



FRIEDRICH

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Endeavor® Line E-Series™ iC Air Conditioners



FWA15AY

Cooling Efficiencies up to: 15.2 SEER2 / 12.0 EER2

Nominal Sizes: 1.5 to 5 Tons [5.28 to 17.6 kW]

Cooling Capacities: 17.1 to 57.0 kBTU [5.0 to 16.7 kW]

Refrigerant Type: R-454B



9001:2015

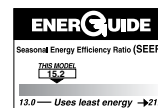


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Features and Benefits

- **7mm Condenser Copper Coil:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **Fully Louvered Steel Cabinet:** Features durable construction to add protection from yard hazards and weather corrosion
- **Easily Accessible Control Box:** Ease of installation and serviceability
- **PlusOne® Refrigerant Detection System^{TM1}:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation — if excess refrigerant is detected

¹Factory or field installed in the furnace coil or air handler and is applicable to the complete heating and cooling system featuring Low GWP Refrigerant (A2L).

Air Conditioners

<u>FW</u>	<u>A</u>	<u>15</u>	<u>A</u>	<u>Y</u>	<u>18</u>	<u>A</u>	<u>J</u>	<u>1</u>	<u>N</u>	<u>A</u>
Brand	Product Category	SEER2	Region	Refrigerant	Capacity BTU/HR	Major Series	Voltage	Type	Controls	Minor Series
FW - Friedrich®	A - Air Conditioners	15 - 15.2 SEER2	A - All	Y - R-454B	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design	J - 1 ph, 208/230/60 C - 3 ph, 208/230/60 D - 3 ph, 460/60	1 - 1-Stage	N - Non-Communicating	A - 1st Design

[] Designates Metric Conversions

AVAILABLE MODELS
FWA15AY18AJ1NA
FWA15AY24AJ1NA
FWA15AY30AJ1NA
FWA15AY36AJ1NA
FWA15AY42AJ1NA
FWA15AY48AJ1NA
FWA15AY60AJ1NA
FWA15AY36AC1NA
FWA15AY42AC1NA
FWA15AY48AC1NA
FWA15AY60AC1NA
FWA15AY36AD1NA
FWA15AY42AD1NA
FWA15AY48AD1NA
FWA15AY60AD1NA

STANDARD EQUIPMENT
R-454B Refrigerant
Scroll Compressor
Field Installed Filter Drier
Front Seating Service Valves
Internal Pressure Relief Valve
Internal Thermal Overload
Long Line capability
Low Ambient capability with Kit
Optimized Venturi Airflow
Rust resistant screws
QR code
External gauge ports

General Data							
MODEL NO.	FWA15AY18	FWA15AY24	FWA15AY30	FWA15AY36	FWA15AY42	FWA15AY48	FWA15AY60
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R-454B) furnished oz. ¹	92	112	92	104	142	142	192
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	10.9	13.3	14.3	16.4	19.5	19.5	27.9
Net face area – Inner Coil	10.5	12.9	13.9	15.9	18.8	18.8	27.1
Tube diameter – in.	0.276	0.276	0.276	0.276	0.276	0.276	0.276
Number of rows	2	2	2	2	2	2	2
Fins per inch	24	24	24	24	24	24	24
Outdoor Fan							
Diameter – in.	20	24	24	24	24	24	26
Number of blades	2	2	2	2	3	3	3
Motor hp	1/7	1/6	1/6	1/6	1/5	1/5	1/5
CFM	2156	2723	2813	2944	3431	3606	4169
RPM	1075	825	825	825	850	850	850
Watts	152	161	170	174	225	251	245
Shipping weight – lbs.	174	196	208	226	205	260	296
Operating weight – lbs.	150	168	180	194	171	225	246
Electrical Data							
Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Maximum overcurrent protection (amps) ²	15	20	25	30	30	50	50
Minimum circuit ampacity ³	12	13	17	18	20	30	31
Compressor							
Rated load amps	8.3	9.2	12.7	13.5	14.7	22.4	23.7
Locked rotor amps	41.5	59.0	75.6	75.0	109.0	126.0	157.0
Condenser Fan Motor							
Full load amps	0.8	0.8	0.8	0.8	1.0	1.0	1.0
Locked rotor amps	1.5	1.7	1.7	1.7	2.6	2.6	2.6
Line Voltage Data (Volts-Phase-Hz)	—	—	—	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60
Maximum overcurrent protection (amps) ²	—	—	—	20.0	25.0	25.0	35.0
Minimum circuit ampacity ³	—	—	—	13.0	17.0	18.0	22.0
Compressor							
Rated load amps	—	—	—	9.0	12.2	12.0	16.0
Locked rotor amps	—	—	—	70.0	102.8	123.0	156.4
Condenser Fan Motor							
Full load amps	—	—	—	0.8	1.0	1.0	1.0
Locked rotor amps	—	—	—	1.7	2.6	2.6	2.6
Line Voltage Data (Volts-Phase-Hz)	—	—	—	460-3-60	460-3-60	460-3-60	460-3-60
Maximum overcurrent protection (amps) ²	—	—	—	15.0	15.0	15.0	15.0
Minimum circuit ampacity ³	—	—	—	6.0	9.0	9.0	10.0
Compressor							
Rated load amps	—	—	—	3.8	5.8	6.3	7.1
Locked rotor amps	—	—	—	39.0	50.0	60.0	69.0
Condenser Fan Motor							
Full load amps	—	—	—	0.50	0.80	0.80	0.80
Locked rotor amps	—	—	—	0.90	1.40	1.40	1.40

