TRYCOMP Heavy Duty

INDUSTRIAL COMPRESSED AIR & GAS SOLUTIONS

MADE IN ITALY

A PROUD TURKISH BRAND

REFRIDGE AIR DRYER SD SERIES

TRD-2025/V03

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WHY SD?

The TRYCOMP SD Series has been developed through close technical collaboration with FruilAir Italy, combining European engineering precision with TRYCOMP's a proud Turkish brand technology to create a new generation of high-efficiency, cost-effective air dryers.

These dryers are built to last, engineered to perform efficiently even under extreme conditions (up to 45°C ambient and 55°C inlet temperature) while maintaining a tight and stable dew point.

All TRYCOMP SD models are eco-friendly, fully equipped as standard, and designed for easy maintenance and long service life.

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TECHNICAL ADVANTAGES

Integrated All-in-One Heat Exchanger

The SD Series features a compact, integrated heat exchanger that combines Air-to-Air (Economizer),
Air-to-Refrigerant (Evaporator), and Demister Separator & Piping in a single assembly.
Its full counter-flow design ensures excellent thermal efficiency, consistent dew point, and minimal
pressure loss.
Large air-to-air sections and top air connections make installation simple and efficient.

Compressor Technology Optimized by Model Range

Each SD model is equipped with the most suitable compressor type for its capacity range:

- SD 4–30: Reciprocating compressor — proven reliability and long service life
- SD 40–240: Rotary compressor — high efficiency and low energy demand
- SD 320–880: Scroll compressor — low noise, low vibration, simplified piping, and built-in reverse phase protection

Eco-Friendly Refrigerants

Environmentally responsible refrigerants R407C and R134a are used across the SD Series. Both have Ozone Depletion Potential (ODP) = 0 and deliver excellent performance in full compliance with
current EU environmental standards.

Condensers for Every Condition

- SD 4–9: Static carbon steel condenser without fan — lower energy use, fewer wearing parts
, and minimal maintenance.
- SD 12–130: Copper tube and aluminium fin condenser — high cooling capacity and proven reliability.
- SD 180–880: Microchannel aluminium condenser — higher efficiency, lower refrigerant charge, and removable air filter for easy cleaning.

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INTELLIGENT CONTROL SYSTEM

Smart Hot-Gas Bypass and Condensing Control

The automatic hot-gas bypass valve prevents evaporator freezing during no-load or partial-load conditions and maintains constant heat exchanger temperature. Condensing control is achieved via precision sensors:

- Dry Smart (SD 4–9): LED dew point display and basic alarms
- Dry Plus (SD 12–80): Temperature-based fan control with RS485 connection
- Dry Pro (SD 100–880): Pressure-based fan control with advanced diagnostics

Advanced Electronic Controller

- LED bar dew point indication
- Adjustable high and low dew point alarms
- Working hours counter and sensor fault alarms
- Adjustable condensate drain ON/OFF timing and manual test button
- Zero-loss drain (optional) and RS485 communication port for remote monitoring

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COMPACT SERIES

- 100% INSPECTION
- Quality control on incoming material
- Air circuit strength & leak test
- Refrigerant circuit strength & helium leak test (allowed max 1 g/year)
- Electronic vacuum measurement
- High accuracy automatic refrigerant charging equipment
- Electrical test according to EN 60204
- Final functional test including:
- Hot gas by pass valve setting
- Pressure switch setting
- Dew point temperature check
- Drainer proper functioning check
- Final leak test with refrigerant electronic sniffer
- Brazed joint protection
- All assembly & test step are recorded on QCP.

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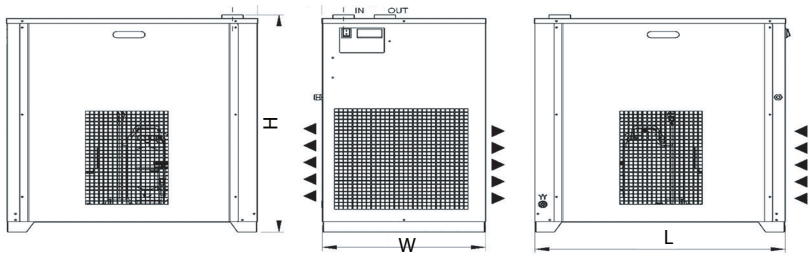

MODEL	CAPACITY		CONNECTION	POWER	MAX. PRESSURE	GAS	Weight	Dimensions
	Lit/min	M3/h			BAR		(kg)	H*W*L
SD 4	400	24	G ½"	1/230/50	16	R 134 a	17	439*331*423
SD 9	900	54	G ½"	1/230/50	16	R 134 a	19	439*331*423
SD 12	1200	72	G 1"	1/230/50	16	R 134 a	37	497*351*450
SD 18	1800	108	G 1"	1/230/50	16	R 134 a	37	497*351*450
SD 23	2300	138	G 1"	1/230/50	16	R 134 a	40	497*351*450
SD 30	3000	180	G 1"	1/230/50	16	R 134 a	52	554*451*594
SD 40	4200	252	G 1 1/2"	1/230/50	16	R 407 c	60	559*451*594
SD 60	6000	360	G 1 1/2"	1/230/50	16	R 407 c	85	871*512*784
SD 80	8100	486	G 1 1/2"	1/230/50	16	R 407 c	95	872*512*784
SD 100	10500	630	G 1 1/2"	1/230/50	16	R 407 c	97	872*512*784
SD 130	13000	780	G 2"	1/230/50	16	R 407 c	118	876*512*784
SD 180	18000	1080	G 2"	1/230/50	16	R 407 c	164	1077*688*908
SD 210	21000	1260	G 2 1/2"	1/230/50	16	R 407 c	189	1077*688*908
SD 240	24000	1440	G 2 1/2"	3/400/50	16	R 407 c	198	1077*688*908
SD 320	32000	1920	FLANGE DN 80	3/400/50	16	R 407 c	279	1168*740*1176
SD 440	44000	2640	FLANGE DN 80	3/400/50	16	R 407 c	295	1168*740*1176
SD 640	64000	3840	FLANGE DN 100	3/400/50	16	R 407 c	439	1728*876*1588
SD 880	88000	5280	FLANGE DN 100	3/400/50	16	R 407 c	487	1728*876*1588

Correction factor for operating pressure changes:									
Inlet air pressure [barg]	4	5	6	7	8	10	12	14	16
Correction factor	0.77	0.86	0.93	1.00	1.05	1.14	1.21	1.27	1.33

Correction factor for ambient temperature changes:					
Ambient temperature [°C]	≤ 25	30	35	40	45
Correction factor	1.00	0.95	0.88	0.79	0.68

Correction factor for inlet air temperature changes:						
Air temperature [°C]	≤ 30	35	40	45	50	55
Correction factor	1.11	1.00	0.81	0.67	0.55	0.45

Correction factor for outlet air dew point changes:				
Dew Point [°C]	3	5	7	10
Correction factor	1.00	1.09	1.19	1.37

Subject to technical modification without notice. Errors not excluded. Software Version: 1.5_01-2021

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Your vision is our commitment.

Reach out to us today, to explore the great possibilities.

A brand by ARNIKA COMPANY

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