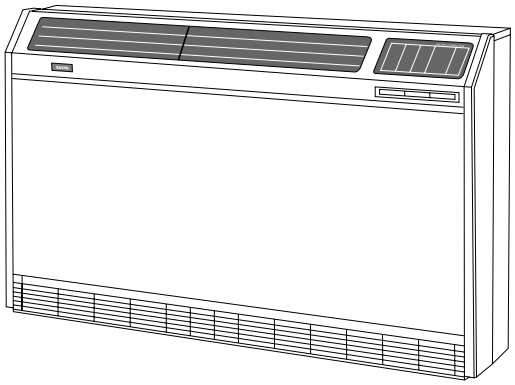
SERVICE MANUAL (Basic Information)

SANYO

FH1222 / CH1222
FH1822 / CH1822

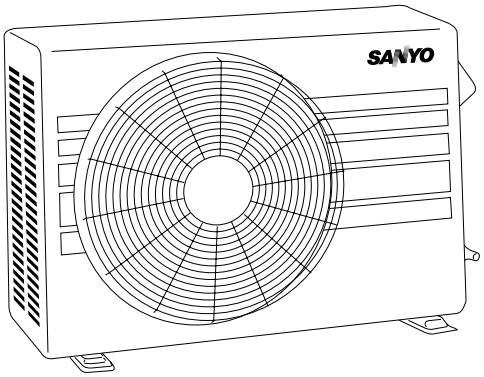
SPLIT SYSTEM AIR CONDITIONER

Indoor Unit

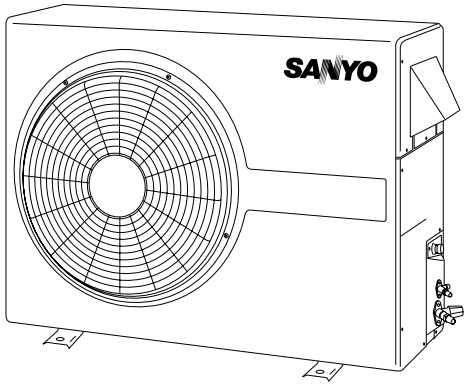


FH1222 / FH1822

Outdoor Unit



CH1222



CH1822

8526481017500

REFERENCE NO. WM−700701

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SERVICE MANUAL

FH1222 / CH1222
FH1822 / CH1822

(Basic Information)

IMPORTANT!
Please Read Before Starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning
- Follow each installation or repair step exactly as shown
- Observe all local, state, and national electrical codes
- Pay close attention to all warning and caution notices given in this manual

WARNING: This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

CAUTION: This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

If Necessary, Get Help

These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

SPECIAL PRECAUTIONS

When Wiring

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause **accidental injury or death.**
- **Ground the unit** following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

When Transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When Installing…

…In a Ceiling or Wall
Make sure the ceiling/wall is strong enough to hold the unit's weight. It may be necessary to construct a strong wood or metal frame to provide added support.

…In a Room
Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to walls and floors.

…In Moist or Uneven Locations
Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

…In an Area with High Winds
Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

…In a Snowy Area (for Heat Pump-type Systems)
Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

When Connecting Refrigerant Tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before starting the test run.

NOTE:
Depending on the system type, liquid and gas lines may be either narrow or wide. Therefore, to avoid confusion the refrigerant tubing for your particular model is specified as either "narrow" or "wide" rather than as "liquid" or "gas."

When Servicing

- Turn the power OFF at the main power box (mains) before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.

Table of Contents

1. OPERATING RANGE

FH1222 / CH1222, FH1822 / CH1822

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	95°F DB / 71°F WB	115°F DB
	Minimum	67°F DB / 57°F WB	67°F DB
Heating	Maximum	80°F DB / 67°F WB	75°F DB / 65°F WB
	Minimum	— DB / — WB	17°F DB / 15°F WB

2. SPECIFICATIONS

Unit Specifications

Model No.		Indoor unit		FH1222	
		Outdoor unit		CH1222	
Performance				Cooling	Heating
	Capacity		BTU/h	11,400 / 11,200	12,500 / 12,200
			kW	3.34 / 3.28	3.66 / 3.58
	Air circulation (High)		cu. ft./min.	350 / 340	
	Moisture removal (High)		Pints/h	3.3 / 3.2	
Electrical Rating	Phase, Frequency		Hz	Single, 60	
	Voltage rating		V	230 / 208	230 / 208
	Available voltage range		V	187 to 253	187 to 253
	Running amperes		A	5.6 / 5.9	5.2 / 5.5
	Power input		W	1,210 / 1,180	1,190 / 1,140
	Power factor		%	94 / 96	99 / 99
	Starting amperes		A	32	
	S.E.E.R. (H.S.P.F.)		BTU/Wh	10.0 / 10.0	(6.8 / 6.8)
	Heater element		kW	—	3.0 / 2.45
Features	Controls			Microprocessor	
	Control unit			Indoor unit	
	Temperature control			IC thermostat	
	Timer			ON/OFF, 12-hours	
	Fan speeds		Indoor / Outdoor	3 and Auto / 1	
	Air deflector		Horizontal / Vertical	Manual / Manual	
	Air filter			Washable, easy access	
	Compressor			Rotary	
	Refrigerant amount charged at shipment		lbs. (kg)	R22: 2.96 (1.34)	
	Refrigerant control			Capillary tube	
	Refrigerant tubing connections			Flare type	
	Operation sound	In-Hi / Me / Lo	dB-A	37 / 34 / 31	
		Out-Hi	dB-A	49	
	Max. allowable tubing length at shipment		ft. (m)	33 (10)	
	Limit of tubing length		ft. (m)	65 (20)	
	Limit of elevation difference between the 2 units		ft. (m)	Outdoor unit is higher than indoor unit: 23 (7) Outdoor unit is lower than indoor unit: 23 (7)	
	Refrigerant tube o.d.	Narrow tube	in. (mm)	1/4 (6.35)	
		Wide tube	in. (mm)	1/2 (12.7)	
	Refrigerant tube kit			Optional	
	Accessories			—	
Dimensions & Weight				Indoor unit	Outdoor unit
	Height		in. (mm)	26-25/32 (680)	20-7/8 (530)
	Width		in. (mm)	43-5/16 (1,100)	29-17/32 (750)
	Depth		in. (mm)	8-15/32 (215)	11-1/32 (280)
	Net weight		lbs. (kg)	66.1 (30.0)	92.6 (42.0)
	Shipping volume		cu. ft. (cu. m)	11.6 (0.33)	6.7 (0.19)
	Shipping weight (Approx.)		lbs. (kg)	90.4 (41.0)	99.2 (45.0)

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:

Cooling: Outside air temperature 95°F DB/75°F WB
Indoor unit entering air temperature 80°F DB/67°F WB

Heating: Outside air temperature 47°F DB/43°F WB
Indoor unit entering air temperature 70°F DB

Unit Specifications (cont'd)

Model No.		Indoor unit		FH1822	
		Outdoor unit		CH1822	
Performance				Cooling	Heating
	Capacity		BTU/h	16,500 / 16,000	18,000 / 17,600
			kW	4.84 / 4.69	5.27 / 5.16
	Air circulation (High)		cu. ft./min.	440 / 420	
	Moisture removal (High)		Pints/h	5.3 / 5.2	
Electrical Rating	Phase, Frequency		Hz	Single, 60	
	Voltage rating		V	230 / 208	230 / 208
	Available voltage range		V	187 to 253	187 to 253
	Running amperes		A	8.0 / 8.6	8.0 / 8.6
	Power input		W	1,790 / 1,740	1,790 / 1,750
	Power factor		%	97 / 97	97 / 97
	Starting amperes		A	52	
	S.E.E.R. (H.S.P.F.)		BTU/Wh	10.0 / 10.0	(6.8 / 6.8)
	Heater element		kW	—	3.3 / 2.7
Features	Controls			Microprocessor	
	Control unit			Indoor unit	
	Temperature control			IC thermostat	
	Timer			ON/OFF, 12-hours	
	Fan speeds		Indoor / Outdoor	3 and Auto / 1	
	Air deflector		Horizontal / Vertical	Manual / Manual	
	Air filter			Washable, easy access	
	Compressor			Rotary	
	Refrigerant amount charged at shipment		lbs. (kg)	R22: 4.25 (1.93)	
	Refrigerant control			Capillary tube	
	Refrigerant tubing connections			Flare type	
	Operation sound	In-Hi / Me / Lo	dB-A	47 / 44 / 40	
		Out-Hi	dB-A	55	
	Max. allowable tubing length at shipment		ft. (m)	33 (10)	
	Limit of tubing length		ft. (m)	65 (20)	
	Limit of elevation difference between the 2 units		ft. (m)	Outdoor unit is higher than indoor unit: 23 (7) Outdoor unit is lower than indoor unit: 23 (7)	
	Refrigerant tube o.d.	Narrow tube	in. (mm)	1/4 (6.35)	
		Wide tube	in. (mm)	5/8 (15.88)	
	Refrigerant tube kit			Optional	
	Accessories			—	
Dimensions & Weight				Indoor unit	Outdoor unit
	Height		in. (mm)	26-25/32 (680)	24-13/16 (630)
	Width		in. (mm)	43-5/16 (1,100)	32-11/16 (830)
	Depth		in. (mm)	8-15/32 (215)	12-13/32 (315)
	Net weight		lbs. (kg)	70.5 (32.0)	134.5 (61.0)
	Shipping volume		cu. ft. (cu. m)	11.7 (0.33)	10.3 (0.29)
	Shipping weight (Approx.)		lbs. (kg)	97.0 (44.0)	143.3 (65.0)

