ORDER		A	ARCHITECT	L	_
		C	CONTRACTOR	Þ	2
AIA DOCUMENT G701		F	TIELD]
		C	OTHER		
PROJECT: Brookline High School	CHA	NGE ORDER NUMBER:		12	1
115 Greenough Street	DAT	E: 11/13/2023			
BROOKLINE, MA 02445		HITECT'S PROJECT NO.:			
TO CONTRACTOR:		ITRACT DATE: March 2			
LAMBRIAN CONSTRUCT	TION Corp. CON	ITRACT FOR: 3rd Floor	Renovation & (Quad Repairs	S
The Contract is changed as follows:		,	Approved Value	s	
PCO103_DAVISON_FB40-Re	oom 348 In-Line Fan		\$39,360.00		
	TO	-AL	\$39,360.00		
			407,000.00		
APPROVED:	The way				
President	made 5	1			
Not valid until signed by the Owner,	Architect and Contracto	ır.		A CONTRACTOR OF THE CONTRACTOR	
The valid and signed by the commen			-wind (colored) and complete	energy and the control of the control	
The original (Contract Sum) (Guarant	eed maximum Price) was			_	\$8,482,000.00
Net change by previously authorized	Change orders				\$806,984.60
The (Contract Sum) (Guaranteed max	imum Price) prior to this	Change order was			\$9,288,984.60
The (Contract Sum) (Guaranteed max	imum price) will be (incre	eased) (decreased)		_	\$39,360.00
(unchanged) by this Change Orde	er in the amount of				
The new (Contract Sum) (Guaranteed	maximum Price) includin	g this Change order will	be	_	\$9,328,344.60
The Contract Time will be (increased) decreased) (unchanged)	by			
The date of Substantial Completion a					
NOTE: This summary does not refle	ct changes in the Contract Su	ım, Contract Time or Guara	anteed Maximum I	Price which	
have been authorized by Co	nstruction Change Directive.				
William Rawn Associates, Architects	nc. Lambrian Const	ruction Corporation		Town Of Bro	okline
ARCHITECT	CONTRACTOR	2		OWNER	
27 School Street, Boston ma 02108	420 Turnpike SI	reet, Canton, Ma 02021		333 Washing	ton St, Brookline, Ma 02445
Address A. G.	Address	Minist		Address	
Andrew Jonic, AIA	1		-		
BY Associate Principal William Rawn Associates, Architects Inc.	BY James Lam	brianidis - President		ВҮ	
DATE November 13, 2023	DATE 11/	13/2023		DATE	×

CO #12

OWNER

CHANGE

LAMBRIAN CONSTRUCTION Corp. General Contractors

420 Turnpike Street - CANTON, MA 02021 Tel: (781) 461-1100 / Fax: (781) 461-9885

October 25, 2023

WILLIAM RAWN ASSOCIATES, Architects Inc. 27 School Street BOSTON, MA 02108

Project:

BROOKLINE HIGH SCHOOL - 3RD FLOOR RENOVATIONS & QUAD REPAIRS 115 Greenough Street BROOKLINE , MA 02445

PCO #103

OBJECT:

Per FB #40, Install in-lin fan to deliver make-up air through existing ductwork for room 348. Note: Work will be peerformed during Christmas break.

Item#	DESCRIPTION	Unit	QTY	\$ / unit	Subtotal	Subtotal	TOTAL
item#	DESCRIPTION	UIIIL	ŲII	ş / unit	Subtotal	Subtotal	IUIAL
	LAMBRIAN Construction : Supervision - 40 hrs (1week) @			4			
	\$65.00/hr.	hrs	40	\$65.00	\$2,600.00	\$2,600.00	
	Materials: ADD						
	See DAVISON's proposal, dated 10/17/2023	LS	1	\$32,824.00	\$32,824.00		
	G.C. Fees (5%)	%	5.00%		\$1,641.20		
	Subtotal				\$34,465.20	\$34,465.20	
	Labor: ADD						
	Remove Ceiling tiles and grid, as necessary, for HVAC to perfrom						
	the work (by K&K Acoustical Ceilings).						
	1 Carpenter / 8 hrs ea. @ \$102.00/hr.	hrs	8	\$102.00	\$816.00		
	Reinstall Ceiling tiles and grid, as necessary, after HVAC work is						
	performed (by K&K Acoustical Ceilings).						
	1 Carpenter / 8 hrs ea. @ \$102.00/hr	hrs	8	\$102.00	\$816.00		
	Subtotal				\$1,632.00		
	G.C. Fees (5%) - ADD	%	5.00%		\$81.60		
	Subtotal				\$1,713.60	\$1,713.60	_
	SUBTOTAL					\$38,778.80	
	Bond Fee (1.5%) - ADD	%	1.50%		_	\$581.68	_
	TOTAL					\$39,360.48	

SAY: \$39,360.00

TOTAL ADD AMOUNT: Thirty Nine Thousand Three Hundred Sixty Dollars.

