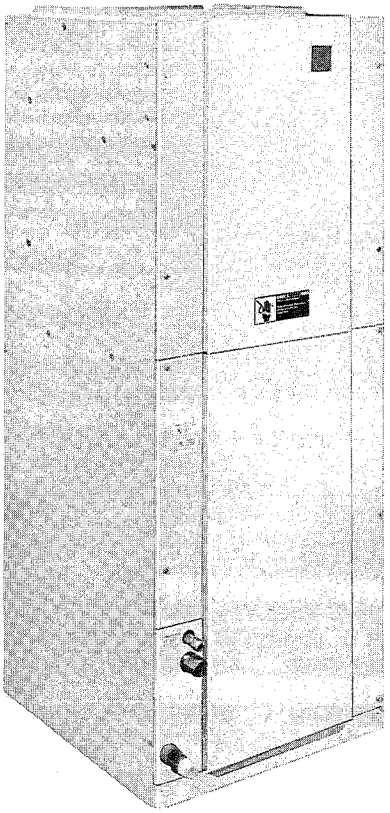
Bryant
Air Conditioning

Indianapolis, IN
City of Industry, CA

FAN-COIL & FAN UNITS

Model 517E
Sizes 003, 004, 042, 048, 060, & 062



A81103

Model 517E Fan-Coil and Fan Units are multipurpose packaged air handlers that are specifically designed to satisfy a variety of split-system applications—both conventional air conditioning and heat pump. These versatile units are available in three distinct variations: (1) fan units without coil, electric heater, or controls; (2) fan-coil units without electric heater or controls, and (3) heating/cooling fan-coil units with electric heater and controls.

Fan-coil units are available in four nominal coil sizes—042, 048, 060, and 062. Fan-Coil units with electric heaters, and the accessory heat packages for field-installation into the fan-coil units without heaters and the fan units, are available in heating sizes ranging from 7.5 to 30KW.

Fan units are available in two sizes—003 and 004. Accessory electric heat packages and 510B Coils are available for field-installation to convert these fan units into conventional electric furnaces, fan-coil units, or heating/cooling fan-coil units.

FEATURES

WRAPAROUND FULLY INSULATED CABINET—One-piece heavy-duty steel construction helps eliminate casing noise. Fully insulated interior provides both thermal and acoustic isolation. The cabinet exterior is finished with an attractive silver sage enamel.

SPECIAL DESIGN FEATURES—Application versatility of all units is enhanced by the spacesaving compact size and the installation flexibility of either upflow or downflow mounting attitudes. The downflow application requires accessory condensate drain pan kit P/N 306230-213 or -214. Refrigerant and condensate connections are provided on the front of fan-coil units for ease of installation. Separate access panels for the coil section and blower/control section on the cabinet front make these units totally serviceable from the front. A third front access panel provides easy access to the permanent-type air filter furnished with each unit.

DIRECT-DRIVE MULTISPEED, PSC, BLOWER MOTORS have been carefully selected to minimize energy consumption while providing the airflow to meet the requirements of a wide variety of applications. A Molex connector simplifies speed changes. Blower and motor assembly is resiliently mounted to minimize vibration, and slides out for easy servicing.

