



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Date: 4/6/2026

Return Request: 4/13/2026

Project: Hot Springs National Park – Rehabilitate Bathhouses – Libbey Bathhouse

Supplier: Powers of Arkansas

Manufacturer: Aaon

Submittal: Motors

Submittal Number: 230513.001

Spec Section: 230513

Drawing # and Installation Location: M1.1

ARCHITECT

Quinn Evans Architects
219-1/2 N. Main Street
Ann Arbor, Michigan 48104
(734)663-5888

GENERAL CONTRACTOR

Tepa, LLC
2345 Grand Blvd, Suite 700
Kansas City, Missouri 64108
(816)708-1110

ENGINEER

IMEG Corp.
1600 Baltimore Street, Suite 300
Kansas City, Missouri 64108
(816)842-8437

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Road
North Little Rock, Arkansas 72117
(501)834-3320

Comments:

Our only motors for the Libbey Bathhouse project are contained in air handlers AHU-1L and AHU-2L.
Motor selection information is on the following pages

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117



18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918)
583-2266
Ecat Price Version: 360

JOB INFORMATION:

Job Name: Rehabilitate Bathhouses – Hot Springs National Park
Job Tag: AHU 1L
Date: 8/28/2025 12:00:00 AM

WHEEL SPECIFICATION:

Max RPM: 3000
Diameter x Qty: 18.5 in. x 2
CFM: 3250
Inertia: 3WR²

OPERATING CONDITIONS

Air Flow: 3250
Fan Energy Index (FEI): 1.22
Static Pressure: 1.75 in. Wg
Relief Dampers DP: 0 in. Wg
TSP: 1.77 in. Wg
Site Altitude: 335 ft
TSP @ Sea Level: 1.77 in. Wg

MOTOR SELECTION

Rated HP / Bypass: 3 x 2 / No
Frame Size: 145T
Nominal RPM: 1800
VAC/PH/HZ: 208V/3Ø/60Hz
Enclosure Type: TEFC
Max Inertial Load: 0 WR²

FAN PERFORMANCE:

RPM: 1623
BHP: 1.52
Efficiency: 58.99%
Max Duct SP with Blocked Airway: 0 in. Wg @ 1623 RPM

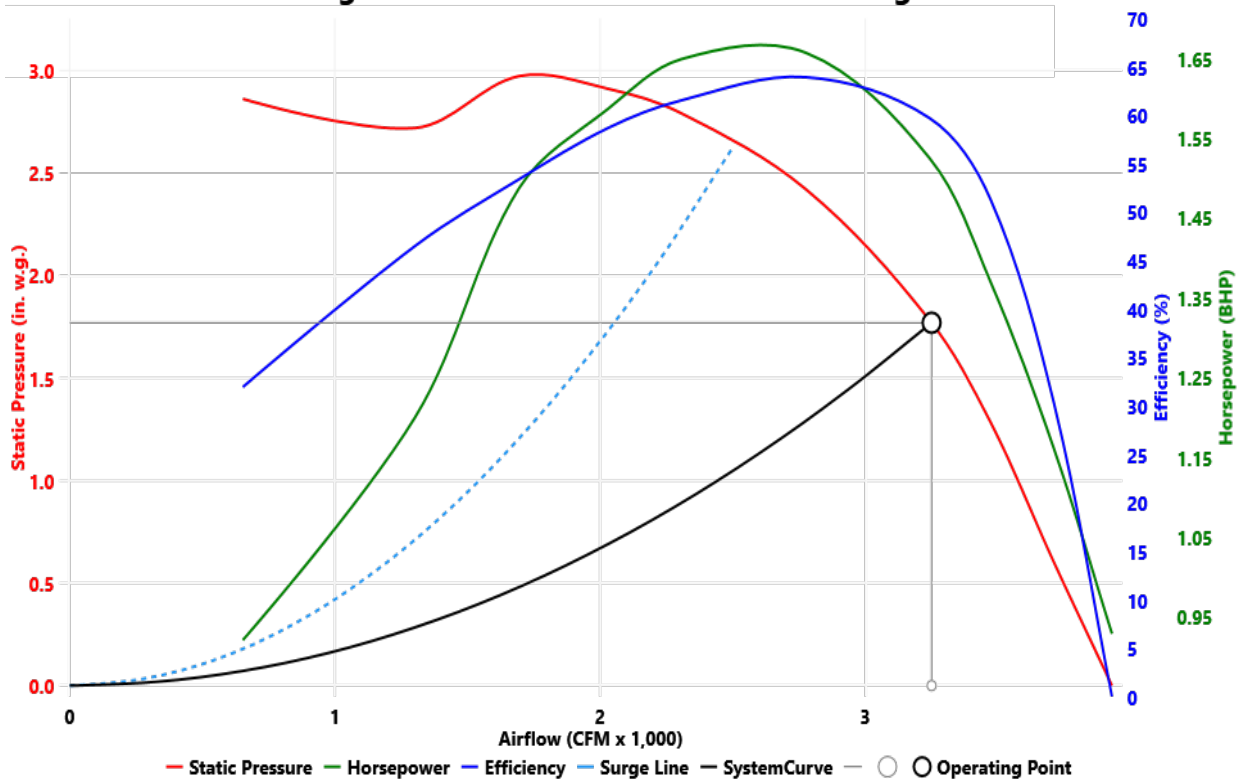
FAN SOUND POWER (Inlet/Outlet)

Octave Band:		(Re 10 ⁻¹² watts)					
1	2	3	4	5	6	7	8
87	86	88	86	79	78	75	69
87	86	88	86	79	78	75	69

SOUND POWER A-Weighted: 88 dB

Max Duct SP with Blocked Airway:

Supply Fan Model: RN185 x 2 @ 1623 RPM and 100% Width Design Conditions: 3250 CFM @ 1.77 in. w.g. SP





18.5" STAR Plenum

2425 South Yukon Ave • Tulsa, OK 74107 • Ph: (918)
583-2266
Ecat Price Version: 360

JOB INFORMATION:

Job Name: Rehabilitate Bathhouses – Hot Springs National Park
Job Tag: AHU_2L
Date: 8/28/2025 12:00:00 AM

WHEEL SPECIFICATION:

Max RPM: 3000
Diameter x Qty: 18.5 in. x 2
CFM: 3500
Inertia: 3WR²

OPERATING CONDITIONS

Air Flow: 3500
Fan Energy Index (FEI): 1.17
Static Pressure: 1.87 in. Wg
Relief Dampers DP: 0 in. Wg
TSP: 1.89 in. Wg
Site Altitude: 335 ft
TSP @ Sea Level: 1.89 in. Wg

MOTOR SELECTION

Rated HP / Bypass: 3 x 2 / No
Frame Size: 145T
Nominal RPM: 1800
VAC/PH/HZ: 208V/3Ø/60Hz
Enclosure Type: TEFC
Max Inertial Load: 0 WR²

FAN PERFORMANCE:

RPM: 1725
BHP: 1.79
Efficiency: 57.64%
Max Duct SP with Blocked Airway: 0 in. Wg @ 1725 RPM

FAN SOUND POWER (Inlet/Outlet)

Octave Band:		(Re 10 ⁻¹² watts)					
1	2	3	4	5	6	7	8
89	87	91	88	80	80	77	71
89	87	91	88	80	80	77	71

SOUND POWER A-Weighted: 90 dB

Max Duct SP with Blocked Airway:

Supply Fan Model: RN185 x 2 @ 1725 RPM and 100% Width Design Conditions: 3500 CFM @ 1.89 in. w.g. SP