Note: No demolition and resinstallation of existing pipes, ducts, electrical of other obstructions are included in this price.

Sincerely,

Alex Galanos - Project Manager Lambrian Construction, Corp

Recommended for approval by the Town of Brookline

Andrew Jonic, AIA William Rawn Associates, Architects Inc.

11/1/23

Davison Co.,Inc

"Contractors specializing in HVAC since 1986"

90 Clarendon Ave Somerville, MA 02144

Tel: 617-666-3174

Fax: 617-776-9535

Davisoncompany.net David.cacciola@gmail.com

Date: 10/17/23

Change Order Proposal

COP #1001

To: Lambrian Construction Inc

Alex Galons ATTN:

Address: 420 Turnpike Street

Canton, MA 02021

Phone: 781-461-1100

Project Information:

Brookline High School Expansion

Architect Engineer Owner

GGD WRA, Architects 27 School St, #2 Boston, MA 02108

375 Faunce Corner Rd Dartmouth MA 02747

Town of Brookline High School Brookline, 02445

Description Amount

This proposal includes all work shown in the circled areas shown on drawing M1-01-D which includes adding a new inline supply fan with duct heater and all related material. Electrical high voltage by others.

Labor

Totals

HVAC Mechanic. 40hrs @ \$100.59 plus 29% burden = \$129.76 per hour \$5,190 HVAC Mechanic. 40hrs @ \$100.59 plus 29% burden = \$129.76 per hour \$5,190

Material

Supply fan, duct heater, sound attenuator, sheet metal, hangers/fasteners

\$7,160

Subs

Auto Temp controls by Viking (proposal attached)

\$12,300

Additional Notes:	Labor Total
Not responsible for existing conditions preventing new work to be installed as shown i.e. electrcial conduits, fire	Material Total
protection pipes, plumbing pipes, HVAC items.	Subs
Not responsible for removing/reinstalling ceiling grid or tiles	Max allowed mark up 10%

Total

Total:

\$7,160 \$12,300 \$2,984

\$10,380

\$32,824

Authorized By: David Cacciola III Vice President

Singnature & Date:

David Cacciola 10/17/23

Thank you for your business!



QUOTATION

To: Davison Co.,Inc
Attn: David Cacciola
Tel: (617) 666-3174

Email: david.cacciola@gmail.com

 From:
 Karl Maseng

 Date:
 10/13/2023

 Quotation #:
 22-0053

Project Name: Brookline High 3rd Floor - SF-1 Controls

Description of Work:

Viking Controls will provide the following:

<u>- SF-1/Duct Heater - Includes DDC controller</u>, transformer, relays, current sensor, filter sensor, supply temp sensor, motorized damper, and all control wiring.

- Operations - Includes control drawings, programming, commissioning, graphics, and warranty.

This Complete Price Will Be: \$12,300.00

This Price Does Not Include:

- Power Wiring.
- Motor starters or VFD's.
- Smoke detectors, smoke/fire dampers or fire alarm wiring.
- Premium Time.
- Startup of equipment or controls not furnished by Viking Controls.
- Demo.

We are pleased to submit the above quotation for your consideration. Should you place an order be assured it will receive our prompt attention. This quotation is subject to the conditions as noted and is valid for 30 days. Thereafter, it is subject to change without notice.

Accepted:	Date:
Accepted	Date

Please sign and return acceptance when ordering

THANK YOU FOR YOUR BUSINESS.