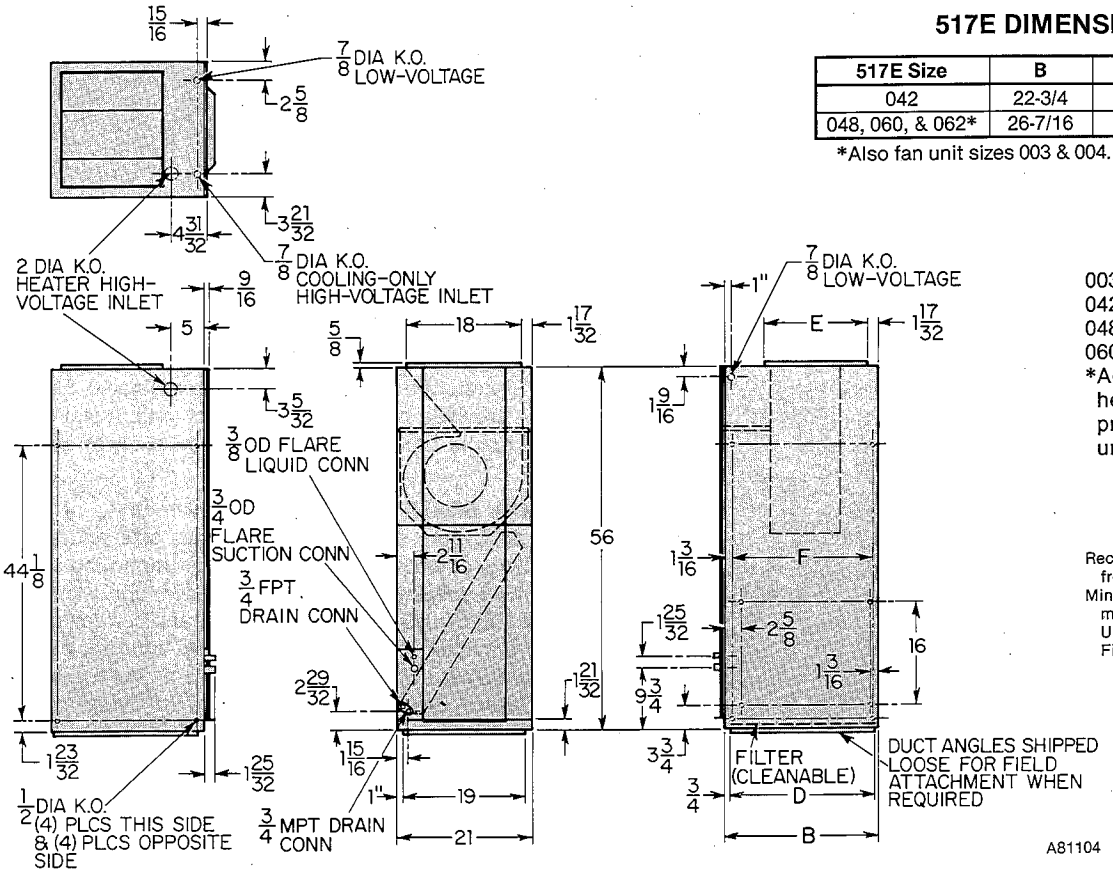
COMPUTER-DESIGNED INDOOR COILS provide for optimum heat transfer and cooling and/or heat pump heating efficiency. Flare refrigerant connections enable quick leak-proof connections, using our precharged refrigerant tubing sets. The accessory 510B Coils that are used with the fan units are the same coils provided in the fan-coil units. All coils have a condensate drain pan and contain a holding charge of R-22 refrigerant.

CHECK-FLO-RATER—All coils have a Check-Flo-Rater for efficient and dependable refrigerant metering, and to eliminate the potential service requirements of other metering devices. Located external to the unit, the Check-Flo-Rater is readily accessible for piston changeout or maintenance. For added system reliability, all coils have a liquid-line strainer to help maintain clean, unrestricted operation.

ELECTRIC HEAT PACKAGES are available either as factory-installed in the heating/cooling fan-coil units or as a field-installed accessory for the fan units and fan-coil units. The application flexibility of these heaters is increased with the availability of single- and three-phase power supply options. The 10-, 15-, and 20-KW single-phase optional heaters are available with or without circuit breakers for internal circuit protection. Sequencer control is used for incremental energizing and deenergizing of the heater elements. Field-installation of a heater into a unit has been made extremely easy—simply slide in the heater, secure with three screws, and plug-in three leads for blower motor control.

Form No. PDS 517E.42.3B

DIMENSIONAL DRAWING



A81104

517E DIMENSIONS (Inches)

517E Size	B	D	E	F
042	22-3/4	21	13-13/16	20-11/32
048, 060, & 062*	26-7/16	24-1/2	17-9/32	23-13/16

*Also fan unit sizes 003 & 004.

Shipping Weights (lbs)

003 & 004 155
042 ..... 175*
048 ..... 185*
060 & 062 ..... 190*

*Add heater weights shown in heater table to determine approximate weights of fan-coil units with heaters.

REQUIRED CLEARANCES (Inches)

Recommended service clearance from front of unit 21
Minimum clearance from combustible materials:
Unit 0
First 36 inches of uninsulated supply duct when using heater 36

