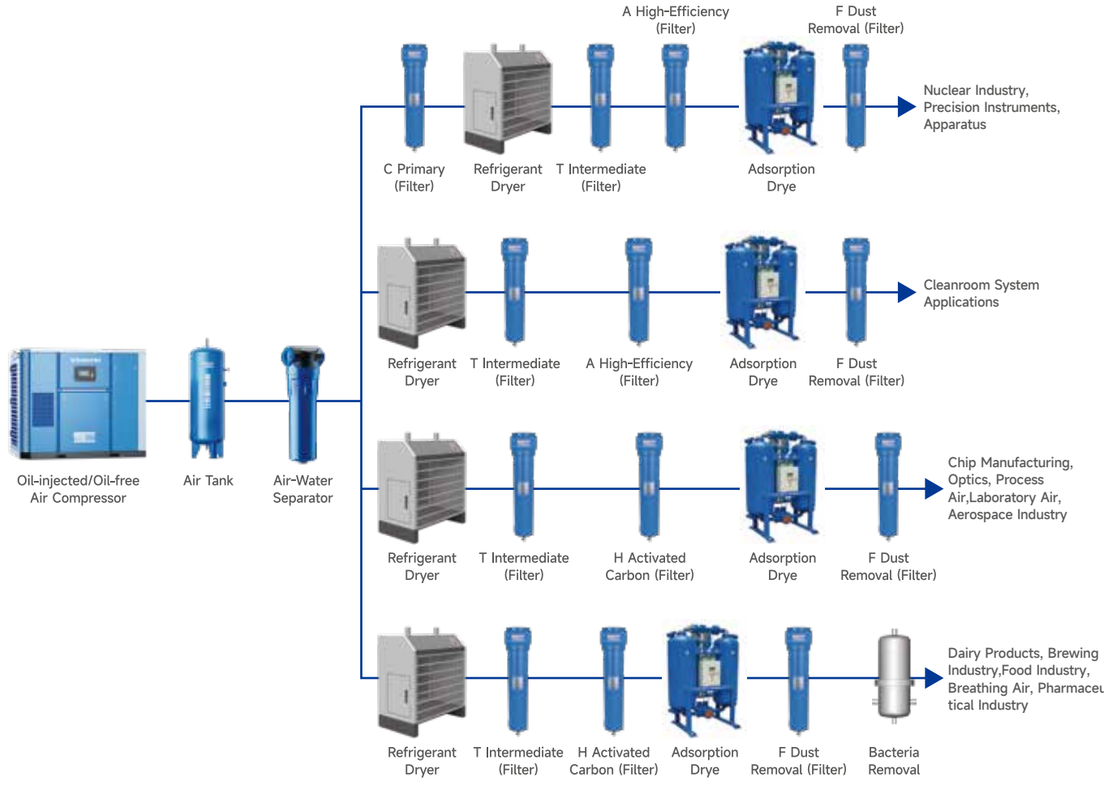
Oil	
Grade	Total Oil Content (liquid, aerosol+gas) <mg/m3>
0	Provisions stricter than Class 1 (To be determined)
1	≤0.01
2	≤0.1
3	≤1.0
4	≤5.0
X	> 5.0

Recommended Solution





Recommended Solution



Globalization Services

Powerful After - sales Service Team Guarantee for the Reliable Operation of Air Compressors

Let you truly have no worries. Service is the core value we provide for you, anytime and anywhere. This is the reason why we have established a service network in 83 countries and regions worldwide to provide prompt services.

Experienced SCR air compressor technical engineers let you enjoy fast and reliable sincere services.

SCR Original Spare Parts Guarantee for the Efficient Operation of the Air Compressor System

All SCR service engineers only use Screw air compressor original spare parts that have passed long - term quality certification.

Because only in this way can the reliability and long - term use of your air compressor be ensured. Only SCR original spare parts have high - quality certification.

24 - hour Service Hotline: 400 - 820 - 5059