\\\Lafayette\quotes\544376\PMD-DAVISON CO INC\BROOKLINE HS 3KD FL RENO.gtcj

BROOKLINE HS 3RD FL RENO Job Name:

Job Site: DAVISON CO., INC

> 90 CLARENDON AVE SOMERVILLE, MA 02144

United States

Customer PO#: 1807 Engineer: **GGD**

Contractor: **DAVISON CO**

Elevation: (ft) 30

Date: 10/12/2023

Submitted By: Michael Feehan

Agent Order#: H124080

BUCKLEY ASSOCIATES INC - 812

385 KING ST

HANOVER, MA 02339

US

Phone: (781)878-5000 Fax: (781)871-9435

Email Address: mfeehan@buckleyonline.com

Mark: EHC-348 Model: IDHE

IDHE Duct Heater

APPLICATION & DESIGN

The IDHE series is the industry's first and only electric duct heater approved by UL for multiple mounting positions. This allows the control cabinet to be installed on either side of a horizontal duct or in any orientation on a vertical duct. The control cabinet is offset from the heating elements similar to traditional heaters. However, the IDHE affords the installer the flexibility to position the offset on the left or right as preferred. Standard features include:

- UL 1996 certified
- 50/60 Hz compatibility
- Zero clearance rating
- Hinged control cabinet cover
- Power and control terminal boards
- Automatic reset thermal safety switch for primary over temperature protection
- Heavy gauge G60 construction

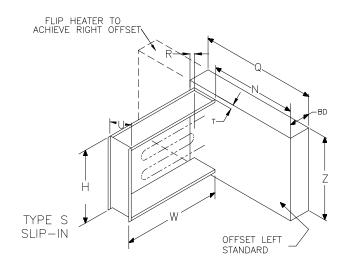
PRODUCT DETAILS

Airflow Direction Universal **Control Box Offset** Universal **Control Voltage** 24 VAC Deration None **Element Wire** Standard **Heater Type** Slip In Heater Voltage/Phase 208/3 **Stainless Hardware** Nο

Power Fusing No Preference



Airflow Switch Adjustable **Control Transformer** Fused Contactor Magnetic **Disconnect Switch** Yes **Thermostat** None Fan Interlock No Vapor Barrier No **Dust Tight Box** Nο **Pilot Light** None **Time Delay Relay** None



- This drawing shows a general damper configuration and is not intended to depict the exact configuration of the heater.
- · All dimensions shown are in units of in.
- · Individual maximum capacities are dependent on voltage/phase, control type and heater dimensions
- · Capacity: 478.8 kW maximum
- · Greenheck duct heaters are universally configured to allow airflow in either direction in horizontal ducts

ID#	TAG	QTY	WIDTH	HEIGHT	CONFIGURATION				
					Kilowatts: 6	Stages: 1	Amps: 16.654	Heater Control: SCR	
11-1	11-1 EHC-348 1 12.000 in.	8.000 in.	Power Fusing: No	Dimension Q: 20.000 in.	Dimension Z: 9.938 in.	Dimension BD: 8.000 in.			
					Dimension U: 6.000 in.	Dimension N: 13.000 in.	Dimension R: 1.000 in.	Dimension T: 1.000 in.	

Minimum CFM*

Inlet Air Temp (F)	-25	0	20	40	60	70	80	100
Row ID 11-1	93	111	135	165	211	243	284	418

^{*}Minimum air flow values are determined with uniform air volume across the face of heater coils. If air flow is not consistent across heater coils at minimum values, localized hotspots may occur and cause temperature overload to trip.

Minimum FPM*

Inlet Air Temp (F)	-25	0	20	40	60	70	80	100
Row ID 11-1	140	167	202	247	316	364	426	628

Mark: EHC-348

Model: IDHE

*Minimum air flow values are determined with uniform air flow across the face of heater coils. If air flow is not consistent across heater coils at minimum values, localized hotspots may occur and cause temperature overload to trip.

Model: SQ-98-VG

Direct Drive Centrifugal Inline Fan

Dimension	al
Quantity	1
Weight w/o Acc's (lb)	50
Weight w/ Acc's (lb)	94
Optional Damper (in.)	12 x 12

Performance					
Requested Volume (CFM)	300				
Actual Volume (CFM)	300				
Total External SP (in. wg)	0.782				
Fan RPM	1547				
Operating Power (hp)	0.14				
Elevation (ft)	30				
Airstream Temp.(F)	70				
Air Density (lb/ft3)	0.075				
Tip Speed (ft/min)	4,530				
Static Eff. (%)	26				

Misc Fan Data				
Fan Eff. Index (FEI)	-			
Outlet Velocity (ft/min)	229			

Motor	
Motor Mounted	Yes
Size (hp)	1/4
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV
Motor RPM	1725
Windings	1
FLA (Amps)	2.85
Min. Circuit Ampacity (MCA)	4
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rta (SCCR)	5 kA