SPECIFICATIONS—UNITS WITHOUT ELECTRIC HEATER

MODEL	517E					
SIZE	N003	N004	N042	N048	N060	N062
RATINGS & PERFORMANCE						
Nominal Capacity (Btuh)*	—	—	42,000	48,000	60,000	60,000
Nominal Airflow (Cfm)†	1600	2000	1400	1600	2000	2000
ELECTRICAL						
Unit Volts—Phase (60 Hz)	208/230—1	208/230—1	208/230—1	208/230—1	208/230—1	208/230—1
Operating Voltage Range	187—253	187—253	187—253	187—253	187—253	187—253
Single-Circuit Operation						
Full Load Amps	4.8	5.6	3.8	4.8	5.6	4.4
Minimum Ampacity for Wire Sizing	7.0	7.0	7.0	7.0	7.0	7.0
Minimum Wire Size	14	14	14	14	14	14
Maximum Wire Length (Ft)	152/158	130/144	191/212	152/158	130/144	152/158
Maximum Fuse Size (Amps)	15	15	15	15	15	15
Control Transformer—24V (VA)	†††	†††	†††	†††	†††	†††
INDOOR COIL						
Rows & Fins Per Inch	—	—	3 & 13	3 & 13	4 & 14	4 & 14
Height x Width (In.)	—	—	32.5 x 19.4	32.5 x 22.8	32.5 x 22.8	35.2 x 22.8
Face Area (Sq Ft)	—	—	4.4	5.1	5.1	5.1
R-22 Refrigerant Metering Device	—	—	Check-Flo-Rater			
Piston ID Number‡‡‡	—	—	76	82	93	96
Condensate Drain Connection	—	—	3/4 MPT	3/4 MPT	3/4 MPT	3/4 MPT
INDOOR BLOWER & MOTOR						
Wheel Diameter x Width (In.)	10 x 9	11 x 9	10 x 9	10 x 9	11 x 9	11 x 9
Filter Size—Cleanable (In.)	20 x 25 x 1	20 x 25 x 1	20 x 21 x 1	20 x 25 x 1	20 x 25 x 1	20 x 25 x 1
Blower Motor HP	1/2	3/4	1/2	1/2	3/4	3/4
Blower Motor Speeds & Type	3 & DD(PSC)	3 & DD(PSC)	3 & DD(PSC)	3 & DD(PSC)	3 & DD(PSC)	2 & DD(PSC)
Full Load Amps	4.8	5.6	3.8	4.8	5.6	4.4
OPTIONAL EQUIPMENT (P/N'S)						
Liquid-Line Swivel Ell (3/8)‡‡	P651-1066					
Vapor-Line Swivel Ell (3/4)‡‡	P651-1068					
Combustible Floor Base***	306230-202		306230-201	306230-202		
Single-Circuit Kit**	301820-4001					
Electric Heat Package†††	See Accessory Electric Heat Package Table					
Control Package†††	305971-464					
Cooling Coil (Model)	510B048	510B060	Standard			

See notes on next page.

SPECIFICATIONS—UNITS WITH ELECTRIC HEATER

MODEL		517E					
SIZE		N042010		N042015		N042020	
RATINGS & PERFORMANCE							
Nominal Capacity (Btuh)*		42,000		42,000		42,000	
Nominal Airflow (Cfm)†		1400		1400		1400	
Electric Heating Output (KW)‡		10.0		15.0		20.0	
Electric Heating Capacity (MBtuh)‡		25.6/31.3		38.5/47.0		51.3/62.7	
ELECTRICAL							
Unit Volts—Phase (60 Hz)		208/230—1		208/230—1		208/230—1	
Operating Voltage Range		187—253		187—253		187—253	
Internal Circuit Protection**		None	CB††	Fuses	CB††	Fuses	CB††
Single-Circuit Operation							
Full Load Amps		39.8/43.8		57.8/63.8	—	75.8/83.8	—
Minimum Ampacity for Wire Sizing		52/57		74.5/82	—	97/107	—
Minimum Wire Size■		6/6		6/4	—	3/2	—
Maximum Wire Length (Ft)■		115/115		79/125	—	120/152	—
Maximum Fuse Size (Amps)		60/60		80/90	—	100/110	—
Dual-Circuit Operation							
Full Load Amps	L1 & L2	—		39.8/43.8		39.8/43.8	
	L3 & L4	—		18/20		36/40	
Minimum Ampacity for Wire Sizing							
	L1 & L2	—		52/57		52/57	
	L3 & L4	—		22.5/25		45/50	
Minimum Wire Size■	L1 & L2	—		6/6		6/6	
	L3 & L4	—		10/10		8/6	
Maximum Wire Length (Ft)■	L1 & L2	—		115/115		115/115	
	L3 & L4	—		102/102		81/126	
Maximum Fuse Size (Amps)	L1 & L2	—		60/60		60/60	
	L3 & L4	—		25/25		45/50	
Control Transformer—24V (VA)		60		60		60	
INDOOR COIL							
Rows & Fins Per Inch		3 & 13					
Height x Width (In.)		32.5 x 19.4					
Face Area (Sq Ft)		4.4					
R-22 Refrigerant Metering Device		Check-Flo-Rater					
Piston ID Number†††		82					
Condensate Drain Connection		3/4 MPT					
INDOOR BLOWER & MOTOR							
Wheel Diameter x Width (In.)		10 x 9					
Filter Size—Cleanable (In.)		20 x 21 x 1					
Blower Motor HP		1/2					
Blower Motor Speeds & Type		3 & DD(PSC)					
Full Load Amps		3.8					
OPTIONAL EQUIPMENT (P/N'S)							
Liquid-Line Swivel Ell (3/8)‡‡		P651-1066					
Vapor-Line Swivel Ell (3/4)‡‡		P651-1068					
Combustible Floor Base***		306230-201					
Single-Circuit Kit**		—		301820-4001		301820-4001	

