Warren Technology
Tel: (305) 556-6933 • Fax: (305) 557-6157
Website: www.warrenhvac.com • E-mail: warren@warrenhvac.com

Duct Heater Quote Request Sheet

Company & Contact Details

Company Name:	
Contact Name:	
Email:	
Phone:	
Project Name/Ref:	

Project Specifications

Kilowatts (KW):	
Voltage / Phase / Hz:	
Control Voltage:	
How Many Stages/Steps?	
SCR Control	
Outside Duct Size (W×H or Ø):	
How Many Inches of Internal Lining?	
Fiber Board Duct?	
Airflow (CFM):	
Mounting Position (see page 2&3):	
Accessory Package (see below):	

Mount Options

SLIP-IN ☐

ROUND ☐

FLANGE ☐

Heater fusing and other accessory modifications will be automatically applied as required by UL standards.

Accessory Package A:

Contactor(s), Air-Flow Switch, Transformer.

Accessory Package B:

Contactor(s), Air-Flow Switch, Transformer, Door-Interlock Disconnect Switch.

Accessory Package C:

Contactor(s), Air-Flow Switch, Transformer, Door-Interlock Disconnect Switch, SCR Controls.

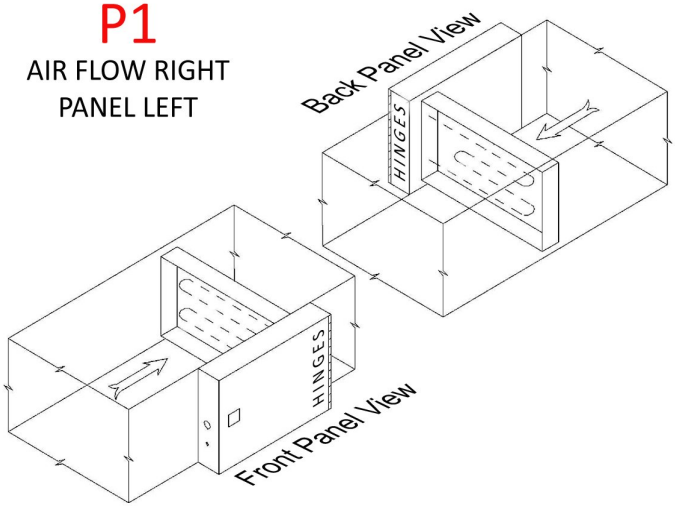
With Wall Thermostat ☐ With Duct Thermostat ☐ With Remote Signal 0-10vdc ☐ 4-20mil ☐ Other ☐

If Other, Specify:	

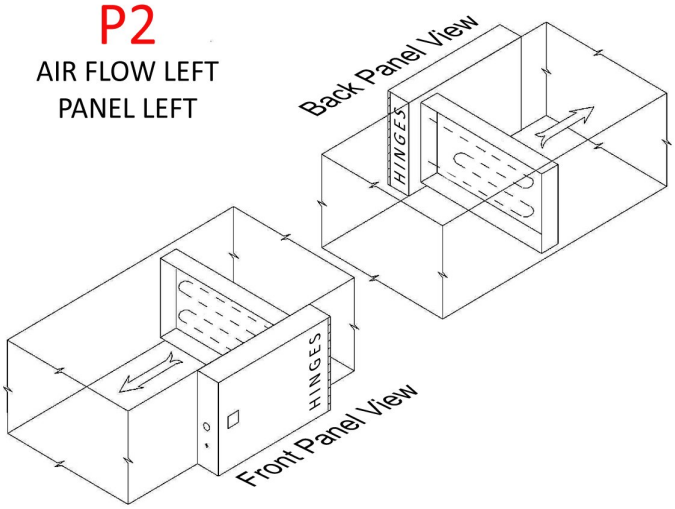
Accessory Package Extras / Special Instructions / Comments:

HORIZONTAL MOUNTING POSITIONS

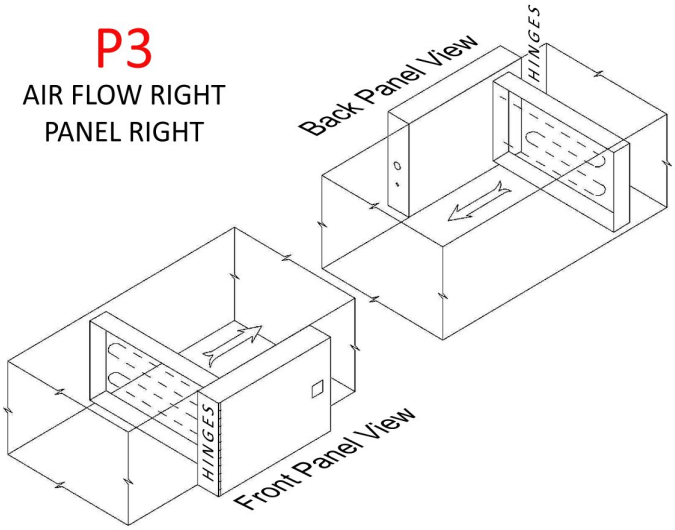
P1
AIR FLOW RIGHT
PANEL LEFT



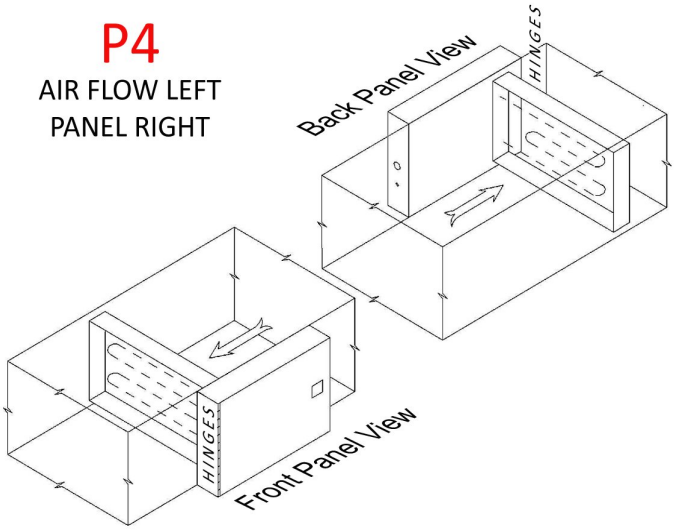
P2
AIR FLOW LEFT
PANEL LEFT



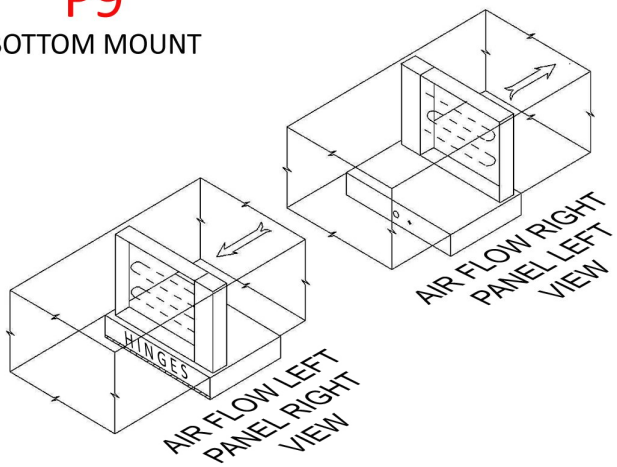
P3
AIR FLOW RIGHT
PANEL RIGHT



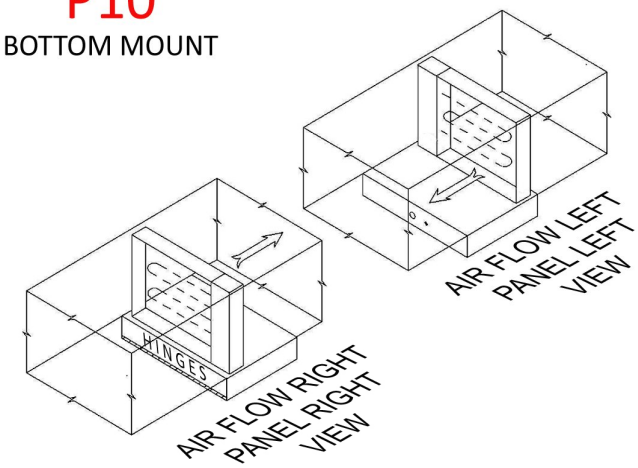
P4
AIR FLOW LEFT
PANEL RIGHT



P9
BOTTOM MOUNT



P10
BOTTOM MOUNT



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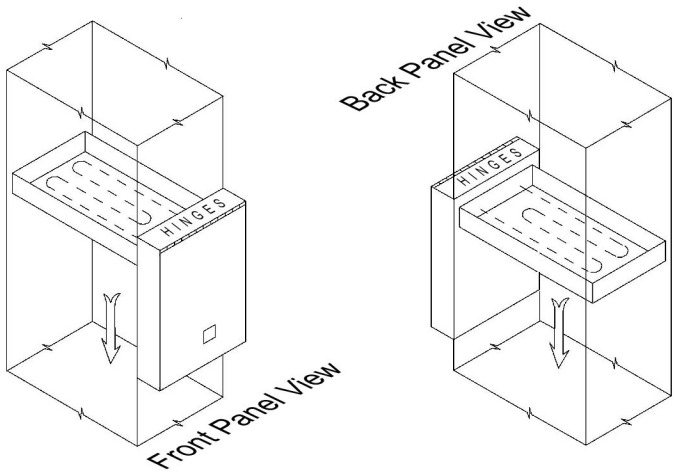
VERTICAL MOUNTING POSITIONS

