

PURCHASER	P.O. #	DATE
PROJECT	LOCATION	
ENGINEER	ARCHITECT	
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING BTU/H	VOLTAGE	FRIEDRICH MODEL

BREEZE™

THE UNIVERSAL HEAT PUMP

AIR HANDLER/INDOOR UNITS:



WFH24Y193C, WFH36Y193C

WFH48Y223C, WFH60Y223C

FEATURES

- Universal compatibility to existing air handler or gas furnace
- Accommodates long piping runs up to 246 ft. for Premier models and up to 131 ft. for Select models and height differentials up to 98 ft.
- Precision Inverter® delivers efficiencies of up to 19.0 SEER2 and 10 HSPF2.
- Operates in extreme temperatures down to -22° F in heat pump mode, with cooling in temperatures as low as 5°F.
- Built-in base pan heater and optional auxiliary heater kit.
- Soft-Start™ technology for quiet start-up, and precise temperature control.
- Quiet operation as low as 35 dB(A).
- Ultra-compact design with a 40% smaller footprint than traditional and top-discharge units.
- Multi-position Air Handler.
- ENERGY STAR® Certified for Cold Climate models available.
- Eligible for many federal & local tax credit & rebate incentives.

INVERTER HEAT PUMP CONDENSER/OUTDOOR



WFH24Y193D

WFH36Y193D

WFH48Y193D, WFH60Y193D

HEATER KITS

- AUX5KWA
- AUX7KWA
- AUX10KWA
- AUX15KWA
- AUX20KWA

Specifications

BREEZE™ Select
THE UNIVERSAL HEAT PUMP



2-Ton



3-Ton



4-Ton



5-Ton

SYSTEM COMPONENTS	Indoor Model	Unit	WFH24Y193D	WFH36Y193D	WFH48Y223D	WFH60Y223D
	Outdoor Model		WFPUI7Y243D	WFPUI7Y363D	WFPUI7Y483D	WFPUI7Y603D
ENVIRONMENTAL	ENERGY STAR® Standard	Y/N	N	N	N	N
	ENERGY STAR® Cold Climate	Y/N	Y	N	Y	N
	A2L Sensor	Y/N	Y	Y	Y	Y
ELECTRICAL	Power Supply	V/Hz/ph	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Rated Current – Indoor	A	2.6	3.8	5.4	5.4
	MOP – Indoor	A	10	10	10	10
	MCA – Indoor	A	3.3	4.8	6.8	6.8
	Thermostat Type		24V	24V	24V	24V
	Rated Current – Outdoor	A	8.77	13.09	17.22	20.84
	MCA – Outdoor	A	16	21	33	33
	Max. Circuit Breaker	A	25	30	50	50
	Communication Cable		6 × 18AWG	6 × 18AWG	6 × 18AWG	6 × 18AWG
COOLING PERFORMANCE	Rated Capacity @ 95°F	Btu/h	24,000	35,000	48,000	54,000