*See condensing unit or heat pump outdoor section PDS for cooling and/or heating capacity ratings with 517E Fan Coils.

†See air delivery table in this PDS.

‡KW values shown are nominal rated heater outputs at 240V and do not include blower motor heat. Capacity values shown are calculated using KW outputs at 208V/230V.

**Single-phase 10-, 15-, or 20-KW electric heaters have the internal circuit protection options shown. Single-phase 15- or 20-KW heaters are wired for dual-circuit operation. The optional single-circuit kit may be field-installed in units with a 15- or 20-KW single-phase fused heater for single-circuit operation.

††CB = circuit breakers

‡‡Used for right-angle refrigerant connections to the coil (or optional 510B Coil).

***Must be field-installed for electric heater downflow applications.

†††A 60-VA control transformer for units without factory-supplied heaters is supplied with the accessory electric heat package or control package. The control package must be field-installed when a heater is not being used.

‡‡‡Use piston size shipped with outdoor unit.

■Wire sizes and lengths are based on copper conductor at 86°F (30°C) ambient temperature and ampacity shown in table. Insulation must be 90°C on conductor used between the disconnect switch and the heater and at least 75°C on the conductor used between the disconnect and the service panel. If other than copper conductor is used, or if ambient temperature is above 86°F, determine wire size from ampacity shown and the National Electrical Code. Wire lengths shown are measured one way along the wire path between the disconnect and service panel for minimum 2% voltage drop.

CERTIFICATION APPLIES ONLY WHEN
USED WITH PROPER COMPONENTS
AS LISTED WITH ARI

SPECIFICATIONS—UNITS WITH ELECTRIC HEATER

MODEL		517E			
SIZE		N048010		N048015	
RATINGS & PERFORMANCE					
Nominal Capacity (Btuh)*		48,000		48,000	
Nominal Airflow (Cfm)†		1600		1600	
Electric Heating Output (KW)‡		10.0		15.0	
Electric Heating Capacity (MBtuh)‡		25.6/31.3		38.5/47.0	
ELECTRICAL					
Unit Volts—Phase (60 Hz)		208/230—1		208/230—1	
Operating Voltage Range		187—253		187—253	
Internal Circuit Protection**		None	CB††	Fuses	CB††
Single-Circuit Operation					
Full Load Amps		40.8/44.8		58.8/64.8	—
Minimum Ampacity for Wire Sizing		52/57		74.5/82	—
Minimum Wire Size†††		6/6		6/4	—
Maximum Wire Length (Ft)†††		112/113		78/123	—
Maximum Fuse Size (Amps)		60/60		80/90	—
Dual-Circuit Operation					
Full Load Amps	L1 & L2	—		40.8/44.8	
	L3 & L4	—		18/20	
Minimum Ampacity for Wire Sizing					
	L1 & L2	—		52/57	
	L3 & L4	—		22.5/25	
Minimum Wire Size†††	L1 & L2	—		6/6	
	L3 & L4	—		10/10	
Maximum Wire Length (Ft)†††	L1 & L2	—		112/113	
	L3 & L4	—		102/102	
Maximum Fuse Size (Amps)	L1 & L2	—		60/60	
	L3 & L4	—		25/25	
Control Transformer—24V (VA)		60		60	
INDOOR COIL					
Rows & Fins Per Inch		3 & 13			
Height x Width (In.)		32.5 x 22.8			
Face Area (Sq Ft)		5.1			
R-22 Refrigerant Metering Device		Check-Flo-Rater			
Piston ID Number‡‡‡		88			
Condensate Drain Connection		3/4 MPT			
INDOOR BLOWER & MOTOR					
Wheel Diameter x Width (In.)		10 x 9			
Filter Size—Cleanable (In.)		20 x 25 x 1			
Blower Motor HP		1/2			
Blower Motor Speeds & Type		3 & DD(PSC)			
Full Load Amps		4.8			
OPTIONAL EQUIPMENT (P/N'S)					
Liquid-Line Swivel Ell (3/8)‡‡		P651-1066			
Vapor-Line Swivel Ell (3/4)‡‡		P651-1068			
Combustible Floor Base***		306230-202			
Single-Circuit Kit**		—		301820-4001	

*See condensing unit or heat pump outdoor section PDS for cooling and/or heating capacity ratings with 517E Fan Coils.