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Remarks: Rating conditions are:

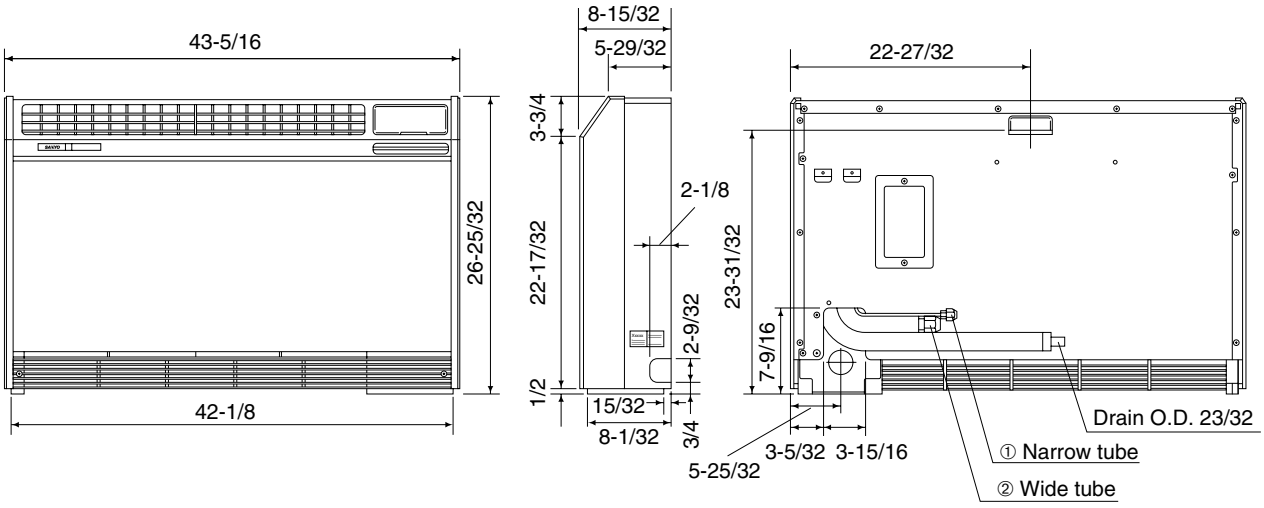
Cooling: Outside air temperature 95°F DB/75°F WB
Indoor unit entering air temperature 80°F DB/67°F WB

Heating: Outside air temperature 47°F DB/43°F WB
Indoor unit entering air temperature 70°F DB

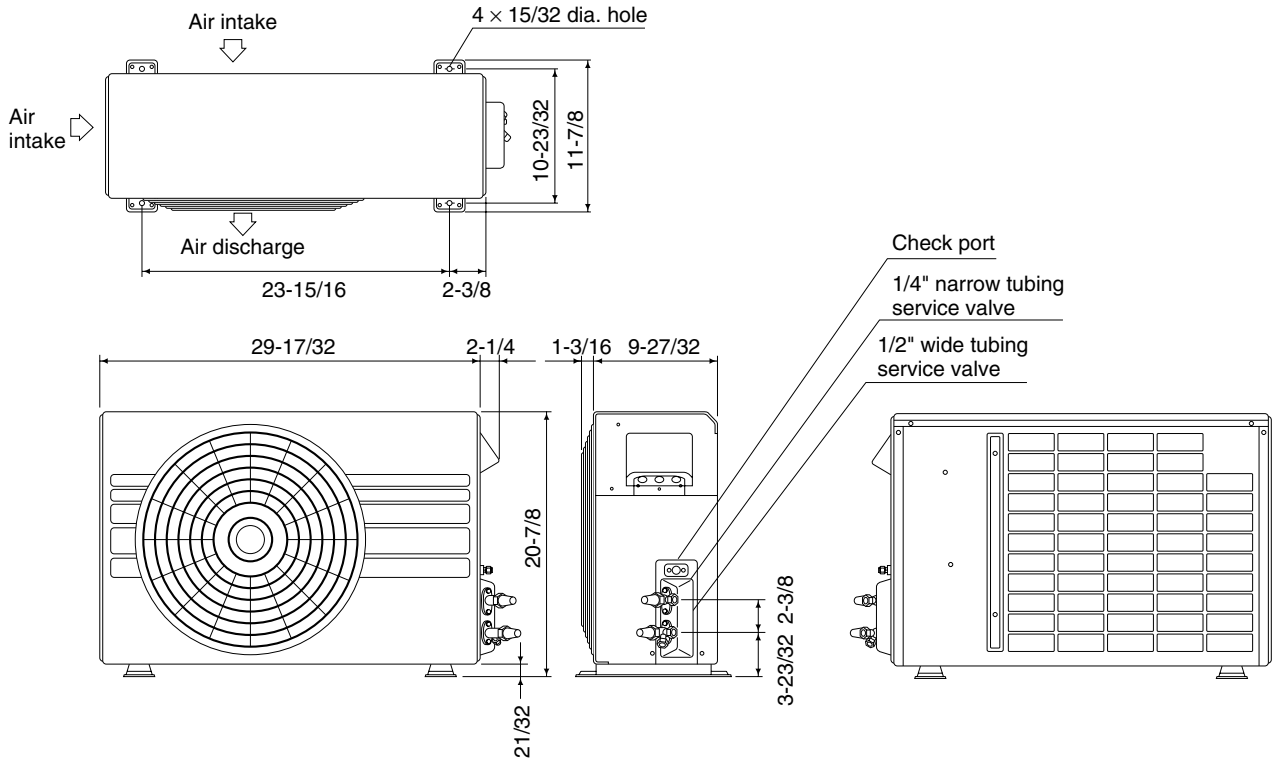
3. DIMENSIONAL DATA

Indoor Unit: FH1222, FH1822

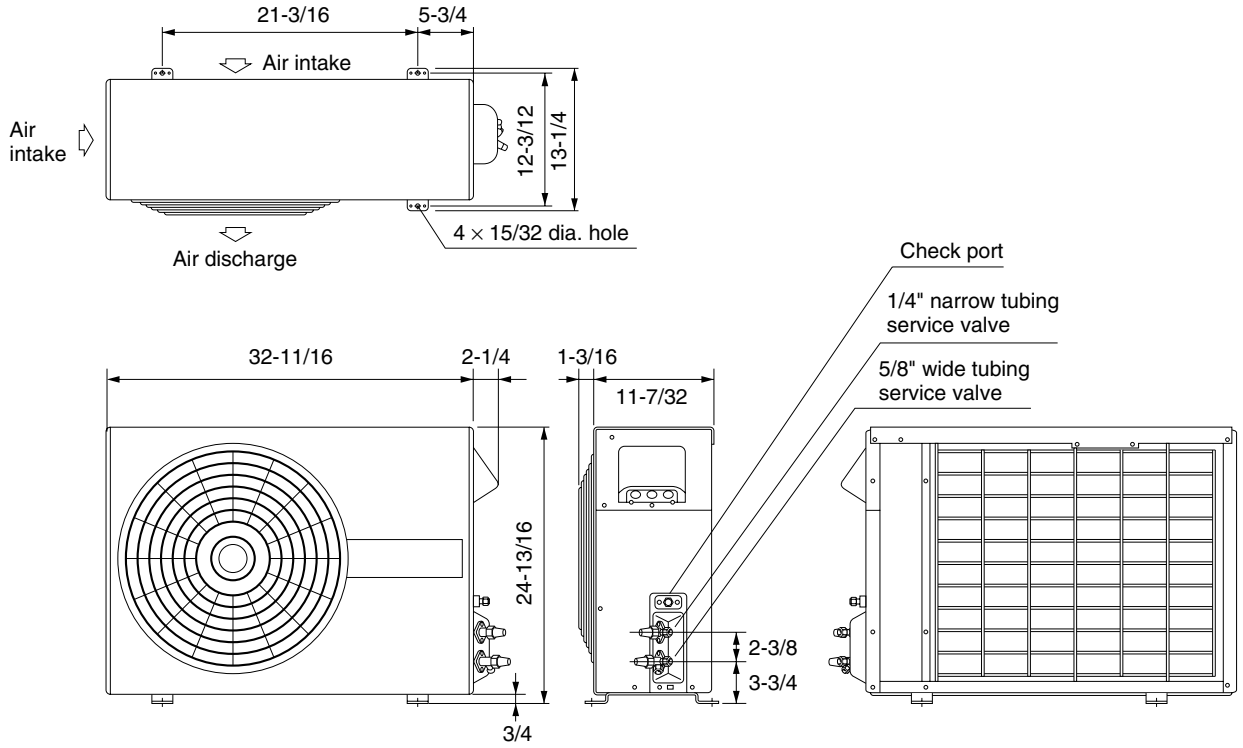
Model No.		FH1222	FH1822
①	Narrow tube in.	1/4	1/4
②	Wide tube in.	1/2	5/8



