

SUBMITTAL REVIEW**CLIENT NAME:** Vails Gate Fire Department**PROJECT TITLE:** Vails Gate FD - New Firehouse**SUBMITTAL No.:** 233400-2**H2M PROJECT No.:** VGFD2001**SUBMITTAL NAME:** HPLV Fans PD**SUBMITTAL REVIEW**

**REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS.
NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS
OF DIMENSIONS OR DETAILS**

- | | |
|---|---|
| ☒ NO EXCEPTIONS TAKEN | ☐ SUBMIT SPECIFIED ITEM |
| ☐ MAKE CORRECTIONS NOTED
<small>(RESUBMISSION NOT REQUIRED)</small> | ☐ NO ACTION TAKEN
<small>(REVIEW IS THE RESPONSIBILITY OF ANOTHER PARTY)</small> |
| ☐ REVISE & RESUBMIT | ☐ NO ACTION TAKEN
<small>(THIS SUBMITTAL IS NOT REQUIRED BY THE CONTRACT)</small> |
| ☐ REJECTED - SEE REMARKS | ☐ RECEIVED FOR RECORD |

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating their work with that of all other trades; and performing the work in a safe and satisfactory manner.

H2M architects + engineers

Date: 04/25/2023

By: MJV

Rev.: 2020-05-20

Comments:

CONTRACTOR'S COMPANY NAME
ADDRESS

SUBMISSION TRANSMITTAL FORM
CLIENT NAME: Vails Gate Fire District
PROJECT TITLE: VGFD2001-New Firehouse

H2M PROJECT NO.: VGFD2001

Product, Item, or System Submitted:	HPLV Fans Product Data		
Submission Date:	04/03/2023	Submission Log No.:	233400-2
Specification Section:	233400	Paragraph Reference:	1.03.B
Contract Drawing Reference(s):			
Manufacturer's Name:			
Manufacturer's Mailing Address:			
Manufacturer's Contact Information:	<i>Name</i>	() <i>Tel. no.</i>	<i>Email</i>
Supplier's Name:	Joseph Lombardo Plumbing & Heating		
Supplier's Mailing Address:			
Supplier's Contact Information:	<i>Name</i>	() <i>Tel. no.</i>	<i>Email</i>
This item is a substitution for the specified item:	☒ No	☐ Yes	
KEY CONSTRUCTION SERVICES, LLC Project No: VGFD2001 Reviewed for General Acceptance Only. This review does not relieve the Subcontractors or Suppliers of responsibility for making the work conform to the requirements of the contract. The Subcontractor and Suppliers are responsible for all dimensions, correct fabrication and accurate fit with the work of other trades. <u>SUBJECT TO ARCHITECT AND OR ENGINEER APPROVAL</u> <i>Signed Joseph Manfredi (PM) Date: 4/3/2023</i> Contractor's Approval Stamp with Signature & Date		<u>Contractor's Brief Comments or Remarks</u> (attach separate letter as needed): By making this submission, we represent that we have determined and verified all field measurements and dimensions, field construction criteria, site and building constraints in terms of limitations in moving the item into the enclosed space, materials, catalog and model numbers and similar data and that we have checked and coordinated this submission with other work at or adjacent to the installed location in accordance with the requirements contained in the Contract Documents.	

END OF SECTION 013300

Joe Lombardo

Plumbing & Heating of Rockland, Inc.

321 Spook Rock Road
Suffern, NY 10901
Ph. 845-357-6537 Fx 845-357-8529
E: info@josephlombardo.com
Website: www.josephlombardo.com

Rockland Cty. Plumbing #1000 Rockland Cty. Cooling # 1468
Westchester Cty. Plumbing #460 New Jersey State Plumbing #12702

TO: Key Construction
4246 Albany Post Rd. Suite 1
Hyde Park, NY 12538

LETTER OF TRANSMITTAL

DATE: 4-3-23	JOB NO.
ATTENTION: Joe Manfredi	
RE: Vails Gate Firehouse	

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

EMAIL	DATE	NO.	DESCRIPTION
1	4-3-23	233400	HPLV FANS

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ No Exceptions Taken ☐ Resubmit _____ copies for review
☐ For your use ☐ Make Corrections Noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Rejected ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 20 ____ ☐ PRINTS RETURNED AFTER LOAN TO US

COPY TO: Joe Manfredi

SIGNED: Ronald J. Lombardo



Samuel Tepp Associates, LLC

**11 Leonard Street
Metuchen NJ, 08840**

P: (732)548-7398

F: (732)548-8435

www.SamTepp.net

Job Name: Vails Gate Fire Department

Location: New Windsor, NY

Architect: H2M

Engineer: H2M

Contractor: Joe Lombardo Plumbing & Heating

Revision/Date: Rev 0 dated 3/17/23

PHASE 2

Material: Epic HVLS fans.

Firehouse:

Qty 3 Colossus 10' diameter fans with black finish, 208/3 motors, disconnect, standard beam clamp, swivel, 7" down rod (advise if longer length is required but note fan plus 7" downrod totals 36") and iFan controller.

PHASE 1

Storage Building:

Qty 2 Apex 6' diameter fans with finish TBD, 115/1 motor, standard 45 degree 18" drop mount (advise if longer required) and iFan controller.

