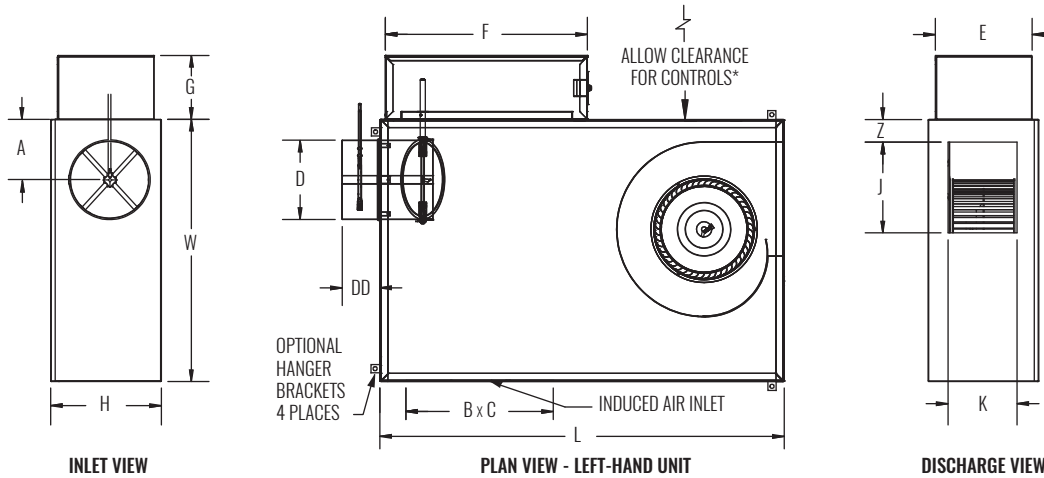


DIMENSIONAL DATA | BASE UNIT | SIZES 1, 2, 3, 5



* Check NEC for unit clearance requirements.

UNIT SIZE	INLET SIZE	PSC MOTOR	ECM MOTOR	L	W	H	A	INDUCED AIR INLET		D	DD	CONTROL ENCLOSURE			DISCHARGE		Z
		HP	HP					B	C			E	F	G	J	K	
1	04	N/A	1/3	48"	32"	8 5/8"	5"	18"	6 3/4"	3 7/8"	6 7/8"	8 1/8"	32 1/8"	8 1/8"	10"	5 7/8"	2"
	05									4 7/8"	6 7/8"						
	06									5 7/8"	4 7/8"						
	07									6 7/8"	4 7/8"						
2	06	N/A	1/3	48"	32"	9 1/2"	5"	18"	6"	5 7/8"	4 7/8"	8 1/8"	32 1/8"	8 1/8"	10"	5 7/8"	2"
	08						6"			7 7/8"	4 7/8"						
3	08	1/4	1/3	40"	26"	11"	5"	14 5/8"	9"	7 7/8"	4 7/8"	9 5/8"	20"	6 1/4"	9"	6 7/8"	2 1/4"
	10						6"			9 7/8"	4 7/8"						
5	08	1/2	1/2	46"	36"	17"	6"	17"	14"	7 7/8"	4 7/8"	12"	20"	6 1/4"	10"	10 5/8"	6 1/4"
	10						7"			9 7/8"	4 7/8"						
	12						8"			11 7/8"	6 7/8"						
	14						10"			13 7/8"	6 7/8"						

NOTE: Left-hand base unit with electronic control enclosure shown; right-hand is available.