Outdoor Unit: CH1222



Outdoor Unit: CH1822



4. COOLING CAPACITY

230V

FH1222 / CH1222

Rating Capacity: 11,400 BTU/H		**Air Flow Rate: 350 CFM**					
Evaporator		**Condenser**					
Ent. Temp. °F/(°C)		**Ambient Temp. °F/(°C)**					
WB	DB		75 (23.9)	85 (29.4)	95 (35.0)	105 (40.6)	115 (46.1)
		TC	11,290	10,770	10,260	9,680	8,890
		kW	0.89	0.97	1.05	1.14	1.25
59 (15.0)	72 (22.2)	SHC	8,900	8,650	8,410	8,140	7,790
	76 (24.4)	SHC	10,200	9,960	9,720	9,450	8,890
	80 (26.7)	SHC	11,290	10,770	10,260	9,680	8,890
	84 (28.9)	SHC	11,290	10,770	10,260	9,680	8,890
	88 (31.1)	SHC	11,290	10,770	10,260	9,680	8,890
		TC	11,670	11,310	10,860	10,270	9,460
		kW	0.89	0.98	1.07	1.16	1.28
63 (17.2)	72 (22.2)	SHC	7,340	7,180	6,990	6,740	6,400
	76 (24.4)	SHC	8,650	8,490	8,300	8,040	7,700
	80 (26.7)	SHC	10,010	9,850	9,660	9,410	9,070
	84 (28.9)	SHC	11,320	11,160	10,860	10,270	9,460
	88 (31.1)	SHC	11,670	11,310	10,860	10,270	9,460
		TC	11,990	11,800	*11,400	10,770	10,030
		kW	0.90	0.99	1.08	1.18	1.31
67 (19.4)	72 (22.2)	SHC	5,750	5,670	5,510	5,270	4,980
	76 (24.4)	SHC	7,060	6,980	6,820	6,570	6,290
	80 (26.7)	SHC	8,420	8,340	8,180	7,940	7,650
	84 (28.9)	SHC	9,720	9,650	9,490	9,240	8,960
	88 (31.1)	SHC	11,030	10,950	10,790	10,550	10,030
		TC	12,370	12,160	11,860	11,320	10,660
		kW	0.91	1.00	1.10	1.21	1.33
71 (21.7)	72 (22.2)	SHC	4,110	4,040	3,930	3,730	3,500
	76 (24.4)	SHC	5,410	5,340	5,230	5,040	4,810
	80 (26.7)	SHC	6,780	6,700	6,590	6,400	6,170
	84 (28.9)	SHC	8,080	8,010	7,900	7,710	7,480
	88 (31.1)	SHC	9,390	9,310	9,200	9,010	8,780
		TC	12,610	12,470	12,200	11,760	11,290
		kW	0.93	1.02	1.11	1.24	1.37
75 (23.9)	76 (24.4)	SHC	3,790	3,750	3,660	3,520	3,370
	80 (26.7)	SHC	5,160	5,110	5,020	4,880	4,730
	84 (28.9)	SHC	6,460	6,420	6,330	6,190	6,040
	88 (31.1)	SHC	7,770	7,720	7,630	7,490	7,340

TC: Total Cooling Capacity (BTU/H)
SHC: Sensible Heat Capacity (BTU/H)
kW: Compressor Input (kW)

Remarks: Rating conditions (* mark) are: Outdoor ambient temperature 95°F DB
Indoor unit entering air temperature 80°F DB/67°F WB

208V

FH1222 / CH1222

Rating Capacity: 11,200 BTU/H		Air Flow Rate: 340 CFM					
Evaporator		**Condenser**					
Ent. Temp. °F/(°C)		**Ambient Temp. °F/(°C)**					
WB	DB		75 (23.9)	85 (29.4)	95 (35.0)	105 (40.6)	115 (46.1)
		TC	11,090	10,580	10,080	9,510	8,740
		kW	0.88	0.96	1.04	1.13	1.24
59 (15.0)	72 (22.2)	SHC	8,710	8,470	8,240	7,970	7,620
	76 (24.4)	SHC	9,980	9,740	9,510	9,240	8,740
	80 (26.7)	SHC	11,090	10,580	10,080	9,510	8,740
	84 (28.9)	SHC	11,090	10,580	10,080	9,510	8,740
	88 (31.1)	SHC	11,090	10,580	10,080	9,510	8,740
		TC	11,470	11,110	10,670	10,090	9,300
		kW	0.89	0.97	1.06	1.15	1.27
63 (17.2)	72 (22.2)	SHC	7,200	7,040	6,850	6,600	6,270
	76 (24.4)	SHC	8,470	8,310	8,120	7,870	7,540
	80 (26.7)	SHC	9,800	9,640	9,450	9,200	8,870
	84 (28.9)	SHC	11,070	10,910	10,670	10,090	9,300
	88 (31.1)	SHC	11,470	11,110	10,670	10,090	9,300
		TC	11,780	11,590	*11,200	10,580	9,860
		kW	0.89	0.98	1.07	1.17	1.29
67 (19.4)	72 (22.2)	SHC	5,640	5,560	5,410	5,170	4,890
	76 (24.4)	SHC	6,910	6,840	6,680	6,440	6,160
	80 (26.7)	SHC	8,240	8,170	8,010	7,770	7,490
	84 (28.9)	SHC	9,520	9,440	9,280	9,040	8,760
	88 (31.1)	SHC	10,790	10,710	10,560	10,310	9,860
		TC	12,150	11,950	11,650	11,120	10,470
		kW	0.90	0.99	1.09	1.20	1.32
71 (21.7)	72 (22.2)	SHC	4,040	3,960	3,860	3,670	3,440
	76 (24.4)	SHC	5,310	5,240	5,130	4,940	4,710
	80 (26.7)	SHC	6,640	6,570	6,460	6,270	6,040
	84 (28.9)	SHC	7,910	7,840	7,730	7,540	7,320
	88 (31.1)	SHC	9,190	9,110	9,000	8,820	8,590
		TC	12,390	12,250	11,980	11,560	11,090
		kW	0.92	1.01	1.10	1.23	1.35
75 (23.9)	76 (24.4)	SHC	3,730	3,680	3,600	3,460	3,310
	80 (26.7)	SHC	5,060	5,010	4,930	4,790	4,640
	84 (28.9)	SHC	6,330	6,290	6,200	6,060	5,910
	88 (31.1)	SHC	7,600	7,560	7,470	7,330	7,180

TC: Total Cooling Capacity (BTU/H)
SHC: Sensible Heat Capacity (BTU/H)
kW: Compressor Input (kW)

Remarks: Rating conditions (* mark) are: Outside ambient temperature 95°F DB
Indoor unit entering air temperature 80°F DB/67°F WB

230V

FH1822 / CH1822

Rating Capacity: 16,500 BTU/H		Air Flow Rate: 440 CFM					
Evaporator		**Condenser**					
Ent. Temp. °F/(°C)		**Ambient Temp. °F/(°C)**					
WB	DB		75 (23.9)	85 (29.4)	95 (35.0)	105 (40.6)	115 (46.1)
		TC	16,340	15,590	14,850	14,010	12,870
		kW	1.29	1.41	1.53	1.66	1.82
59 (15.0)	72 (22.2)	SHC	11,990	11,620	11,250	10,840	10,300
	76 (24.4)	SHC	13,580	13,210	12,840	12,430	11,890
	80 (26.7)	SHC	15,250	14,870	14,510	14,010	12,870
	84 (28.9)	SHC	16,340	15,590	14,850	14,010	12,870
	88 (31.1)	SHC	16,340	15,590	14,850	14,010	12,870
		TC	16,900	16,370	15,720	14,870	13,700
		kW	1.30	1.43	1.55	1.69	1.86
63 (17.2)	72 (22.2)	SHC	10,020	9,780	9,490	9,100	8,580
	76 (24.4)	SHC	11,620	11,370	11,080	10,690	10,170
	80 (26.7)	SHC	13,280	13,040	12,740	12,360	11,840
	84 (28.9)	SHC	14,870	14,630	14,330	13,950	13,430
	88 (31.1)	SHC	16,460	16,220	15,720	14,870	13,700
		TC	17,360	17,080	*16,500	15,590	14,520
		kW	1.31	1.44	1.57	1.71	1.90
67 (19.4)	72 (22.2)	SHC	7,990	7,880	7,630	7,260	6,820
	76 (24.4)	SHC	9,590	9,470	9,230	8,850	8,420
	80 (26.7)	SHC	11,250	11,130	10,890	10,520	10,080
	84 (28.9)	SHC	12,840	12,720	12,480	12,110	11,670
	88 (31.1)	SHC	14,430	14,320	14,070	13,700	13,260
		TC	17,900	17,610	17,160	16,380	15,430
		kW	1.33	1.45	1.59	1.76	1.94
71 (21.7)	72 (22.2)	SHC	5,910	5,790	5,630	5,330	4,980
	76 (24.4)	SHC	7,500	7,390	7,220	6,930	6,570
	80 (26.7)	SHC	9,160	9,050	8,880	8,590	8,240
	84 (28.9)	SHC	10,760	10,640	10,470	10,180	9,830
	88 (31.1)	SHC	12,350	12,230	12,060	11,770	11,420
		TC	18,250	18,050	17,660	17,030	16,340
		kW	1.35	1.48	1.62	1.80	1.99
75 (23.9)	76 (24.4)	SHC	5,430	5,360	5,220	5,010	4,780
	80 (26.7)	SHC	7,090	7,020	6,890	6,670	6,440
	84 (28.9)	SHC	8,680	8,610	8,480	8,270	8,030
	88 (31.1)	SHC	10,270	10,210	10,070	9,860	9,630

