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stratus
thermal management

Stratus Vortex Enclosure Cooler Kits
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Tech Support: 770-844-4200

Stratus Vortex Cooler Kits

Important Installation Instructions

- Be sure to replace the 40-micron filter element in the filter/regulator with the 5-micron replacement filter. The 5-micron filter is required to separate harmful foreign matter from the air supply. This is required to maintain a clean supply of air to the cooler, allowing virtually maintenance-free operation.

- When installing components, it is important to locate the solenoid valve upstream of the filter/regulator. This assures there are no unnecessary flow restrictions to the cooler and allows the semi-automatic drain feature of the filter/regulator to work properly.

- All pneumatic components and the vortex cooler have 1/4" FNPT air inlets/outlets. To be sure there is ample flow to the vortex cooler, all fittings and piping supplied to the components must be of the same size or larger. Smaller fittings, excessive turns (elbows, tees, etc), or use of plastic tubing fittings will reduce flow and affect the performance of the vortex cooler.

- Plastic tubing is not recommended as the fittings associated with tubing and tubing inside diameter can reduce airflow. Do not use "quick couplings" anywhere in the system as they create flow restrictions and your cooler will not perform correctly.

- Size your supply airline to the solenoid valve correctly. Up to 10' long runs will require a pipe size of at least 1/4" (3/8" for hoses). 10' to 50' long runs will require a pipe size of 3/8" (1/2" for hoses). 50' to 100' long runs will require a pipe size of 1/2" (5/8" for hoses).

- Maximum supply air pressure on this combination of components is 145psi.

Vortex Cooler Kits								
Kit Number	Voltage	Capacity BTUH [W]	Air Consumption SCFM [SLPM]	Vortex Cooler Number	Solenoid Valve	Thermostat	Filter/Reg- ulator	5-micron Filter
TVK08-005-4X-120A	120VAC	500 [147]	8 [227]	TV08-005-4X	DVD-2BC2A-120A	011169-00	AFR-3233	AFE2-31
TVK10-006-4X-120A	120VAC	600 [176]	10 [283]	TV10-006-4X	DVD-2BC2A-120A	011169-00	AFR-3233	AFE2-31
TVK15-010-4X-120A	120VAC	1000 [293]	15 [425]	TV15-010-4X	DVD-2BC2A-120A	011169-00	AFR-3233	AFE2-31
TVK25-018-4X-120A	120VAC	1800 [528]	25 [708]	TV25-018-4X	DVD-2BC2A-120A	011169-00	AFR-3233	AFE2-31
TVK35-025-4X-120A	120VAC	2500 [732]	35 [991]	TV35-025-4X	DVD-2BC2A-120A	011169-00	AFR-3233	AFE2-31
TVK08-005-4X-24D	24VDC	500 [147]	8 [227]	TV08-005-4X	DVD-2BC2A-24D	011169-00	AFR-3233	AFE2-31
TVK10-006-4X-24D	24VDC	600 [176]	10 [283]	TV10-006-4X	DVD-2BC2A-24D	011169-00	AFR-3233	AFE2-31
TVK15-010-4X-24D	24VDC	1000 [293]	15 [425]	TV15-010-4X	DVD-2BC2A-24D	011169-00	AFR-3233	AFE2-31
TVK25-018-4X-24D	24VDC	1800 [528]	25 [708]	TV25-018-4X	DVD-2BC2A-24D	011169-00	AFR-3233	AFE2-31
TVK35-025-4X-24D	24VDC	2500 [732]	35 [991]	TV35-025-4X	DVD-2BC2A-24D	011169-00	AFR-3233	AFE2-31
Component Warranties				5-Year	1-Year	1-Year	2-Year	2-Year

Stratus Vortex Cooler Kits: Installation and and Kit Contents – 2nd Edition – 02/18/2020