Qty 1 Apex 8' diameter fan with finish TBD, 115/1 motor, standard 45 degree 18" drop mount (advise if longer required) and iFan controller.

 EPIC FANS
COLOSSUS
INDUSTRIAL HVLS FAN



Project Information

Job Name Vails Gate FD
Address _____
Distributor Samuel Tepp Associates, LLC

Certified For Construction

By _____
Company _____
Date _____



Epicfan.com

**Quantity and Fan Diameter**

_____ 8 ft (2.4 m) ³ _____ 10 ft (3.0 m) _____ 12 ft (3.7 m) _____ 14 ft (4.3 m)
_____ 16 ft (4.9 m) _____ 18 ft (5.5 m) _____ 20 ft (6.0 m) _____ 24 ft (7.3 m)

Control Options

- ☐ Wired Touch Screen
- ☐ Wired Touch Screen with Temperature Control
- ☐ Multi Fan Remote (2-6) Fans
- ☐ Slave Remote
- ☐ NEMA 4X Remote Enclosure
- ☐ NEMA 4X VFD Enclosure
- ☒ iFan 4.3 (12 Fans Max/3 Groups Max) *120V Power Required
- ☐ Temperature Control Option ☒ BACnet TCP/IP
- ☐ Humidity Option
- ☐ iFan 7.0 (24 Fans Max/4 Groups Max) *120V Power Required
- ☐ Temperature Control Option ☐ BACnet TCP/IP
- ☐ Humidity Option ☐ BACnet MSTP
- ☐ iFan 10.0 (30 Fans Max/4 Groups Max) *120V Power Required
- ☐ Temperature Control Option ☐ BACnet TCP/IP
- ☐ Humidity Option ☐ BACnet MSTP
- ☐ BMS Interface Card
- ☐ Modbus TCP/IP ☐ BACnet TCP/IP
- ☐ BACnet MSTP ☐ Slave Remote

Mechanical Options

- ☐ Mounting Extensions _____ FT / M
- ☐ Extra Wide Beam Plate _____ inch wide beam
- ☐ Powder Coated Blades _____ RAL Color
- ☐ Powder Coated Frame & Mount _____ RAL Color
- ☐ Powder Coated Winglets _____ RAL Color
- ☐ Corrosion Resistant Package **consult factory
- ☒ Black Anodized Blades
- ☐ Silver Anodized Blades
- ☒ Black Motor Covers
- ☐ Silver Motor Covers
- ☐ Laminated Wood Beam Brackets
- ☐ Truss Span Mounting Kit (consult factory)
- ☐ Z-Purlin Mounting Kit (consult factory)

Notes

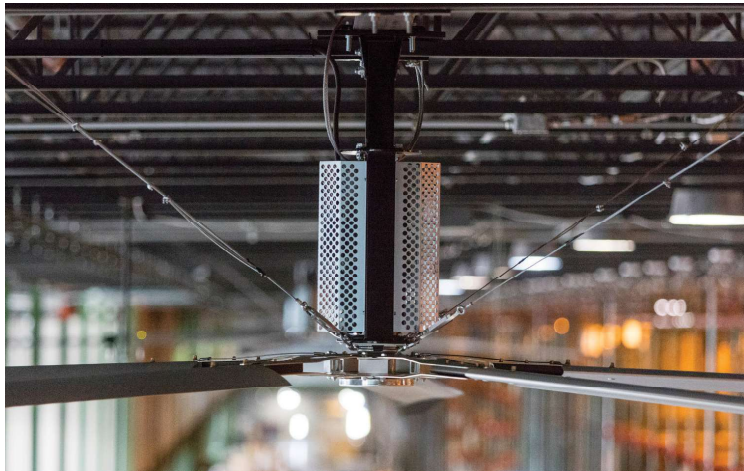
Ifan 4.3 Does not include communication cable
Belden Wire 8723 or equal

Voltage

- ☐ 208 - 240V Single Phase
- ☒ 208 - 240V 3 Phase
- ☐ 460 - 480V 3 Phase
- ☐ 575V 3 Phase

Sizing Chart

	6021100	6021103	6021101	6021102	6021104	6021105	6021106	6021107
Voltage	230V/1PH/50 60HZ	230V/1PH/50 60HZ	230V/3PH/50 60HZ	460V 3PH/50 60HZ	230V/3PH/50 60HZ	460V/3PH/50 60HZ	460V/3PH/50 60HZ	460V 3PH/50 60HZ
FLA	13.1A	14.3A	5.5A	3A	6.6A	3.5A	3.5A	3A
Fuse	KTKR15	KTKR20	KTKR10	KTKR5	KTKR10	KTKR5	KTKR5	KTKR5
Motor	1.5HP, 4.1FLA @ 230V/60HZ	2HP/5.6FLA @ 230V/60HZ	1.5HP/4.1FLA @ 230V/60HZ	1.5HP/2.1FLA @ 460V/60HZ	2HP/5.6FLA @ 230V/60HZ	2HP/2.8FLA @ 460V/60HZ	2HP/2.8FLA @ 460V/60HZ	1.5HP/2.1FLA @ 460V/60HZ
Line Reactor	NA	NA	NA	NA	NA	NA	6010719	6010718
VFD	200 230 V/1PH 2 HP/1.5KW/7.0A	200 230 V/1PH 1 HP/0.75KW 8.8A/5.0A	200 230 V/3PH 2 HP/1.5KW/7A	360 480 V/3PH 2 HP/1.5KW 3.6A	200 230V/3PH 2 HP/1.5KW/7A	360 480V/3PH 2 HP/1.5KW/3.6A	360 480V/3PH 2 HP/2.2KW/5A	360 480V/3PH 3 HP/2.2KW 5A
O/L	5.0 A	6.8 A	5.0 A	2.6 A	6.8 A	3.4 A	3.4 A	2.6 A