TC: Total Cooling Capacity (BTU/H)
SHC: Sensible Heat Capacity (BTU/H)
kW: Compressor Input (kW)

Remarks: Rating conditions (* mark) are: Outside ambient temperature 95°F DB
Indoor unit entering air temperature 80°F DB/67°F WB

208V

FH1822 / CH1822

Rating Capacity: 16,000 BTU/H		Air Flow Rate: 420 CFM					
Evaporator		**Condenser**					
Ent. Temp. °F/(°C)		**Ambient Temp. °F/(°C)**					
WB	DB		75 (23.9)	85 (29.4)	95 (35.0)	105 (40.6)	115 (46.1)
		TC	15,840	15,120	14,400	13,580	12,480
		kW	1.26	1.38	1.50	1.62	1.79
59 (15.0)	72 (22.2)	SHC	11,600	11,240	10,880	10,480	9,960
	76 (24.4)	SHC	13,130	12,770	12,410	12,010	11,490
	80 (26.7)	SHC	14,730	14,370	14,010	13,580	12,480
	84 (28.9)	SHC	15,840	15,120	14,400	13,580	12,480
	88 (31.1)	SHC	15,840	15,120	14,400	13,580	12,480
		TC	16,380	15,870	15,250	14,420	13,280
		kW	1.28	1.40	1.52	1.66	1.82
63 (17.2)	72 (22.2)	SHC	9,710	9,470	9,190	8,810	8,310
	76 (24.4)	SHC	11,240	11,000	10,720	10,340	9,840
	80 (26.7)	SHC	12,840	12,600	12,310	11,940	11,440
	84 (28.9)	SHC	14,370	14,130	13,840	13,470	12,970
	88 (31.1)	SHC	15,900	15,660	15,250	14,420	13,280
		TC	16,830	16,560	*16,000	15,120	14,080
		kW	1.29	1.41	1.54	1.68	1.86
67 (19.4)	72 (22.2)	SHC	7,760	7,640	7,410	7,040	6,620
	76 (24.4)	SHC	9,290	9,170	8,930	8,570	8,150
	80 (26.7)	SHC	10,880	10,770	10,530	10,170	9,750
	84 (28.9)	SHC	12,410	12,300	12,060	11,700	11,280
	88 (31.1)	SHC	13,940	13,830	13,590	13,230	12,810
		TC	17,360	17,070	16,640	15,890	14,960
		kW	1.30	1.42	1.56	1.72	1.90
71 (21.7)	72 (22.2)	SHC	5,750	5,640	5,470	5,190	4,850
	76 (24.4)	SHC	7,280	7,170	7,000	6,720	6,380
	80 (26.7)	SHC	8,880	8,770	8,600	8,320	7,980
	84 (28.9)	SHC	10,400	10,290	10,130	9,850	9,500
	88 (31.1)	SHC	11,930	11,820	11,660	11,380	11,030
		TC	17,700	17,500	17,120	16,510	15,840
		kW	1.32	1.45	1.59	1.76	1.95
75 (23.9)	76 (24.4)	SHC	5,280	5,210	5,080	4,880	4,650
	80 (26.7)	SHC	6,880	6,810	6,680	6,480	6,250
	84 (28.9)	SHC	8,410	8,340	8,210	8,000	7,780
	88 (31.1)	SHC	9,940	9,870	9,740	9,530	9,310

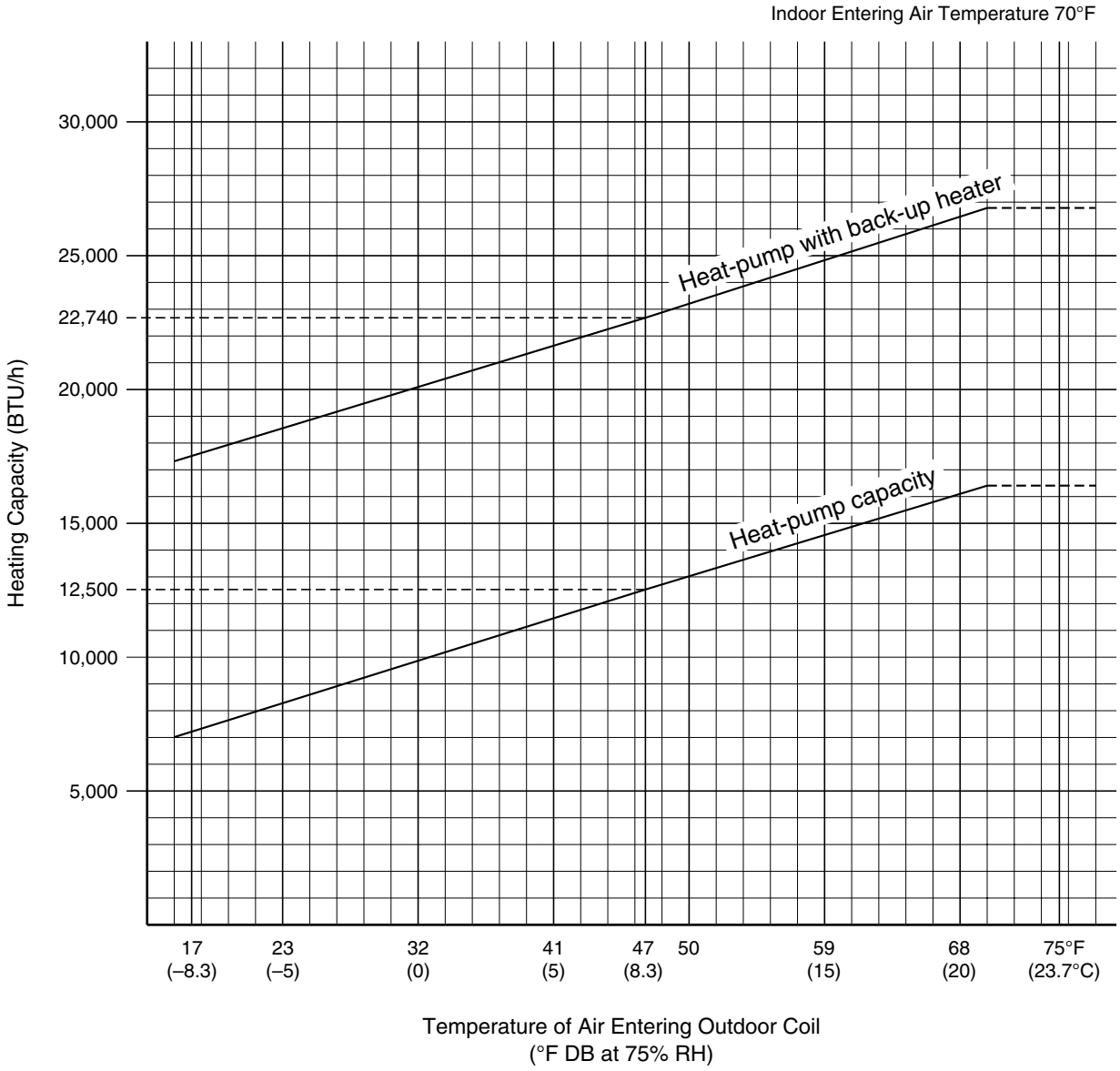
TC: Total Cooling Capacity (BTU/H)
SHC: Sensible Heat Capacity (BTU/H)
kW: Compressor Input (kW)

Remarks: Rating conditions (* mark) are: Outside ambient temperature 95°F DB
Indoor unit entering air temperature 80°F DB/67°F WB