¹Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.

²HACR type circuit breaker or fuse.

³Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

MODEL NO.		FWA15AY18	FWA15AY24	FWA15AY30	FWA15AY36	FWA15AY42	FWA15AY48	FWA15AY60
Compressor crankcase heater ¹ (with temperature thermostat)		44-101884-08	44-101884-08	44-101884-08	208/230V: 44-101884-08 460V: 44-101884-09	208/230V: 44-103663-16 ² 460V: 44-101884-06 ²	208/230V: 44-103663-16 460V: 44-101884-06	208/230V: 44-103663-16 ³ 460V: 44-101884-06 ³
Compressor crankcase heater (without temperature thermostat)		44-17402-44	44-17402-44	44-17402-44	208/230V: 44-17402-44 460V: 442040	208/230V: 44-17402-45 460V: 44-17402-46	208/230V: 44-17402-45 460V: 44-17402-46	208/230V: 44-17402-45 460V: 44-17402-46
Low ambient control		RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08
Compressor sound cover		68-23427-26	68-23427-26	68-23427-26	68-23427-26	68-23427-25	68-23427-25	68-23427-25
Compressor hard start kit		SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1
Compressor time delay		RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01
Low pressure control		RXAC-A10	RXAC-A10	RXAC-A10	RXAC-A10	RXAC-A10	RXAC-A10	RXAC-A10
High pressure control		RXAB-A08	RXAB-A08	RXAB-A08	RXAB-A08	RXAB-A08	RXAB-A08	RXAB-A08
Liquid Line Solenoid (24 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	Solenoid Coil	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
Liquid Line Solenoid (120/240 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	Solenoid Coil	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V

¹Crankcase heater recommended with Low Ambient Kit.

²FWA15AY42: 208/230V LG models come with 44-101884-08 factory installed. 460V LG models come with 44-101884-09 factory-installed.

³FWA15AY60: All 208/230V models come with 44-103663-16 factory-installed. All 460V models come with 44-101884-06 factory-installed.