†See air delivery table in this PDS.

‡KW values shown are nominal rated heater outputs at 240V and do not include blower motor heat. Capacity values shown are calculated using KW outputs at 208V/230V.

**Single-phase 10-, 15-, or 20-KW electric heaters have the internal circuit protection options shown. Single-phase 15- or 20-KW heaters are wired for dual-circuit operation. The optional single-circuit kit may be field-installed in units with a 15- or 20-KW single-phase fused heater for single-circuit operation.

††CB = circuit breakers.

‡‡Used for right-angle refrigerant connections to the coil (or optional 510B Coil).

***Must be field-installed for electric heater downflow applications.

†††Wire sizes and lengths are based on copper conductor at 86°F (30°C) ambient temperature and ampacity shown in table. Insulation must be 90°C on conductor used between the disconnect switch and the heater and at least 75°C on the conductor used between the disconnect and the service panel. If other than copper conductor is used, or is ambient temperature is above 86°F, determine wire size from ampacity shown and the National Electrical Code. Wire lengths shown are measured one way along the wire path between the disconnect and service panel for minimum 2% voltage drop.

‡‡‡Use piston size shipped with outdoor unit.

SPECIFICATIONS—UNITS WITH ELECTRIC HEATER

MODEL		517E			
SIZE		N048020		N060010	
RATINGS & PERFORMANCE					
Nominal Capacity (Btuh)*		48,000		60,000	
Nominal Airflow (Cfm)†		1600		2000	
Electric Heating Output (KW)‡		20.0		10.0	
Electric Heating Capacity (MBtuh)‡		51.3/62.7		25.6/31.3	
ELECTRICAL					
Unit Volts—Phase (60 Hz)		208/230—1		208/230—1	
Operating Voltage Range		187—253		187—253	
Internal Circuit Protection**		Fuses	CB††	None	CB††
Single-Circuit Operation					
Full Load Amps		76.8/84.8	—	41.6/45.6	
Minimum Ampacity for Wire Sizing		97/107	—	52/57	
Minimum Wire Size†††		3/2	—	6/6	
Maximum Wire Length (Ft)†††		119/151	—	110/111	
Maximum Fuse Size (Amps)		100/110	—	60/60	
Dual-Circuit Operation					
Full Load Amps	L1 & L2	40.8/44.8		—	
	L3 & L4	36/40		—	
Minimum Ampacity for Wire Sizing					
	L1 & L2	52/57		—	
	L3 & L4	45/50		—	
Minimum Wire Size†††	L1 & L2	6/6		—	
	L3 & L4	8/6		—	
Maximum Wire Length (Ft)†††	L1 & L2	112/113		—	
	L3 & L4	81/126		—	
Maximum Fuse Size (Amps)	L1 & L2	60/60		—	
	L3 & L4	45/50		—	
Control Transformer—24V (VA)		60		60	
INDOOR COIL					
Rows & Fins Per Inch		3 & 13		4 & 12	
Height x Width (In.)		32.5 x 22.8		32.5 x 22.8	
Face Area (Sq Ft)		5.1		5.1	
R-22 Refrigerant Metering Device		Check-Flo-Rater		Check-Flo-Rater	
Piston ID Number‡‡‡		88		96	
Condensate Drain Connection		3/4 MPT		3/4 MPT	
INDOOR BLOWER & MOTOR					
Wheel Diameter x Width (In.)		10 x 9		11 x 9	
Filter Size—Cleanable (In.)		20 x 25 x 1		20 x 25 x 1	
Blower Motor HP		1/2		3/4	
Blower Motor Speeds & Type		3 & DD(PSC)		3 & DD(PSC)	
Full Load Amps		4.8		5.6	
OPTIONAL EQUIPMENT (P/N'S)					
Liquid-Line Swivel Ell (3/8)‡‡		P651-1066		P651-1066	
Vapor-Line Swivel Ell (3/4)‡‡		P651-1068		P651-1068	
Combustibale Floor Base***		306230-202		306230-202	
Single-Circuit Kit**		301802-4001		—	

*See condensing unit or heat pump section PDS for cooling and/or heating capacity ratings with 517E Fan Coils.

