



TS

REFRIGERATED AIR DRYER

Ref.
Date
Cancels

Point of Manufacture – Davidson NC

Engineering Data

TS-100

PERFORMANCE DATA			
Pressure Dewpoint (°F) / (°C)		37.4 /	3.0
Airflow Capacity (ft³/min) / (Nm³/hr) ***		100.00 /	158.3
Air pressure drop (psi) / (bar)		1.89 /	0.13
Air Temperature at Dryer outlet (°F) / (°C)		82.13 /	27.8
Vapour content at dryer outlet (lb/hr) / (gr / Nm3)		0.005 /	0.78
Total condensed moisture (lb / hr) / (gr / hr)		2.0 /	926.1
REFERENCE DATA			
Working pressure (psig) / (barg)		100 /	7
Maximum Operating Pressure (psig) / (barg)		175 /	12.065828
Sound Level (dBA) (1m free field) *		55	
Inlet Air Temperature (°F) / (°C)		95 /	35
Vapour content at dryer inlet (lb / hr) / (gr / Nm3)		0.044 /	6.63
COOLING DATA			
Ambient Temp (°F) / (°C) (Air cooled only)		77 /	25
Condenser Airflow (cfm) / (m³/h)		765 /	1300
Waterflow (gpm) / (m³/hr) (Water-cooled only)		-- /	--
Water pressure drop (psi) / (bar) (Water-cooled Only)		-- /	--
condenser water Inlet temperature (°F) / (°C) (Water-cooled Only)		-- /	#VALUE!
ELECTRICAL DATA			
Electrical Supply (+/- 10%) AC		115V - 1ph - 60Hz	
Compressor Adsorbed power (kW)		0.73	
Total power Adsorbed (kW)		0.97	
Fan Size (kW)		0.125	
L.R.A.Current (Amps)		32.2	
F.L.A.Current (Amps)		10.1	
Total Installed Power (kW)		0.97	
<p>1) All models listed are air-cooled. Models TS700 - TS3000 are also available water-cooled.</p> <p>2)*** Capacity ratings, in accordance with recommended Standard NFPA/T3.27.2-1981 (ANSI B93.45M) and CAGI Standard No. ADF100 for a 33°F - 39°F pressure dewpoint, are based on 100 , SCFM @ 68°F psig inlet air pressure, 100°F inlet air temperature, 100% inlet relative humidity, 100°F ambient air temperature and 5 psi maximum pressure drop.</p> <p>3) Input power requirement shown is for an air-cooled unit. The total input kW shown includes the refrigeration compressor, refrigerant condenser fan, and controls.</p> <p>4) Shipping weight is approximate.</p> <p>5) All data is subject to change without notice</p>			
Operating limits: Max / Min Ambient conditions (°F): 113 / 41 ; Max / Min Air Inlet Temperature (°F): 122 / 41			