







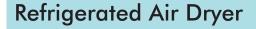
- Ontimize your
- Optimize your compressed air requirements.

- Refrigerated Air Dryer
 - Heatless Air Dryer
 - Air Receiver Tank
 - Air Filter

www.roteckcompressor.com

RD-50HF





Roteck refrigerated dryer is technology and made by high quality component to the quality standards for air compression (ISO 8373.1) THE DRYER MADE has high efficiency, reliability, environmentally, friendly energy and visual display.

HOW IT WORKS

Saturated compressed air enter the pre-cooler where it is cooled by exchange heat without going cooled air the inlet air is then reached.

When it passes back to the air to air heat exchanger and condenser supply low-temprature refrigerant to the evaporator.

Expansion device and hot gas by pass Valve match the operation of the compressed air cooling load in evaporated, heat is transferred from the compressed air into the refrigerant.

The process cools the air, reduce the capacity to hold the water vapour and regulating in moisture condensation the excess vapour condenses and is removed from the air steam by a separated and automatic drain by valve.







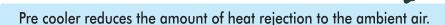
Hot Air Bypass Valve





HIgh Efficiency Cooling Technology

Features of Refrigerated Dryer.



High Evaporated cooler controls the high temp. inside the evaporator.

The Specially Designed centrifugal and collecting type dual water separator can separate water with the efficiency higher than 99%.

It is adopted the world - class components, so has high quality and long service life.

Convenient to use, fully automatic drainage, Low Operation cost, reliable and continuous run.

Low & high pressure controller for refrigerated compressor.

Low Pressure drops and steady DEW POINT.

Overload protection for electric operation.

Single Phase protection.



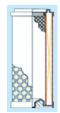
Compressed Air Filter

Roteck has developed a comprehensive range of compressed air filter to cater the requirements of different application. Roteck filters are manufacturing with latest technology and advanced filtering system.

Why required Air filter

Oil, dust, dirt and water, alone or in combination, these are enemies that attack any compressed air system, this can plug orifices of sensitive pneumatic instruments, wear out seals, erode system components, reduce efficiency of the air operated tools, damage finishing of the products, increased the rejection, lost of production time and increased maintenance cost although the best defense against oil and dust effective filtration, the fact is offen overloked until problem arise.

Filters Grade



PRE FILTERS GRADE-Q

Coalescn filtration and dust removal Air flow through filter element-out to in



FINE FILTER GRADE-S

High efficiency Particle removal down to 0.01 micron. Maximum residual oil content down to 0.01 PPM. Air flow through filter element-in to out.



AFTER FILTER GRADE-P

General purpose protection Particle removal down to 1 micron. Maximum residual oil content down to 0.5PPM Air flow through filter element-in to out.



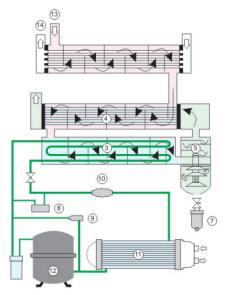
ACTIVATED CARBON FILTER GRADE-C Oil vapour and removal

Oil vapour and removal Particle removal below 0.01 micron Maximum residual oil content down to 0.005 PPM. Air flow through filter element-in to out.

Standard Specification

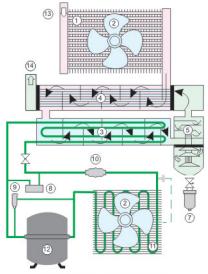
Grade	Application	Туре	Material	Filtration Rating (Micron)	Oil Content (PPM)	Max. Temp. (°C)	Pressure Drope (kg/cm²)	Max. Differation Pressure (kg/cm²)
Q-grade	Recip. Compressor	Pre-Filter	Coalescing Filter Media	5	5	65	0.2	0.7
P-grade	Screw Compressor	After-Filter	Fiber Glass	1	0.5	65	0.17	0.7
C-grade	General Air Compressor	Oil-Filter	Activated Carban	0.003	0.003	65	0.07	0.7
S-grade	High Precison. Filtration	Fine Filter	Coalescing Filter Media	0.01	0.01	65	0.27	0.7





The water-cooling flow chart

- 1. Back wind cooler
- 2. Fan Motor
- 3. Evaporator
- 4. Pre-cooler
- 5. Collecting mist separator
- 7. Drairange device



The air-cooling flow chart

- 8. High and low pressure switch
- 9. Hot gas by-pass valve
- 10. Dryer Filter
- 11. Wind cooler condenser
- 12. Refrigerant Compressor
- 13. Air in
- 14. Air out

