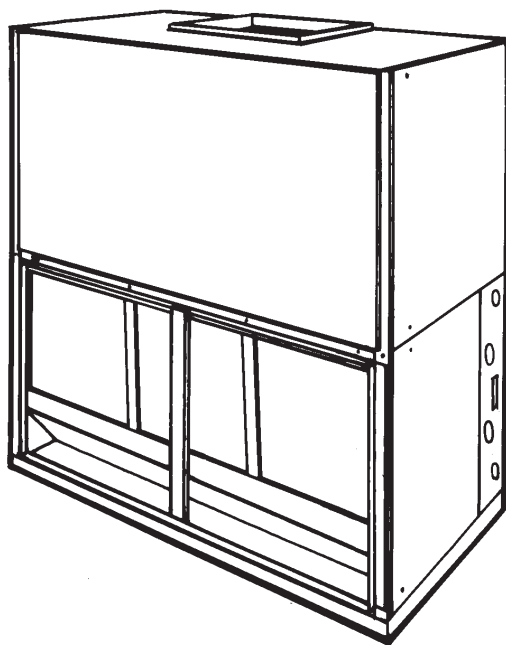




SPLIT-SYSTEM EVAPORATOR BLOWER

K3EU180
15 NOMINAL TONS

SUNLINE 2000™
(WORLD 50 HZ)



DESCRIPTION

This completely assembled unit includes a well-insulated cabinet, a DX coil with copper tubes and aluminum fins, an expansion valve, a distributor, throwaway filters, a centrifugal blower, a blower motor, an adjustable belt drive, a blower motor contactor and a small holding charge of refrigerant-22. The unit is manufactured under ISO 9002 Quality System Certification.

The unit is shipped in the vertical position ready for field installation. It can be installed for horizontal operation by reversing the position of the solid bottom panel with the return air duct flange on the front on the unit.

ACCESSORIES - FIELD INSTALLED

SUPPLY AIR PLENUM - A fully insulated plenum is available for free standing units located within the conditioned space. It is shipped knocked down for easy field assembly, is finished to match the exterior of the basic unit, and has double deflection grilles that can be adjusted to vary the throw, spread and drop of the supply air.

RETURN AIR GRILLE - An expanded metal grille is available for free standing units located within the conditioned space. It is finished to match the exterior of the basic unit and is shipped in one piece for easy installation.

BASE - A base is available to raise vertical units above the floor. Outdoor air may be introduced through the base by cutting an access opening to accommodate the outdoor air duct connection. The base is finished to match the exterior of the basic unit. It may have to be insulated in the field for certain applications.

THREE-PHASE ELECTRIC HEATERS - Electric heaters are available in four capacities to provide maximum flexibility. Both the air conditioning unit and the heater can be selected to precisely match the cooling and heating requirements of the

conditioned space. These heaters are designed for easy field-installation over the supply air opening of the unit. Every heater is fully protected against excessive current and temperature by fuses and two high limit thermostats.

Units with electric heat require only one power supply for both the heating elements and the supply air blower motor. The power wiring can be protected by either dual element/time delay fuses or an inverse time circuit breaker.

HOT WATER COIL - This drainable coil has two rows of 13mm ($\frac{1}{2}$ in.) copper tubes, eight aluminum fins per 25mm (1 in.), a casing that is finished to match the exterior of the basic unit, but no water control valve. The coil slides out of the casing for easy field installation. It should be mounted between the unit coil and blower section.

STEAM COIL - The non-freeze coil has one row of 25mm (1 in.) copper tubes, a 16mm ($\frac{5}{8}$ in.) copper tube inside each 25mm (1 in.) tube to distribute the steam evenly across the entire length of the coil, eight aluminum fins per 25mm (1 in.), a casing finished to match the exterior of the basic unit, but no steam control valve. The coil slides out of the casing for easy field installation and is pitched in the casing to facilitate condensate drainage. It should be mounted between the unit coil and blower sections.

SUSPENSION KIT - Suspension kit 1HH0451 is available for units installed horizontally. The accessory includes two channel iron supports and the hardware to secure them to the top of the unit. The hanger rods must be supplied by the field.