	Cooling Capacity Range (Min.–Max.)	Btu/h	6,000–24,600	11,000–36,500	14,000–48,600	14,000–54,000
	Cooling Capacity Range (Min.–Max.)	W	1,760–7,200	3,223–10,700	4,100–14,200	4,100–15,800
	Capacity @ 115°F	Btu/h	22,600	28,200	40,000	44,400
	Power Input	W	2,616	3,104	4,720	5,246
	Current	A	11.6	13.72	22	24
	EER2 @ 95°F	Btu/h/W	10	9.8	10	8.8
	SEER2	Btu/h/W	18	17.5	18	17
	Operating Temp. Range – Indoor	°F (°C)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)
HEATING PERFORMANCE	Operating Temp. Range – Outdoor	°F (°C)	5–115 (–15–46)	5–115 (–15–46)	5–115 (–15–46)	5–115 (–15–46)
	Rated Capacity @ 47°F	Btu/h	24,000	36,000	48,000	55,000
	Heating Capacity Range (Min.–Max.)	Btu/h	3,750–25,500	6,100–39,400	7,490–49,300	7,490–57,300
	Heating Capacity Range (Min.–Max.)	W	1,100–7,471	1,787–11,544	2,194–14,444	2,190–16,789
	Power Input	W	1,917	2,859	3,761	4,554
	COP @ 47°F	W/W	3.67	3.69	3.74	3.54
	COP @ 5°F	W/W	2	2	2	1.95
	HSPF2	Btu/h/W	9	9	9	8.5
	Rated Heating Capacity @ 17°F (–8.3°C)	Btu/h	17,000	22,200	32,200	33,200
	Max. Heating Capacity @ 5°F (–15°C)	Btu/h	18,000	22,000	35,000	36,000
	Max. Heating Capacity @ –5°F (–20.5°C)	Btu/h	11,400	18,000	26,600	29,600
	Operating Temp. Range – Indoor	°F (°C)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)	45–95 (7–35)
INDOOR FAN MOTOR (Multi-speed ECM)	Operating Temp. Range – Outdoor	°F (°C)	–4–75 (–20–24)	–4–75 (–20–24)	–4–75 (–20–24)	–4–75 (–20–24)
	Output	HP	1/3	1/2	3/4	3/4
	RLA	A	2.4–2.6	3.6–3.8	5.0–5.4	5.0–5.4
	Speed	r/min.	350–1,400	350–1,400	350–1,400	350–1,400
	Indoor Airflow Rated	CFM (m³/h)	800 (1,360)	1,120 (1,905)	1,706 (2,900)	1,706 (2,900)
STATIC PRESSURE	Indoor Airflow (Min.–Max.)	CFM (m³/h)	530–800 (902–1,360)	785–1,120 (1,334–1,905)	1,157–1,706 (1,967–2,900)	1,157–1,706 (1,967–2,900)
	Indoor Airflow Ultra-low Speed	CFM (m³/h)	530 (902)	785 (1,334)	1,157 (1,967)	1,157 (1,967)
	Rated	in. W.C. (Pa)	0.58 (145)	0.58 (145)	0.58 (145)	0.58 (145)
OUTDOOR FAN MOTOR	Range	in. W.C. (Pa)	0–0.8 (0–200)	0–0.8 (0–200)	0–0.8 (0–200)	0–0.8 (0–200)
	Output	HP	1/12	1/7	1/3	1/3
	RLA	A	0.32	0.8	1.5	1.5
	Speed	r/min.	880	880	850	850