COLOSSUS INDUSTRIAL HVLS FAN

PRODUCT SPECIFICATIONS

HIGH VOLUME LOW SPEED FAN

Construction	
Frame	Black Powder Coat / Welded Steel Fabrication
Hub Assembly	6061-T6 Aluminum
Blade Struts (Invertible)	Clear Zinc / High Tensile Steel
Blades	Anodized / 6063-T6 Aluminum
Blade End Winglets	Aluminum 3003-H14

Safety Components	
Steel Hub Plate	
Safety Cable	Galvanized 1/4" x 7 x 19 Steel Aircraft Grade Cable
Guy Wires	Galvanized 1/8" x 7 x 19 Steel Aircraft Grade Cable
Rotor Retaining Ring	Zinc Plated / 3/16 A569 Steel

Mounting Hardware	
Standard Mount	Universal I-Beam Clamp w/ Swivel Joint & 7" Drop
Laminated Wood Beam Clamp (Optional)	Brackets
Extra Wide / Thick I-Beam Mount (Optional)	Consult Factory
Additional Drop Extensions (Optional)	Up to 10 FT in 1 FT Increments

Source Voltage	
Standard Power	208-230V 10 or 30, 460-480V, 575V 3Ø*
*Requires additional transformer enclosure	

Gearbox and Motor	
Enclosure / Insulation Class / Efficiency Class	IP55 / F / IE3
Type	2-Stage Helical
Service Interval	Lubed For Life

VFD Assembly	
Enclosure	NEMA 1
Remote CAT 5E Cable	1 - 100 Feet / 30.48 Meters
50hz Operation (Optional)	(Not included with iFAN™ option)
Disconnect	Panel Mount, UL/CE
UL Certified	
Internal Fusing Included	

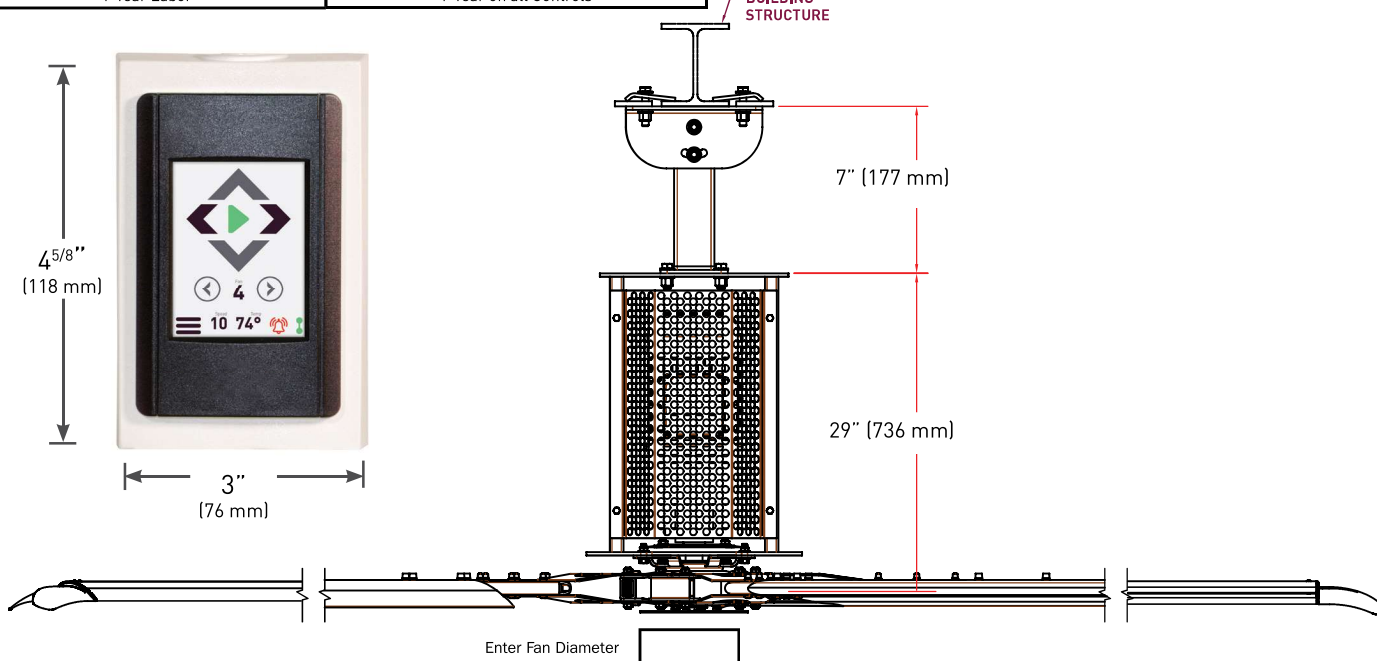
Fan Control Station	
Type	Touchscreen LCD
Connection	CAT 5E (provided)
Mounting	STD Wall J-Box