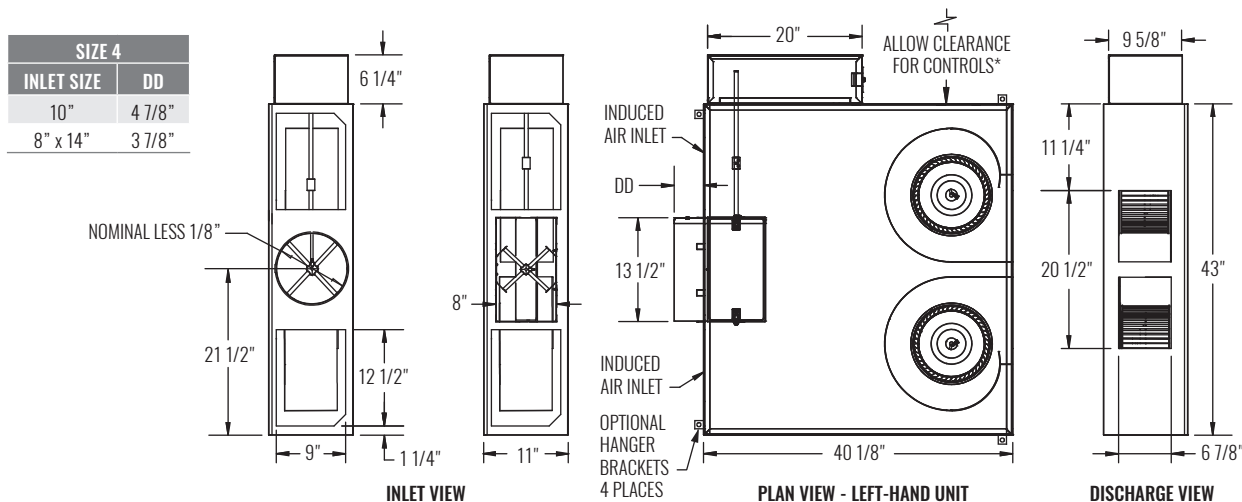
STANDARD FEATURES

- 20 gage galvanized steel casing construction
- Available heights for unit size 1 (8 5/8"), unit size 2 (9 1/2"), unit size 3 (11"), and unit size 5 (17")
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors (unit size 3 and 5 only)
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Four quadrant, center averaging airflow sensor
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- Liners: 1/2" or 1" Cellular insulation, 1/2" or 1" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall. *NOTE: 1" Thick liner options available on unit size 5 only.*
- Linear averaging airflow sensor
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Left-hand or right-hand control enclosure
- Motor toggle disconnect switch
- Motor fusing
- Induced air filter, construction type; unit size 1 (18 7/8"x7 1/2"x1"), unit size 2 (19"x8 5/8"x1"), unit size 3 (17"x11"x1"), and unit size 5 (19"x16 1/2"x1")
- Dust tight control enclosure
- Hanger brackets
- Dual access panels with optional Cam locks

DIMENSIONAL DATA | BASE UNIT | SIZE 4



* Check NEC for unit clearance requirements.

NOTE: Left-hand base unit with electronic control enclosure shown; right-hand is available.

