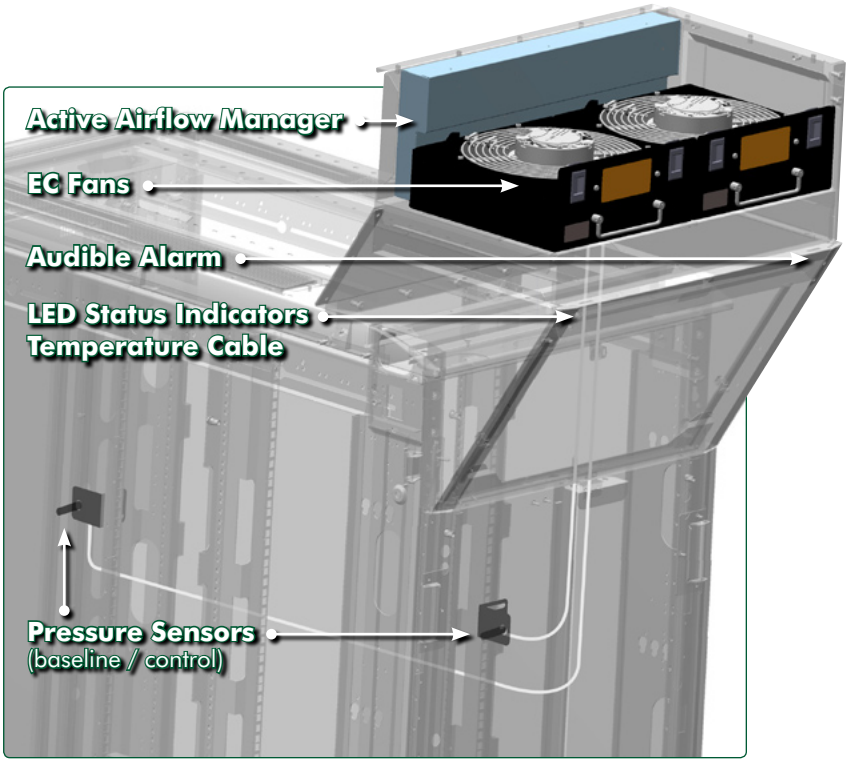
active airflow manager

reduce energy consumption while increasing equipment performance

Managing airflow in today's data centers, to enclosures with varying densities and sporadic hot spots, is challenging.

Wright Line's HCS pressure-based Active Airflow Manager, when combined with best practices, improves performance metrics considerably. Allocating the correct amount of airflow at known intake locations is the key to reducing energy consumption while increasing equipment performance. Best practices such as blanking panels, proper perforated tile placement and the reduction of bypass airflow must be employed to ensure desired results.

▲ *The tool-less Active Airflow Manager easily mounts inside a HCS chimney base. This device measures pressure differentials to regulate fan operation.*



Features & Benefits:

- SNMP managed device with user-friendly web interface
- Controller continuously monitors pressure differentials to ensure that air entering the enclosure and server is properly removed
- Fan controller capability: 0 – 2600 total CFM
- External audio and visual indicators for fan/ system status
- Event logging and trending
- Configurable setpoints/parameters
- Manages up to 256 total controllers with one IP address (kit # HCSAFMEENKIT), communication via RS485
- Two integrated temperature sensors with Email alert capabilities
- Redundant power input; C13 plug type is required for each input
- Controller is RoHS compliant

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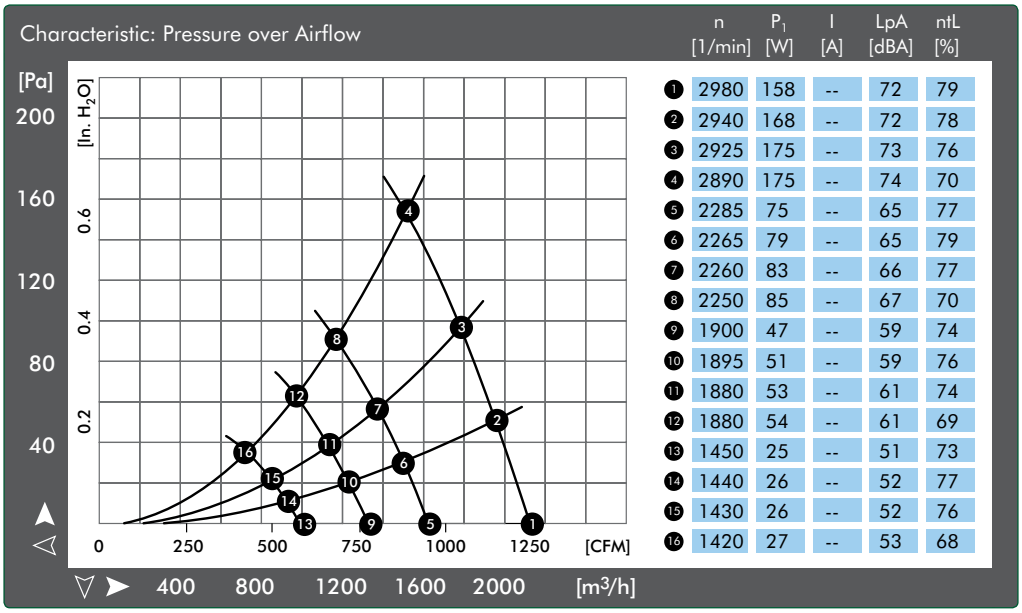

	n [1/min]	P_1 [W]	I [A]	LpA [dBA]	ntL [%]
1	2980	158	--	72	79
2	2940	168	--	72	78
3	2925	175	--	73	76
4	2890	175	--	74	70
5	2285	75	--	65	77
6	2265	79	--	65	79
7	2260	83	--	66	77
8	2250	85	--	67	70
9	1900	47	--	59	74
10	1895	51	--	59	76
11	1880	53	--	61	74
12	1880	54	--	61	69
13	1450	25	--	51	73
14	1440	26	--	52	77
15	1430	26	--	52	76
16	1420	27	--	53	68

▲ *Chart showing EC fan performance with pressure over airflow efficiencies.*

Ordering Information:

Two kit part numbers for easy ordering.

Part Number	*Description*
HCSAFMEENKIT	Ethernet-enabled airflow controller with network terminators manages up to 256 total controllers with one IP address
HCSAFMCLNTKIT	Stand-alone or networkable airflow controller

Both kits include:

- Stand-alone airflow controller
- Two EC fans
- Two pressure sensors
- CAT 6E cable for RS485 communication
- Temperature sensor and system status cable
- All other required hardware

Optional Accessories:

HCSALRM	Audible Alarm with Cable

Specifications:

Fans

- 9"H X 9"W X 5"H
- Weight: 15 lbs.
- 2,600 total CFM
- Power: 230V Input, 50/50 Hz, 1.25A

Controller

- 7.5"H X 21.25"W X 2.75"D
- Input: 90-240 VAC, 50/60 H
- Pressure Range: +/- 500Pa (+/- 2In. W.C.)

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