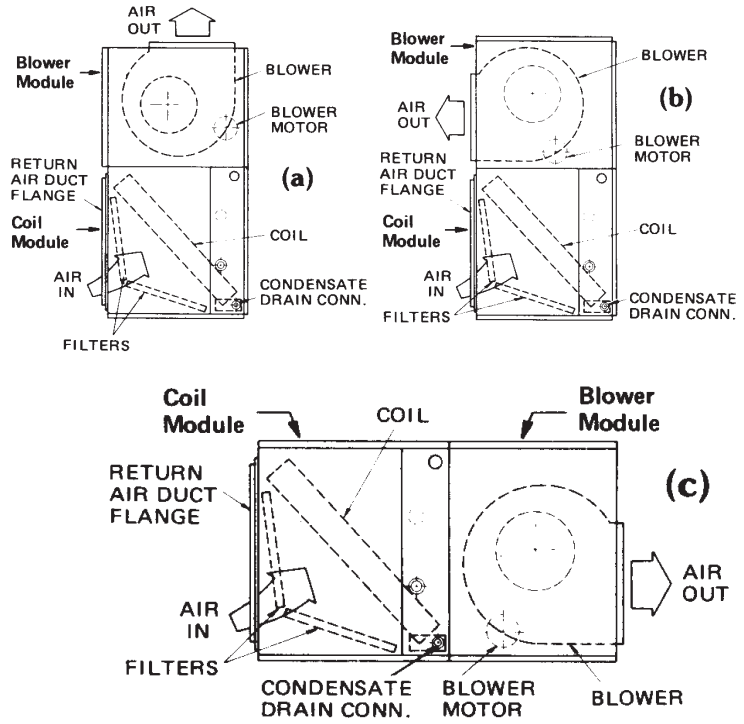
THERMOSTATS - Wall-mounted thermostats and subbases (24volt) with system and fan switches are available to control the operation of these split system air conditioners.

This unit has two distinct modules, a blower module and a coil module. The unit is always shipped in the vertical position with a vertical air discharge as shown in illustration (a). The blower module can be repositioned in the field as shown in illustration (b) or (c) for maximum flexibility.

The Supply Air Plenum, Return Air Grille and Base accessories can be applied on arrangement (a).

The Return Air Grille and Base accessories can be applied on arrangement (b).

The Supply Air Plenum, Return Air Grille and Suspension accessories can be applied on arrangement (c).



HEATING CAPACITY - ELECTRIC HEAT ACCESSORY

Heater Model	UL Test Voltage	Nominal Ratings ¹		Capacity ¹			
				Per Stage 1		Per Stage 2	
		kW	Mbh	kW	Mbh	kW	Mbh
2HS04501050	415	7.5	25.6	7.5	25.6	-	-
2HS04501650	415	12.0	40.9	7.5	25.6	4.5	15.3
2HS04502650	415	19.4	66.5	12.0	40.9	7.5	25.6
2HS04503650	415	26.9	91.9	12.0	40.9	15.0	51.1

¹ Capacity ratings do not include the heat generated by the supply air blower motor.

² For 380 volts, multiply the mbh and kw values by $(380/415)^2$ or 0.838.

STEAM COIL CAPACITY¹, kW @ 14 kPa/Mbh @ 2 psig²

Steam Coil Model	Blower Model Used On	m ³ /s / CFM	Dry Bulb Temperature of Air Entering Coil, °C/°F			
			-12 / 10	-1 / 30	10 / 50	21 / 70
1NF0452	KEU180	2.3 / 4800	298.2 / 1018	268.4 / 916	236.7 / 808	211.5 / 722
		2.8 / 6000	329.1 / 1124	297.0 / 1014	265.6 / 907	234.1 / 799
		3.4 / 7200	356.4 / 1216	321.8 / 1099	287.9 / 983	254.0 / 867

¹ These capacities do not include any blower motor heat.

² Multiply these capacities by the following factors to correct for higher steam pressures

Steam pressure, kPa/psig	35 / 5	70 / 10	105 / 15	140 / 20	210 / 30
Capacity correction factor	1.06	1.12	1.19	1.25	1.30

NOTE: Steam rate (kg/hr) = 0.66 x kW
(lb/hr) = 1.025xMbh

CAUTION: Do not operate a motor above its nominal HP rating when a unit is equipped with a steam coil accessory

HOT WATER COIL CAPACITY¹, kW/Mbh

Water Coil Model	Blower Model Used On	l/s / GPM	m ³ /s / CFM	Entering Water Temperature Minus Entering Air Temperature, °C/°F				
				21 / 70	32 / 90	43 / 110	54 / 130	66 / 150
1HW0451	KEU180	0.95 / 15	2.3 / 4800	135.5 / 463	175.1 / 598	215.8 / 737	257.4 / 879	294.1 / 1004
			2.8 / 6000	150.0 / 512	195.0 / 666	240.3 / 820	285.9 / 976	326.6 / 1115
			3.4 / 7200	162.4 / 554	210.8 / 720	260.4 / 889	309.8 / 1058	354.3 / 1210

¹ These capacities do not include any blower motor heat.

NOTE: Water Temperature Drop, °C = $16.71 \times \frac{kW}{l/s}$
°F = $2 \times \frac{Mbh}{GPM}$

CAUTION: Do NOT operate a motor above its nominal HP rating when a unit is equipped with a hot water coil accessory.