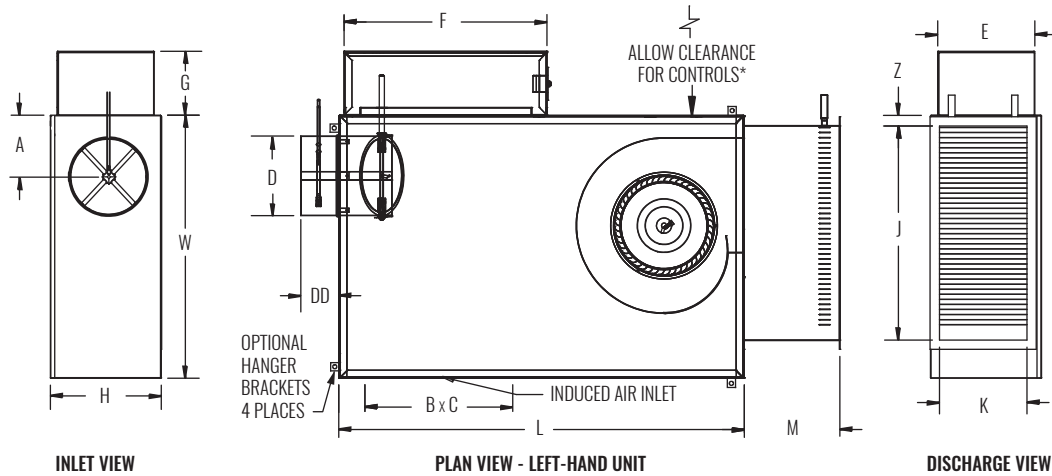
STANDARD FEATURES

- 20 gage galvanized steel casing construction
- Height is 11"
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Four quadrant, center averaging airflow sensor
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- Liners: 1/2" Cellular insulation, 1/2" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall
- Linear averaging airflow sensor
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Left-hand or right-hand control enclosure
- Motor toggle disconnect switch
- Motor fusing
- Induced air filter, construction type (15"x11"x1"), quantity 2
- Dust tight control enclosure
- Hanger brackets
- Dual access panels with optional Cam locks, quantity 2

DIMENSIONAL DATA | BASE UNIT WITH HOT WATER HEAT | SIZES 1, 2, 3, 5



* Check NEC for unit clearance requirements.

UNIT SIZE	INLET SIZE	PSC MOTOR	ECM MOTOR	L	W	H	A	INDUCED AIR INLET		D	DD	CONTROL ENCLOSURE			DISCHARGE		M	Z
		HP	HP					B	C			E	F	G	J	K		
1	04	N/A	1/3	48"	32"	8 5/8"	5"	18"	6 3/4"	3 7/8"	6 7/8"	8 1/8"	32 1/8"	8 1/8"	20 1/2"	7 5/8"	9 1/2"	1 1/2"
	05									4 7/8"	6 7/8"							
	06									5 7/8"	4 7/8"							
	07									6 7/8"	4 7/8"							
2	06	N/A	1/3	48"	32"	9 1/2"	5"	18"	6"	5 7/8"	4 7/8"	8 1/8"	32 1/8"	8 1/8"	20 1/2"	7 5/8"	9 1/2"	1 1/2"
	08						6"			7 7/8"	4 7/8"							
3	08	1/4	1/3	40"	26"	11"	5"	14 5/8"	9"	7 7/8"	4 7/8"	9 5/8"	20"	6 1/4"	21 7/8"	8 3/4"	9 1/2"	1"
	10						6"			9 7/8"	4 7/8"							
5	08	1/2	1/2	46"	36"	17"	6"	17"	14"	7 7/8"	4 7/8"	12"	20"	6 1/4"	22"	15"	9 3/16"	2 1/4"
	10						7"			9 7/8"	4 7/8"							
	12						8"			11 7/8"	6 7/8"							
	14						10"			13 7/8"	6 7/8"							

NOTE: Left-hand base unit with electronic control enclosure shown; right-hand is available.