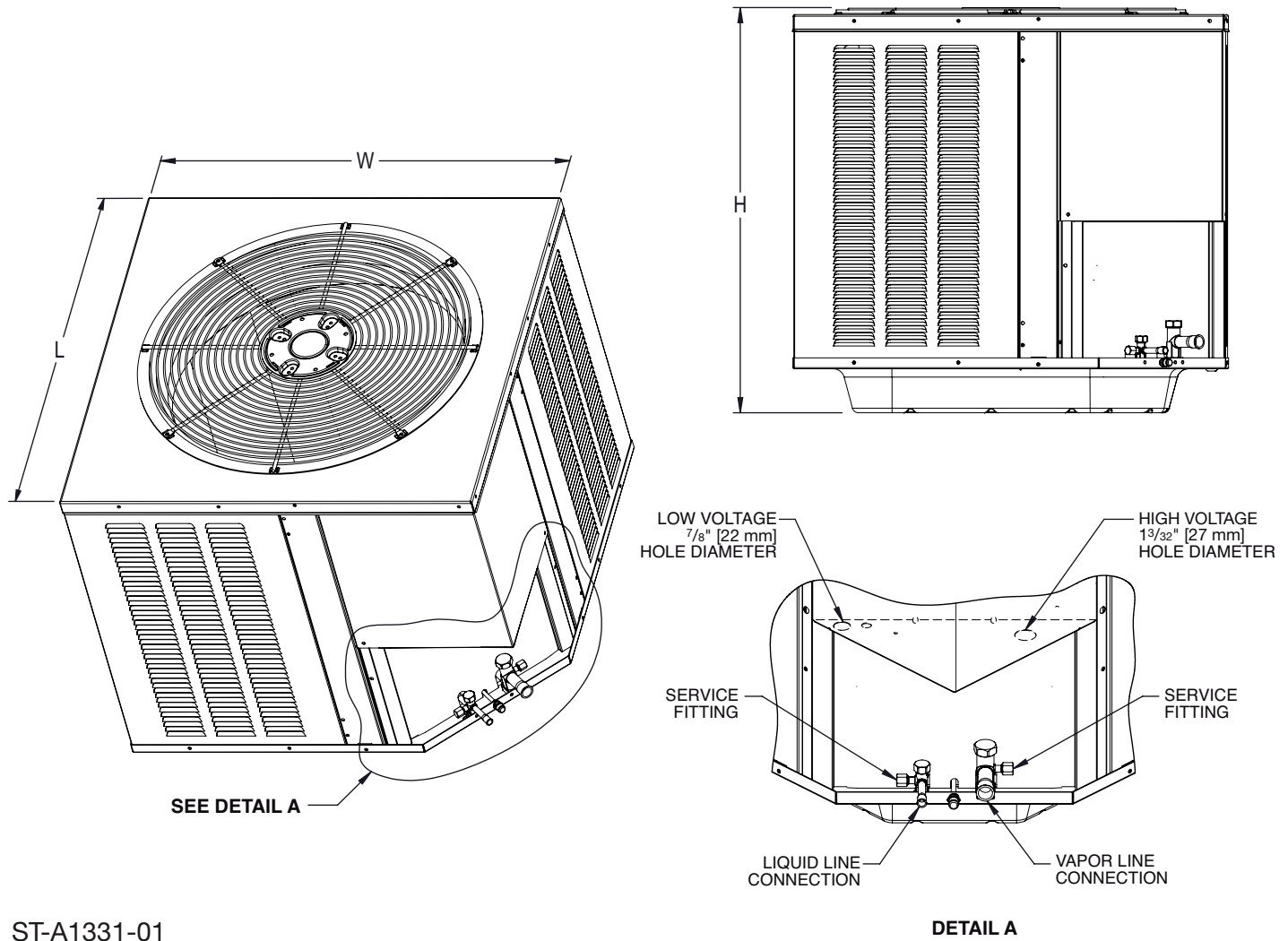
Weighted Sound Power Level (dBA)

Unit Size - Voltage, Series	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
FWA15AY18	71	48	56	62	61	57	54	46
FWA15AY24	69	45	54	59	58	56	51	46
FWA15AY30	71	45	55	60	59	57	54	46
FWA15AY36	72	45	53	60	61	59	56	48
FWA15AY42	73	47	55	64	62	59	55	48
FWA15AY48	74	45	56	64	63	61	57	51
FWA15AY60	76	43	60	67	66	63	59	53

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI)