Warranty	
Lifetime Warranty on Blades, Hub & Frame	15-Year Mechanical
15-Year Non Pro Rated	7-Year Electrical
1-Year Labor	1-Year on all Controls

Fan Size	Hanging Weight	Normal Industrial Spacing	RPM
8 FT 1.5 HP	164 lbs. (73 kg)	55 feet	198
10 FT 1.5 HP	173 lbs. (82 kg)	60 feet	154
12 FT 1.5 HP	181 lbs. (86 kg)	65 feet	125
14 FT 1.5 HP	189 lbs. (86 kg)	70 feet	106
16 FT 1.5 HP	198 lbs. (94 kg)	90 feet	92
18 FT 1.5 HP	206 lbs. (101 kg)	95 feet	81
20 FT 1.5 HP	214 lbs. (105 kg)	100 feet	72
24 FT 2.0 HP	231 lbs. (107 kg)	110 feet	60

NOTICE

For more complete information on the application, proper use, maintenance and warranties for this product, please go to www.epicfan.com



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1612 Hutton Drive, Suite 140 • Carrollton, TX 75006, USA • Tel: 866-696-2464 • Fax: 972-389-4224 • HVLSFans@epic.com • www.epicfan.com



E506041

ESF-CIHVLS-0521

 EPIC FANS
APEX
COMMERCIAL HVLS FAN



Project Information

Job Name Vails Gate FD
Address
Distributor Samuel Tepp Associates, LLC

Certified For Construction

By
Company
Date



Quantity and Fan Diameter

2

6 ft (1.8 m)

1

8 ft (2.4 m)

10 ft (3.0 m)

12 ft (3.7 m)

14 ft (4.3 m)

Control Options

- ☐ Wired Touch Screen
 ☐ Multi Fan Remote (2-6) Fans
 ☐ Slave Remote
 ☒ iFan 4.3 (12 Fans Max/3 Groups Max) *120V Power Required

☐ Temperature Control Option
 ☒ BACnet TCP/IP
 ☐ Humidity Option
- ☐ iFan 7.0 (24 Fans Max/4 Groups Max) *120V Power Required

☐ Temperature Control Option
 ☐ BACnet TCP/IP
 ☐ Humidity Option
 ☐ BACnet MSTP
- ☐ iFan 10.0 (30 Fans Max/4 Groups Max) *120V Power Required

☐ Temperature Control Option
 ☐ BACnet TCP/IP
 ☐ Humidity Option
 ☐ BACnet MSTP
- ☐ BMS Interface Card

☐ Modbus TCP/IP
 ☐ BACnet TCP/IP
 ☐ BACnet MSTP
 ☐ Slave Remote

- Voltage

☒ 120V Single Phase
 ☐ 208 - 240V 1 or 3 Phase

	Sizing Chart	
	6023470	6023490
Voltage	230V/1PH 3PH/50 60HZ	120V/1PH/50 60HZ
FLA	7.4A	4.2A 1PH/2.5A 3PH
BCPD	10A	5A
Motor	0.75HP/3.3FLA @ 127V/60HZ	0.75HP/3.3FLA @ 127V/60HZ
VFD	120V/1PH 1 HP/0.75KW/16.8A	230V/1PH 1 HP/0.75KW/16.8A
O/L	3.3 A	3.3 A

Mechanical Options

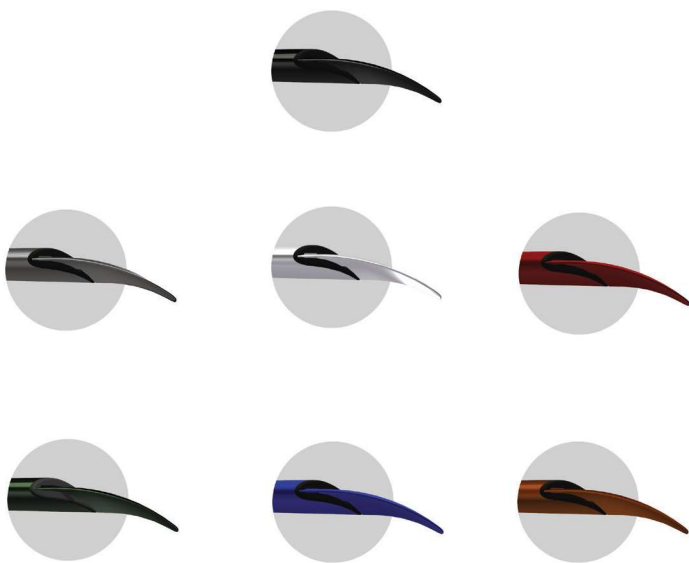
- ☐ Mounting Extensions _____FT / M
 ☐ Silver (RAL 9006)
 ☐ Black (RAL 9017)
 ☐ White (RAL 9003)
 ☐ Red (RAL 3002)
 ☐ Blue (RAL 5013)
 ☐ Green (RAL 6016)
 ☐ Orange (RAL 2004)
 ☐ Others _____
 ☐ Extra Wide Beam Mount
 ☐ Laminated Wood Beam Brackets
 ☐ Truss Span Mounting Kit (consult factory)
 ☐ Z-Purlin Mounting Kit (consult factory)

Notes

Color TBD
 ifan 4.3 Controller Does not include communication cable, belden wire 8723 or equal

Available Colors

RAL powder coat colors. Custom colors and combinations are available.