PRESSURE DROP VS L/S / GPM

1HW0450	l/s / GPM	0.63 / 10 /	1.26 / 20	1.90 / 30
	Pressure Drop, kPa / psig/	0.7 / 0.10	2.2 / 0.32	4.7 / 0.67
1HW0451	l/s / GPM	0.95 / 15	1.90 / 30	2.83 / 45
	Pressure Drop, kPa / psig	1.2 / 0.17	4.0 / 0.58	8.5 / 1.22

Meters (H₂O) = 45,942 x kPa
Feet (H₂O) = 2031 x psi

CAPACITY CORRECTION VS L/S / GPM

1HW0450	l/s / GPM	1.26 / 20	1.90 / 30
	Capacity Correction	1.12	1.15
1HW0451	GPM	1.90 / 30	2.83 / 45
	Capacity Correction	1.11	1.15

SUPPLY AIR BLOWER PERFORMANCE

SUPPLY AIR BLOWER PERFORMANCE ¹ - (m ³ /s)															
BLOWER SPEED RPM	AIRFLOW														
	ESP ² (Pa)	OUTPUT (kW)	INPUT (kW)	ESP ² (Pa)	OUTPUT (kW)	INPUT (kW)	ESP ² (Pa)	OUTPUT (kW)	INPUT (kW)	ESP ² (Pa)	OUTPUT (kW)	INPUT (kW)	ESP ² (Pa)	OUTPUT (kW)	INPUT (kW)
	2.26 m ³ /s			2.55 m ³ /s			2.83 m ³ /s			3.11 m ³ /s			3.40 m ³ /s		
600	114	1.07	1.34	74	1.25	1.56	27	1.46	1.80	-	-	-	-	-	-
615	136	1.15	1.43	99	1.33	1.64	55	1.55	1.90	3	1.08	2.20	-	-	-
700	208	1.36	1.68	174	1.58	1.94	134	1.81	2.22	89	2.06	2.54	30	2.32	2.82
800	312	1.77	2.17	285	2.01	2.47	248	2.26	2.74	206	2.51	3.05	154	2.79	-
900	422	2.20	2.68	404	2.46	2.99	311	2.73	-	-	-	-	-	-	-

SUPPLY AIR BLOWER PERFORMANCE ¹ - (CFM)															
BLOWER SPEED RPM	AIRFLOW														
	ESP ² (IWG)	OUTPUT (BHP)	INPUT (kW)	ESP ² (IWG)	OUTPUT (BHP)	INPUT (kW)	ESP ² (IWG)	OUTPUT (BHP)	INPUT (kW)	ESP ² (IWG)	OUTPUT (BHP)	INPUT (kW)	ESP ² (IWG)	OUTPUT (BHP)	INPUT (kW)
	4800 CFM			5400 CFM			6000 CFM			6600 CFM			7200 CFM		
600	0.46	1.44	1.34	0.30	1.68	1.56	0.11	1.96	1.80	-	-	-	-	-	-
615	0.55	1.54	1.43	0.40	1.79	1.64	0.22	2.08	1.90	0.01	2.41	2.20	-	-	-
700	0.84	1.83	1.68	0.70	2.12	1.94	0.54	2.43	2.22	0.36	2.77	2.54	0.12	3.12	2.82
800	1.26	2.38	2.17	1.15	2.70	2.47	1.00	3.03	2.74	0.83	3.37	3.05	0.62	3.75	-
900	1.70	2.95	2.68	1.63	3.30	2.99	1.52	3.67	-	-	-	-	-	-	-

¹ Unit resistance is based on a wet evaporator coil and clean filters.

² Available static pressure in Pa (IWG) to overcome the resistance of the duct system and any accessories added to the unit.

NOTE: Motors can be selected to operate into the service factor because they are located in the moving air stream, upstream of any heating device.

LEGEND:



RPM range for standard factory-mounted drive components.



Exceeds the output limitation of the standard factory-mounted blower motor.

STATIC RESISTANCES FOR UNIT ACCESSORIES

Static resistance, pascal

Unit Model	Accessory		m ³ /s				
			2.26	2.55	2.83	3.11	3.40
KEU180	Electric Heat	10 kW	10	12	15	20	25
		16 kW	18	21	27	35	42
		26 kW	32	40	50	60	72
		36 kW	50	60	72	87	106
	Supply Air Plenum		8	10	12	15	18
	Return Air Grille		10	12	15	18	20
	Hot Water Coil		45	55	64	74	84
	Steam Coil		37	45	55	64	74

Static resistances, IWG

Unit Model	Accessory		CFM				
			4800	5400	6000	6600	7200
KEU180	Electric Heat	10 kW	0.04	0.05	0.06	0.08	0.10
		16kW	0.07	0.09	0.11	0.14	0.17
		26 kW	0.13	0.16	0.20	0.24	0.29
		36 kW	0.20	0.24	0.29	0.35	0.42
	Supply Air Plenum		0.03	0.04	0.05	0.06	0.07
	Return Air Grille		0.04	0.05	0.06	0.07	0.08
	Hot Water Coil		0.18	0.22	0.26	0.03	0.34
	Steam Coil		0.15	0.18	0.22	0.26	0.30

