

TL Series

Low Dewpoint Heatless Desiccant Air Dryers



Special applications in industries such as Pharmaceutical, Food & Drug and Microchip Manufacturing require the ultimate in dry air. Parker Airtek's TL Series Heatless Dryer is designed for just such applications, providing -100°F (-70°C) pressure dewpoint As a standard. Being specifically designed for such applications, the TL Series dryers are constructed using generously over-Sized desiccant beds which substantially increases the contact time with the compressed air. This assures a consistent, deep dewpoint for your most critical processes.

Combine that with independent switching valves rated in millions of cycles and you will truly appreciate the many years of dependable trouble free service you get with the TL Series critical application dryer.

Applications:

- **Pharmaceutical**
- **Food & Drug**
- **Microchip Manufacturing**



Standard Equipment

- Master Control Panel with Sequence Annunciator
- CycleLoc™ Dryer Can Shut Off and On with Air Compressor
- Surge Protection for Centrifugal Compressors
- Non-Lubricated Valves
- Purge Flow Indicator
- Control Air Filter
- NEMA 4 Electrical
- CSA/UL Listed Control Panel
- ASME Pressure Vessels (TL100 - TL320)
- Stainless Steel Diffuser Screens
- Separate Tower Pressure Gauges
- Filter Packages*
- NEMA 7 Classifications*
- PowerLoc™ with Dewpoint Monitor*
- Switch Failure Alarm*
- Low Ambient Package*

*Optional

Engineering Data Specifications

Model	Capacity (scfm) @ 100 psi g (Nm ³ /min @ 7 bar g)	Air Connections In/Out
TL15	15 (.42)	3/8" NPT
TL25	25 (.71)	1/2" NPT
TL40	40 (1.13)	1/2" NPT
TL60	60 (1.70)	3/4" NPT
TL80	80 (2.26)	3/4" NPT
TL100	100 (2.83)	1" NPT
TL160	160 (4.53)	1" NPT
TL225	225 (6.37)	1 1/2" NPT
TL320	320 (9.06)	1 1/2" NPT

Correction Factors

Inlet Air Pressure

psi g	50	60	70	80	90	100	110	120	130	140	150
bar g	3.5	4.1	4.9	5.5	6.2	6.9	7.6	8.3	9.0	9.7	10.3
CF	.56	.65	.74	.83	.91	1	1.09	1.18	1.27	1.37	1.43

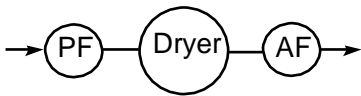
Temperature

°F	90	95	100	105	110	115	120
°C	32	35	38	41	43	46	49
CF	1.35	1.16	1	0.85	0.74	0.64	0.56

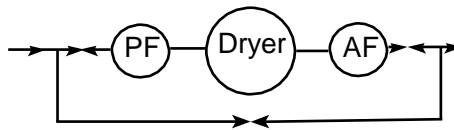
Max. Inlet Temperature	120°F (49°C)
Min. Inlet Temperature	50°F (10°C)
Max. Working Pressure	150 psi g (10.3 bar g)
Min. Working Pressure	80 psi g (5.5 bar g)

Dewpoint	-100°F (-70°C)
ISO Quality Class	8573.1 Class 1.2.1
Standard Electronics	120V/1Ph/60Hz
Controls	Solid State Board

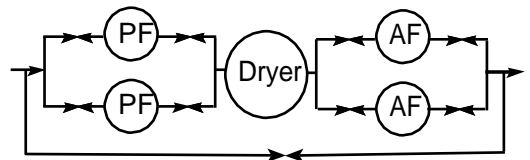
Package Schematic



Package "E"
Includes dryer with factory installed pre-filter and after-filter



Package "EB"
Includes dryer with factory installed pre-filter and after-filter with system bypass



Package "ED"
Includes dryer with factory installed Dual selectable pre and after-filters with system bypass