APEX COMMERCIAL HVLS FAN

PRODUCT SPECIFICATIONS

HIGH VOLUME LOW SPEED FAN

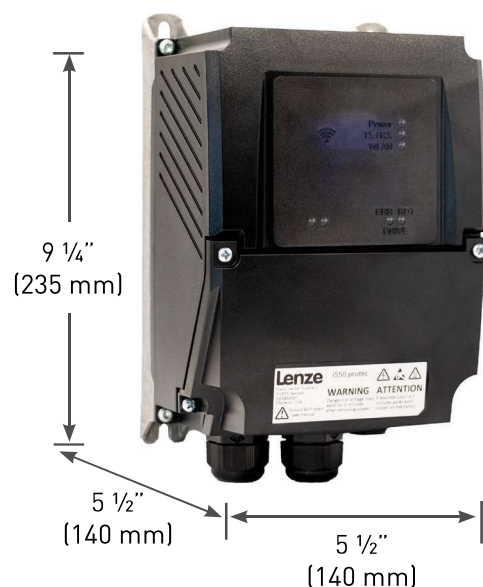
CONSTRUCTION	General Components	
	Hub Assembly	50,000 lbs. Yield High Tensile Steel
	Motor Housing	.050 3003 Aluminum, Powder coated
	Blades	6063-T6 Aluminum, Powder coated
	Blade End Winglets	6061-T6 Aluminum, Powder coated
	Safety Components	
	Blade Attachment Retainers	50,000 lbs Yield High Tensile Steel
	Mounting Hardware	
	Standard Mount	Versatile 45° Mounting Bracket
		Additional Drop Extensions (Optional)
		Up to 15 FT - 1 FT increments

OPERATION	Source Voltage	
	Standard Power	120V - 230V 1Ø, 230V 3Ø
	Motor	
	Gearless Direct Drive Motor (AC)	
	Controls Module	
	Remote	
	Enclosure IP 66 / 0 F - 122 F UL Certified	
	UL Certified	
	Fan Controller	
	Standard Touch Screen	
	Warranty	
	10-Year Parts, 1 Year Labor	
	10-Year Mechanical	
	5-Year Electrical	
	1-Year Control	

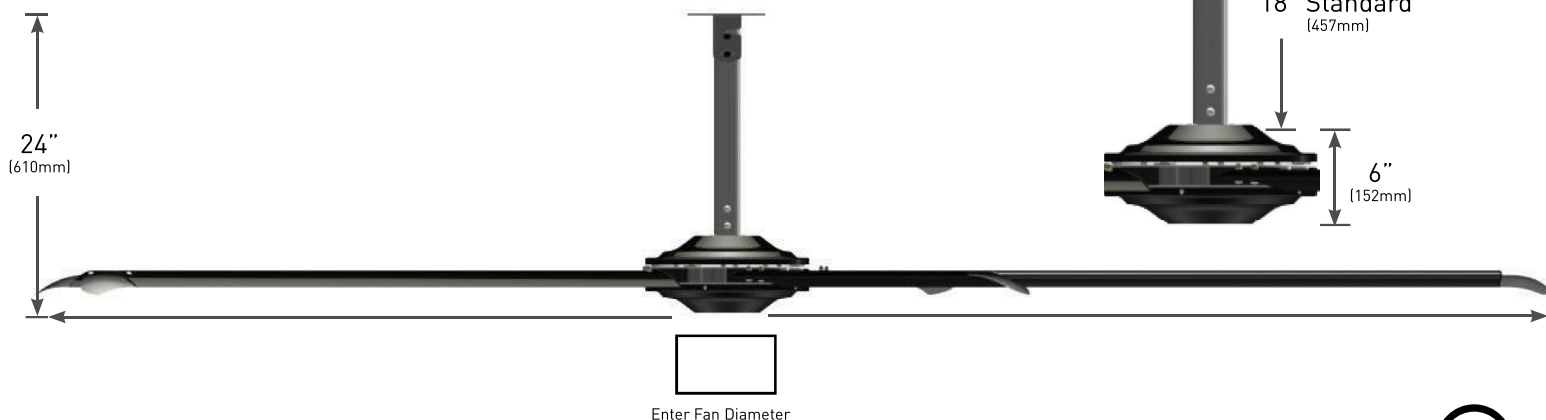
Fan Size	Motor	Hang Weight	RPM
6 FT	1/2 HP	50 lbs [22.7 kg]	200
8 FT	1/2 HP	54.5 lbs [24.7 kg]	165
10 FT	1/2 HP	59 lbs [26.8 kg]	110
12 FT	1/2 HP	63 lbs [28.6 kg]	80
14 FT	1/2 HP	65 lbs [29.5 kg]	60