5. HEATING CAPACITY

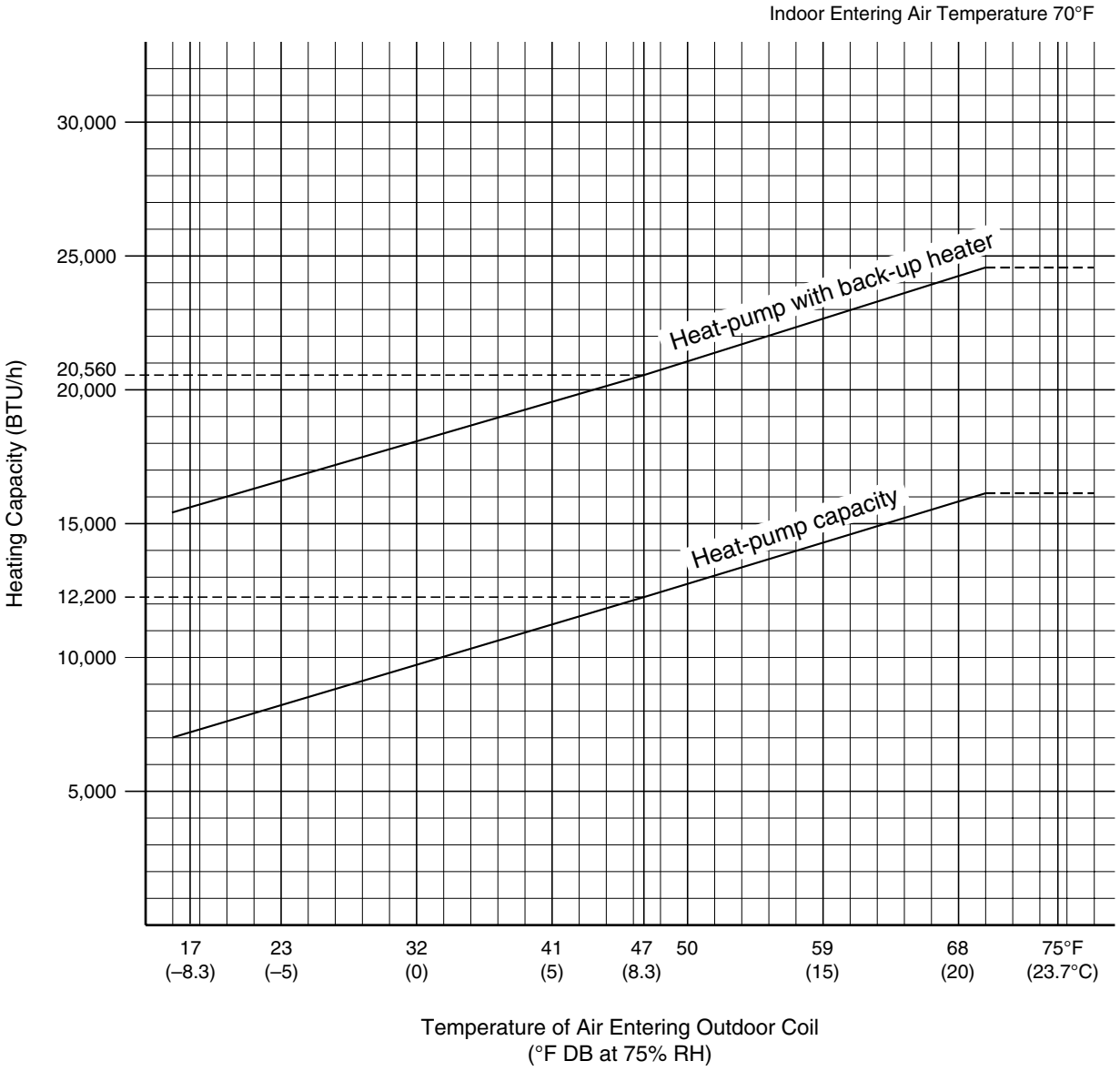
FH1222 / CH1222

230V



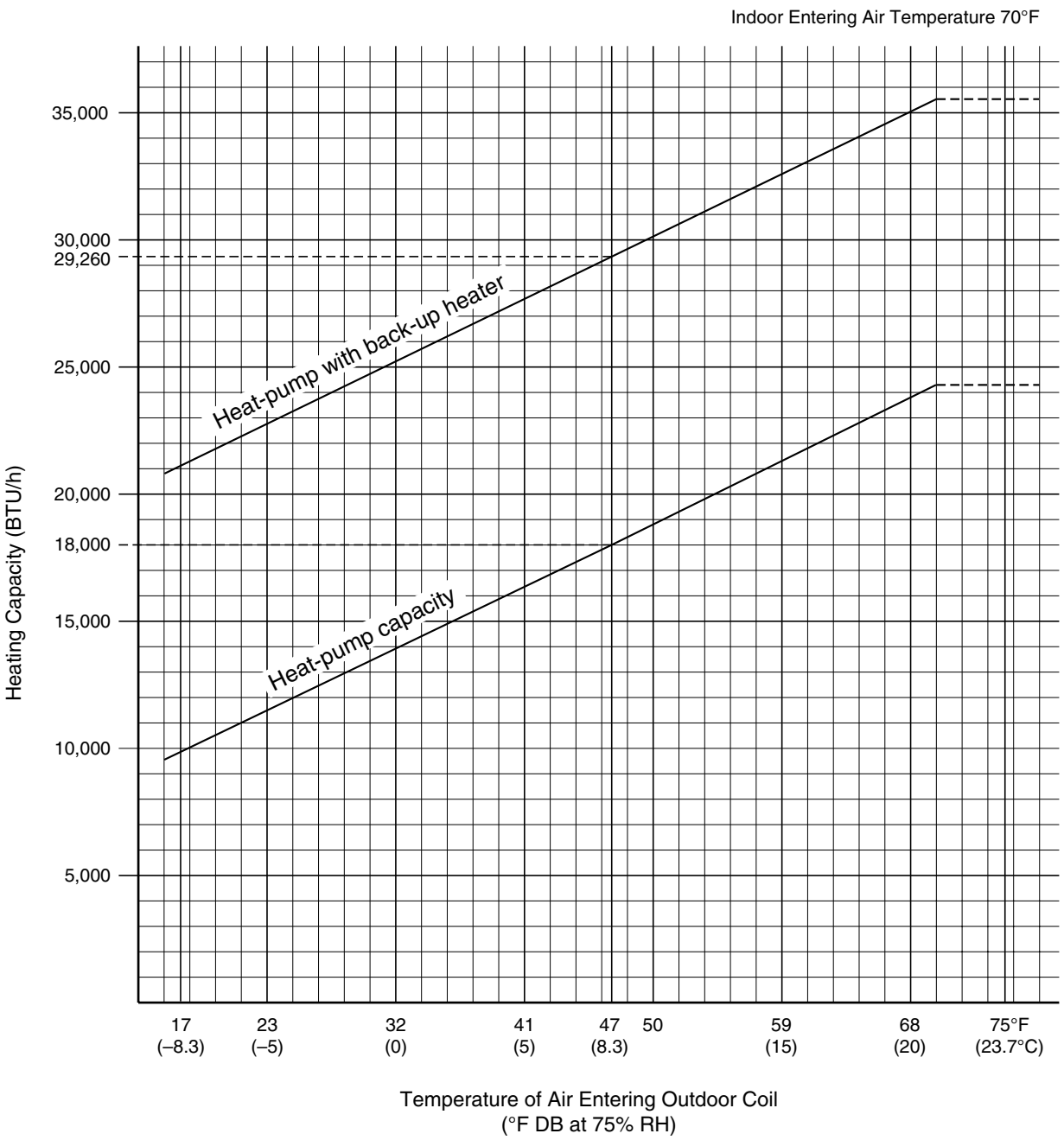
FH1222 / CH1222

208V



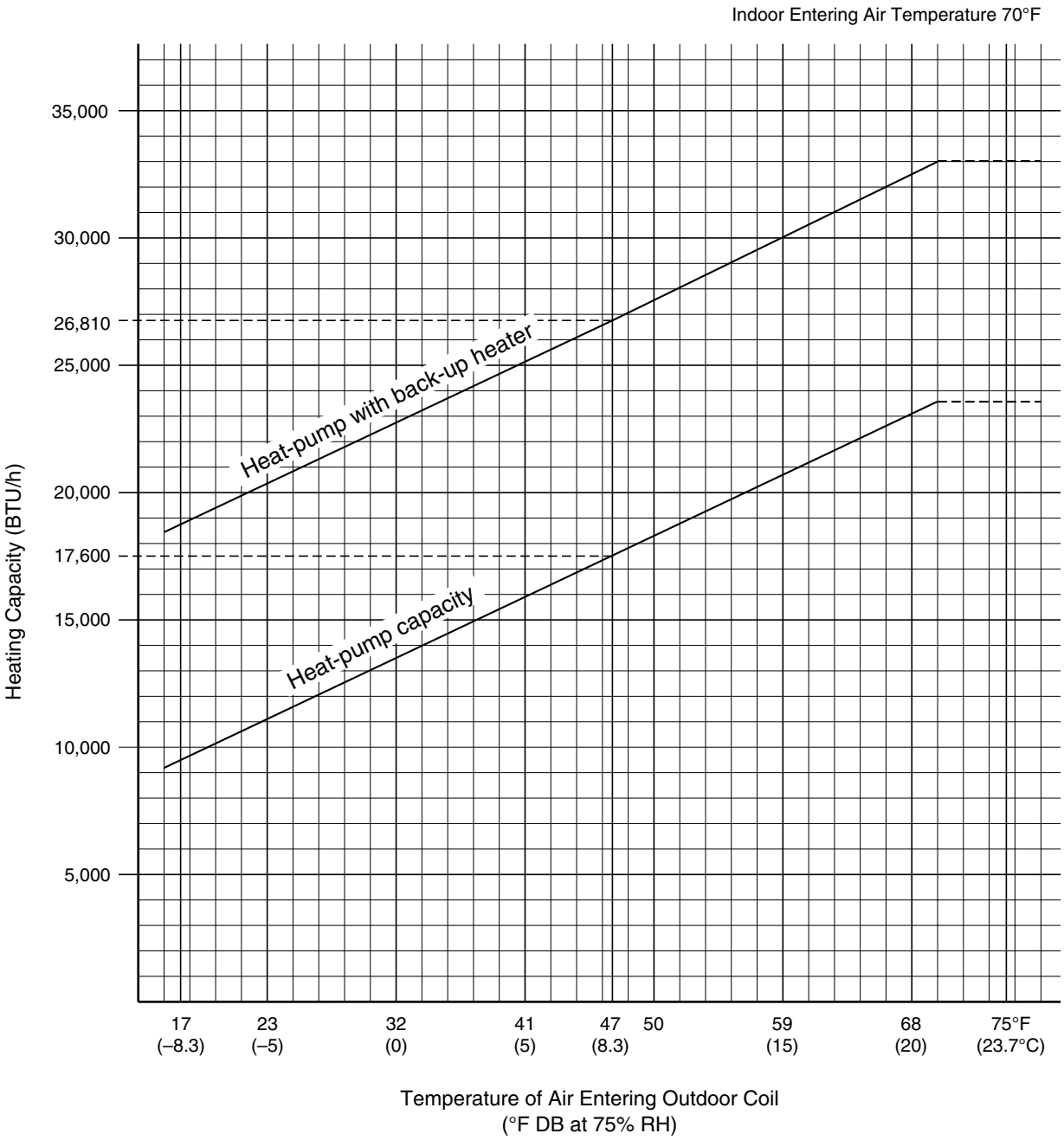
FH1822 / CH1822

230V



FH1822 / CH1822

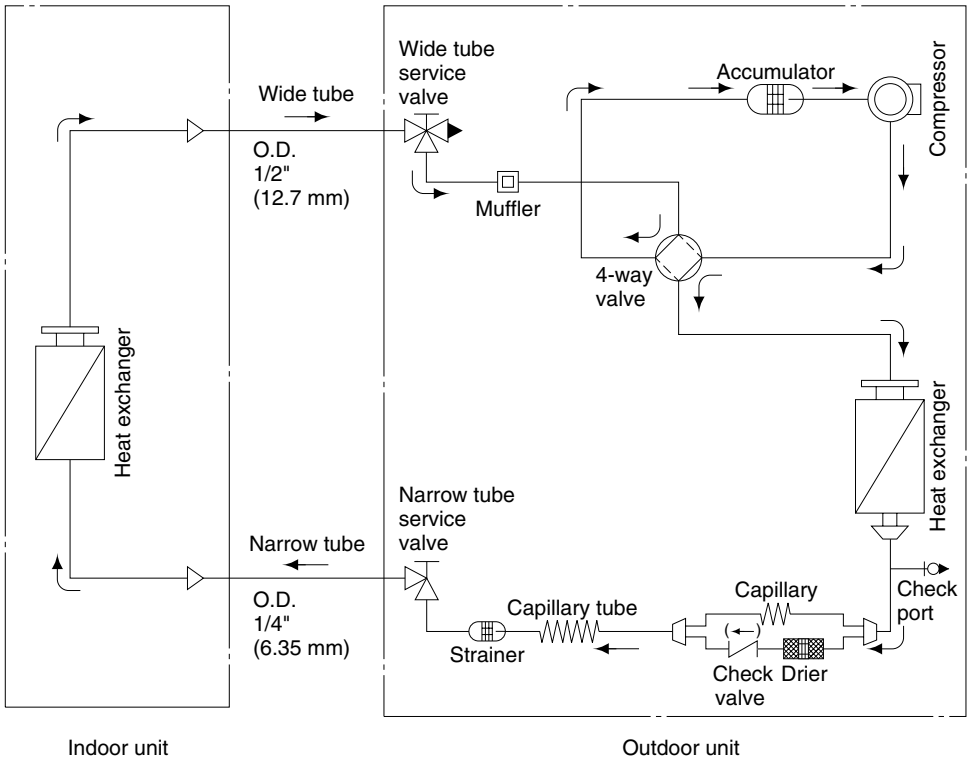
208V



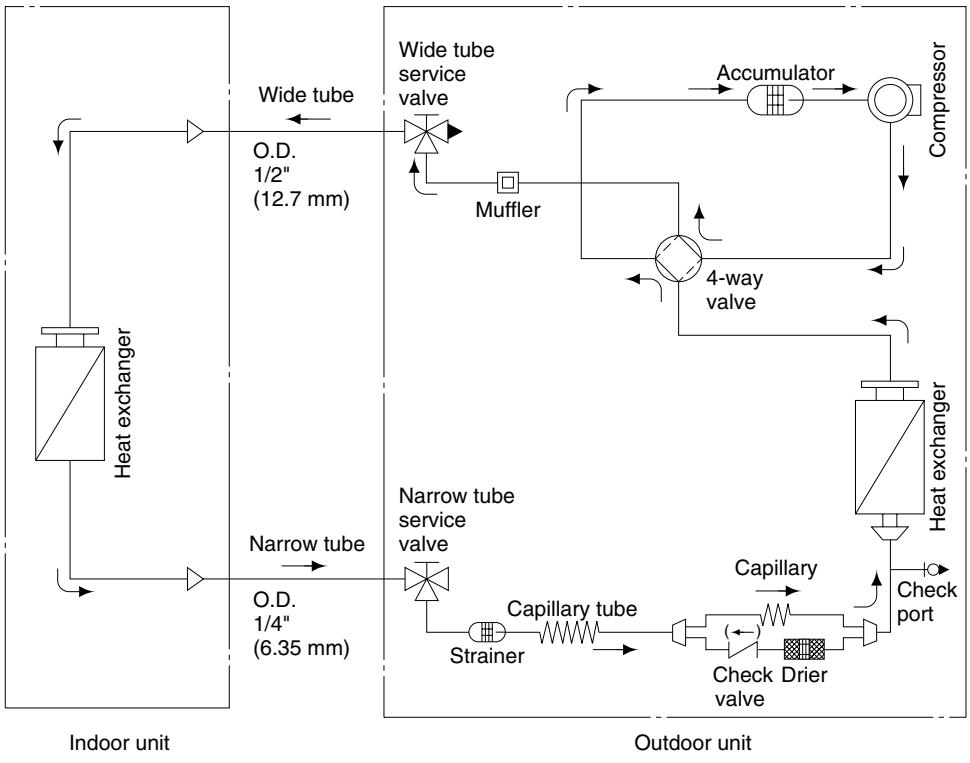
6. REFRIGERANT FLOW DIAGRAM

FH1222 / CH1222

Cooling Cycle

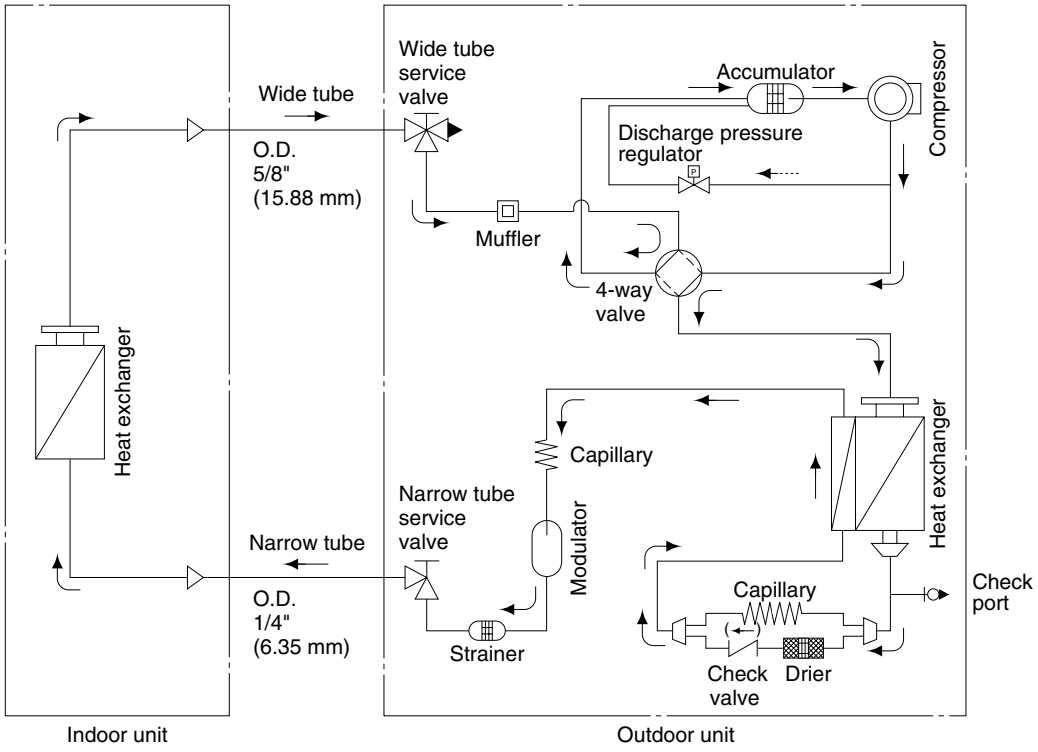


Heating Cycle

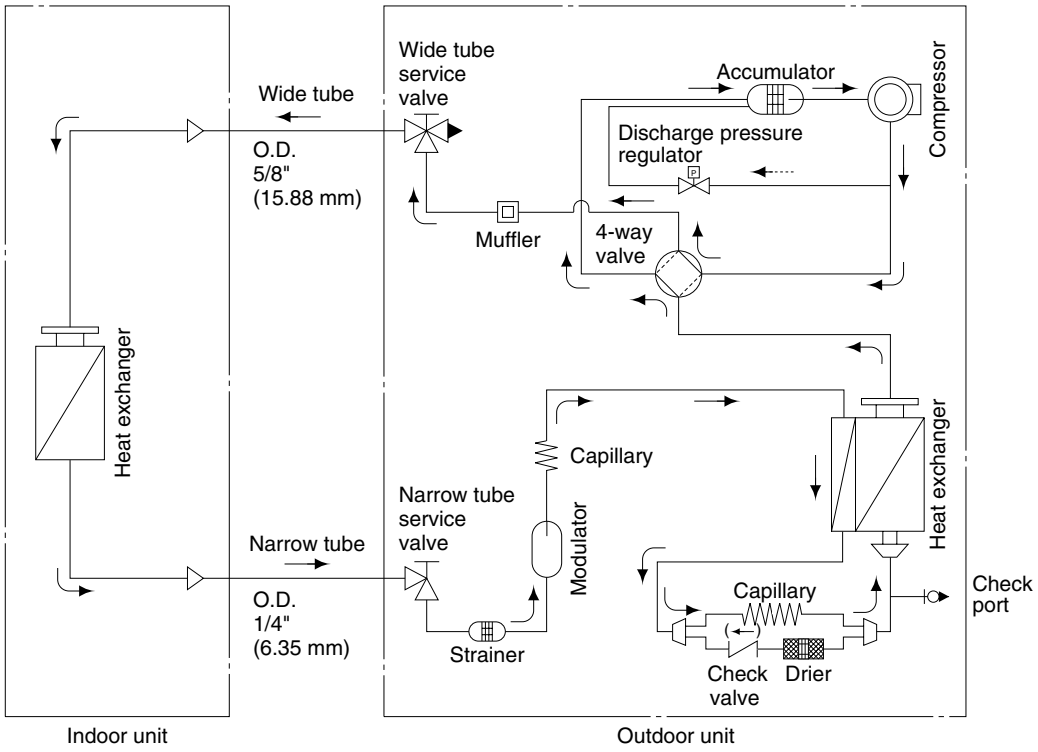


FH1822 / CH1822

Cooling Cycle



Heating Cycle



7. ELECTRICAL DATA

● Electrical Characteristics

FH1222 / CH1222

Performance at 230/208V – 1ø – 60Hz			Indoor Unit		Outdoor Unit		Complete Unit	