Unit Dimensions

MODEL NO.	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
FWA15AY18	25.17	639	29.54	750	29.54	750	27.06	687	32.63	829	32.63	829
FWA15AY24	25.17	639	33.66	855	33.66	855	27.06	687	36.63	930	36.63	930
FWA15AY30	27.17	690	33.66	855	33.66	855	29.06	738	36.63	930	36.63	930
FWA15AY36	31.17	792	33.66	855	33.66	855	33.06	840	36.63	930	36.63	930
FWA15AY42	35.17	893	33.66	855	33.66	855	37.06	941	36.63	930	36.63	930
FWA15AY48	35.17	893	33.66	855	33.66	855	37.06	941	36.63	930	36.63	930
FWA15AY60	45.17	1300	35.43	903	35.43	903	47.06	1348	38.63	981	38.63	981

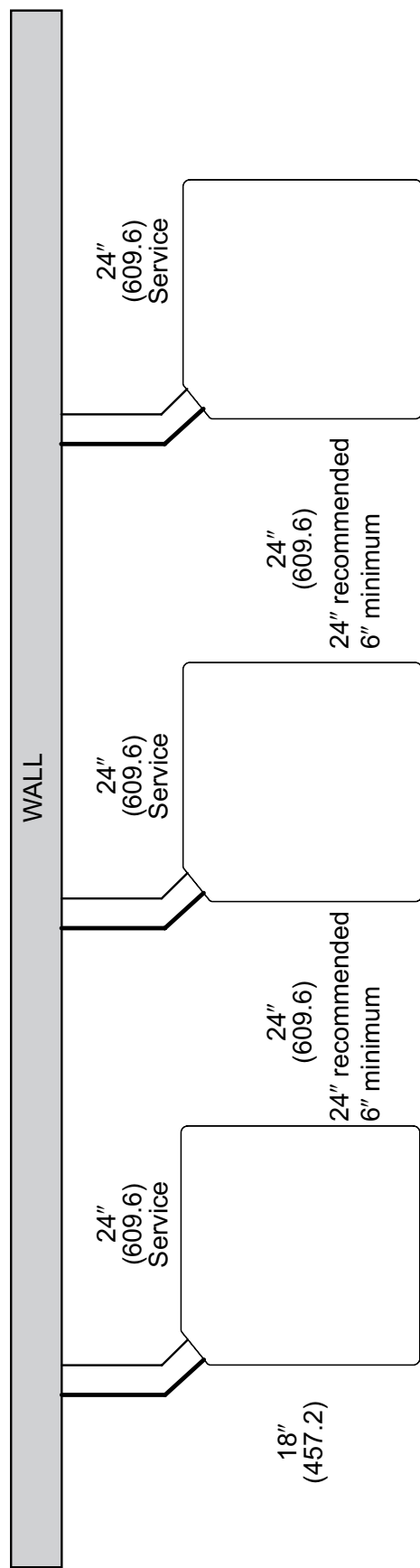
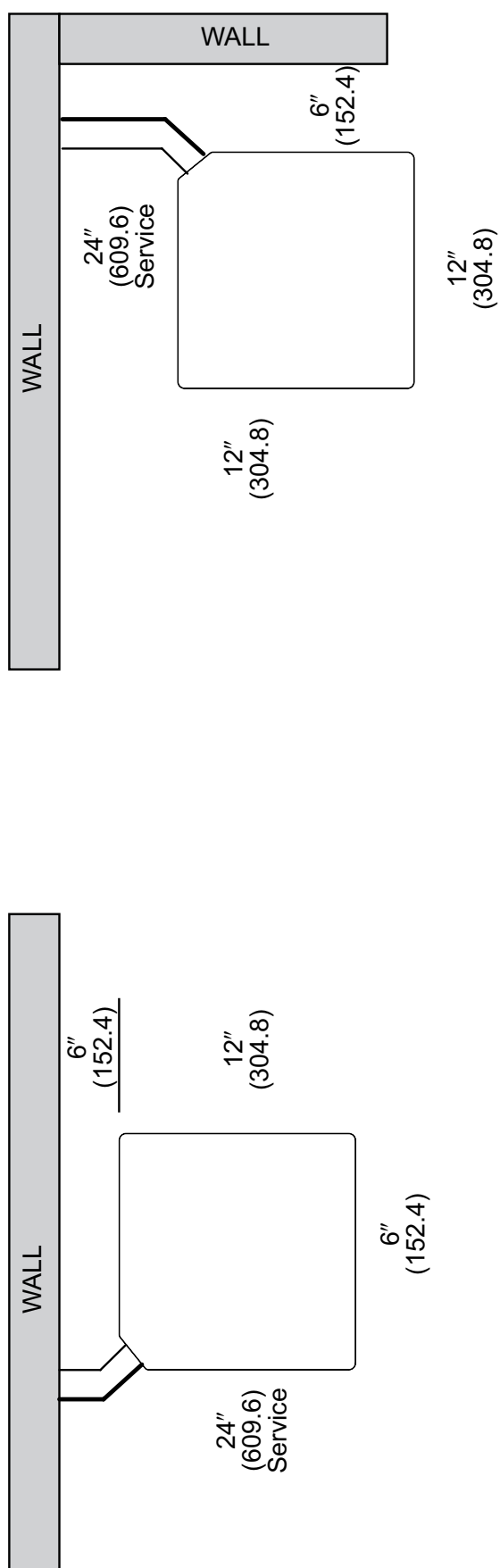