COMPRESSOR	Outdoor Airflow (High)	CFM (m³/h)	3,150 (1,853)	3,800 (2,235)	5,700 (3,350)	5,700 (3,350)
	Input	W	1,500	1,805	2,410	2,410
	Rated Current	A	4.6	8.2	5.18	5.18
	Compressor	A	12	15	23	23
REFRIGERANT (R-454B)	Refrigerant Oil	ml	FV68S / 950	VG74 / 920	VG74 / 1,200	VG74 / 1,200
	Refrigerant Charge	oz. (kg)	70.5 (2.0)	88.2 (2.5)	137.6 (3.9)	137.6 (3.9)
	Factory Pre-charge	ft. (m)	25 (7.6)	25 (7.6)	25 (7.6)	25 (7.6)
	Additional Charge for Each ft.	oz./ft.	0.38	0.38	0.38	0.38
	Liquid Side / Gas Side	in. (mm)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 5/8" (Ø9.52 / Ø15.88)	3/8" / 3/4" (Ø9.52 / Ø19.05)	3/8" / 3/4" (Ø9.52 / Ø19.05)
	Max. Pipe Length	ft. (m)	100 (30)	115 (35)	130 (40)	130 (40)
MISC.	Max. Difference in Level	ft. (m)	66 (20)	80 (25)	100 (30)	100 (30)
	Design Pressure (H/L)	PSIG (MPa)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)	600 / 380 (4.14 / 2.62)
	Indoor Noise Level (High)	dB(A)	55	57	57	57
	Drainage Water Pipe Diameter	in.	3/4"	3/4"	3/4"	3/4"
NET DIMENSIONS & WEIGHTS	Outdoor Throttle Type		EEV	EEV	EEV	EEV
	Moisture Removal	pints/hr (L/hr)	4.6 (2.2)	9.5 (4.5)	13.2 (6.2)	15.8 (7.5)
	Indoor Unit Dimensions (W×H×D)	in.	19-5/8×46-1/8×21-5/8	19-5/8×46-1/8×21-5/8	22×53-7/8×24	22×53-7/8×24
		mm	500×1,170×550	500×1,170×550	560×1,370×610	560×1,370×610
	Indoor Unit Packing (L×W×H)	in.	22-1/2×49-5/8×25-3/8	22-1/2×49-5/8×25-3/8	25-1/4×55-1/2×28	25-1/4×55-1/2×28
		mm	570×1,260×645	570×1,260×645	640×1,410×710	640×1,410×710
	Indoor Unit Net Weight	lbs. (kg)	130.5 (59.2)	135.1 (61.3)	180.6 (82)	180.6 (82)
	Indoor Unit Shipping Weight	lbs. (kg)	153.6 (69.7)	158.1 (71.7)	204.4 (92.7)	204.4 (92.7)
	Outdoor Unit Dimensions (W×H×D)	in.	33-7/8×26-3/8×12-1/4	35-3/8×29-1/2×13-3/8	43-1/4×34-1/2×17-3/4	43-1/4×34-1/2×17-3/4
		mm	860×670×310	900×750×340	1,100×875×450	1,100×875×450
	Outdoor Unit Packing (L×W×H)	in.	39×28-3/4×17-3/4	41×32-5/8×18-1/8	45-7/8×39-1/2×21-1/4	45-7/8×39-1/2×21-1/4
		mm	990×730×450	1,040×830×460	1,165×1,005×540	1,165×1,005×540
	Outdoor Unit Net Weight	lbs. (kg)	104.5 (47)	116.8 (53)	186.7 (84)	186.7 (84)
	Outdoor Unit Shipping Weight	lbs. (kg)	112.2 (50.5)	125.7 (57)	210.9 (95)	210.9 (95)