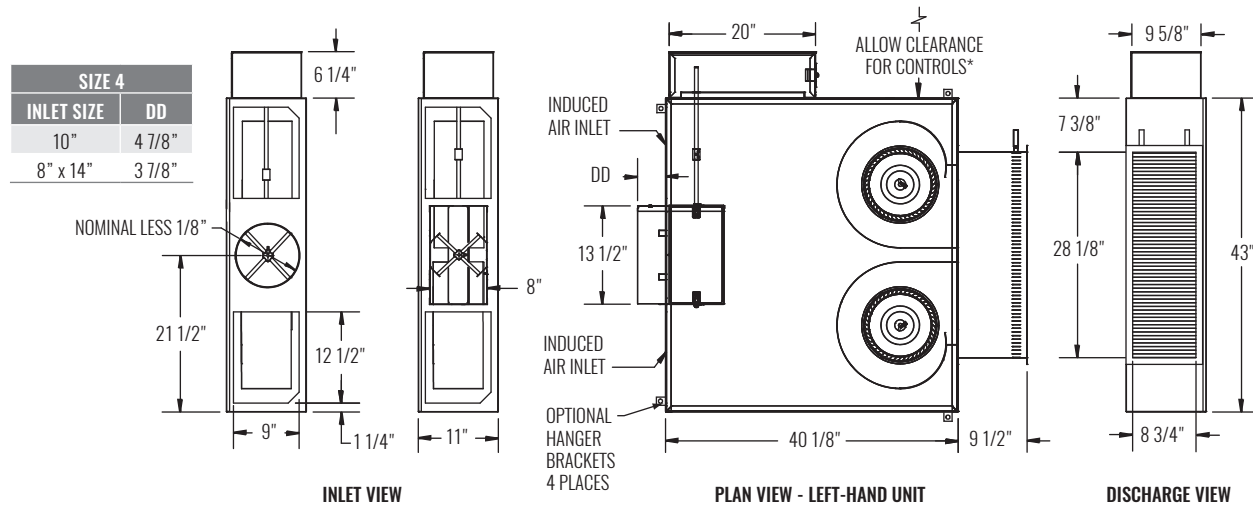
STANDARD FEATURES

- 20 Gage galvanized steel casing construction
- Available heights for unit size 1 (8 5/8"), unit size 2 (9 1/2"), unit size 3 (11"), and unit size 5 (17").
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors (unit size 3 and 5 only)
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Flanged discharge connection on hot water coil
- Four quadrant center averaging airflow sensor
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- Liners: 1/2" or 1" Cellular insulation, 1/2" or 1" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall. *NOTE: 1" thick liner options are available on unit size 5 only.*
- Linear averaging airflow sensor
- Left-hand or right-hand hot water coil connections
- Left-hand or right-hand control enclosure
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Motor toggle disconnect switch
- Motor fusing
- Induced air filter, construction type; unit size 1 (18 7/8"x7 1/2"x1"), unit size 2 (19"x8 5/8"x1"), unit size 3 (17"x11"x1"), and unit size 5 (19"x16 1/2"x1")
- Dust tight control enclosure
- Hanger brackets
- Dual access panels with optional Cam locks

DIMENSIONAL DATA | BASE UNIT WITH HOT WATER HEAT | SIZE 4



* Check NEC for unit clearance requirements.

NOTE: Left-hand base unit with electronic control enclosure shown; right-hand is available.