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NOTE: Illustrations show the deep drawn basepan.

[] Designates Metric Conversions

CLEARANCES



NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

Refrigerant Line Size Information

15.2 SEER2 AC R-454B												
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Equivalent Length (Feet)									
			0-25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250
			Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) */ Capacity Multiplier									
1.5 Ton	1/4"	5/8"	25/1	50/0.99	61/0.99	41/0.98	21/0.98	1/0.98	0/0.98	0/0.98	0/0.97	0/0.97
	5/16"	5/8"	25/1	50/0.99	75/0.99	100/0.98	98/0.98	93/0.98	87/0.98	82/0.98	78/0.97	75/0.97
	3/8"	5/8"	25/1	50/0.99	75/0.99	100/0.98	117/0.98	115/0.98	114/0.98	112/0.98	111/0.97	110/0.97
	1/4"	3/4"	25/1	50/1	61/1	41/0.99	21/0.99	1/0.99	0/0.99	0/0.99	0/0.99	0/0.98
	5/16"	3/4"	25/1	50/1	75/1	100/0.99	98/0.99	93/0.99	87/0.99	82/0.99	78/0.99	75/0.98
	3/8"	3/4"	25/1	50/1	75/1	100/0.99	117/0.99	115/0.99	114/0.99	112/0.99	111/0.99	110/0.98
2 Ton	1/4"	5/8"	25/1	50/0.99	25/0.98	0/0.98	0/0.98	0/0.97	0/0.96	0/0.97	0/0.96	0/0.95
	5/16"	5/8"	25/1	50/0.99	75/0.98	88/0.98	79/0.98	70/0.97	62/0.96	53/0.97	46/0.96	40/0.95
	3/8"	5/8"	25/1	50/0.99	75/0.98	100/0.98	109/0.98	106/0.97	103/0.96	100/0.97	97/0.96	94/0.95
	1/4"	3/4"	25/1	50/1	25/0.99	0/0.99	0/0.99	0/0.98	0/0.98	0/0.99	0/0.99	0/0.98
	5/16"	3/4"	25/1	50/1	75/0.99	88/0.99	79/0.99	70/0.98	62/0.98	53/0.99	46/0.99	40/0.98
	3/8"	3/4"	25/1	50/1	75/0.99	100/0.99	109/0.99	106/0.98	103/0.98	100/0.99	97/0.99	94/0.98
2.5 Ton	5/16"	5/8"	25/0.99	50/0.98	75/0.98	69/0.97	56/0.98	43/0.96	30/0.94	17/0.93	6/0.92	0/0.93
	3/8"	5/8"	25/0.99	50/0.98	75/0.98	100/0.97	101/0.98	96/0.96	92/0.94	87/0.93	83/0.92	78/0.93
	5/16"	3/4"	25/1	50/0.99	75/0.99	69/0.98	56/0.98	43/0.99	30/0.98	17/0.98	6/0.97	0/0.97
	3/8"	3/4"	25/1	50/0.99	75/0.99	100/0.98	101/0.98	96/0.99	92/0.98	87/0.98	83/0.97	78/0.97
3 Ton	5/16"	5/8"	25/0.99	50/0.98	65/0.97	47/0.97	28/0.94	11/0.93	0/0.92	0/0.91	0/0.9	0/0.9
