

The STULZ logo is displayed in white, bold, sans-serif capital letters on a red rectangular background.

CLIMATE. CUSTOMIZED.

# Medical Cannabis

## Grow Room Precision Temperature & Humidity Control



STULZ Air Conditioners in Denver, CO (photo courtesy of Medicine Man Technologies)

STULZ addresses the biggest design challenge in the grow room industry by customizing the controller for precision temperature and humidity control, preventing crop loss in the grow room and helping improve the return on your investment.

- **Maximize crop yield:**  
Advanced precision environmental control units maintain tight control of temperature and humidity over the plant life cycle
- **Address relative humidity spikes during lights off cycles:**  
Special dehumidifier controls in the system monitor and adjust temperature and air flow across the heat exchanger to maximize moisture removal as needed
- **Prevent the formation of white mold and mildew:**  
Enhanced dehumidification capabilities and tight moisture content control prevents crop loss due to mold or mildew
- **Pest control:**  
UV-C lighting eliminates micro pests
- **Corporate identity**  
Custom unit paint colors available

# Technical Data

Model	COS-060	COS-096	COS-120	CFU-053	CFU-070	CFU-105
<b>NET DX COOLING CAPACITY - BTU/H, (includes standard DX evaporator motor heat @ std CFM &amp; e.s.p. ratings)</b>						
75°FDB/62.5°FWB, 50% RH						
<b>Air Cooled</b>						
Total	57,583	90,537	113,915	164,670	219,890	324,863
Sensible	50,938	82,801	94,319	152,846	184,490	283,016
<b>Water Cooled</b>						
Total	63,855	100,580	126,423	186,254	247,987	368,872
Sensible	53,049	86,188	98,966	161,149	195,729	300,357
<b>Glycol Cooled</b>						
Total	55,799	87,721	110,524	159,682	212,965	313,194
Sensible	50,347	81,663	93,220	150,953	181,770	278,499
<b>Electric Reheat / Heat - Finned Tubular Heaters, (Standard) Performance Capacities Do Not Include Motor Heat</b>						
Htr kW Rating (# of Stages)	9 kW (1-stg)	9 kW (1-stg)	9 kW (1-stg)	18 kW (2-stg)	18 kW (2-stg)	27 kW (3-stg)
<b>Hot Gas Reheat - with 3-way Heat Reclaim Value (Optional)</b>						
Total Capacity kW (MBH)	5.0 (17.2)	7.8 (26.6)	10.3 (35.1)	7.9 (26)	10.3 (35)	15.6 (53)
<b>Evaporator Blower / Motor - Backward Curved, Direct-Drive, EC Plug Fan</b>						
Horsepower	3.6 Hp, (1)	4.1 Hp, (1)	4.1 Hp, (1)	4.2 Hp	4.2 Hp	4.2 Hp
CFM @ ext. st. press.	2,700 @ 0.5"	4,400 @ 0.5"	4,800 @ 0.5"	9,000 @ 0.2"	10,000 @ 0.2"	15,750 @ 0.2"
Drive Method	Direct Driven	Direct Driven	Direct Driven	Direct Driven	Direct Driven	Direct Driven
Qty. of Fans	1	1	1	2	2	3
Dimensions ( H" x W" x D" )	76x30.63x30.61	76x47.63x33.61	76x47.63x33.61	88.1x88.2x40.3	88.1x88.2x40.3	88.1x118.4x40.3
Approx. Weight	520 lbs	800 lbs	810 lbs	2,400 lbs	2,400 lbs	3,100 lbs
<b>Advanced Dehumidification Mode (75°F and 60% RH)</b>						
Latent Capacity (BTU/hr)	28,710	45,380	56,185	72,609	96,359	140,619
Rate of Moisture Removal (GPH*)	3.3	5.1	6.4	8.3	11.0	16.0
Rate of Moisture Removal (GPD**)	77.9	123.2	152.5	198.5	263.4	384.4
Dehumidification CFM	1,200	2,000	2,000	3,700	4,800	7,000

\* Gallons Per Hour

\*\* Gallons Per Day

## Advanced Dehumidification Features

STULZ's proprietary coil temperature control system lowers the temperature of the coil to just above freezing for short periods of time to rapidly reduce the moisture content in the space. This helps prevent the formation of white mold and mildew.

## Microprocessor Controller

The *E<sup>2</sup>* Series microprocessor based controller continually monitors grow space conditions and maintains the proper temperature and relative humidity, utilizing STULZ's unique control method.



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