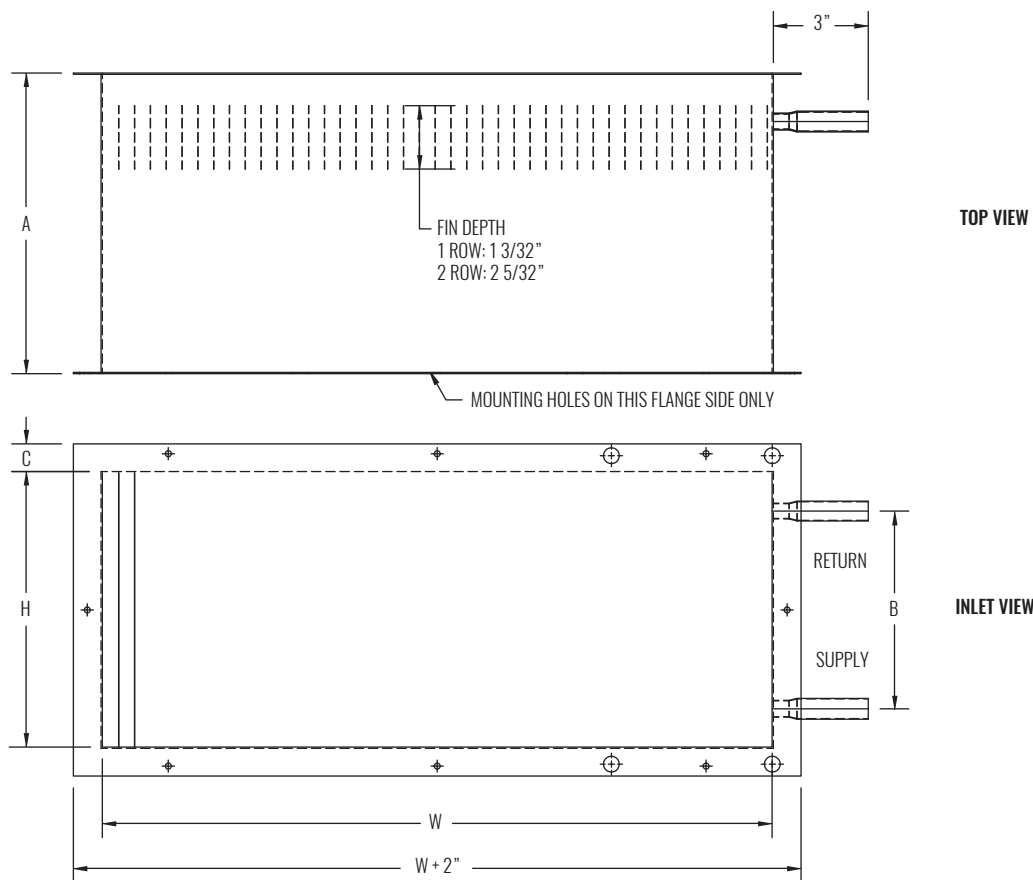
STANDARD FEATURES

- 20 Gage galvanized steel casing construction
- Height is 11"
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Flanged discharge connection on hot water coil
- Four quadrant center averaging airflow sensor
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- Liners: 1/2" Cellular insulation, 1/2" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall
- Linear averaging airflow sensor
- Left-hand or right-hand hot water coil connections
- Left-hand or right-hand control enclosure
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Motor toggle disconnect switch
- Motor fusing
- Induced air filter, construction type (15"x11"x1"), quantity 2
- Dust tight control enclosure
- Hanger brackets
- Dual access panels with optional Cam locks

DIMENSIONAL DATA | HEATING COIL



UNIT SIZE	NUMBER OF ROWS	W	H	A	B	C
1, 2	1	20 1/2"	6 5/8"	9 1/2"	4 9/16"	1/2" *
	2					
3	1	21 1/8"	8 3/4"	9 1/2"	6 1/4"	7/8"
	2					
4	1	28 1/8"	8 3/4"	9 1/2"	6 1/4"	7/8"
	2					
5	1	22"	15"	8"	14"	1/2"
	2			9 3/16"	13 3/4"	

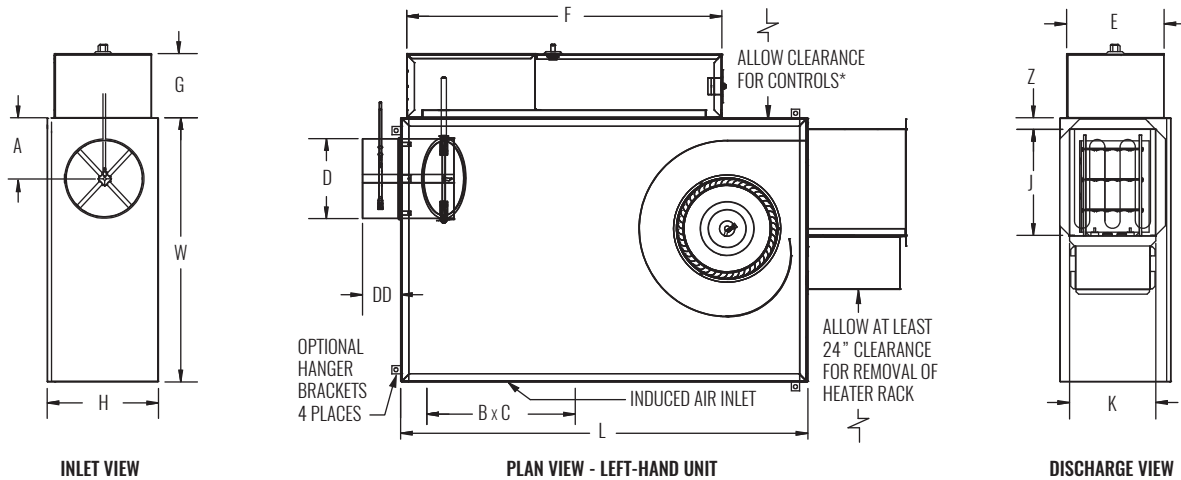
NOTE: For hot water performance data tables, visit the Krueger website at www.krueger-hvac.com or download the Krueger selection software to run customized selections. The selection program can provide performance data with different entering air and water conditions as well as show effects of altitude and glycol on the heating performance of the water coil. The selection software also allows selections to be saved in a schedule format that can be imported onto a set of project drawings.

