

# 1. Specification

Avant

Model Name		Indoor Unit		AR70F07C1AWNEU	AR70F09C1AWNEU	AR70F12C1AWNEU	
		Outdoor Unit		AR70F07C1AWXEU	AR70F09C1AWXEU	AR70F12C1AWXEU	
System	Mode			-	Heat Pump	Heat Pump	Heat Pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.96 / 2 / 3.2	0.96 / 2.5 / 3.7	1 / 3.5 / 4.6
				Btu/h	3,276 / 6,824 / 10,919	3,276 / 8,530 / 12,625	3,412 / 11,942 / 15,696
			Heating	kW	0.7 / 2.2 / 6.7	0.7 / 3.2 / 7	0.7 / 4 / 7.2
				Btu/h	2,388 / 7,507 / 22,861	2,388 / 10,919 / 23,885	2,388 / 13,649 / 24,567
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.17 / 0.43 / 0.84	0.17 / 0.57 / 0.96	0.18 / 0.91 / 1.4
			Heating	kW	0.15 / 0.46 / 2.25	0.15 / 0.76 / 2.2	0.15 / 1.07 / 2.4
		Current Input (Min/Std/Max)	Cooling	A	1.5 / 2.3 / 3.7	1.5 / 3 / 4.3	1.5 / 4.1 / 6.1
			Heating	A	1.3 / 2.3 / 9.8	1.3 / 3.4 / 10	1.3 / 4.7 / 10.5
	Efficiency	EER	Cooling	W/W	4.65	4.39	3.85
		COP	Heating	-	4.78	4.21	3.74
	Efficiency (EN14825)	Pdesign_C	Cooling	kW	2	2.5	3.5
		SEER		W/W	9 (A+++)	8.8 (A+++)	8.6 (A+++)
		Pdesign_H	Heating (Wamer/Average)	kW	1.3 / 2.2	1.3 / 2.3	1.3 / 2.4
		SCOP		W/W	5.7 / 4.8 (A+++ / A++)	5.7 / 4.8 (A+++ / A++)	5.7 / 4.8 (A+++ / A++)
	Piping Connections	Liquid Pipe		Type	Flare	Flare	Flare
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare	Flare	Flare
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20	20	20
	Max. Height (Between ID/OD)			m	8	8	8
		Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5	1.5
	Communication		Min.	mm <sup>2</sup>	0.75	0.75	0.75
Remark			-	F1,F2	F1,F2	F1,F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging		kg	0.95	0.95	0.95	
tCO <sub>2</sub> e			0.64	0.64	0.64		
Indoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Hydrophile	Hydrophile	Hydrophile	
	Fan	Type		-	Cross Flow	Cross Flow	Cross Flow
		Quantity		EA	1	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	9 / 8.5 / 7.9 / 7.4	9.5 / 9 / 8.5 / 7.4	10.5 / 10 / 9 / 7.9
			Heating (T/H/M/L)	l/s	150 / 142 / 132 / 123	158 / 150 / 142 / 123	175 / 167 / 150 / 132
			Heating (T/H/M/L)	m <sup>3</sup> /min	10.5 / 10 / 9.5 / 9	11.1 / 10.5 / 10 / 9	12.1 / 11.6 / 10.5 / 9.5
				l/s	175 / 167 / 158 / 150	185 / 175 / 167 / 150	202 / 193 / 175 / 158
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	16.3, 550	16.3, 550	16.3, 550
	Sound Level	Sound Pressure Level	H / Silent	dB(A)	38 / 16	38 / 16	40 / 16
			SoundPowerLevel	dB(A)	56	56	58
	External Dimension	Net Weight		kg	9.9	9.9	9.9
		Shipping Weight		kg	11.6	11.6	11.6
		Net Dimensions (WxHxD)		mm	889 x 299 x 215	889 x 299 x 215	889 x 299 x 215
	Shipping Dimensions (WxHxD)		mm	950 x 290 x 375	950 x 290 x 375	950 x 290 x 375	
	Casing	Material		-	HIPS	HIPS	HIPS
	Control System	Infrared remote control		-	Included	Included	Included
		Wired remote control		-	-	-	-
	Drain Pump	Drain Pump		-	-	-	-
Max. lifting Height / Displacement		mm / Liter/h	-	-	-		
Additional Accessories	Easy Filter Plus		-	Removable / Washable	Removable / Washable	Removable / Washable	
	Tri-Care Filter		-	●	●	●	
	Motion Detect Sensor		-	-	-	-	
	Wi-Fi		-	●	●	●	

