

ENVIROPRO™ PACKAGED DX AIR HANDLER

MODEL: SRTU



The Surna Packaged DX Air Handler (SRTU) is an ideal air handling unit that can be mounted outside of the facility, either on the ground or on the roof. Every unit is thoroughly inspected and tested prior to shipping to prevent potential problems during startup. The unit contains side panels that provide easy access to fans, motors and filters. The up to 7-rows of cooling coils and integral hot gas reheat allow for optimal compressor efficiencies, full conditioning of grow room air, and moisture control. The unit's staggered coil design reduces supply air bypass.

The refrigerant circuit is routed through the airstream twice—once to remove BTU's (heat and humidity) from the air, and then to replace the heat back into the airstream to make dehumidification operations temperature neutral. Variable speed components allow the SRTU to adjust its heating and cooling capacity to match the required load. This provides a consistent temperature throughout the space and avoids large temperature swings often associated with single stage equipment.

The SRTU offers up to three layers of grow room air filtration and a double-wall galvanized steel construction that insulates the interior components. Corrosion resistant heavy gauge G-90 galvanized steel enables this equipment to stand up to the elements. Integrated controls allow the SRTU to maximize energy efficiency. These controls are fully insulated to reduce condensation and avoid damage. The web enabled user-friendly interface allows for simple programming of temperature, humidity, and even scheduling. This gives access to real time temperatures and humidity data as well as refrigerant temperatures and pressure measurements. The insulated drain pan allows for easy maintenance and serviceability.

The SRTU is available in eleven different sizes. An extended 10-year non-prorated parts warranty is available at no extra charge when units are remotely monitored and maintained through an available Surna supplied Preventative Maintenance subscription.

FEATURES AND BENEFITS

Packaged

Hot gas reheat units provide both cooling and dehumidification, eliminating the need for standalone dehumidification units in the space, and their associated additional electrical service at the main electrical panel.

Economic

For growers on a tight budget, the SRTU is a relatively low-priced option for meeting the unique cooling, heating, and dehumidification needs of controlled environment agriculture.

Short Lead Times

This unit can be produced within 4-6 weeks, half the time of most mechanical systems.

SPECIFICATIONS

Model		5	6	7.5	8	10	12.5	
Performance Data	Minimum Airflow	CFM (m ³ /h)	400 (679.6)	500 (849.5)	750 (1274.3)	800 (1359.2)	1000 (1699)	1250 (2123.8)
	Maximum Airflow		2000 (3398)	2400 (4077.6)	3000 (5097)	3200 (5436.8)	4000 (6796)	5000 (8495)
	Furnace Input Capacity	MBH (W)	50-200 (14654-58614)			50-300 (14654-87921)		150-500 (43961-146536)
	Electric Coil Capacity	kW	10-60			15-60		15-100
	Cooling Turndown Ratio	n/a	7:1					
	Max Heating Turndown Ratio		20:1	17:1	14:1	21:1	16:1	25:1
Indoor Coil Rows	4			5		6		
Physical Data	Unit Dimensions	L W H L W In (mm)	77-1/4 (1962)			81-3/4 (2076)		99 (2515)
			62 (1575)			80-3/4 (2051)		89-3/4 (2280)
			47-1/2 (1207)			60-3/4 (1543)		69 (1753)
	Curb Size		71 (1803)			75 (1905)		75 (1905)
			41 (1041)			49-1/2 (1156)		49-1/2 (1156)
	Net Weight		Lbs (kg)	1000 (453.6)	1100 (498.9)	1200 (544.3)	1650 (748.4)	1730 (784.7)
IEER		179	19.5	18.6	20.2	18.6	21.3	

Model		15	20	22	25	30		
Performance Data	Minimum Airflow	CFM (m ³ /h)	1500 (2548.5)	2000 (3398)	2200 (3737.8)	2500 (4247.5)	3000 (5097)	
	Maximum Airflow		6000 (10194.1)	7000 (13592.1)	8800 (14951.3)	10000 (16990.1)	12000 (20388.1)	
	Furnace Input Capacity	MBH (W)	150-500 (43961-146536)			200-600 (58614-175843)		
	Electric Coil Capacity	kW	15-100			60-150		
	Cooling Turndown Ratio	n/a	4:1					
	Max Heating Turndown Ratio		11:1	10:1				
Indoor Coil Rows	6		7	5		6		
Physical Data	Unit Dimensions	L W H L W In (mm)	99 (2515)			160 (4064)		
			89-3/4 (2280)					
			69 (1753)			94 (2388)		
	Curb Size		91 (2311)			111 (2819)		
			59-1/2 (1511)			80 (2032)		
	Net Weight		Lbs (kg)	2500 (1134)	2650 (1202)	3750 (1701)	4200 (1905)	4500 (2041)
IEER		18.8	18.2	18.1	17.9	17.8		