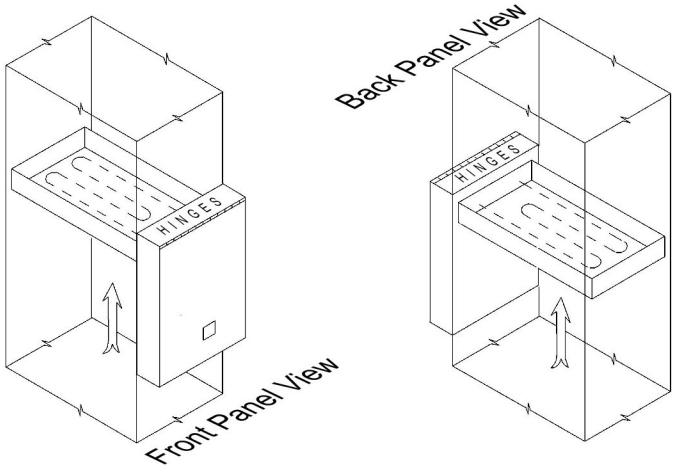
P5

AIR FLOW DOWN
PANEL DOWN



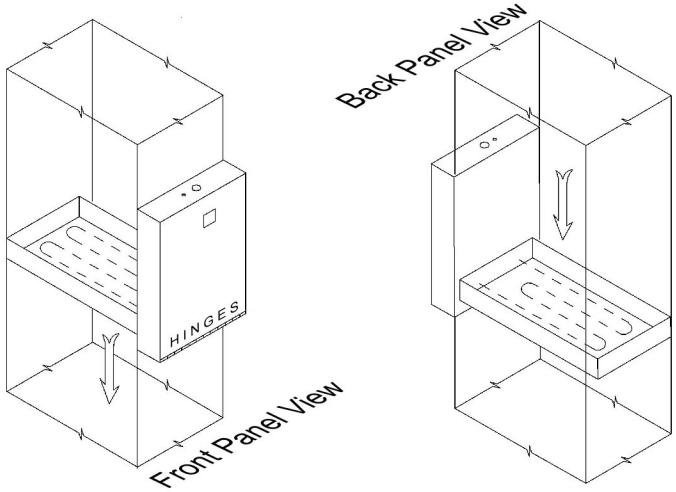
P6

AIR FLOW UP
PANEL DOWN



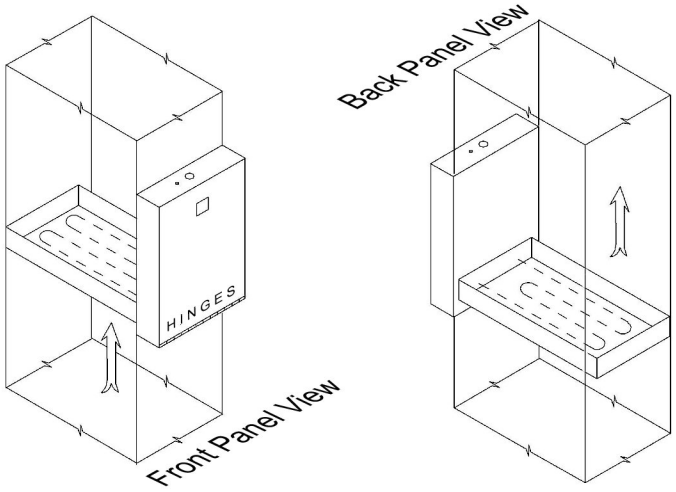
P7

AIR FLOW DOWN
PANEL UP



P8

AIR FLOW UP
PANEL UP



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ENGINEERING DATA

The following load calculations and recommended operating ranges are based on standard 75ºF entering air (comforting heating). Consult factory for other applications.

1.	Conversion:	1 KW =	3413 B.T.U.
2.	Load Requirement:	KW =	(cubic Feet per Min. x Temperature Rise) / 3160
3.	Ohm's Law:	Watts =	$(Volts)^2$ / Resistance = Volts x Amps
4.	Line Current, 1 phase:	Amps =	Watts / Volts
5.	Line Current, 3 phase:	Amps =	Watts / (Volts x 1.73)
6.	Pressure Drop:	Inches	H_2O = [(KW / ft^2) / 760] x [(velocity in f.p.m.) / 500] ^{2}
7.	C.F.M. / F.P.M. Velocity Relationship	VEL./F.P.M. =	C.F.M. / (Duct Area/$Ft.^2$)
8.	KW per square foot:	KW / sq. ft =	KW / [(Duct width {inches} x Duct height {inches}) / 144]

HEAT-VELOCITY RELATIONSHIP

The following graph shows the recommended ranges for combinations of heat and velocity, which will result in safe operating temperatures.