Model	RD-10 AC	RD-20 AC	RD-30 AC	RD-50 AC	RD-60 AC	RD-75 AC	RD-100 AC	RD-125 AC	RD-150 AC	RD-200 AC	RD-300 AC	RD-350 AC	RD-400 AC
Volume m³/min	1.5	2.8	4.0	7.0	9.0	12	15	20	25	30	40	50	60
Volume CFM	52	98	141	247	318	424	529	706	882	1060	1412	1765	2118
Air Adapt	PT1	PT1	PT11//4	PT11/2	PT2	PT2	PT2	PT2	DN65	DN80	DN100	DN100	DN100
Refrigent	R22 / 407C / R134A												
Pressure Dew Point °C	2 ° C - 10 °C												
Inlet Temp. °C	5° C - 80 °C												
Inlet Pressure kg/cm²g	(7 - 10kg/cm²g)												
Power Supply	1 Ø 220V / 50 Hz							3	Ø 415V	/ 50 Hz			
Power Consumption (kwh)	0.62	0.7	1.0	1.4	2.1	2.5	3.1	3.9	4.2	5.2	8.2	10.7	14.5

^{*} Specification subject to change without notice in advance.

Heatless Compressed Air Dryer



Heatless compressed air dryer is the simplest form of desiccent type (activated alumina / molecular sieves) air dryer for achieving a dew point of 40 °C or better for compressed air systems. It is the simplest design, which is virtually fully automatic and maintenance free.

In Heatless dryers, two vessels are filled with desiccant, which cycle automatically, producing dry air continuously. In these units, wet air enters the bottom of one vessel and passes upwards through the desiccant bed where the moisture is absorbed. The dry air comes out from the top.

A small portion of dry air is passed downward to that desiccant bed in the second vessels. Which is under regeneration. Then the moisture laden purge air is vented out to atmosphere. The purge loss is around 10-15% of the total air flow.

At preset interval, the vessels changeover automatically and dry air is available continuously , without any surge the purge air requirements is around 10-15%. If (-) $400\,^{\circ}$ C. dew point is needed from heatless type Air dryer.



Salient Features :



Simple in operation and fully automatic, Maintenance free,



Pressure equalization-ensures dry supply is continues and at constant pressure.



Electronic Timer-Highly precise and Fail - safe excellent repeatability.



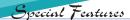
Low Dew Point - Constant atmospheric dew point of 40 °C or below.



Desiccant life is around 3 Years.

Model -	AIR FLOW	ELECTRICAL CONNECTION	Inlet / Outlet	DIMENSION (mm)				
	SCFM	LEECTRICAL CONNECTION	BSP	L	W	Н		
RH-50	50	230 V Single Phase 50 Hz	3/4"	730	450	1275		
RH-100	100	230 V Single Phase 50 Hz	1"	750	450	1895		
RH-250	250	230 V Single Phase 50 Hz	2"	1400	1000	2030		
RH-300	300	230 V Single Phase 50 Hz	21/2"	1200	1200	2400		
RH-400	400	230 V Single Phase 50 Hz	21/2"	1200	1200	2400		
RH-500	500	230 V Single Phase 50 Hz	3"	1400	1400	2400		
RH-600	600	230 V Single Phase 50 Hz	4"	1400	1400	2400		
RH-750	750	230 V Single Phase 50 Hz	4"	1500	1500	2500		
RH-1000	1000	230 V Single Phase 50 Hz	4"	1600	1600	2500		

AIR FILTER





Features

- Low pressure drop.
- High efficence filter element.
- High quality aluminium housing and carbon steel body.
- Threaded / Flanged connection for easy installation with air flow indicator.
- Painted surface with epoxy resin for long service life.
- Differential pressure indicator to inform the best time for
- element replacement.
- Avaliblity of deferent filteration grade element.
- Can be use with wide rang of accessories.

Accessories

- Differential pressure gauge
- Pipe differential indicater.
- Level indication.

- Electronic auto drain valve.
- External auto drain valve.
- Internal auto drain valve.

Parameter & Specifications

Model	Connection size	Air Flow F.A.D 40° C		Max. pressure		Dii	Filter Cartridge		
		m3/min	CFM	(bar)		А	В	С	Sartriage
RAF 015	G 1"	1	35	16	THREADED	267	243	89	1X004
RAF 035	G 1"	3.68	130	16		267	243	89	1X007
RAF 060	G 1 ½"	7.36	260	16		267	243	89	1X015
RAF 090	G 2"	9	318	16		513.5	310	109	1X024
RAF 0120	G 2"	10.5	372	16		513.5	310	109	1X035
RAF 150	G 2½"	16.2	574	16		513.5	450	109	1X060
RAF 240	G 2 1/2"	24	850	12		550	509	150	1X090
RAF 360	PN16D150	36	1271	12		928	887	150	1X120
RAF 450	PN16D150	45	1590	12		928	887	150	1X150
RAF 600	PN16D150	60	2120	12	FLANGED	1225.5	1133	275	2X120

Specifications subject to change without prior notice, due to constant improvement.



A-33/20, Site-IV Sahibabad Ind. Area, Ghaziabad (U.P.) INDIA Tel.: +91-120-2897259, 276, 304, 306. Fax: +91-0120-4134182 E-mail:sale@roteckcompressor.com - www.roteckcompressor.com