†See air delivery table in this PDS.

‡KW values shown are nominal rated heater outputs at 240V and do not include blower motor heat. Capacity values shown are calculated using KW outputs at 208V/230V.

**Single-phase 10-, 15-, or 20-KW electric heaters have the internal circuit protection options shown. Single-phase 15- or 20-KW heaters are wired for dual-circuit operation. The optional single-circuit kit may be field-installed in units with a 15- or 20-KW single-phase fused heater for single-circuit operation.

††CB = circuit breakers.

‡‡Used for right-angle refrigerant connections to the coil (or optional 510B Coil).

***Must be field-installed for electric heater downflow applications.

†††Wire sizes and lengths are based on copper conductor at 86°F (30°C) ambient temperature and ampacity shown in table. Insulation must be 90°C on conductor used between the disconnect switch and the heater and at least 75°C on the conductor used between the disconnect and the service panel. If other than copper conductor is used, or if ambient temperature is above 86°F, determine wire size for ampacity shown and the National Electric Code. Wire lengths shown are measured one way along the wire path between the disconnect and service panel for minimum 2% voltage drop.

‡‡‡Use piston size shipped with outdoor unit.

SPECIFICATIONS—UNITS WITH ELECTRIC HEATER

MODEL		517E			
SIZE		N060015		N060020	
RATINGS & PERFORMANCE					
Nominal Capacity (Btuh)*		60,000		60,000	
Nominal Airflow (Cfm)†		2000		2000	
Electric Heating Output (KW)‡		15.0		20.0	
Electric Heating Capacity (MBtuh)‡		38.5/47.0		51.3/62.7	
ELECTRICAL					
Unit Volts—Phase (60 Hz)		208/230—1		208/230—1	
Operating Voltage Range		187—253		187—253	
Internal Circuit Protection**		Fuses	CB††	Fuses	CB††
Single-Circuit Operation					
Full Load Amps		59.6/65.6	—	77.6/85.6	—
Minimum Ampacity for Wire Sizing		74.5/82	—	97/107	—
Minimum Wire Size†††		6/4	—	3/2	—
Maximum Wire Length (Ft)†††		77/122	—	118/149	—
Maximum Fuse Size (Amps)		80/90	—	100/110	—
Dual-Circuit Operation					
Full Load Amps	L1 & L2	41.6/45.6		41.6/45.6	
	L3 & L4	18/20		36/40	
Minimum Ampacity for Wire Sizing					
	L1 & L2	52/57		52/57	
	L3 & L4	22.5/25		45/50	
Minimum Wire Size‡‡‡	L1 & L2	6/6		6/6	
	L3 & L4	10/10		8/6	
Maximum Wire Length (Ft)‡‡‡	L1 & L2	110/111		110/111	
	L3 & L4	102/102		81/126	
Maximum Fuse Size (Amps)	L1 & L2	60/60		60/60	
	L3 & L4	25/25		45/50	
Control Transformer—24V (VA)		60		60	
INDOOR COIL					
Rows & Fins Per Inch		4 & 12			
Height x Width (In.)		32.5 x 22.8			
Face Area (Sq Ft)		5.1			
R-22 Refrigerant Metering Device		Check-Flo-Rater			
Piston ID Number‡‡‡		96			
Condensate Drain Connection		3/4 MPT			
INDOOR BLOWER & MOTOR					
Wheel Diameter x Width (In.)		11 x 9			
Filter Size—Cleanable (In.)		20 x 25 x 1			
Blower Motor HP		3/4			
Blower Motor Speeds & Type		3 & DD (PSC)			
Full Load Amps		5.6			
OPTIONAL EQUIPMENT (P/N'S)					
Liquid-Line Swivel Ell (3/8)‡‡		P651-1066			
Vapor-Line Swivel Ell (3/4)‡‡		P651-1068			
Combustible Floor Base***		306230-202			
Single-Circuit Kit**		301820-4001		301820-4001	

*See condensing unit or heat pump outdoor section PDS for cooling and/or heating capacity ratings with 517E Fan Coils.

†See air delivery table in this PDS.

‡KW values shown are nominal rated heater outputs at 240V and do not include blower motor heat. Capacity values shown are calculated using KW outputs at 208V/230V.

**Single-phase 10-, 15-, 20-KW electric heaters have the internal circuit protection options shown. Single-phase 15-or 20-KW heaters are wired for dual-circuit operation. The optional single-circuit kit may be field-installed in units with a 15- or 20-KW single-phase fused heater for single-circuit operation.

††CB = circuit breakers.