NOTE: The top and bottom flange on the unit size 1 and 2 hot water coils turn inward.

STANDARD FEATURES

- KLPS coils are shipped from the factory attached to the unit discharge
- Hot water coils are configured for a flanged ductwork connection; coil section is uninsulated
- Coils are not for steam applications
- Contact your Krueger Representative for high capacity or steam coil information
- Connection Tubing: 1/2" O. D. male solder
- Coil Casing: 20 gage galvanized steel
- Coil Tubing: 1/2" O. D. x 0.016" thick copper
- Coil Fins: 0.0045" thick aluminum, 10 per inch; mechanically bonded to tubing

DIMENSIONAL DATA | BASE UNIT WITH ELECTRIC HEAT | SIZES 1, 2, 3, 5



* Check NEC for unit clearance requirements.

UNIT SIZE	INLET SIZE	PSC MOTOR	ECM MOTOR	L	W	H	A	INDUCED AIR INLET		D	DD	CONTROL ENCLOSURE			DISCHARGE		Z
		HP	HP					B	C			E	F	G	J	K	
1	04	N/A	1/3	48"	32"	8 5/8"	5"	18"	6 3/4"	3 7/8"	6 7/8"	8 1/8"	32 1/8"	8 1/8"	10 1/2"	7 3/4"	1 1/8"
	05									4 7/8"	6 7/8"						
	06									5 7/8"	4 7/8"						
	07									6 7/8"	4 7/8"						
2	06	N/A	1/3	48"	32"	9 1/2"	5"	18"	6 3/4"	5 7/8"	4 7/8"	8 1/8"	32 1/8"	8 1/8"	10 1/2"	7 3/4"	1 1/8"
	08						6"			7 7/8"	4 7/8"						
3	08	1/4	1/3	40"	26"	11"	5"	14 5/8"	9"	7 7/8"	4 7/8"	9 5/8"	31"	6 1/4"	10 1/2"	8 1/2"	1 1/8"
	10						6"			9 7/8"	4 7/8"						
5	08	1/2	1/2	46"	36"	17"	6"	17"	14"	7 7/8"	4 7/8"	12"	31"	6 1/4"	14 1/2"	13"	6 1/4"
	10						7"			9 7/8"	4 7/8"						
	12						8"			11 7/8"	6 7/8"						
	14						10"			13 7/8"	6 7/8"						

NOTES: Left-hand base unit with electronic control enclosure shown; right-hand is available. See page B2-107 for electric heat standard features.

