



South-Tek
Systems

SR-SERIES

REFRIGERATED AIR DRYER





South-Tek Systems provides complete air and gas solutions to power mission-critical operations. We deliver single-source solutions with unmatched support through a full product suite, powering greater control at lower costs for excellent results.

South-Tek leads the industry in nitrogen generation innovation, offering patented technology for maximum efficiency and longevity, coupled with unparalleled customer support.

Backed by over 20 years of experience, we have everything you need to power your mission, from nitrogen generators to compressors, filters and dryers.

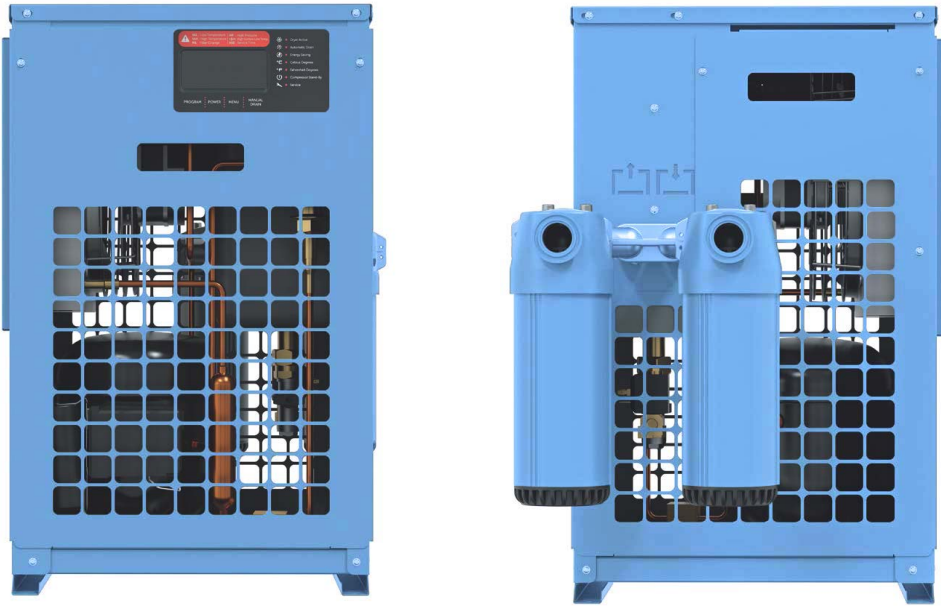
EXPERTISE
Find the right solution
for every application.

CONTROL
Take control of
your processes.

PERFORMANCE
Generate excellence,
every time.

S-SERIES REFRIGERATED AIR DRYER

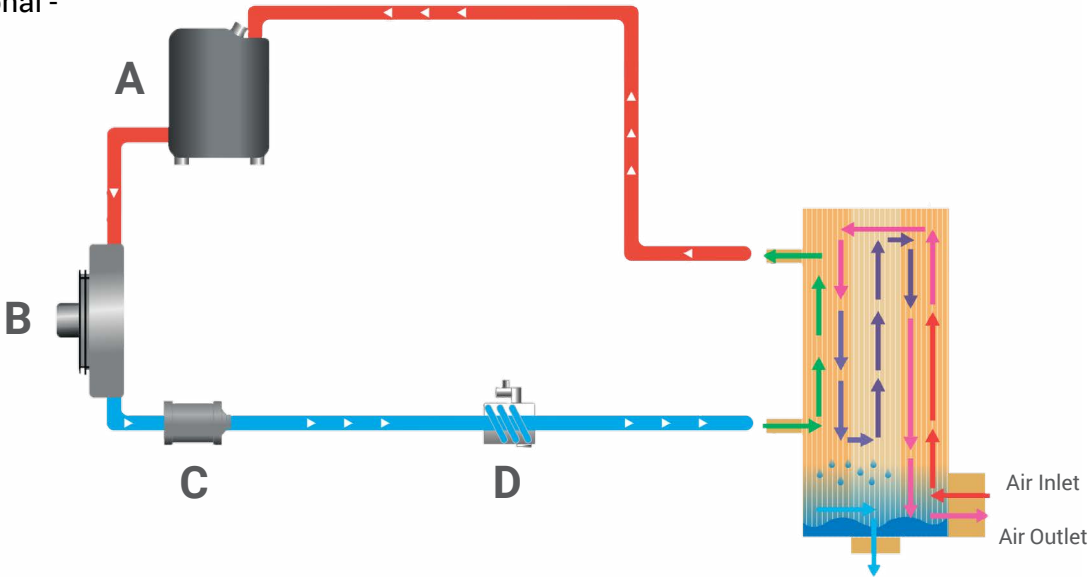
Our SR Series Dryers are engineered to provide reliable, high-performance moisture removal, ensuring clean, dry air for your nitrogen generators and compressors. Designed for efficiency and durability, our dryers help extend equipment life, reduce maintenance costs, and optimize system performance in even the most demanding environments.



HOW SOUTH-TEK DRYERS WORK

SR Series dryers use a standard refrigeration cycle to separate the water from compressed air.