# 1. Specification

Avant

Model Name		Indoor Unit		AR70F07C1AWNEU	AR70F09C1AWNEU	AR70F12C1AWNEU	
		Outdoor Unit		AR70F07C1AWXEU	AR70F09C1AWXEU	AR70F12C1AWXEU	
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
		Type		-	F&T	F&T	F&T
	Heat Exchanger	Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Hydrophile	Hydrophile	Hydrophile
	Compressor	Model Name			KTN130D42UFR	KTN130D42UFR	KTN130D42UFR
		Type		-	Twin Rotary	Twin Rotary	Twin Rotary
		Output		kW	4.09	4.09	4.09
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	350	350	350
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m <sup>3</sup> /min	45	45	45
	l/s			750	750	750	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	45 x 1	45 x 1	45 x 1
	Sound Level	Sound Pressure Level	Cooling	dB(A)	45	45	46
		SoundPowerLevel		dB(A)	59	59	62
	External Dimension	Net Weight		kg	30.7	30.7	30.7
Shipping Weight		kg	33.0	33.0	33.0		
Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	790 x 548 x 285		
Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371	913 x 622 x 371		
Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP	EGI Steel Plate / PP	
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	-10 ~ 46	
	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	

## NOTE

- Specifications may be subject to change without prior notice.
- Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - These products contain R32 which is fluorinated greenhouse gas.

# 1. Specification

Avant

Model Name		Indoor Unit		AR70F15C1AWNEU	AR70F18C1AWNEU	AR70F24C1AWNEU	
		Outdoor Unit		AR70F15C1AWXEU	AR70F18C1AWXEU	AR70F24C1AWXEU	
System	Mode		-	Heat Pump	Heat Pump	Heat Pump	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1 / 4.3 / 5	1.6 / 5 / 6.7	1.4 / 6.5 / 7.6
				Btu/h	3,412 / 14,672 / 17,061	5,459 / 17,061 / 22,861	4,777 / 22,179 / 25,932
			Heating	kW	0.7 / 4.7 / 7.6	1.3 / 6 / 8	1.2 / 7.4 / 9.7
				Btu/h	2,388 / 16,037 / 25,932	4,436 / 20,473 / 27,297	4,095 / 25,250 / 33,098
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.18 / 1.18 / 1.57	0.32 / 1.39 / 2.18	0.3 / 1.95 / 2.6
			Heating	kW	0.15 / 1.26 / 2.39	0.27 / 1.61 / 2.5	0.27 / 2.2 / 3.2
		Current Input (Min/Std/Max)	Cooling	A	1.5 / 5.2 / 6.9	2 / 6.4 / 10	2 / 8.8 / 11.5
			Heating	A	1.3 / 5.6 / 10.5	1.7 / 7.8 / 11.5	1.7 / 9.8 / 14
	Efficiency	EER	Cooling	W/W	3.64	3.60	3.33
		COP	Heating	-	3.73	3.73	3.36
	Efficiency (EN14825)	Pdesign_C	Cooling	kW	4.3	5	6.5
		SEER		W/W	8 (A++)	7.2 (A++)	7 (A++)
		Pdesign_H	Heating (Wamer/Average)	kW	1.5 / 2.7	2.2 / 3.8	2.2 / 4.1
		SCOP		W/W	5.6 / 4.6 (A+++ / A++)	5.3 / 4.1 (A+++ / A+)	5.3 / 4.3 (A+++ / A+)
	Piping Connections	Liquid Pipe		Type	Flare	Flare	Flare
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare	Flare	Flare
				Φ, mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	20	30	30
	Max. Height (Between ID/OD)			m	8	15	15
		Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5	1.5
	Communication		Min.	mm <sup>2</sup>	0.75	0.75	0.75
			Remark	-	F1,F2	F1,F2	F1,F2
	Refrigerant	Type		-	R32	R32	R32
		Factory Charging		kg	0.95	1.30	1.30
				tCO <sub>2</sub> e	0.64	0.88	0.88
Indoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Hydrophile	Hydrophile	Hydrophile
	Fan	Type		-	Cross Flow	Cross Flow	Cross Flow
		Quantity		EA	1	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	14.2 / 12.1 / 10 / 7.9	15.7 / 14.5 / 13.2 / 11.3	17.6 / 15.7 / 13.9 / 11.3
				l/s	237 / 202 / 167 / 132	362 / 242 / 220 / 188	293 / 362 / 232 / 188
			Heating (T/H/M/L)	m <sup>3</sup> /min	14.2 / 12.1 / 10 / 7.9	15.7 / 14.5 / 13.2 / 11.3	18.3 / 16.4 / 14.5 / 12
	l/s			237 / 202 / 167 / 132	362 / 242 / 220 / 188	305 / 273 / 242 / 200	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	16.3, 550	16.3, 550	16.3, 550
	Sound Level	Sound Pressure Level	H / Silent	dB(A)	41 / 25	41 / 25	45 / 27
			SoundPowerLevel	dB(A)	58	58	62
	External Dimension	Net Weight		kg	9.9	12.3	12.3
		Shipping Weight		kg	11.6	14.4	14.2
		Net Dimensions (WxHxD)		mm	889 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	950 x 290 x 375	1,115 x 290 x 375	1,115 x 290 x 375
	Casing	Material		-	HIPS	HIPS	HIPS
	Control System	Infrared remote control		-	Included	Included	Included
		Wired remote control		-	-	-	-
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Easy Filter Plus		-	Removable / Washable	Removable / Washable	Removable / Washable
		Tri-Care Filter		-	●	●	●
		Motion Detect Sensor		-	-	-	-
Wi-Fi		-	●	●	●		