SUPPLY AIR PLENUM PERFORMANCE DATA, M³/S

Model KEU	m ³ /s	Face Velocity (MPM)	Sound Power dB (10) 12 Watts	Angle of Deflection																	
				Vertical Louvers ¹ 0° Spread				Horizontal Louvers ²		Vertical Louvers ¹ 22½° Spread				Horizontal Louvers ²		Vertical Louvers ¹ 45° Spread				Horizontal Louvers ²	
				Throw (Meters) ³		Spread (Meters) ³		0°	18°	Throw (Meters) ³		Spread (Meters) ³		0°	18°	Throw (Meters) ³		Spread (Meters) ³		0°	18°
				Min	Max	Min	Max	Drop (Meters) ⁴		Min	Max	Min	Max	Drop (Meters) ⁴		Min	Max	Min	Max	Drop (Meters) ⁴	
180	2.26	268	26	25.5	40.1	9.7	14.6	7.0	3.6	18.5	28.9	11.6	17.0	6.4	3.3	14.0	22.0	22.2	34.0	3.6	1.8
	2.55	304	28	28.9	45.3	10.9	16.4	7.3	3.6	20.7	32.5	12.8	19.2	6.7	3.3	15.8	24.6	24.6	37.7	3.6	1.8
	2.83	337	30	32.2	50.1	11.9	18.0	7.6	4.0	23.1	36.2	14.0	21.0	7.0	3.6	17.3	27.0	27.4	42.0	4.0	2.1
	3.11	371	33	35.3	55.3	13.1	20.0	7.9	4.0	25.5	40.0	15.2	23.1	7.0	3.6	19.2	29.8	30.1	46.2	4.0	2.1
	3.40	404	36	38.3	60.5	14.0	21.3	8.2	4.3	28.0	43.5	16.7	25.2	7.3	3.6	20.7	32.5	33.1	50.5	4.3	2.1

¹ Adjusting the vertical louvers will vary the throw, the spread and the drop.

² Adjusting the horizontal louvers will only vary the drop.

³ The velocity of the air will be 125 ft./min. at the minimum distance and 80 ft./min. at the maximum distance.

⁴ The velocity of the conditioned air at the bottom of the drop will be 50 ft./min. Drafts will occur if the drop extends into the occupied level of the conditioned space.

SUPPLY AIR PLENUM PERFORMANCE DATA, CFM

Model KEU	CFM	Face Velocity (FPM)	Sound Power dB (10) 12 Watts	Angle of Deflection																	
				Vertical Louvers ¹ 0° Spread				Horizontal Louvers ²		Vertical Louvers ¹ 22½° Spread				Horizontal Louvers ²		Vertical Louvers ¹ 45° Spread				Horizontal Louvers ²	
				Throw (Feet) ³		Spread (Feet) ³		0°	18°	Throw (Feet) ³		Spread (Feet) ³		0°	18°	Throw (Feet) ³		Spread (Feet) ³		0°	18°
				Min	Max	Min	Max	Drop (Feet) ⁴		Min	Max	Min	Max	Drop (Feet) ⁴		Min	Max	Min	Max	Drop (Feet) ⁴	
180	4800	880	26	84	132	32	48	23	12	61	95	38	56	21	11	46	72	73	112	12	6
	5400	1000	28	95	149	36	54	24	12	68	107	42	63	22	11	52	81	81	124	12	6
	6000	1110	30	106	165	39	59	25	13	76	119	46	69	23	12	57	89	90	138	13	7
	6600	1220	33	116	182	43	65	26	13	84	131	50	76	23	12	63	98	99	152	13	7
	7200	1330	36	126	199	46	70	27	14	92	143	55	83	24	12	68	107	109	166	14	7

¹ Adjusting the vertical louvers will vary the throw, the spread and the drop.

² Adjusting the horizontal louvers will only vary the drop.

³ The velocity of the air will be 125 ft./min. at the minimum distance and 80 ft./min. at the maximum distance.

⁴ The velocity of the conditioned air at the bottom of the drop will be 50 ft./min. Drafts will occur if the drop extends into the occupied level of the conditioned space.

BLOWER MOTOR AND DRIVE DATA

Motor (kW/HP)	Blower Range (RPM)	Adjustable Motor Pulley		Fixed Blower Pulley		Belt	
		Pitch Dia (mm/in.)	Bore (mm/in.)	Pitch Dia. (mm/in.)	Bore (mm/in.)	Designation	Pitch Lg. (mm/in.)
2.2 / 3	615/800	86 - 112/ 3.4 - 4.4	22.2 / ⅞	203 / 8.0	25 / 1	A54	1405 / 55.3