NOTE: Pipe lengths over 100 feet = will require an increase in communication cable to 16 AWG.
Lengths over 262 feet will require an increase in communication cable to 14 AWG.

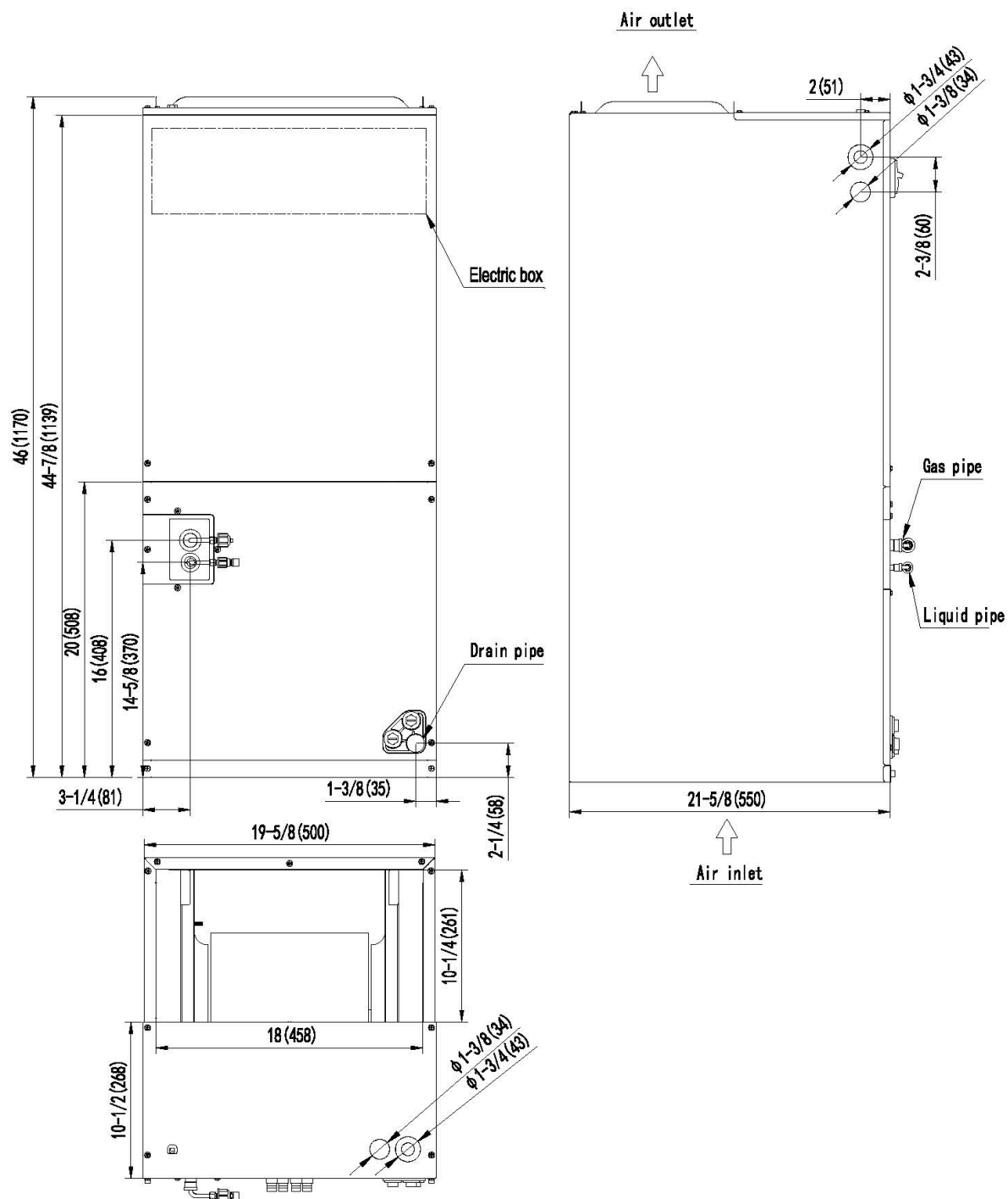
BREEZE™ | AIR HANDLER/INDOOR DIMENSIONS

AIR HANDLER/INDOOR MODELS: WFH24Y193D (2-TON), WFH36Y193D (3-TON)

24-36k (WFH24Y193D, WFH36Y193D)

24K/36K

Unit : in.(mm)