‡‡Used for right-angle refrigerant connections to the coil (or optional 510B Coil).

***Must be field-installed for electric heater downflow applications.

†††Wire sizes and lengths are based on copper conductor at 86°F (30°C) ambient temperature and ampacity shown in table. Insulation must be 90°C on conductor used between the disconnect switch and the heater and at least 75°C on the conductor used between the disconnect and the service panel. If other than copper conductor is used, or if ambient temperature is above 86°F, determine wire size from ampacity shown and the National Electrical Code. Wire lengths shown are measured one way along the wire path between the disconnect and service panel for minimum 2% voltage drop.

‡‡‡Use piston size shipped with outdoor unit.

AIR DELIVERY (Cfm) AT INDICATED EXTERNAL STATIC PRESSURE (With Filter)

517E Size	Motor Speed Tap	Coil	External Static Pressure—Inches wc						
			0.1	0.2	0.3	0.4	0.5	0.6	0.7
042 (Without Heater)	High	Dry	1760	1700	1625	1535	1450	1350	1225
		Wet	1690	1625	1545	1455	1355	1260	—
	Medium	Dry	1615	1545	1490	1415	1345	1255	1150
		Wet	1545	1495	1435	1365	1275	1185	—
	Low	Dry	1435	1385	1340	1280	1210	1135	1035
		Wet	1395	1350	1300	1235	1165	1080	—
042 (With Heater)	High	Dry	1700	1635	1560	1475	1395	1290	—
		Wet	1625	1565	1485	1415	1320	1200	—
	Medium	Dry	1565	1505	1450	1385	1305	1215	—
		Wet	1510	1450	1390	1320	1235	1150	—
	Low	Dry	1410	1360	1315	1250	1180	1100	—
		Wet	1370	1325	1270	1205	1135	—	—
048 (Without Heater)	High	Dry	2075	1995	1910	1830	1745	1655	1550
		Wet	1950	1870	1795	1725	1645	1555	1455
	Medium	Dry	1900	1830	1765	1700	1625	1545	1450
		Wet	1810	1745	1685	1615	1540	1455	—
	Low	Dry	1710	1665	1615	1565	1510	1450	1370
		Wet	1660	1615	1565	1515	1450	1385	—
048 (With Heater)	High	Dry	1970	1905	1825	1755	1675	1580	1490
		Wet	1875	1800	1740	1660	1580	1490	1400
	Medium	Dry	1830	1770	1705	1635	1560	1485	—
		Wet	1750	1690	1630	1560	1485	1400	—
	Low	Dry	1670	1625	1580	1525	1470	1405	—
		Wet	1620	1575	1525	1470	1390	—	—
060 (Without Heater)	High	Dry	2315	2280	2240	2200	2155	2115	2065
		Wet	2250	2215	2165	2140	2095	2045	1990
	Medium	Dry	2125	2080	2040	1995	1950	1905	1850
		Wet	2065	2025	1990	1945	1900	1850	1790
	Low	Dry	1900	1870	1840	1805	1770	1730	1690
		Wet	1860	1830	1800	1760	1730	1680	1650
060 (With Heater)	High	Dry	2265	2230	2190	2145	2100	2060	2010
		Wet	2210	2170	2130	2085	2045	2000	1950
	Medium	Dry	2070	2035	1995	1955	1915	1870	1820
		Wet	2025	1985	1945	1910	1865	1820	1765
	Low	Dry	1875	1850	1820	1785	1750	1710	1665
		Wet	1850	1815	1780	1750	1715	1675	1625
062 (Without Heater)	High	Dry	2190	2125	2065	2010	1940	1870	1800
		Wet	2080	2020	1960	1910	1840	1775	1710
	Low	Dry	1960	1930	1890	1850	1810	1770	1730
		Wet	1860	1830	1795	1760	1720	1680	1645
062 (With Heater)	High	Dry	2145	2080	2020	1960	1890	1820	1750
		Wet	2040	1975	1920	1860	1795	1730	1660
	Low	Dry	1935	1910	1870	1830	1790	1750	1705
		Wet	1840	1810	1775	1740	1700	1660	1620

