

# TS Dryer

Refrigerated Air Dryer  
50HZ



The TS refrigerated air dryer offers:

## Reliability and Performance

- Consistently delivers dry process air with minimal pressure drop
- 3-in-1 Heat exchanger integrates the pre-cooler and re-heater, heat exchanger and air/water separation to reduce the opportunity for leaks
- High inlet temperatures to 140°F/ 60°C will be accepted with no nuisance shutdowns
- Electrostatic-charged panel filter included on all models for increased package performance

## Productivity

- Refrigeration Expansion valve offers more precise control under varying heat loads from the compressed air and varying ambient temperatures resulting in less risk of product spoilage through dewpoint slippage
- Optimised connection sizes to minimise pressure drop
- Intellisys™ microprocessor indicates component warnings and if preventative maintenance is needed

- Power Out Restart Operation (PORO) improves productivity

## Energy Efficiency

- “Smart” drain recognises ambient conditions to adjust dwell time and minimise the loss of valuable compressed air
- Energy Saving Efficiency Option to cycle refrigeration compressor is standard

## Health, Safety and the Environment

- Design uses environmentally friendly R404A
- Less refrigerant is needed with MicroChannel condenser design



# TS Dryer

## Refrigerated Air Dryers 50HZ

Model	Flow		Max Input Power (kW)	DeltaP@ 7 barg	Air In/Out	Weight		Dimensions (in/mm)					
	scfm	m <sup>3</sup> /min.				Lbs	Kg	L		W		H	
TS1A-50	318	9.0	2.3	0.16	1.5" BSP	456	207	33.5	850	26.6	676	55.1	1400
TS2A-50	494	14.0	2.5	0.19	2" BSP	497	226	39.0	990	31.5	800	55.1	1400
TS3A-50	558	15.8	3.4	0.23	2" BSP	505	230	39.0	990	31.5	800	55.1	1400
TS4A-50	675	19.1	4.1	0.28	2" BSP	505	230	39.0	990	31.5	800	55.1	1400
TS5A-50	826	23.4	4.5	0.15	3" BSP	944	429	57.4	1225	42.1	1070	61.7	1570
TS6A-50	985	27.9	4.8	0.25	3" BSP	944	429	57.4	1225	42.1	1070	61.7	1570
TS7A-50	1112	31.5	6.4	0.23	4" Flg	1078	490	64.7	1644	42.1	1070	65.7	1667
TS8A-50	1639	46.4	7.9	0.23	4" Flg	1110	505	64.7	1644	42.1	1070	65.7	1667
TS9A-50	1798	50.9	8.4	0.30	4" Flg	1308	595	84.6	2149	42.1	1070	65.7	1670
TS10A-50	2200	62.3	11.0	0.22	6" Flg	1628	740	82.4	2093	42.1	1070	72.3	1836
TS11A-50	2521	71.4	12.6	0.22	6" Flg	1628	740	82.4	2093	42.1	1070	70.7	1797
TS12A-50	2846	80.6	16.0	0.21	6" Flg	1729	786	82.4	2093	42.1	1070	72.3	1836

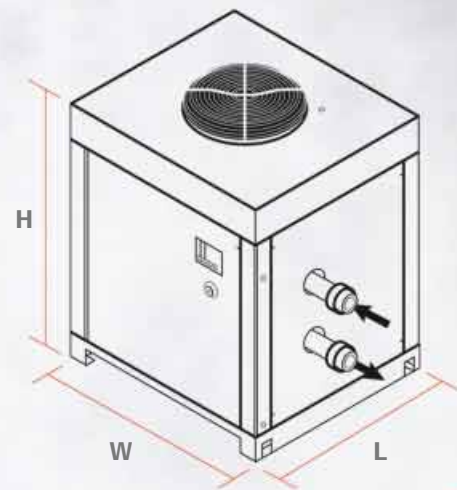
Reference conditions @ 25°C ambient, 35°C inlet, 7 barg

### Dryer Capacity m<sup>3</sup>/min

Model	25°C Ambient, 35°C Inlet			46°C Ambient, 60°C Inlet		
	7 barg	8.5 barg	10 barg	7 barg	8.5 barg	10 barg
TS1A-50	9.0	9.4	9.6	3.5	3.8	4.0
TS2A-50	14.0	14.5	14.9	3.8	4.1	4.3
TS3A-50	15.8	16.4	16.9	5.1	5.5	5.8
TS4A-50	19.1	19.8	20.4	6.9	7.3	7.8
TS5A-50	23.4	24.3	25.0	6.9	7.4	7.9
TS6A-50	27.9	29.0	29.8	9.3	9.9	10.5
TS7A-50	31.5	32.7	33.6	9.5	10.2	10.5
TS8A-50	46.4	48.2	49.6	12.7	13.7	14.4
TS9A-50	50.9	52.8	54.4	12.6	13.5	14.4
TS10A-50	62.3	64.6	66.5	20.4	21.9	23.1
TS11A-50	71.4	74.1	76.3	23.0	24.7	26.1
TS12A-50	80.6	83.6	86.0	25.6	27.5	29.0

### Operating Limitations

Maximum Pressure	10 barg
Maximum Inlet Temp	60°C
Maximum Ambient	46°C
Minimum Ambient	2°C



### Electrical Supply

TS 1A-50	230v-1ph-50hz
TS 2A-50	230v-1ph-50hz or 400v-3ph-50hz
TS3A-50 to TS12A-50	400v-3ph-50hz



### Air Solutions

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