			Fan Motor	Max. Heat	Fan Motor	Compressor	Heat-pump	Max. Heat
Cooling	Rating Conditions	A	0.18 / 0.17	—	0.42 / 0.39	5.0 / 5.34	5.6 / 5.9	—
		W	40 / 35	—	95 / 80	1,075 / 1,065	1,210 / 1,180	—
Heating	Rating Conditions	A	0.18 / 0.17	13.0 / 11.8	0.42 / 0.39	4.6 / 4.94	5.2 / 5.5	18.2 / 17.3
		W	40 / 35	3,000 / 2,450	95 / 80	1,055 / 1,025	1,190 / 1,140	4,190 / 3,590
Locked-Rotor Amperes		A	0.23 / 0.21	—	0.45 / 0.41	32	—	—

Remarks: Rating conditions are:

Cooling: Outside air temperature 95°F DB/75°F WB
Indoor unit entering air temperature 80°F DB/67°F WB

Heating: Outside air temperature 47°F DB/43°F WB
Indoor unit entering air temperature 70°F WB

FH1822 / CH1822

Performance at 230/208V – 1ø – 60Hz			Indoor Unit		Outdoor Unit		Complete Unit	
			Fan Motor	Max. Heat	Fan Motor	Compressor	Heat-pump	Max. Heat
Cooling	Rating Conditions	A	0.54 / 0.53	—	0.47 / 0.47	6.99 / 7.60	8.0 / 8.6	—
		W	120 / 105	—	105 / 95	1,565 / 1,540	1,790 / 1,740	—
Heating	Rating Conditions	A	0.54 / 0.53	14.3 / 13.0	0.47 / 0.47	6.99 / 7.60	8.0 / 8.6	22.3 / 21.6
		W	120 / 105	3,300 / 2,700	105 / 95	1,565 / 1,540	1,790 / 1,740	5,090 / 4,440
Locked-Rotor Amperes		A	0.73 / 0.65	—	0.71 / 0.64	52	—	—

Remarks: Rating conditions are:

Cooling: Outside air temperature 95°F DB/75°F WB
Indoor unit entering air temperature 80°F DB/67°F WB

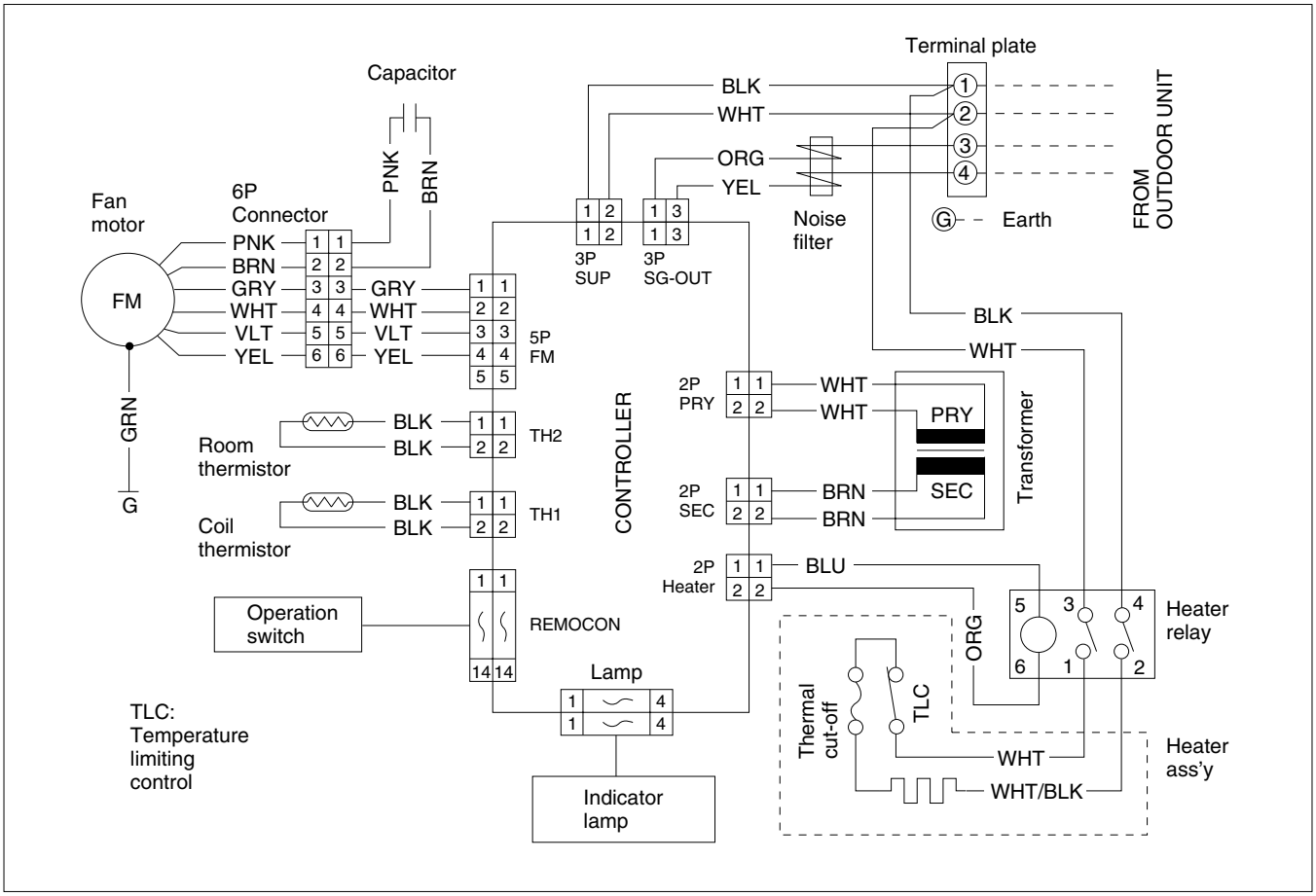
Heating: Outside air temperature 47°F DB/43°F WB
Indoor unit entering air temperature 70°F WB