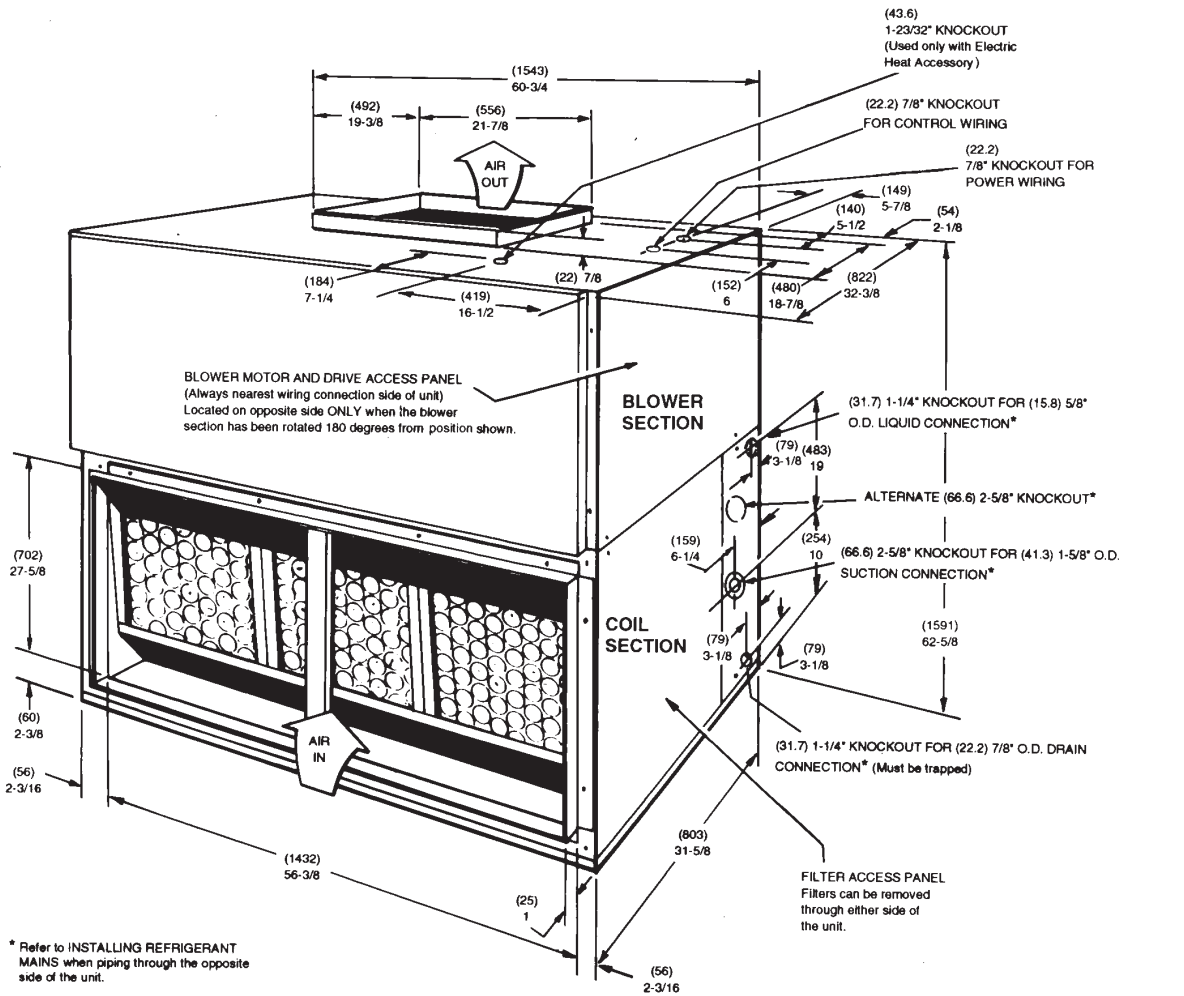
PHYSICAL DATA - UNITS AND ACCESSORIES

Description		Unit Model		
		KEU180		
Evaporator Coil	Rows Deep & Rows High		3 x 32	
	Finned Length - mm/inches		1372 / 54	
	Face Area - square meters/square feet		1.15 / 12.4	
	Tube OD - mm /inches		9.5 / 3/8	
	Fins per 25mm (1 in.)		13	
Centrifugal Blower (Forward Curve)	Wheel Dia. x Width - mm (inches)		475 x 475 (18 x 18)	
Motor ¹	Nominal HP Rating		3	
Filters (Throwaway)	Quantity per unit	508mm x 508mm x 25mm 20" x 20" x 1"	6	
	Face area - square meters/square feet		1.55 / 16.7	
Distributor	One per unit		7-4-13	
Operating Weight kg/lbs	Basic Unit		390 / 177	
	Accessories			
	Supply Plenum		51.7 / 114	
	Return Air Grille		9.1 / 20	
	Hot Water Coil		49.9 / 110	
	Steam Coil		51.3 / 113	
	Base		45.4 / 100	
	Electric Heater	10 kW		37.6 / 83
		16 kW		29.9 / 66
		26 kW		32.2 / 71
36 kW		33.5 / 74		
Hot Water Coil	Tube OD, mm/inches		½ / 12.7 (copper)	
	Rows Deep		2	
	Fins per 25mm (1 in.)		8 (aluminum)	
	Face Area, square meters/square feet		0.63 / 6.8	
	Connections (supply & return)		25mm (1") NPTE	
Steam Coil	Outer Tube OD, mm/inches		25 / 1 (brass)	
	Rows Deep		1	
	Fins per 25mm (1 in.)		8 (aluminum)	
	Face Area, square meters/square feet		0.94 / 10.1	
	Connection	Inlet	38mm (1½") NPTE	
Outlet		38mm (1½") NPTE		
Electric Heater	Heater Elements	% Nickel	59.2	
		% Chromium	16.0	
		Watt Density, watts/sq. in.	59.0	
	Face Area, square meters/square feet		0.28 / 3.0	
Shipping Volume - cubic meters/cubic feet/ (Basic Unit)		2.5 / 88		

¹ Refer to Blower Motor and Drive Data table for additional motor and drive data.