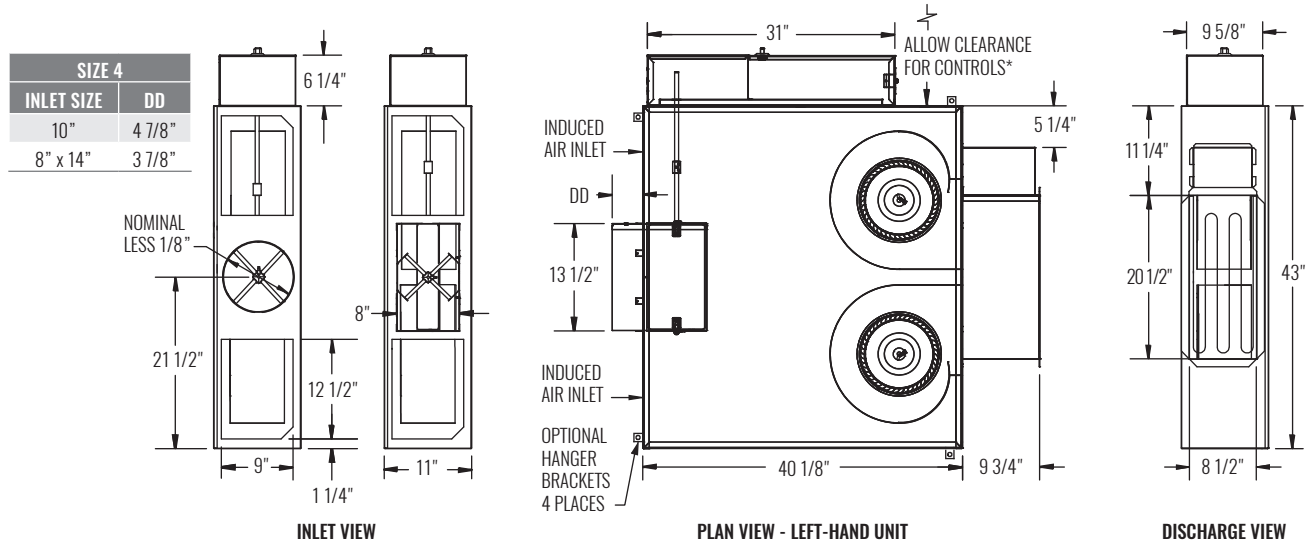
STANDARD FEATURES

- 20 Gage galvanized steel casing construction
- Available heights for unit size 1 (8 5/8"), unit size 2 (9 1/2"), unit size 3 (11"), and unit size 5 (17")
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors (unit size 3 and 5 only)
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Four quadrant, center averaging airflow sensor
- Flanged discharge connection on electric heat coil
- Single point electrical connection
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- Liners: 1/2" or 1" Cellular insulation, 1/2" or 1" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall. *NOTE: 1" thick liner options are available on unit size 5 only.*
- Linear averaging airflow sensor
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Left-hand or right-hand control enclosure
- LineaHeat solid state electronic controlled heater with or without leaving air temperature control
- Fused or non-fused door interlocking disconnect
- Induced air filter, construction type; unit size 1 (18 7/8"x7 1/2"x1"), unit size 2 (19"x8 5/8"x1"), unit size 3 (17"x11"x1"), and unit size 5 (19"x16 1/2"x1")
- Dual access panels with optional Cam locks
- Dust tight control enclosure
- Motor fusing
- Manual reset cutout
- Hanger brackets
- AC solid state relays
- Fuse-block

DIMENSIONAL DATA | BASE UNIT WITH ELECTRIC HEAT | SIZE 4



* Check NEC for unit clearance requirements.

NOTES: Left-hand base unit with electronic control enclosure shown; right-hand is available. See next page for electric heat standard features.

STANDARD FEATURES

- 20 Gage galvanized steel casing construction
- Height is 11"
- Control enclosure for electronic components
- 1/2" Thick, Dual density fiberglass insulation that meets NFPA 90A and UL 181 safety requirements
- [120, 208/240, or 277 volt, single-voltage, 1-phase, single-speed] permanently lubricated PSC motors
- Field adjustable fan speed control
- Removable bottom panel allows easy access to all internal components for maintenance
- Four quadrant, center averaging airflow sensor
- Flanged discharge connection on electric heat coil
- Single point electrical connection
- Includes 24 volt control transformer
- ETL listed; adherence to UL 60335-2-40 and CSA C22.2 No. 60335-2-40
- AHRI certified sound ratings

OPTIONAL FEATURES

- LineaHeat solid state electronic controlled heater with or without leaving air temperature control
- Liners: 1/2" Cellular insulation, 1/2" Foil encapsulated fiberglass insulation, Sterilwall, or Perforated doublewall
- Linear averaging airflow sensor
- [120, 208/240, or 277 volt, single-voltage] ECM motor with manual or remote adjustable speed controller
- Left-hand or right-hand control enclosure
- Fused or non-fused door interlocking disconnect
- Induced air filter, construction type (15"x11"x1")
- Dust tight control enclosure
- Hanger brackets
- Motor fusing
- AC solid state relays
- Manual reset cutout
- Fuse-block
- Dual access panels with optional Cam locks

ELECTRIC HEAT FEATURES & CAPACITIES

The kW charts below indicate the maximum and minimum safe limit capacities for each of the KLPS units and has been specifically designed for Krueger fan powered terminals. For safe operation, the electric heater controls are interlocked with the airflow proving switch to allow the heater to energize only after the fan is running. Each terminal unit has been tested by ETL in accordance with UL standards.