● **Electric Wiring Diagram**

Indoor Unit: FH1222, FH1822

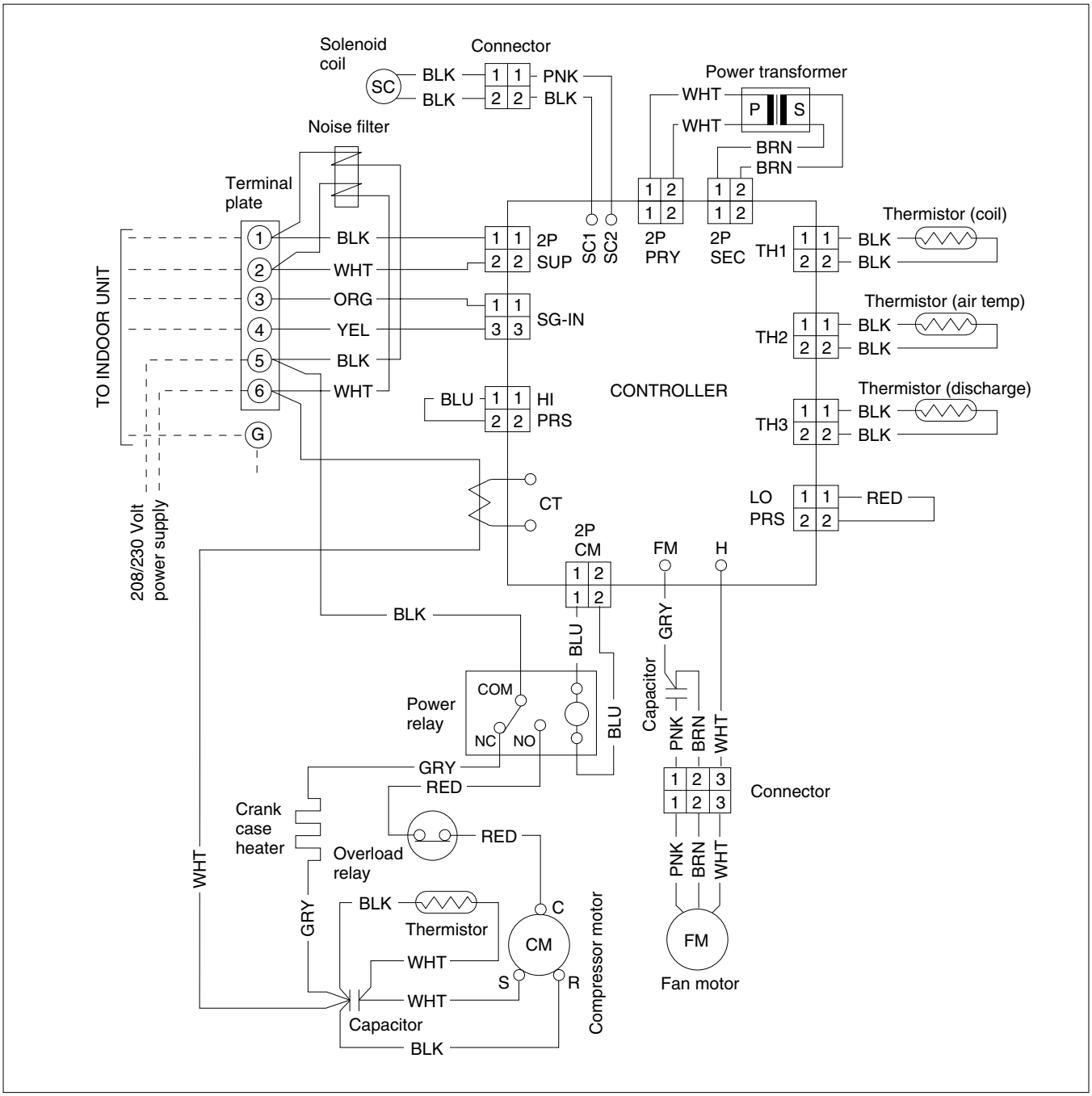
WARNING:

To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.



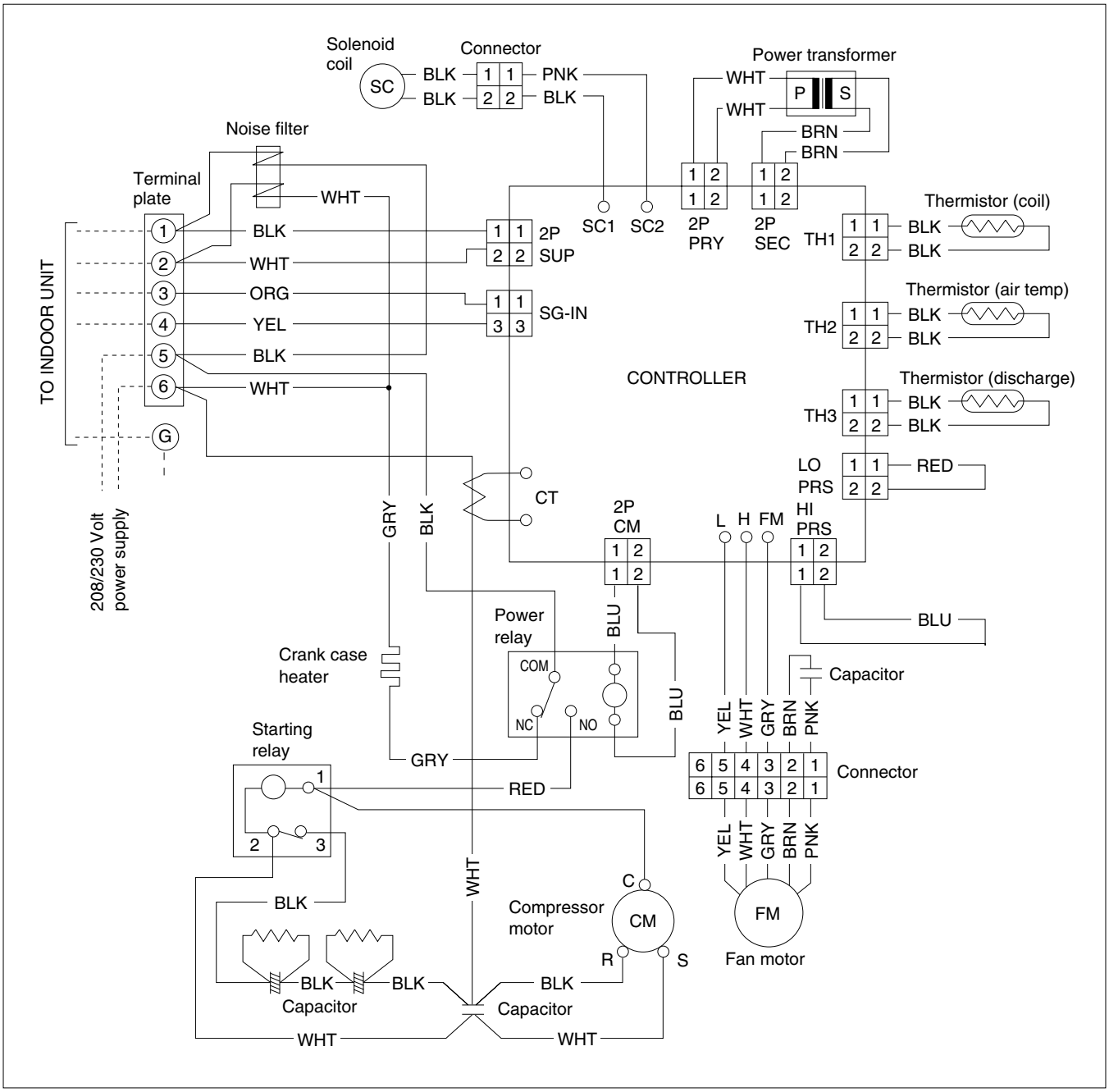
Outdoor Unit: CH1222

WARNING: ***To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.***



Outdoor Unit: CH1822

WARNING: ***To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.***



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