² Refer to the unit Installation Instruction 550.39-N5YI for the distributed weight of the evaporator blower unit.

UNIT DIMENSIONS



* Refer to INSTALLING REFRIGERANT MAINS when piping through the opposite side of the unit.

All dimensions are in millimeters and inches. They are subject to change without notice. Certified dimensions will be provided upon request.

ACCESSORIES

- ELECTRIC HEATER
Add 381mm (15 in.) to Unit Height when using 10, 16, 26 or 36kW Heater
- SUPPLY AIR PLENUM
Add 686mm (27 in.) to Unit Height when used
- BASE
Add 610mm (24 in.) to Unit Height when used

MINIMUM CLEARANCES (mm/in.)

Side with RETURN AIR opening	- 610 / 24
Side with SUPPLY AIR opening	- 610 / 24 ¹
Side with PIPING CONNECTIONS	- 1549 / 61 ²
Side opposite PIPING CONNECTIONS	- 660 / 26 ³
Bottom	- 4 ⁴

1 Overall dimension of the unit will vary if an electric heater, a supply air plenum or a base is used.

2 This dimension is required for removal of the DX coil. Only 660mm (26 in.) is required for normal servicing.

3 If the DX coil has to be removed, this dimension is required to loosen screws that secure the coil to the unit frame. This dimension will also be required for blower motor access if the piping connections are made on the opposite side of the unit.

4 Allow enough clearance to trap the condensate drain line.

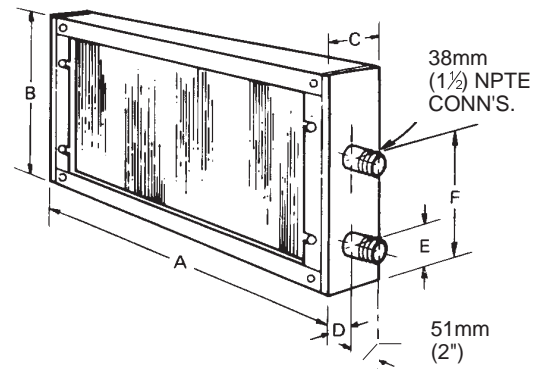
ACCESSORY DIMENSIONS

STEAM COIL

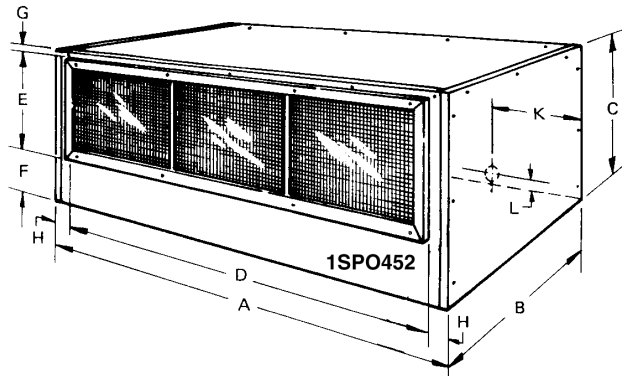
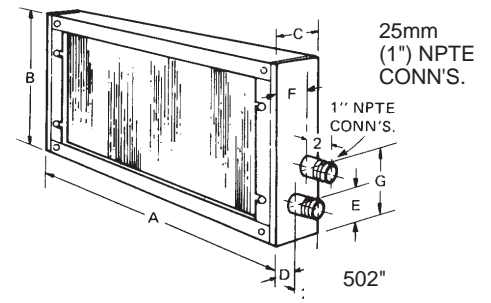
REFER TO THE UNIT DRAWING FOR DUCT FLANGE DIMENSIONS.

Coil Model	Unit Model	Steam coil Dimensions, mm (inches)					
		A	B	C	D	E	F
1NF0452*	KEU180	1543 (60¾)	819 (32¼)	152 (6)	76 (3)	89 (3½)	445 (17½)

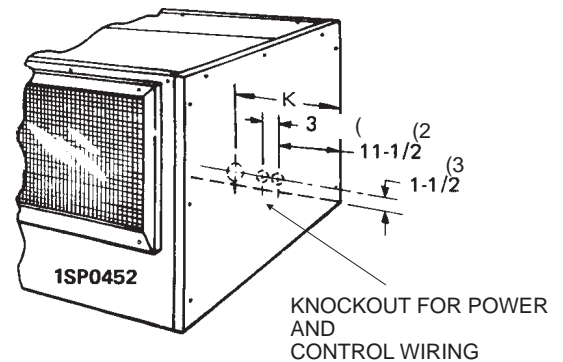
* Installs between the unit coil section and the blower section.