NOTICE

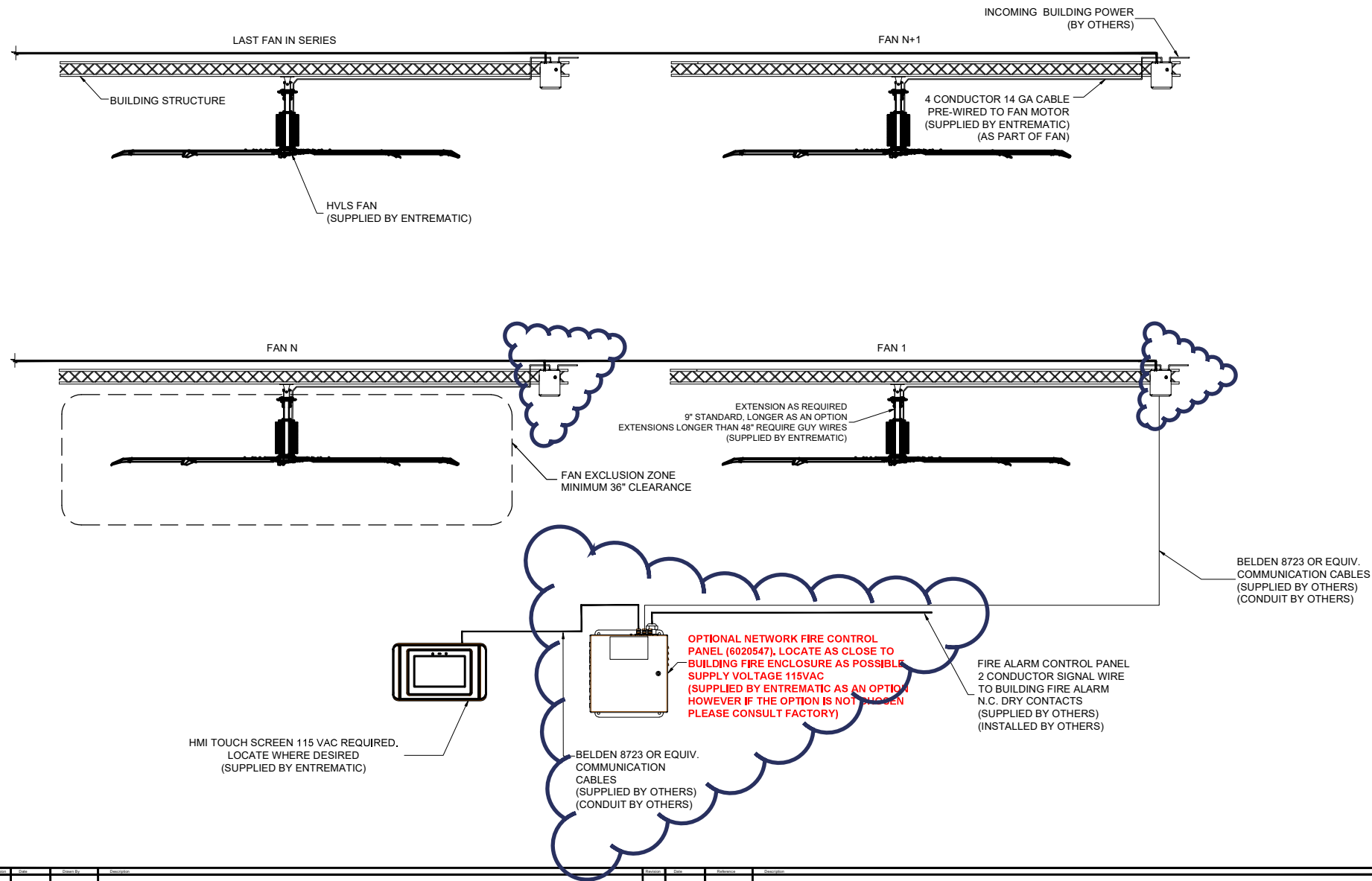
For more complete information on the application, proper use, maintenance and warranties for this product, please go to www.epicfan.com.



NACA optimized blade profile provides high lift, low drag coefficients at low velocities equating to a highly efficient profile for low speed rotary airfoils.



Industrial Fan Layout



General Notes

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NOTES:

- 1) BUILDING STRUCTURE MUST BE SUFFICIENT TO SUPPORT THE FAN INSTALLATION. CONSULT A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER.
- 2) ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL ELECTRICAL WORK MEETS LOCAL ELECTRICAL CODES.
- 3) GENERAL CONTRACTOR SHALL ENSURE EQUIPMENT INSTALLATION MEETS ALL APPLICABLE BUILDING CODES.
- 4) STANDARD MOUNT ACCOMMODATES I-BEAM INSTALLATION. FOR GLULAM, WOOD BEAM, Z-PURLIN OR TRUSS BRIDGES PLEASE NOTE ON ORDER.
- 5) THE VFD ENCLOSURE MUST BE INSTALLED OUTSIDE AND A SAFE DISTANCE FROM THE BLADE DIAMETER FOR SERVICE PURPOSES.
- 6) ALL CONDUIT BY OTHERS

7) NOTE: THE INSTALLATION OF HVLS FANS IN BUILDINGS EQUIPPED WITH SPRINKLERS, INCLUDING "ESFR" SPRINKLERS, SHALL COMPLY WITH THE FOLLOWING:

- (A) THE HVLS FAN SHALL BE CENTERED APPROXIMATELY BETWEEN FOUR ADJACENT SPRINKLERS.
- (B) THE VERTICAL CLEARANCE FROM THE HVLS FAN TO THE SPRINKLER DEFLECTOR SHALL BE A MINIMUM OF 1 FT (0.9M).
- (C) ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON RECEIVING A WATERFLOW SIGNAL FROM THE ALARM SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72.

