

Refrigeration Compressed Air Dryer



Eliminate moisture. Elevate performance



Dry compressed air
improves your product
reliability



Extends equipment or
tool life



Supports uninterrupted
production

Features that drive performance

- High efficiency 3 in 1 heat exchanger
- Advanced featured smart controller
- Consistent dew point temperature
- Low power consumption
- Less maintenance
- Single-phase plug and play
- Compact design

Standards compliance

- The dryer is designed to operate under nominal standard inlet conditions as per ISO 7183 – 2007 (option B)
- Dryer air quality: ISO 8573-1:2010 (E), Class 5

Specification

Maximum operating pressure: 13 bar (g)

Working pressure: 7 bar (g)

Pressure drop: < 0.3 bar (d)

Refrigerant:

COLDSPELL+ 20 to 150: R134a

COLDSPELL+ 200 to 500: R407c

Electrical supply: 230 VAC - 50 HZ - 1 PH

Trident smart digital controller

- Capacitive touch buttons
- Digital dew point temperature
- Fan & Compressor run status
- Compressor delay time
- Condensate drain ON indication
- Probe failure indication



Model	Item code	Inlet capacity	Power consumption	End connection	Dimensions		
		scfm	KW		L	W	H
					mm	mm	mm
COLDSPELL+ 20	8059240933	20	0.19	G 3/4"	530	385	590
COLDSPELL+ 40	8059240934	40	0.19	G 3/4"			
COLDSPELL+ 60	8059240935	60	0.33	G 1 1/2"			
COLDSPELL+ 80	8059240936	80	0.53	G 1 1/2"			
COLDSPELL+ 100	8059240937	100	0.72	G 1 1/2"			
COLDSPELL+ 150	8059240938	150	0.80	G 1 1/2"	665	490	710
COLDSPELL+ 200	8059240939	200	0.82	G 2"			
COLDSPELL+ 250	8059240940	250	0.97	G 2"			
COLDSPELL+ 300	8059240941	300	1.11	G 2"			
COLDSPELL+ 400	8059240942	400	1.47	G 2 1/2"	935	820	865
COLDSPELL+ 500	8059240943	500	1.86	G 2 1/2"			

How to order

Requirement:

Inlet Flow	100 scfm
Working pressure	5 bar
Inlet temperature	45°C
Ambient temperature	38°C

Referring tables:

Factor Pi	0.84
Factor Ti	0.75
Factor Ta	1

Dryer capacity required:

Flow	=	100
Pi x Ti x Ta	=	0.84 x 0.75 x 1
	=	158 scfm

Choose the nearest higher model: **COLDSPELL+ 150**

Correction factor

Air inlet temperature °C	30	38	45	50	55	60
Correction factor (Ti)	1.3	1.0	0.75	0.65	0.5	0.4

Ambient temperature °C	25	30	38	43	45	50
Correction factor (Ta)	1.36	1.18	1.0	0.86	0.80	0.70

Inlet pressure (bar)	3	5	7	9	12
Correction factor (Pi)	0.6	0.84	1.0	1.11	1.21

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