OPTIONAL FIELD-INSTALLED ELECTRIC HEAT PACKAGES*

Heater P/N	517E Sizes Used With†	Heater Volts—Phase (60 Hz)‡	Nominal Heater KW @ 240V**				Heater Capacity (MBtuh)**		Internal Circuit Protection Provided	Supply Circuit Options	Approx Ship. Wt (lbs)
			Total	KW/Stage			208V	230V			
				1st	2nd	3rd					
305971-451	042, 048, 060, 062	208/230—1	7.5	7.5	—	—	19.2	23.5	None	Single	13
305971-452	042, 048, 060, 062	208/230—1	10	10	—	—	25.6	31.3	None	Single	13
305971-453	042, 048, 060, 062	208/230—1	10	10	—	—	25.6	31.3	Ckt Brkr	Single	14
305971-470	042, 048, 060, 062	208/230—3	10	6.66	3.33	—	25.6	31.3	None	Single	14
305971-471	042, 048, 060, 062	208/230—1	12	8	4	—	30.8	37.6	Fuses	Dual‡‡	15
305971-472	042, 048, 060, 062	208/230—1	15	10	5	—	38.5	47.0	Fuses	Dual‡‡	15
305971-473	042, 048, 060, 062	208/230—1	15	10	5	—	38.5	47.0	Ckt Brkr	Dual	15
305971-474	042, 048, 060, 062	208/230—3	15	10	5	—	38.5	47.0	None	Single	15
305971-475	042, 048, 060, 062	208/230—3	18	12	6	—	46.1	56.4	None	Single	15
305971-476	042, 048, 060, 062	208/230—1	20	10	10	—	51.3	62.7	Fuses	Dual‡‡	17
305971-477	042, 048, 060, 062	208/230—1	20	10	10	—	51.3	62.7	Ckt Brkr	Dual	17
305971-478††	048, 060, 062	208/230—3	25	8.33	8.33	8.33	64.1	78.4	Fuses	Single	20
305971-479††	048, 060, 062	208/230—3	30	10	10	10	76.9	86.0	Fuses	Single	20

*Refer to the appropriate unit/factory-installed heater combinations in the specifications tables in this PDS for the electrical application data for these heat packages.

†All heat packages are used with Model 517E Fan Units, sizes 003 and 004.

‡Operating voltage range is 187—253V.

**KW values shown are nominal rated heater outputs at 240V. Capacity values shown are calculated using nominal KW outputs.

††These heaters are field-convertible for single-phase operation by moving two factory high-voltage wires.

‡‡These heaters are factory-supplied for dual-circuit operation. Optional single-circuit kit P/N 301820-4001 is available to provide for single-circuit operation.

BRYANT RECOMMENDED ROOM THERMOSTATS & SUBBASES

Application	Thermostat		Subbase		
	P/N	Heat Anticipator Range	P/N	System Switch	Fan Switch
Single-Stage Electric Heating-Only	P271-2171	0.1-1.2	(Included)	(No Switch)	(No Switch)
	P272-2781	0.1-1.2	P272-1884	OFF-AUTO	AUTO-ON
Two-Stage Electric Heating-Only	P272-2782	0.1-1.2	P272-1885	HEAT-OFF-COOL	AUTO-ON
Single-Stage Cooling-Only	P271-2171	0.1-1.2	P271-1874	COOL-OFF	AUTO-ON
	P272-2781	0.1-1.2	P272-1884	OFF-AUTO	AUTO-ON
Single-Stage Electric Heating & Cooling					
Manual Changeover	P272-2781	0.1-1.2	P272-1885	HEAT-OFF-COOL	AUTO-ON
Autochangeover	P272-2781	0.1-1.2	P272-1882*	HEAT-AUTO-COOL-OFF	AUTO-ON
Two-Stage Electric Heating & Single-Stage Cooling					
Manual Changeover	P272-2782	0.1-1.2	P272-1885	HEAT-OFF-COOL	AUTO-ON
Autochangeover	P272-2782	0.1-1.2	P272-1882*	HEAT-AUTO-COOL-OFF	AUTO-ON
Heat Pump Heating & Cooling Without Electric Heater					
Manual Changeover	P271-3457	0.15-0.7†	(Included)	HEAT-OFF-COOL‡	AUTO-ON
Autochangeover	P271-3456	0.15-0.7†	(Included)	HEAT-AUTO-COOL-OFF‡	AUTO-ON
Heat Pump Heating & Cooling With Electric Heater					
Manual Changeover	P271-3457	0.15-0.7†	(Included)	HEAT-OFF-COOL‡	AUTO-ON
Autochangeover	P271-3456	0.15-0.7†	(Included)	HEAT-AUTO-COOL-OFF‡	AUTO-ON

*Field-supplied relay P/N P283-1203 must be installed as shown in unit Installation Instructions to energize the indoor blower during electric heating operation.

†The heat pump heating mode anticipator is fixed. Range shown is for adjustable electric heater second-stage heating anticipator.

‡These thermostats also have an emergency heat switch and indicator light.