REVIEW DRAWING

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION. PLEASE CONSULT WITH REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER FOR ALL LOADS ANALYSIS AND SPECIFICATIONS CONFORMITY.

Firm Name and Address

by

ENTREMATIC

1612 Hutton Drive, Suite 140
Carrollton, TX 75006

Drawn By:

CRE

Regional Sales Manager:

TBD

Date:

02/26/2019

Drawing Number:

6020689S

Scale:

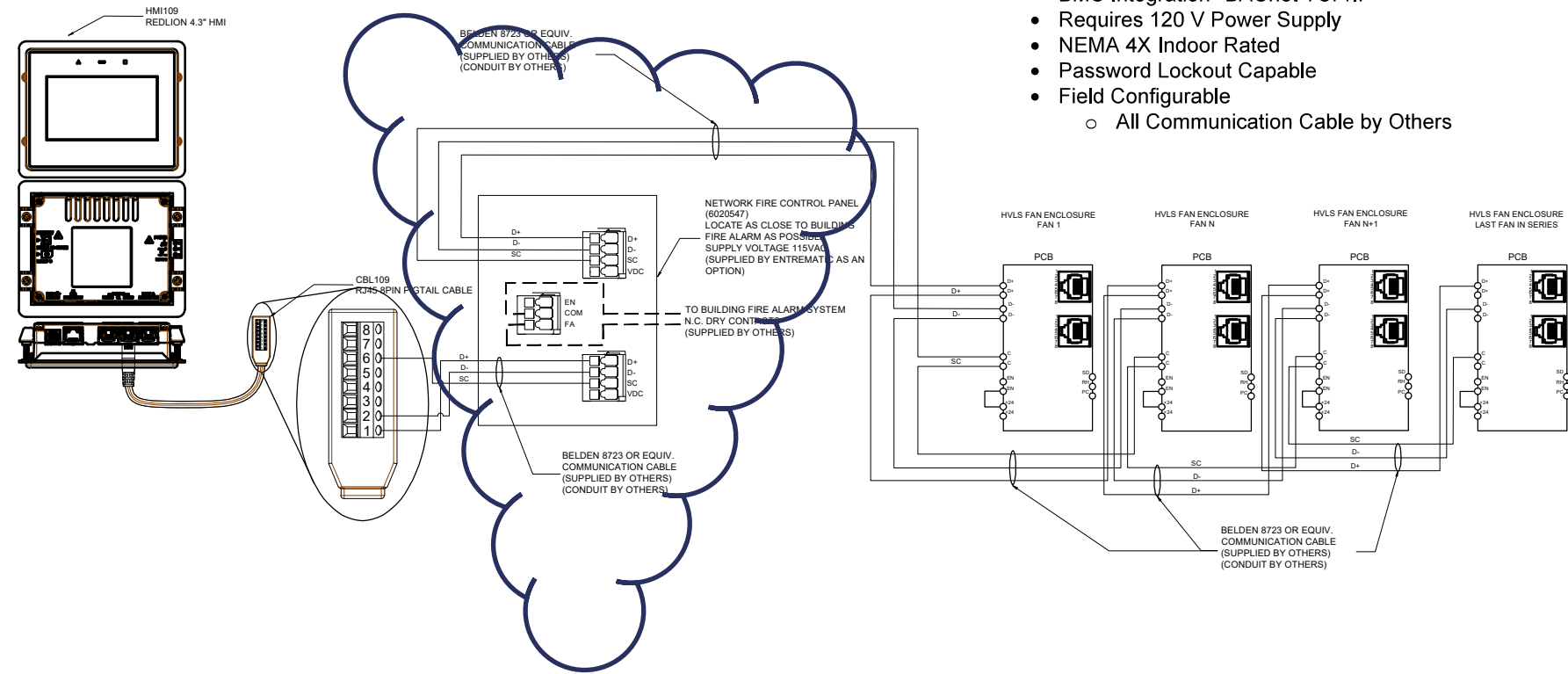
NTS

Sheet Number:

2 OF 10

Rev:

E



System Information

- 12 Fans Max
- 3 Groups Max
- Timer Controls *Standard*
- Temperature Control *Optional*
- Humidity Control *Optional*
- BMS Integration *BACnet TCP/IP*
- Requires 120 V Power Supply
- NEMA 4X Indoor Rated
- Password Lockout Capable
- Field Configurable
 - All Communication Cable by Others

General Notes

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NOTES:

- 1) ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL ELECTRICAL WORK MEETS LOCAL ELECTRICAL CODES.
- 2) RECOMMENDED COMMUNICATION CABLE Belden 8723 OR EQUIVALENT.
- 3) ALL CONDUIT BY OTHERS.
- 4) OPTIONAL NETWORK INSTALLATION INCLUDES ONE TOUCHSCREEN HMI KIT.

