TECHNICAL CHARACTERISTICS

TECHNICAL FEATURES OF TSUNAMI SERIES DRYERS

RSD SERIES	UNITS	15	20	35	50	51	75	100	150	175	220	300
Air flow rate	CFM	15	20	35	50	60	75	100	150	175	220	300
	m^3/h	25	34	59	85	102	127	170	254	297	374	510
Power consumptions	kW	0.18	0.18	0.23	0.23	0.34	0.34	0.61	0.82	0.82	1.04	1.38
Full load consumptions	kW	0.39	0.39	0.44	0.44	0.55	0.55	0.82	1.00	1.00	1.23	1.64
Nominal current	A	1.77	1.77	2.10	2.10	3.00	3.00	6.80	7.38	7.38	3.85	6.40
Full load current	A	2.47	2.47	2.80	2.80	3.70	3.70	7.50	8.91	8.91	4.59	7.63
Locked rotor current	A	8.50	8.50	10	10	12	12	16	42	42	30	40
Power supply	V/ph/ Hz	115/1/60									230/1/60	
Air connection IN/OUT	NPTF	3/4"					1"				1 1/2"	
Refrigerant type		R134a									R407c	
Charge	lbs	0.66	0.66	0.88	1.10	1.10	1.21	1.32	1.54	2.65	3.31	3.97
Maximum inlet air temperature	°F	130										
Maximum ambient temperature	°F	115										
Maximum inlet air pressure	psi	232										
Fan motor working pressure	psi	Start 159/Stop 116									Start 290/Stop 232	
Sound level	dB	<70										

CORRECTION FACTORS

Correction Factor for Inlet Air Pressure Changes								
Inlet Air Pressure (PSI)	58.0	72.5	87.0	101.5	116.0	145.0	174.0	203.1
Correction Factor	0.77	0.86	0.93	1	1.05	1.14	1.21	1.27

Correction Factor for Inlet Air Temperature Changes							
Inlet Air Temperature (°F)	77	86	95	104	113	122	131
Correction Factor	1.2	1.11	1	0.81	0.67	0.55	0.45

Correction Factor for Ambient Temperature Changes					
Ambient Temperature (°F)	77	86	95	104	113
Correction Factor	1	0.95	0.88	0.72	0.68

Correction Factor for Outlet Dew Point Changes				
Outlet Dew Point (°F)	37.4	41	44.6	50
Correction Factor	0.91	1	1.11	1.26

Use dryer correction factors to calculate the inlet air flow rating with specific inlet conditions to maintain the outlet conditions from the refrigerated dryer.
To calculate the maximum inlet air flow for a specific application, multiply the listed maximum air flow of the dryer by the correction factors for inlet air pressure, inlet air temperature, ambient temperature, and the desired outlet dew point.

Example:

	Condition	Correction Factor
RSD-050 Max. Inlet Air Flow	50 CFM	
Inlet Air Pressure	174 PSI	1.21
Inler Air Temperature	77°F	1.20
Ambient Temperature	95°F	0.88
Outlet Dew Point	34.4°F	0.91
Multiply	50 x 1.21 x 1.20 x 0.88 x 0.91	
Corrected Dryer Max. Inlet Air Flow	58.14 CFM	