# 1. Specification

Avant

Model Name		Indoor Unit		AR70F15C1AWNEU	AR70F18C1AWNEU	AR70F24C1AWNEU	
		Outdoor Unit		AR70F15C1AWXEU	AR70F18C1AWXEU	AR70F24C1AWXEU	
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
		Type		-	F&T	F&T	F&T
	Heat Exchanger	Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Hydrophile	Hydrophile	Hydrophile
	Compressor	Model Name			KTN130D42UFR	KTN150D42UFR	KTN150D42UFR
		Type		-	Twin Rotary	Twin Rotary	Twin Rotary
		Output		kW	4.09	4.68	4.68
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	350	450	450
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m <sup>3</sup> /min	45	50	50
	l/s			750	833	833	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	45 x 1	45 x 1	125 x 1
	Sound Level	Sound Pressure Level	Cooling	dB(A)	48	51	54
		SoundPowerLevel		dB(A)	65	65	68
	External Dimension	Net Weight		kg	30.7	36.8	38.6
Shipping Weight		kg	33.0	40.1	42.0		
Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310		
Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	1,023 x 724 x 413	1,023 x 724 x 413		
Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP	EGI Steel Plate / PP	
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	-10 ~ 46	
	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	

## NOTE

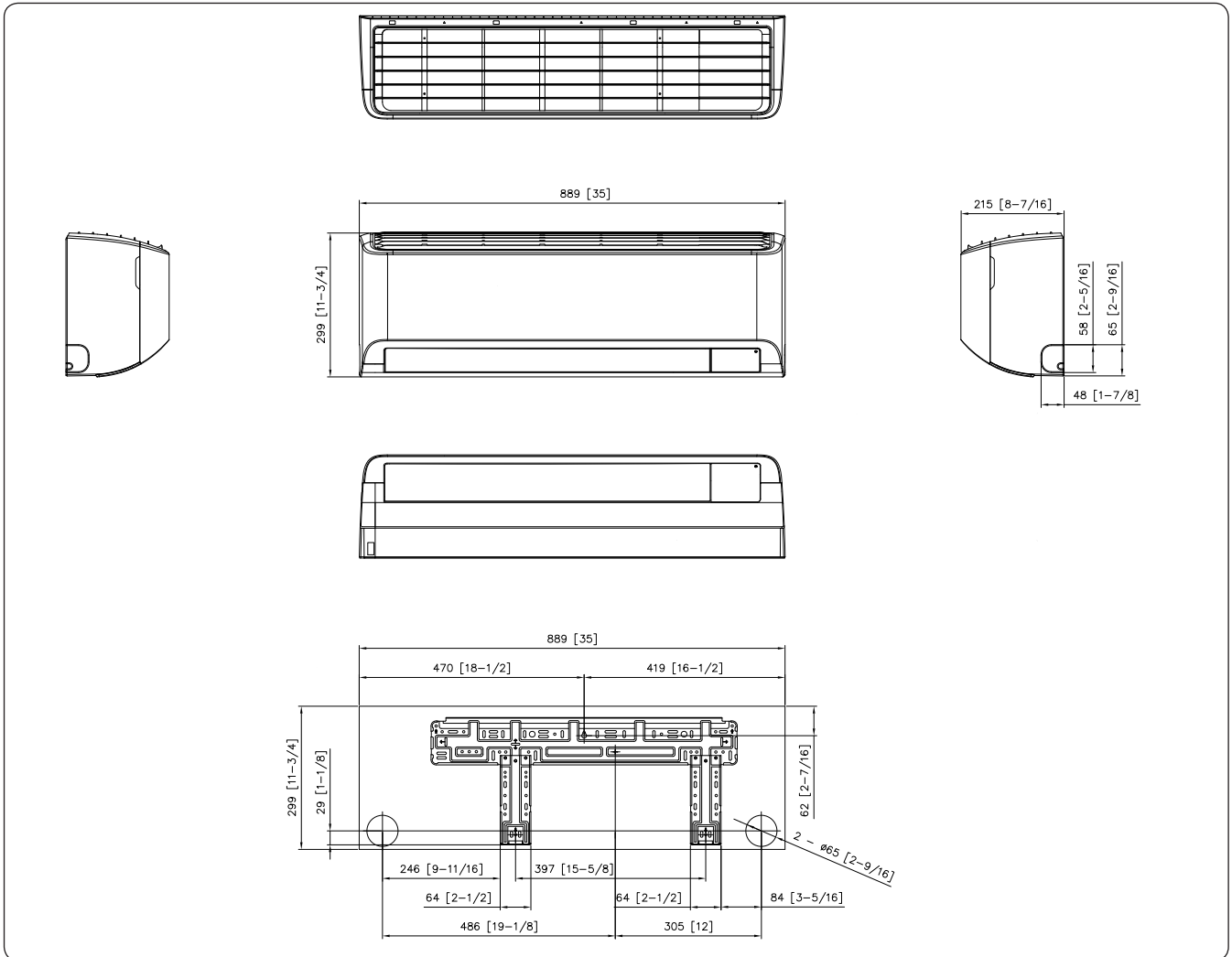
- Specifications may be subject to change without prior notice.
- Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - These products contain R32 which is fluorinated greenhouse gas.

# 3. Dimensional Drawing

## Indoor units

AR70F09CAWNEU, AR70F12CAWNEU, AR70F07C1AWNEU, AR70F09C1AWNEU, AR70F12C1AWNEU  
AR70F15C1AWNEU, AR70F07C1ABNEU, AR70F09C1ABNEU, AR70F12C1ABNEU, AR60F09C1AWNEU  
AR60F12C1AWNEU

Unit: mm (inches)