REVIEW DRAWING

THIS DRAWING IS NOT INTENDED FOR CONSTRUCTION. PLEASE CONSULT WITH REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER FOR ALL LOADS ANALYSIS AND SPECIFICATIONS CONFORMITY.

Firm Name and Address

by

ENTREMATICS

1612 Hutton Drive, Suite 140
Carrollton, TX 75006

Revision	Date	Drawn By	Description	Revision	Date	Drawn By	Description
A	11/17/2017	CRE	Original Drawing	E	02/26/2019	CRE	UPDATED DRAWING TO NEW REDLION DISPLAY
B	04/11/2018	CRE	Added industrial fans and removed fuse from panel schematic.				
C	09/27/2018	CRE	UPDATED BACNET MAPPING FOR NEW PROGRAM				
D	01/22/2019	CRE	Added Frequency for Input power to 24VDC PSU for HMI				

Drawn By:	CRE	Regional Sales Manager:	TBD
Date:	02/26/2019	Drawing Number:	6020689S
Scale:	NTS	Sheet Number:	3 OF 10
		Rev:	E

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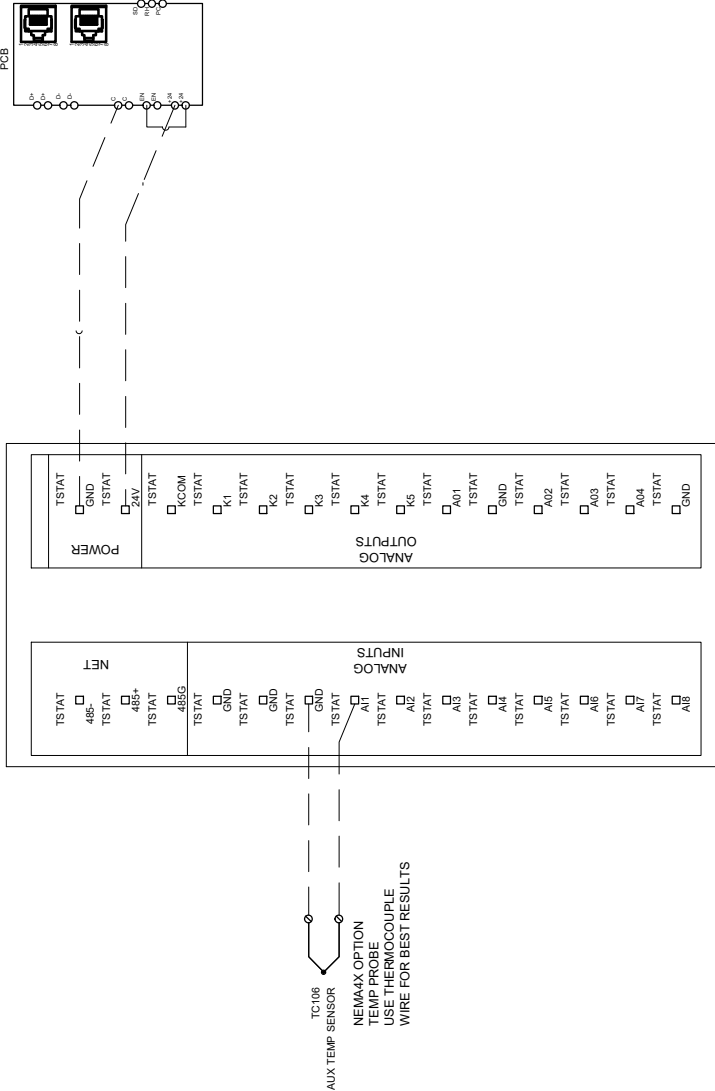
NOTES:

1) ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL ELECTRICAL WORK MEETS LOCAL ELECTRICAL CODES, AND ALL ELECTRICAL COMMUNICATION CABLES ARE PROTECTED.

2) ALL CONDUIT BY OTHERS

MODBUS TEMPERATURE SENSOR/CONTROLLER
MODBUS ADDRESS 100

VFD CONTROL PANEL
PCB WIRING



LEGEND

WIRE COLOR/GAUGE (NEFA)

208-480VAC #14 BLK

120VAC #16 RED

120VAC #16 WHT

NEUTRAL #16 WHT

GROUND #16 WHT

24V COM (0VDC) #12 BLU/WHT

24V COM (0VDC) #12 BLU/WHT

120VAC #16 WHT

120VAC #16 WHT

DRY (UNPOWERED) #16 YLW

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION. IT IS FOR INFORMATION ONLY. PLEASE CONSULT THE ENTREMATIC ARCHITECT/ENGINEER FOR ALL LOADS ANALYSIS AND SPECIFICATIONS COMPLIANT.

Firm Name and Address

by

ENTREMATIC

1912 Hulton Drive, Suite 140
Carrington, TX 75006

Rev	Date	By	For	Revised	Revised	Revised	Revised
A	11/17/2017	CRE	Original Drawing	E	02/26/2019	CRE	UPDATED DRAWING TO NEW REDLON DISPLAY
B	04/11/2019	CRE	Added industrial fans and removed fuse from panel schematic.				
C	09/27/2019	CRE	UPDATED BACKNET MAPPING FOR NEW PROGRAM				
D	01/22/2020	CRE	Added Frequency for Input panel to 24VDC PSM for HMI				