1.2		0.8
0.9 (b)	1547 FRPM	0.6
Static Pressure (in. wg)	(I) Shaded all the sh	o 4. Brake Power (hp)
8.0 Stati		0.2 ^m
	0 1 2 3 4 5 6 7 Volume (CFM) x 100	

\bigcirc	Operating Bhp point Operating point at Total Externa
	- Fan curve
	System curve
	Brake horsepower curve

Static Pressure Calculations al SPExternal SP 0.75 in. wg 0.032 i<u>n. wg</u> Filters Total External SP 0.782 in. wg

Nameplate Model: SQ-98-VG

Sound Power by Octave Band

_												
	Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Γ	Inlet	79	82	71	68	61	57	55	50	71	59	10.9
Γ	Padiated	- 7Ω - 100	27	61 61	. 5Ω !!! ₩ !!'	50	38	36	37	63	52	6.5

Notes:

All dimensions shown are in units of in. *NEC FLA, MCA and MOP are for reference only - based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory.MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc).

LwA - A weighted sound power level, based on ANSI S1.4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International

Sones - calculated using AMCA 301 at 5 ft



> Mark: SF-1 Model: SQ-98-VG

Model: SQ-98-VG

Direct Drive Centrifugal Inline Fan

Greenheck model SQ Mixed Flow meets or exceeds legacy centrifugal models SQ/BSQ in performance and features. SQ Mixed flow is an approved equal and can be considered a direct replacement for these models.

Standard Construction Features:

- Galvanized steel housing - Backward inclined composite (sizes 60-95) or aluminum (sizes 97-160) wheel - Two bolted access panels - Integral duct connection flanges - Ball bearing motors (sizes 97-160 and all vari-green motors), sleeve bearing motors (sizes 60-95) - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor

Control - Vari-Green Dial on Exterior of Fan Housing, Mounted and Wired

UL/cUL 705 Listed - "Power Ventilators"

Junction Box Mounted and Wired

Switch, NEMA-1, Toggle, Shipped with Unit,

Aluminum Wheel Material

Insulated Housing - 1 in. Thick: Fan Housing, Filter Box

Sloped Filter Box, 2 in. Pleated (MERV 8) Filters

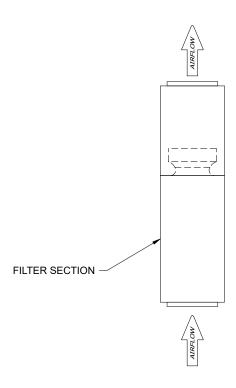
Inlet/Outlet Companion Flange Unit Warranty: 1 Yr (Standard)

Damper Shipped Loose, Inline, WD-330-PB-12X12, Not Coated

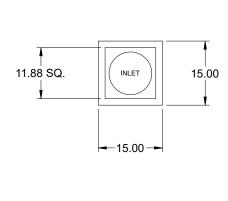
Damper Actuator (MP-310), 115 VAC Actuated

End Switch

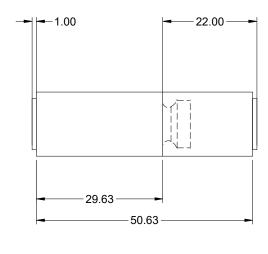
Direct Drive Centrifugal Inline Fan



TOP VIEW



END VIEW



SIDE VIEW

Notes: All dimensions shown are in units of in.



Disconnect Switch Enclosure Rating: NEMA-1

Standard Construction Features:

Enclosure constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dust. This enclosure meets the rod entry and the indoor corrosion protection design tests. The rod entry test is intended to simulate incidental contact with enclosure equipment. Enclosure is equipped with provision to lockout in the off position with customer supplied lock.