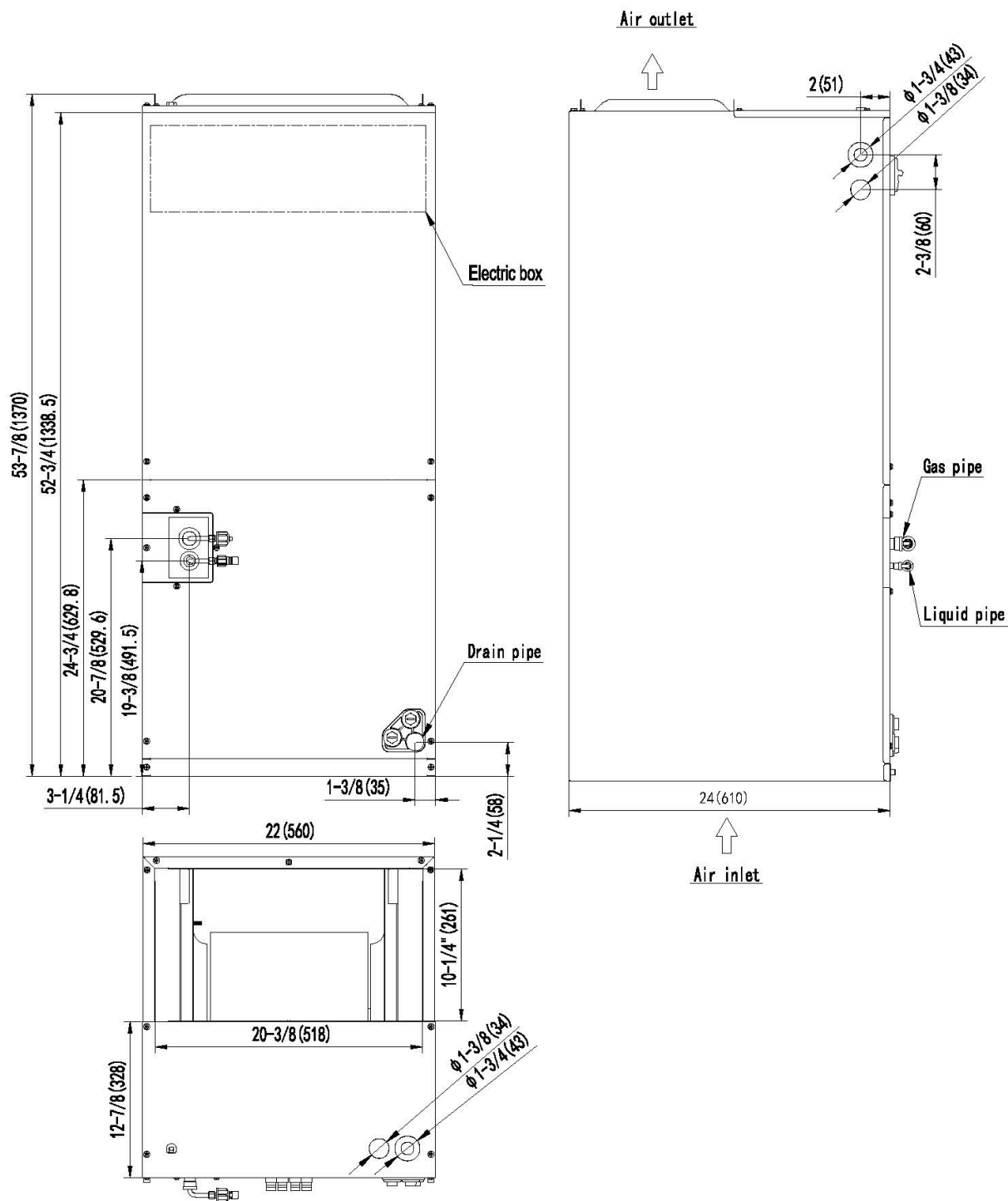
BREEZE™ | AIR HANDLER/INDOOR DIMENSIONS

AIR HANDLER/INDOOR MODELS: WFH48Y223D (4-TON), WFH60Y223D (5-TON)

48k-60k AHU (WFH48Y223D,WFH60Y223D)

48K/60K

Unit : in.(mm)