Coil Model	Unit Model	Water Coil Dimensions, mm (inches)						
		A	B	C	D	E	F	G
1HW0452*	KEU180	154 (60¾)	819 (32¼)	152 (6)	58 (2 3/32)	84 (3 3/16)	98 (3 27/32)	170 (6 3/16)



KNOCKOUT POWER FOR WIRING



KNOCKOUT FOR POWER AND CONTROL WIRING

WITH ELECTRIC HEAT - Remove the 66mm (2½ in.) knockout and one of the 22.2mm (7/8 in.) knockouts from the rear panel of the plenum. Remove the 43.7mm (1 3/32 in.) knockout and one of the 7/8" (22.2mm) knockouts from the top panel of the basic unit. Install a 12.7mm (½ in.) squeeze connector in both of the 22.2mm (7/8 in.) openings.

Route the power wiring conduit through the 64mm (2½ in.) opening and connect it to the field-supplied fitting on the electric heat accessory. Connect the power wiring to the fuse block in the heater control box.

Route the control wires through the 22.2mm (7/8 in.) openings and connect them to the terminals on block 4TB. Secure them with the 12.7mm (½ in.) squeeze connectors.

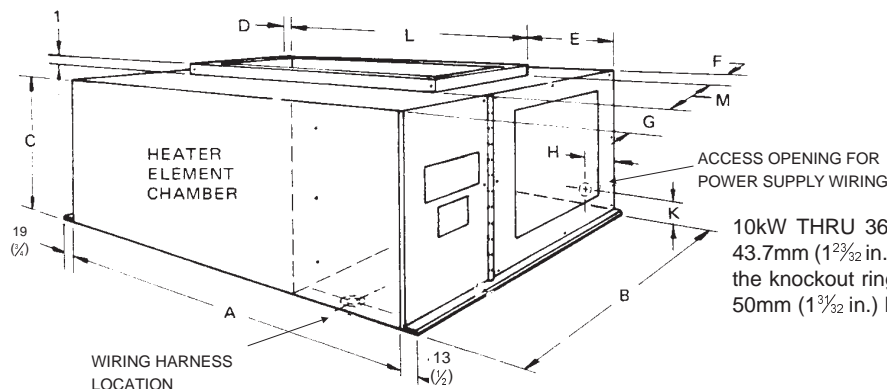
WITHOUT ELECTRIC HEAT - Remove both 22.2mm (7/8 in.) knockouts from the rear panel of the plenum and both 22.2mm (7/8 in.) knockouts from the top panel of the basic unit. Install a 12.7mm (½ in.) squeeze connector in one of the plenum openings and both of the unit openings. Install a 12.7mm (½ in.) conduit fitting in the other opening of the plenum.

Connect the power wiring conduit to the fitting on the plenum. Route the power wiring through the conduit, one of the squeeze connectors on the unit, and the field-supplied squeeze connector on the blower motor contactor.

Route the control wires through the remaining plenum and unit openings and connect them to the terminals on block 4TB. Secure them with the 12.7mm (½ in.) squeeze connectors.

Accessory Model	Unit Model	Plenum Dimensions, mm (inches)									
		A	B	C	D	E	F	G	H	K	L
1SP0452	KEU180	1543 (60¾)	787 (31)	686 (27)	1695 (66¾)	505 (19 7/8)	156 (6 1/8)	25 (1)	64 (2½)	495 (19½)	44 (1¾)

ACCESSORY DIMENSIONS ELECTRIC HEATER



10kW THRU 36kW - Add 32mm (1¼ in.) conduit fitting to the 43.7mm (1²⁹/₃₂ in.) hole for wire sizes up through #1 AWG Remove the knockout ring and add a 38mm (1½ in.) conduit fitting to the 50mm (1³/₃₂ in.) hole for wire sizes up through #0 AWG.

This opening in the bottom of the heater control box is used for the wiring harness that connects the heater accessory to the basic unit. It is provided with a squeeze connector for securing the the wiring harness. Its location corresponds to the location of the 43.7mm (1²⁹/₃₂ in.) knockout in the top panel of the basic unit.

Accessory Model	Nom . kW	Heater Dimensions, mm (inches)											
		A	B	C	D	E	F	G	H	K	L	M	
2HS04501050	10												
2HS04501650	16	692	641	362	25	102	13	140	38	25	565	489	
2HS04502650	26	(27¼)	(25¼)	(14¼)	(1)	(4)	(½)	(5½)	(1½)	(1)	(22¼)	(19¼)	
2HS04503650	36												

COOLING ONLY UNITS

ELECTRICAL DATA

Blower Motor kW/HP	Power Supply	FLA	LRA	Maximum Fuse Size* Amps	Maximum Wire Length* * m (Ft.)
2.2 / 3	380/415-3-50	5.2	37.0	10	122 (400)

* Dual element, time delay fuses.