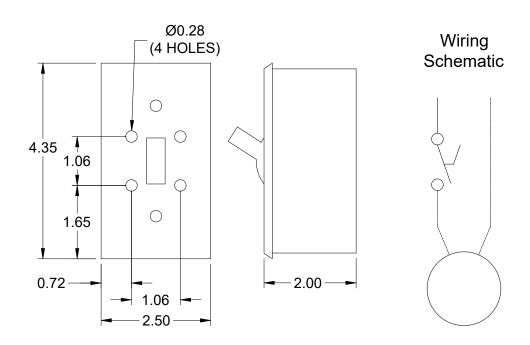
Disconnect Switch Configuration

Type:	Toggle	Motor Size:	1/4 hp	Voltage:	115	UL Listed:	Yes
Manufacturer:	Pass and Seymour	Cycle:	60	Amperage:	15	CSA Approved:	Yes
Overload Protection:	None	Phase:	1	Switch Pole(s):	1	Rating:	1/2 hp

Junction Box Mtg.: Ship With Unit RPM: 1725 Exp. Resist. Wiring: None

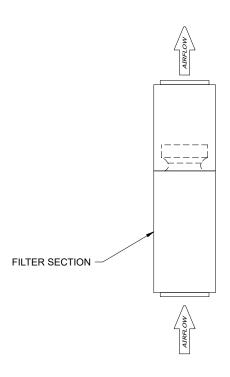
Switch Mounting: Shipped With Unit

Electrical Drawing Details

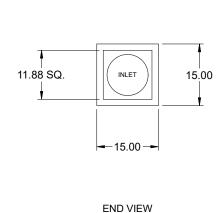


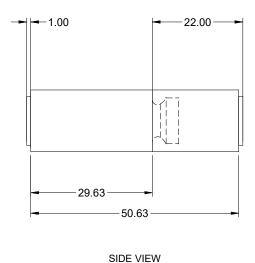
Assembly Drawing

Type: Direct Drive Centrifugal Inline Fan



TOP VIEW





Notes: All dimensions shown are in units of in..

> Mark: SF-1 Model: SQ-98-VG

Vari-Green

Motor & Control Options

An EC motor that uses AC input power and internally converts it to DC power. Motor accepts a 0-10VDC control signal along with a 24V source to power controls in the motor. Motor is operable in the 2-10VDC range and off while in the 0-1.9VDC range. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

An EC motor that uses AC input power and internally converts it to DC power. Potentiometer (dial) mounted on the fan housing adjusts the speed (RPM) down 80%. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

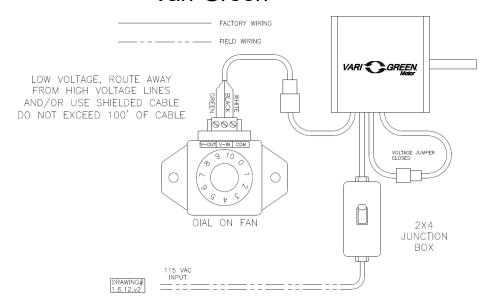
Motor Configuration

Input Voltage: 115
Speed Reference: 0-10VDC
Permanent Dial: No
Balance Dial Included: N/A

Control Configuration

Control Type: Dial on Fan Transformer: None

Vari-Green



Vertical Mount Exhaust Damper

Model: WD-330

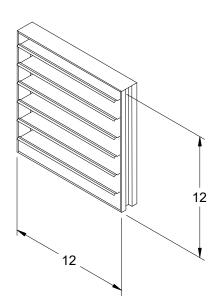
Standard Construction Features:

- Model WD-330 is a vertical mount exhaust damper and is constructed of galvanized steel with pre-punched mounting holes - Damper blades are 0.025 in. roll formed aluminum with vinyl seals on the closing edge - Steel axles are 0.188 in. diameter zinc plated steel - Nylon type bushings

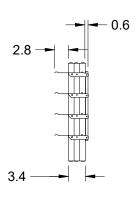
Damper Configuration:

Actuator Type: 115 VAC

End Switch: Yes







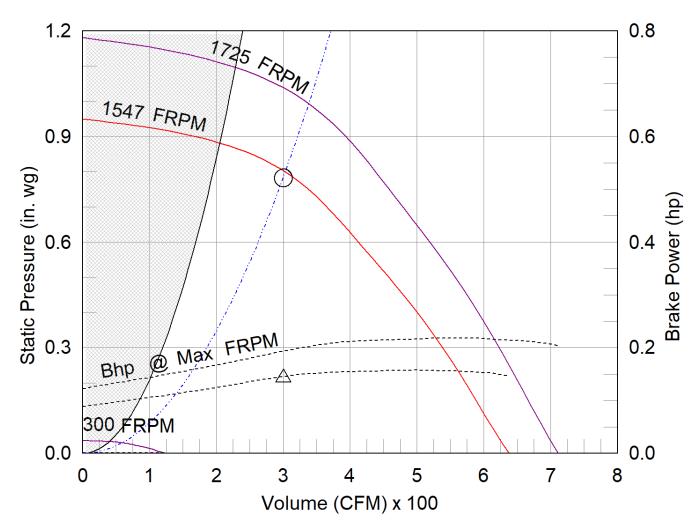
TYP. SECTION VIEW

SQ-98-VG

Min/Max Fan Curve

Performance

Requested Volume (CFM)	Actual Volume (CFM)	Total External SP (in. wg)	Fan RPM	Operating Power (hp)
300	300	0.782	1547	0.14