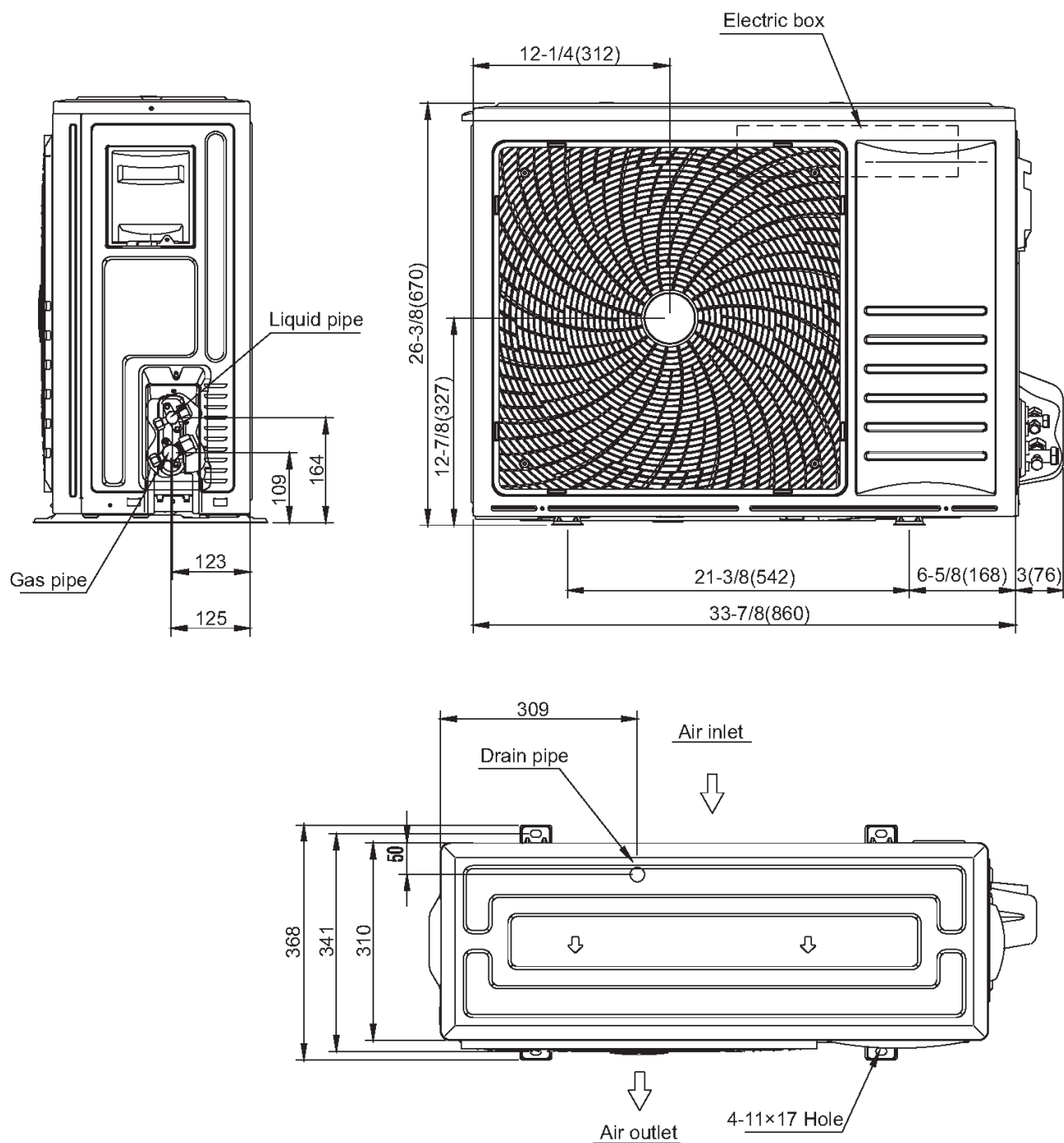


BREEZE™ | CONDENSER/OUTDOOR DIMENSIONS

INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU17Y24A3D (2-TON)

WFPU17Y243D (24K BTU)

Unit : in.(mm)