- 910 cfm- 3200 cfm air flow range
- Refrigerant compressor
- Air condenser (optional - water condenser)
- Expansion valve
- Exchanger
- R513a refrigerant



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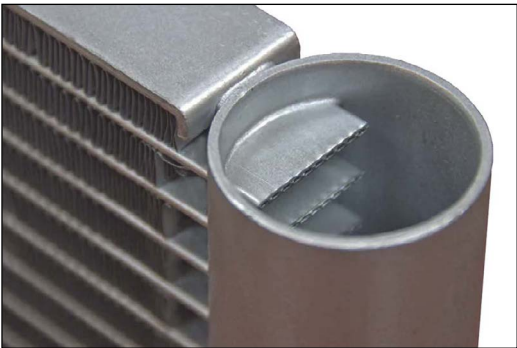
SR SERIES ADVANTAGES

Special Components:

- Piston compressor (SR 5-60)
- Scroll compressor (SR 75-470)
- Microchannel condenser
- Temperature-driven fan
- High temperature critical alarm
- Digital controller (digi-pro)
- 3-in-1 exchanger (air-air / air-gas / water separator)
- Aluminium bar-plate exchanger (SR 75-470)
- Hermetic system (closed to atmosphere)
- Special filter kits for filter installation (SR 5-60)
- Time-driven drain (optional - electronic)
- Zero-loss drain
- Condenser debris filter
- Private label color options
- Hot gas bypass valve (SR 110-470)

MICROCHANNEL CONDENSER

Industry-leading new condenser technology offers better efficiency and high performance.



DIGITAL CONTROLLER (DIGI-PRO)



ELECTRONIC ZERO-LOSS DRAIN

Optional zero-loss drain alternative available.

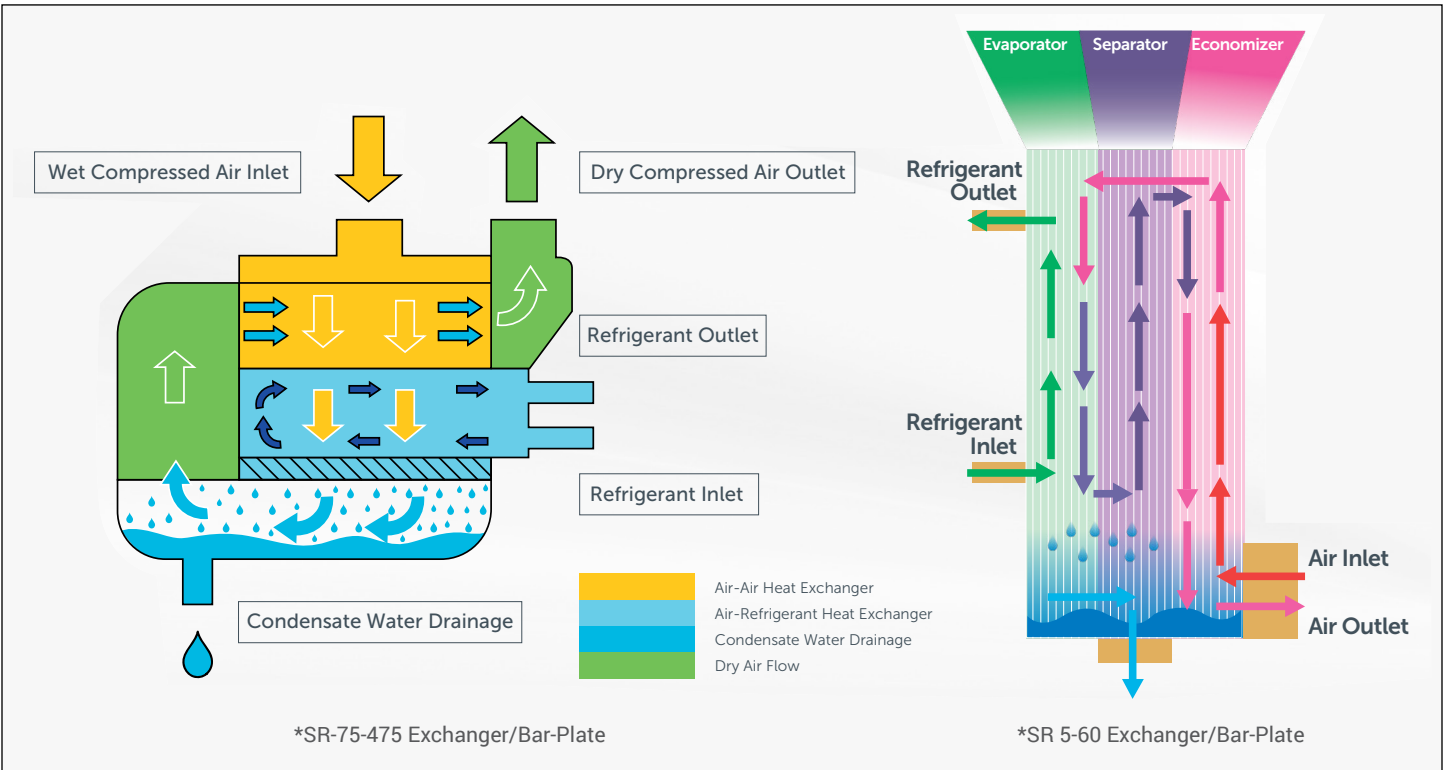


HERMETIC SYSTEM

The refrigeration side is a closed, welding connection only system.