UNITS WITH ELECTRIC HEAT

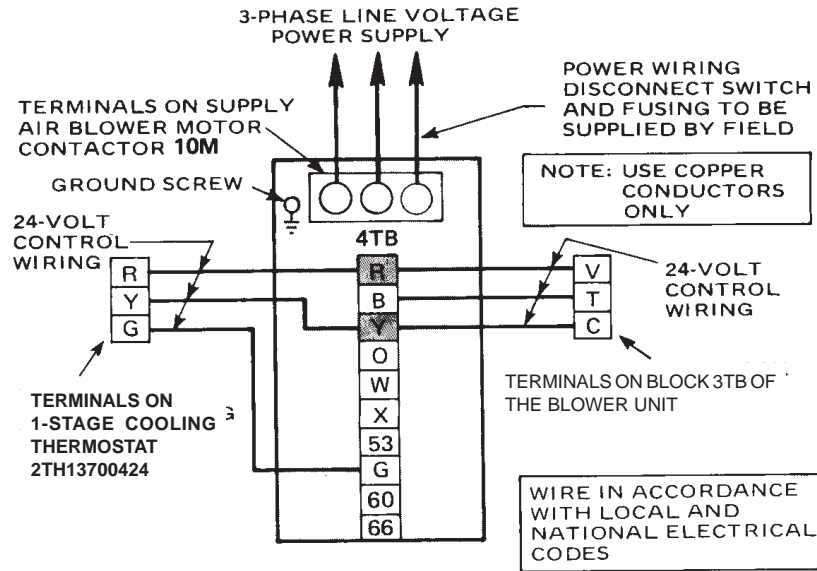
Heater	Nominal Heat	Volt	Heat FLA	Motor FLA	Ampacity	Maximum Fuze Size, Amps*	Wire Size (Copper Conductor)	Maximum Wire Length, m (Ft.)**
10 kW	7.5	415	10.4	5.2	19.5	20	12 AWG	45.6 (150)
16 kW	12.0	415	16.6	5.2	27.3	30	10 AWG	53.2 (175)
26 kW	19.4	415	27.0	5.2	40.3	45	8 AWG	53.2 (175)
36 kW	26.9	415	37.4	5.2	53.3	60	6 AWG	68.4 (225)

* Dual element, time delay fuses.

** Based on three 60° C, 14 AWG, insulated copper conductors in steel conduit and a 3% voltage drop.

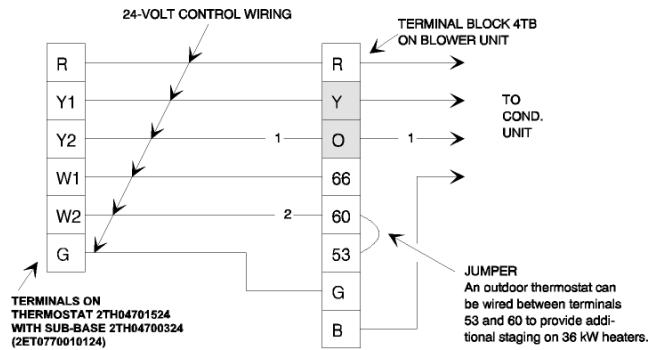
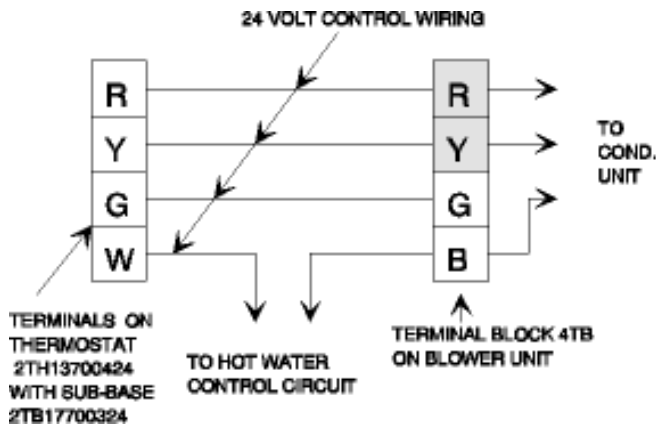
FIELD WIRING

Cooling only

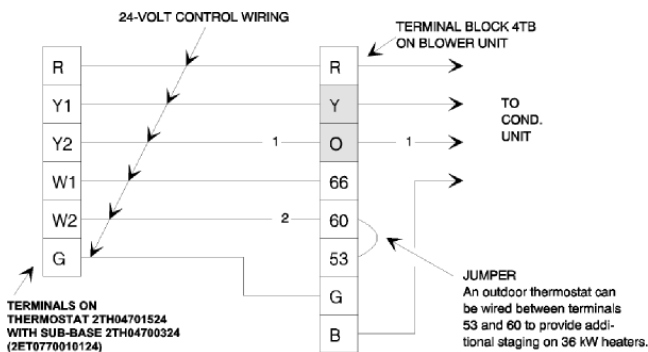


CONTROL WIRING

Units with steam or hot water coil AC-



Units with electric heat accessory





Heating and Air Conditioning

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