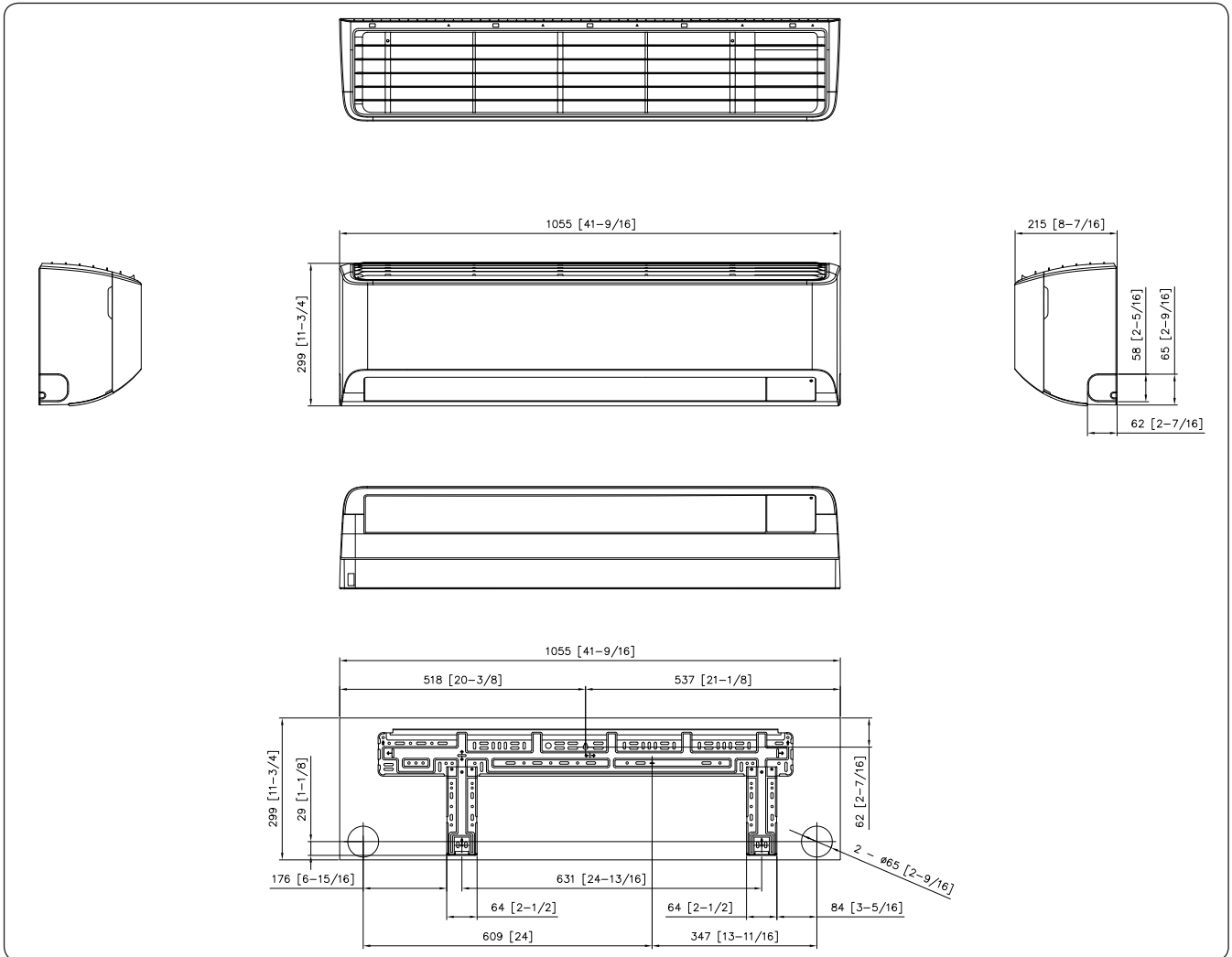


# 3. Dimensional Drawing

## Indoor units

AR70F18C1AWNEU, AR70F24C1AWNEU, AR60F18C1AWNEU, AR60F24C1AWNEU, AR50F18C1AHNEU  
AR50F24C1AHNEU, AR50F18C1BHNEU, AR50F24C1BHNEU

Unit: mm (inches)