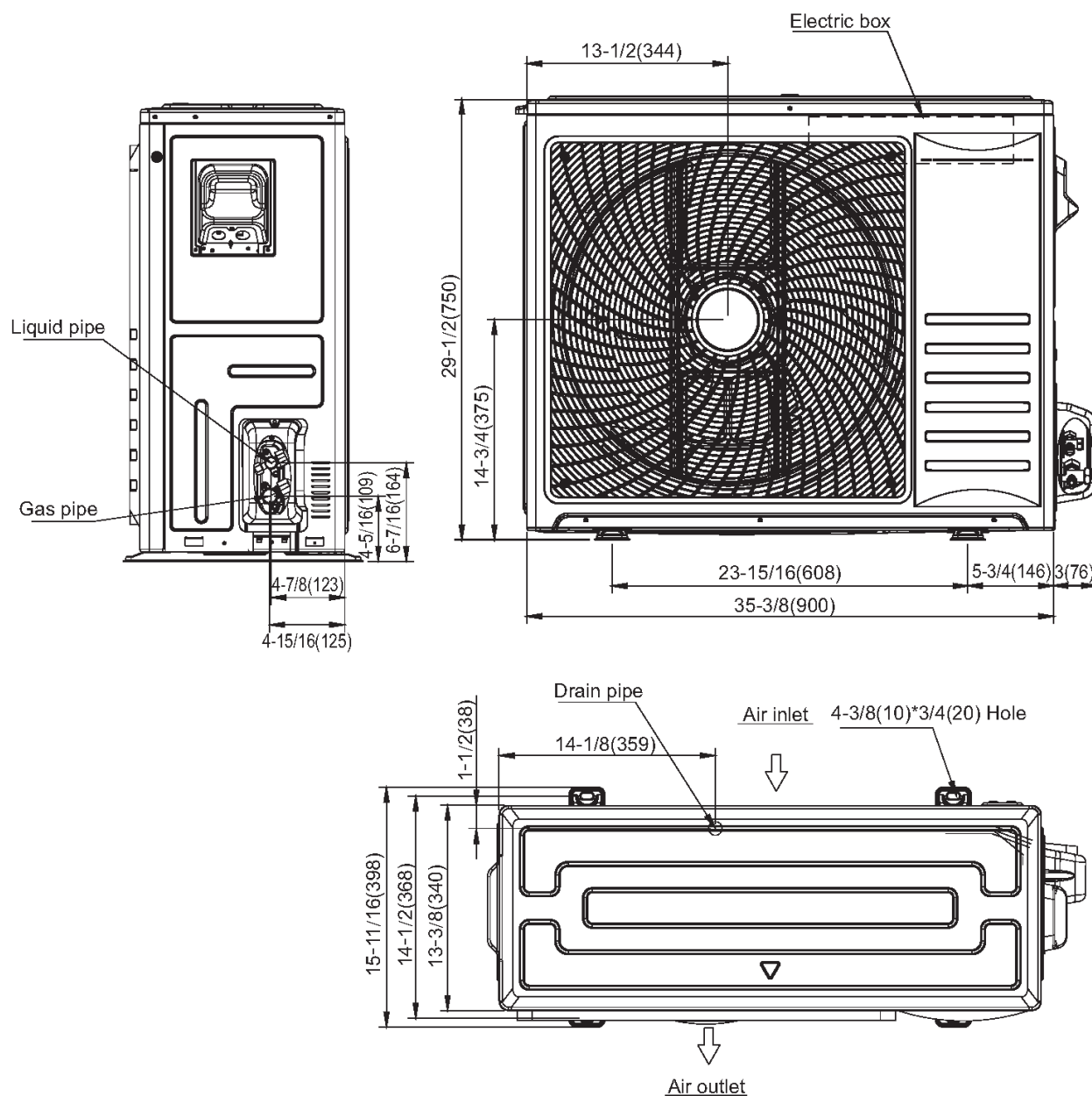


BREEZE™ | CONDENSER/OUTDOOR DIMENSIONS

INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU17Y36A3D (3-TON)

WFPU17Y363D (36k (BTU)

Unit : in.(mm)