ELECTRIC HEAT STANDARD FEATURES

- 20 Gage galvanized steel casing construction.
- Line voltage combinations:
[120, 208/240, or 277 volt, 1-phase]
[208 volt, 3-phase, 3-wire] [480 volt, 3-phase, 4-wire]
- NEMA 2 electric heat control enclosure.
- Flanged discharge for field duct connection.
- Single point connection between the heater and the fan motor (see combinations below).
- 80/20 Ni-Cr heating elements.
- Automatic reset thermal cutout.
- Magnetic contactors.
- Positive pressure airflow switch.

NOTE: A minimum of 0.1" w.g. downstream static pressure is required in the duct to ensure proper heater operation.

OPTIONAL HEATER CONTROL

- LineaHeat solid state electronic proportional control of electric heat is available with or without leaving air temperature control. See Krueger's Terminal Unit Engineering section for additional information.
- AC solid state relays offer silent operation for staged electric heat.

SINGLE POINT CONNECTION COMBINATIONS ELECTRIC HEATER/FAN MOTOR

- [120, 208/240 or 277 volt, 1-phase] electric heat includes fan motor wired with same line voltage.
- [208 volt, 3-phase, 3-wire] electric heat utilizes a 208/240 volt, 1-phase fan motor.
- [480 volt, 3-phase, 4-wire] electric heat is equipped with 277 volt, 1-phase fan motor.

$$kW = \frac{CFM \times \Delta T (^{\circ}F)}{3160}$$

CALCULATING ELECTRIC HEATER AMPERES

$$1\text{-Phase Amperes} = \frac{\text{Watts}}{\text{Line Voltage}}$$

$$3\text{-Phase Amperes} = \frac{\text{Watts}}{\text{Line Voltage} \times 1.73}$$

NOTES: When selecting electric heaters, do not exceed 120°F discharge air temperature, per NEC. The ASHRAE Handbook of Fundamentals states that discharge temperatures in excess of 90°F are likely to result in objectionable air temperature stratification in the space. Also, ventilation short circuiting may occur. ASHRAE Standard 62 now limits discharge temperatures to 90°F or increasing the ventilation rate when heating from the ceiling.

MAXIMUM kW

VOLTAGE / PHASE	PSC MOTOR					EC MOTOR				
	UNIT SIZE 1	UNIT SIZE 2	UNIT SIZE 3	UNIT SIZE 4	UNIT SIZE 5	UNIT SIZE 1	UNIT SIZE 2	UNIT SIZE 3	UNIT SIZE 4	UNIT SIZE 5
	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
120v / 1Ph	N/A	N/A	5.0	4.5	4.5	5.0	5.0	5.0	4.5	4.5
208v / 1Ph	N/A	N/A	9.0	9.0	9.0	9.0	9.0	9.0	8.5	9.0
240v / 1Ph	N/A	N/A	9.5	10.5	10.5	9.5	9.5	9.5	10.0	10.0
277v / 1Ph	N/A	N/A	11.0	12.5	12.0	10.5	11.0	11.0	11.5	12.0
208v / 3Ph	N/A	N/A	11.5	15.0	16.0	9.5	11.5	11.5	15.0	15.0
480v / 3Ph	N/A	N/A	11.0	15.0	20.0	10.5	11.0	13.0	18.0	20.0

NOTES: Maximum values apply to staged heaters only. Contact your local Krueger representative for LineaHeat limits.