S-SERIES REFRIGERATED AIR DRYER

3-IN-1 AIR EXCHANGER



FILTER KITS

SR 5-60 models integrated filter kits connect via manifold.



Refrigerant	GWP
R404a	3922
R407c	1744
R134a	1430
R513a	631



- Low GWP (Global Warming Potential) value.
- Zero ODP (Ozone Depletion Potential) value.
- Non-flammable
- Thermodynamic properties are suitable for harsh environment conditions.

S-SERIES REFRIGERATED AIR DRYER

Model	Capacity (cfm)	Voltages	Unit Size	Filter Air Connection Size**	Filter Type	Element Types	Pressure Drop (psi)*	Length (inch)	Width (inch)	Height (inch)
SR-5	5	115V / 1Ph / 60Hz	G3/4"	1/2" NPT	S-40 1 & 01	ES-40 1 & 01	0,6	10	12	20
SR-10	10	115V / 1Ph / 60Hz	G3/4"	1/2" NPT	S-40 1 & 01	ES-40 1 & 01	2,0	10	12	20
SR-15	15	115V / 1Ph / 60Hz	G3/4"	1/2" NPT	S-40 1 & 01	ES-40 1 & 01	4,1	10	12	20
SR-25	25	115V / 1Ph / 60Hz	G3/4"	1/2" NPT	S-75 1 & 01	ES-75 1 & 01	3,0	13	13	21
SR-35	35	115V / 1Ph / 60Hz	G3/4"	1/2" NPT	S-75 1 & 01	ES-75 1 & 01	2,8	13	13	21
SR-50	50	115V / 1Ph / 60Hz	G3/4"	3/4" NPT	S-130 1 & 01	ES-130 1 & 01	3,0	13	13	21
SR-60	60	115V / 1Ph / 60Hz	G3/4"	3/4" NPT	S-130 1 & 01	ES-130 1 & 01	3,6	13	13	21
SR-75	75	115V / 1Ph / 60Hz	1" NPT	N/A	S-235 1 & 01	ES-235 1 & 01	2,9	16	15	23
SR-90	90	115V / 1Ph / 60Hz	1" NPT	N/A	S-235 1 & 01	ES-235 1 & 01	4,1	16	13	23
SR-110	110	115V / 1Ph / 60Hz	1 1/2" NPT	N/A	S-295 1 & 01	ES-295 1 & 01	3,0	18	21	35
SR-145	145	115V / 1Ph / 60Hz	1 1/2" NPT	N/A	S-295 1 & 01	ES-295 1 & 01	5,8	18	21	35
SR-200	200	230V / 1Ph / 60Hz	1 1/2" NPT	N/A	S-470 1 & 01	ES-470 1 & 01	5,2	18	21	35
SR-260	260	230V / 1Ph / 60Hz	1 1/2" NPT	N/A	S-590 1 & 01	ES-590 1 & 01	5,8	18	21	31
SR-330	330	230V / 1Ph / 60Hz	2" NPT	N/A	S-800 1 & 01	ES-800 1 & 01	3,3	21	24	33
SR-405	405	230V / 1Ph / 60Hz	2" NPT	N/A	S-1000 1 & 01	ES-1000 1 & 01	5,2	21	26	37
SR-470	470	230V / 1Ph / 60Hz	2" NPT	N/A	S-1000 1 & 01	ES-1000 1 & 01	5,7	21	26	37

*Pressure drops according to the referred capacity values.
**Filter kit and filter inlet/outlet dimensions included.

Correction Factors

Nominal Working Pressure	100 psig
Maximum Working Pressure (SR 5-15)	203 psig
Maximum Working Pressure (SR 2-0470)	232 psig
Minimum Working Pressure	58 barg
Nominal Inlet Temperature	100°F
Maximum Inlet Temperature	140°F
Minimum Inlet Temperature	41°F
Nominal Ambient Temperature	77°F
Maximum Ambient Temperature	122°F
Minimum Ambient Temperature	41°F
Refrigerant (Standard)	R134a
Refrigerant (Optional)	R513a

Inlet Temperature (°F)	F1	Ambient Temperature (°F)	F2	Pressure (psig)	F3
85	1.2	60	1.12	50	0.75
90	1.14	80	1.08	60	0.77
95	1.08	90	1.06	75	0.85
100	1	100	1	100	1
110	0.75	105	0.96	115	1.06
120	0.6	110	0.9	125	1.1
130	0.5	115	0.8	150	1.16
140	0.45	120	0.65	175	1.25
150	0.35			200	1.3

Example to guide correct dryer selection: If a compressor delivers 20 cfm at 75 psi, the dryer inlet temperature is 110 °F, and ambient temperature is 105 °F, please calculate your need as follows: 20 / 0.85 / 0.75 / 0.96 = 33 cfm.
The correct dryer for this application is SR-US 35.



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