△ Operating Bhp point
 ○ Operating point at Total External SP
 ─ Construction Limit
 ─ Fan curve
 ─ Min FRPM
 ─ System curve
 ─ Brake horsepower curve

> Mark: SF-1 Model: SQ-98-VG

Warranty 1 Yr (Standard)

WARRANTY AND LIABILITY: SELLER warrants to Buyer that products manufactured are free from defects in material and workmanship for a period of 1 Yr (Standard) from the date of shipment. SELLER's obligations and liabilities under this warranty are limited to furnishing FOB factory or warehouse at SELLER's designated shipping point, freight allowed to Buyer's city, (or point of export for shipments outside the conterminous United States) replacement equipment (or at the option of SELLER parts therefore) for all Seller's products not conforming to this warranty and which have been returned to the manufacturer. No liability whatever shall attach to SELLER until said products have been paid for and such liability shall be strictly limited to the purchase price of the equipment shown to be defective. Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by SELLER prove defective during this period, they should be returned to the nearest authorized motor service station. SELLER will not be responsible for any removal or installation costs. Electrical components, excluding motors, are warranted only to the extent warranted by the original manufacturer. To the extent that SELLER is entitled to pass through a warranty of the original equipment manufacturer of the electrical goods sold, SELLER will pass through such warranties to Buyer. The legal remedies described in this Warranty are the sole exclusive remedy of Buyer. SELLER MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED, REGARDING ITS PRODUCTS, OR ITS SELECTION AND APPLICATION, INCLUDING, BUT NOT LIMITED TO, COMPLIANCE WITH BUILDING CODES, SAFETY CODES, LAWS, MERCHANTABILITY OR FITNESS OR A PARTICULAR PURPOSE. This warranty is extended solely to the Buyer. It is nontransferable and non-assignable, and the Buyer shall not permit or authorize its employees, agents, representatives or customers to claim, represent or imply that this limited warranty extends or is available to anyone other than the Buyer. ANY MISUSE, NEGLECT, FAILURE TO FOLLOW INSTRUCTIONS OR MANUALS OF INSTALLATION OF MAINTENANCE REPAIR, SERVICE, RELOCATION OR ALTERATION TO OR OF, OR OTHER TAMPERING WITH, THE PRODUCTS PERFORMED BY ANY PERSON OR ENTITY OTHER THAN SELLER WITHOUT SELLER'S PRIOR WRITTEN APPROVAL OR ANY USE OF REPLACEMENT PARTS NOT SUPPLIED BY SELLER, SHALL IMMEDIATELY VOID AND CANCEL ALL WARRANTIES WITH RESPECT TO THE AFFECTED PRODUCTS. THE WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESSED OR IMPLIED, IN LAW OR IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. SELLER PROVIDES NO INDEPENDENT WARRANTY FOR THIRD PARTY PRODUCTS OR COMPONENTS SOLD TOGETHER OR INCORPORATED WITH SELLER'S PRODUCT(S). THE SELLER HAS THE RIGHT TO SETTLE ANY AND ALL DISPUTES REGARDING THE WARRANTY.

Mark: SF-1

Model: SQ-98-VG

AMCA





AMCA Licensed for Sound and Air Performance Without Appurtenances (Accessories). Power rating (BHP/kW) does not include transmission losses.

Greenheck Fan Corporation certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP/kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The inlet sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type B: free inlet hemispherical sone levels. dBA levels are not licensed by AMCA International. The AMCA Certified Ratings Seal applies to inlet sone ratings only. Radiated (casing) sound data is the sound generated through the fan housing when the fan is ducted on both the inlet and outlet.

The AMCA licensed air and/or sound performance data has been modified for installation, appurtenances or accessories, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.

