

## TECHNICAL SPECS DATA SHEET

Drytec America Model Name	SDH US 50
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### General Data

Type of Cooling	Air Cooled	
Condenser Air Flow (m <sup>3</sup> /h) / (cfm)	1580	929
Heat Rejection Capacity Max. @45°C / 113°F (W)	2169	
Fan Size (mm) / (inch)	Ø 254	Ø 10
Number of Condenser Fans	2	
Refrigerant Type	R134a	
Refrigerant Quantity (kg) / (lbs)	0.4	0.9
Compressor Type	Reciprocating	
Capacity Control (Cycling or Non-Cycling)	Non-Cycling	
Expansion System	Thermostatic Expansion Valve	
Air to Cooler Heat Exchanger Type (Aftercooler)	Aluminum Plate	
Number of Heat Exchangers	1	
Suction Line Accumulator Size (lt)	N/A	
Liquid Receiver Size (lt)	N/A	
Drain Type	Solenoid Valve	
Drain Control Type	Electronic Controller	
Noise Level (db)	< 70	
Filter Allocation and Type	Integrated - G100WS Water Separator	

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### Boundary Conditions

Max Rated Air Flow 82°C / 180°F Inlet, 12 Barg / 175 psig, 38°C / 100°F Ambient Temperature (Nm <sup>3</sup> /h) / (scfm)	85	50
Relative Humidity (%)	100	
Max. Ambient Temperature (°C) / (°F)	49	120
Min. Ambient Temperature (°C) / (°F)	4	39
Max. Inlet Temperature (°C) / (°F)	115	240
Max. Working Pressure (barg) / (psig)	16	230

### Performance Data

Humidity and Liquid Water Class	ISO8573.1 Class 6 (dew point ≤10°C / 50°F)	
Pressure drop (mbar) / (psi)	120	1.7
At 38°C / 100°F inlet, Air Temp. at Dryer Outlet (°C) / (°F)	28 - 33	82 - 91

### Electrical Data

Voltage(Volt/Phase/Hz)	115V / 1 / 60 Hz	
Total Installed Power (kW) **	1.0	
Nominal Operating Ampcity (A) **	10.8	
Min. Circuit Ampcity - MCA (A)	13.4	
Locked Rotor Amper - LRA (A)	46	
Controller Type	DigiPro	
Electrical Protection Class according IEC	IP 54	
Fuse (A)	15 (will be provided by the user.)	

### Size / Dimensions / Weight Data

Length (mm) / (inch)	448	17.6
Width (mm) / (inch)	448	17.6
Height (mm) / (inch)	957	37.7
Weight (kg) / (lbs)	65	143.3

### Piping Connections

Connection Size	3/4" NPT	
Drain Connection Size	3/8" NPT	

\*\*Average power consumption (kW, A) is based on 3°C / 37°F evaporation, 45°C / 113°F condensation temperature.

# DRYTEC AMERICA

Taking Air Treatment to New Heights