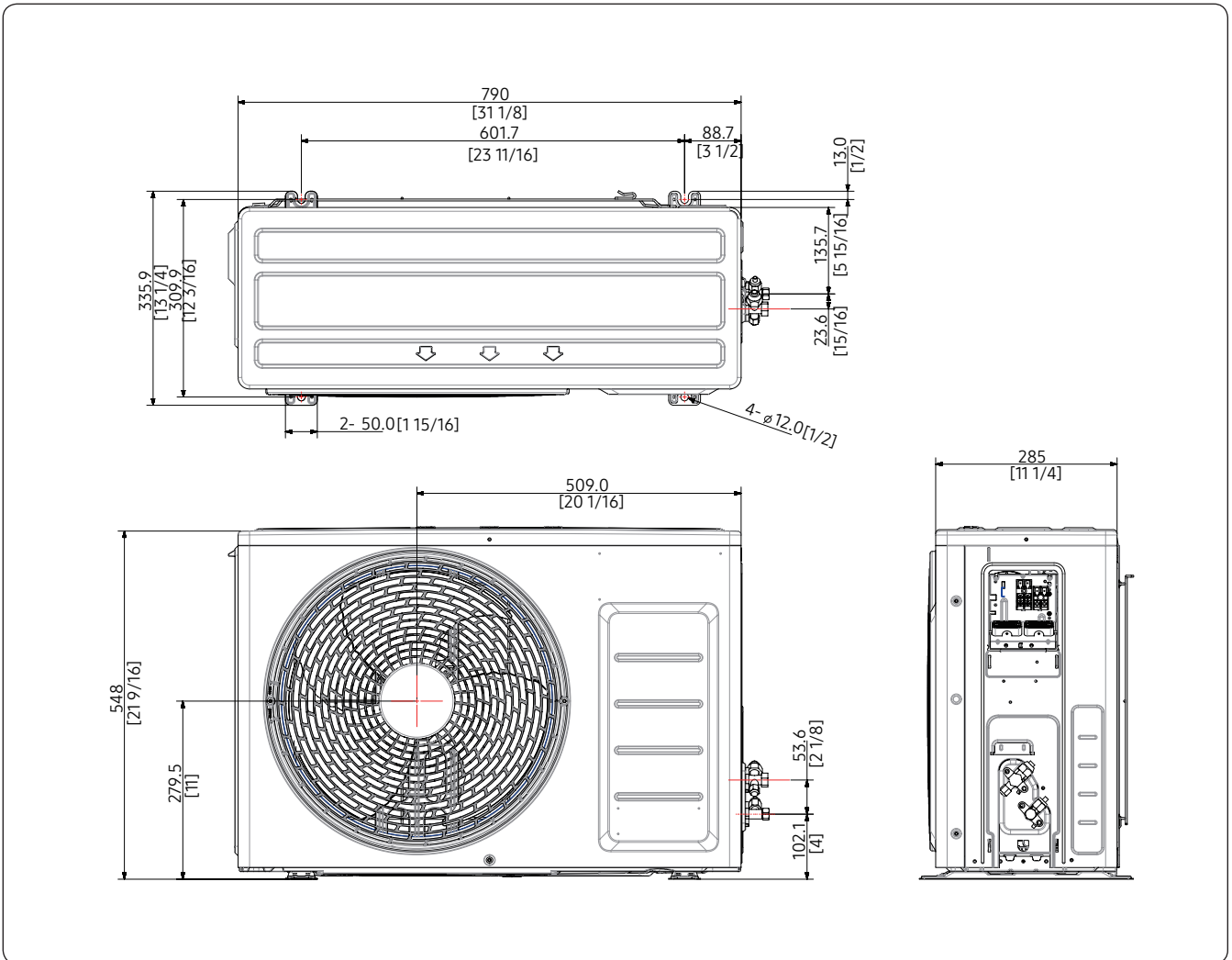


# 3. Dimensional Drawing

## Outdoor units

AR70F09CAAWXEU, AR70F12CAAWXEU, AR70F07C1AWXEU, AR70F09C1AWXEU, AR70F12C1AWXEU  
AR70F15C1AWXEU, AR50F15C1AHXEU

Unit: mm (inches)



# 3. Dimensional Drawing

## Outdoor units

AR70F18C1AWXEU, AR70F24C1AWXEU, AR60F18C1AWXEU, AR60F24C1AWXEU, AR50F18C1AHXEU  
AR50F24C1AHXEU, AR50F18C1BHXEU, AR50F24C1BHXEU

Unit: mm (inches)