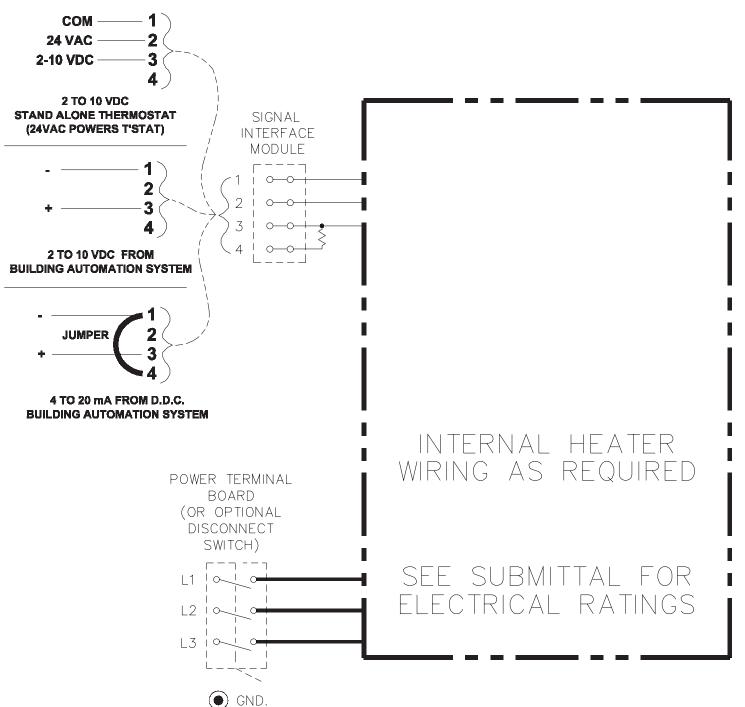


Filter Configuration:

_							
	ID #:	Tag:	Mark Qty:	Filter Type:	Filter W x L x H (in):	Qty of Filters:	Part Number (1 each):
	14	SF-1	1	2 inch Pleated Filters, MERV 8	14 X 25 X 2	1	456526

Notes: All dimensions shown are in units of in.

DIAGRAM GQ-310



3-PHASE
ELECTRICAL CONNECTIONS FOR
A DUCT HEATER WITH AN
ELECTRONIC STEP CONTROLLER,
SCR OR SCR VERNIER CONTROL.



OPTIONS FOR CONTROL

This print and the confidential business information which it contains are the property of Greenheck Fan Corporation of Schofield, WI. It is loaned for confidential use by recipient solely to further the business interests of Greenheck and is subject to return on request and with the mutual understanding that it will not be used in any manner detrimental to the interests of Greenheck.

Airflow Switch for Duct Heaters

Prevents heater from being energized when the fan is not on. Non adjustable airflow switch requires a minimum of .07 in. wc pressure.

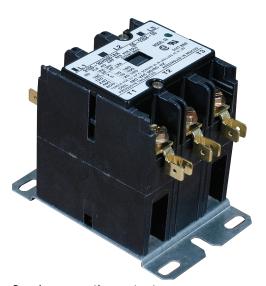


Magnetic Contactor

Magnetic contactors are standard in all duct heaters. They are used for primary or back-up control. UL approved for 250,000 cycle operation.



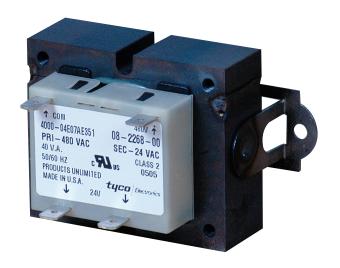
2 pole magnetic contactor



3 pole magnetic contactor

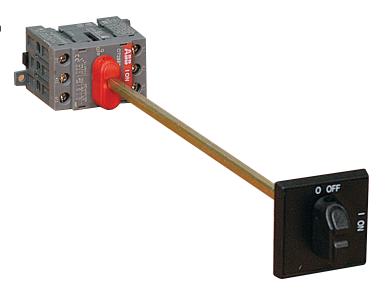
Control Transformer for Duct Heaters

Utilized when control voltage differs from line voltage. Primary over current protection. Class 1 units must have primary side protection by fusing. Class 2 units have internal protection and do not require additional fusing unless specified.



Disconnect Switches for Duct Heaters

Available unfused door interlocking disconnect switch (maximum 384 AMPS).





Solid State Relay (SCR or SSR)

Solid state relays (SCRs or SSR) provide the finest in electric duct heater control. 100% solid state stepless modulation. Noiseless. Power and heat output precision.