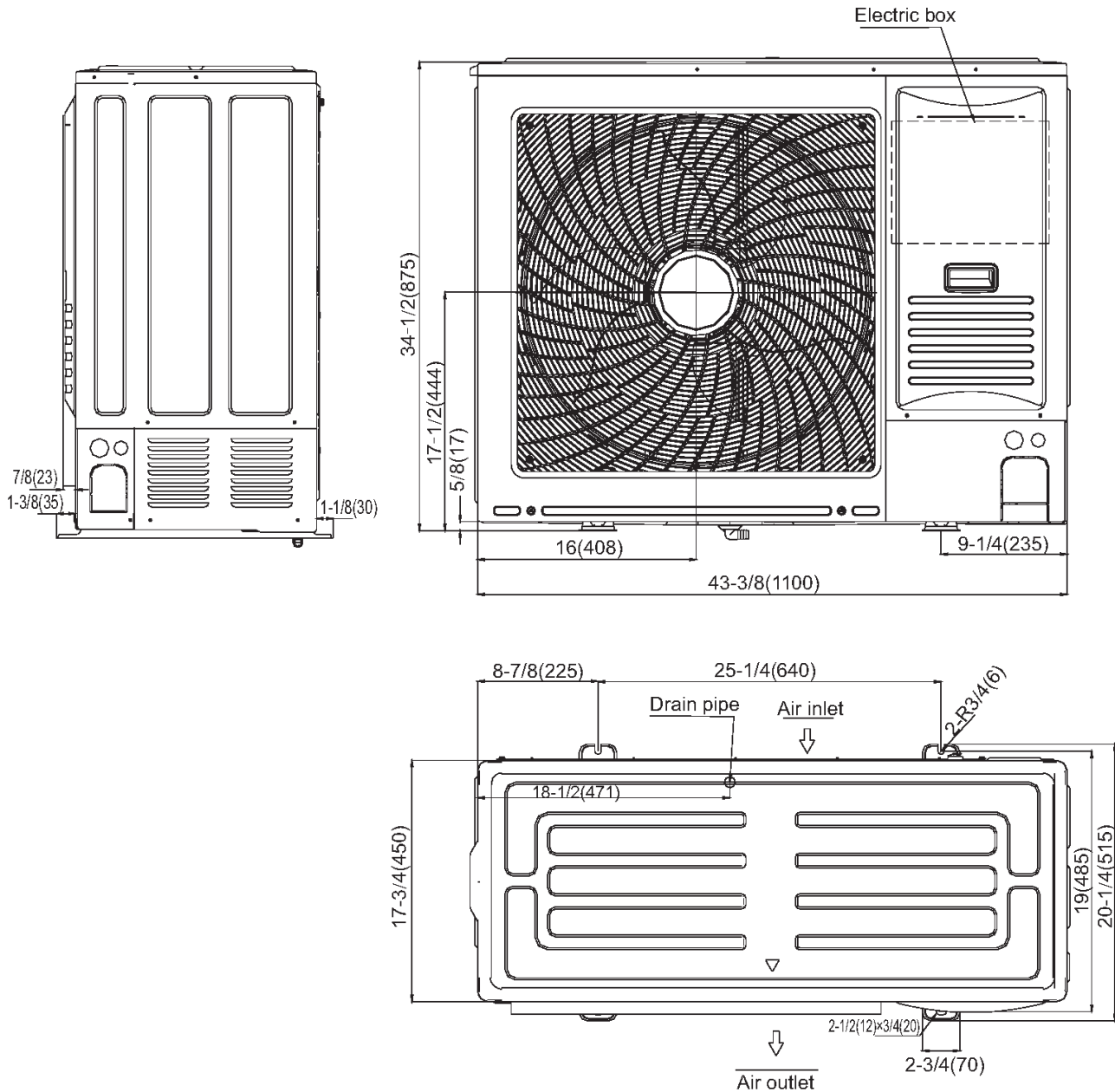


BREEZE™ | CONDENSER/OUTDOOR DIMENSIONS

INVERTER HEAT PUMP CONDENSER/OUTDOOR: WFPU17Y48A3D (4-TON), WFPU17Y60A3D (5-TON)

WFPU17Y483D (48k (BTU), WFPU17Y603D (60k (BTU)

Unit: in.(mm)



¹System rated performance is only guaranteed when paired with a properly installed Friedrich air handler; Performance may be diminished when paired with a non-Friedrich air handler, and eligibility for rebates may be voided; Due to continuing research in new energy-saving technology, specifications are subject to change without notice. ²Dependent on system combination and overall efficiency; High Efficiency Electric Home Rebates are dependent on state participation and available funding; Visit Friedrich.com/Federal-Incentives for complete details.

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