	3/8"	5/8"	25/0.99	50/0.98	75/0.97	97/0.97	91/0.94	85/0.93	78/0.92	72/0.91	66/0.9	60/0.9
	5/16"	3/4"	25/1	50/0.99	65/0.98	47/0.99	28/0.98	11/0.98	0/0.97	0/0.96	0/0.96	0/0.98
	3/8"	3/4"	25/1	50/0.99	75/0.98	97/0.99	91/0.98	85/0.98	78/0.97	72/0.96	66/0.96	60/0.98
	1/2"	3/4"	25/1	50/0.99	75/0.98	100/0.99	118/0.98	117/0.98	115/0.97	115/0.96	114/0.96	112/0.98
	5/16"	7/8"	25/1	50/1	65/0.99	47/0.99	28/0.99	11/0.98	0/0.98	0/0.99	0/0.99	0/0.99
	3/8"	7/8"	25/1	50/1	75/0.99	97/0.99	91/0.99	85/0.98	78/0.98	72/0.99	66/0.99	60/0.99
	1/2"	7/8"	25/1	50/1	75/0.99	100/0.99	118/0.99	117/0.98	115/0.98	115/0.99	114/0.99	112/0.99
3.5 Ton	3/8"	3/4"	25/0.99	50/0.99	75/0.99	88/0.98	80/0.97	72/0.96	64/0.98	55/0.96	47/0.95	39/0.95
	1/2"	3/4"	25/0.99	50/0.99	75/0.99	100/0.98	116/0.97	114/0.96	112/0.98	111/0.96	109/0.95	108/0.95
	3/8"	7/8"	25/1	50/0.99	75/0.99	88/0.99	80/0.98	72/0.99	64/0.99	55/0.98	47/0.98	39/0.98
	1/2"	7/8"	25/1	50/0.99	75/0.99	100/0.99	116/0.98	114/0.99	112/0.99	111/0.98	109/0.98	108/0.98
4 Ton	3/8"	3/4"	25/0.99	50/0.98	75/0.98	78/0.97	68/0.96	57/0.97	46/0.95	36/0.94	25/0.93	15/0.93
	1/2"	3/4"	25/0.99	50/0.98	75/0.98	100/0.97	113/0.96	111/0.97	109/0.95	107/0.94	105/0.93	104/0.93
	3/8"	7/8"	25/1	50/0.99	75/0.99	78/0.98	68/0.99	57/0.98	46/0.98	36/0.98	25/0.97	15/0.97
	1/2"	7/8"	25/1	50/0.99	75/0.99	100/0.98	113/0.99	111/0.98	109/0.98	107/0.98	105/0.97	104/0.97
5 Ton	3/8"	3/4"	25/0.99	50/0.98	70/0.97	54/0.97	38/0.94	22/0.93	6/0.92	0/0.9	0/0.89	0/0.89
	1/2"	3/4"	25/0.99	50/0.98	75/0.97	100/0.97	107/0.94	104/0.93	101/0.92	97/0.9	95/0.89	93/0.89
	3/8"	7/8"	25/0.99	50/0.99	70/0.98	54/0.98	38/0.98	22/0.97	6/0.96	0/0.98	0/0.97	0/0.96
	1/2"	7/8"	25/0.99	50/0.99	75/0.98	100/0.98	107/0.98	104/0.97	101/0.96	97/0.98	95/0.97	93/0.96
	3/8"	1-1/8"	25/1	50/1	70/1	54/0.99	38/0.99	22/0.99	6/0.99	0/0.99	0/0.99	0/0.98
	1/2"	1-1/8"	25/1	50/1	75/1	100/0.99	107/0.99	104/0.99	101/0.99	97/0.99	95/0.99	93/0.98

NOTES:

Maximum Equivalent Line Length may not exceed 250'.

Maximum Actual Line Length may not exceed 200'.

Light Grey shaded areas are considered long line and may require accessories as recommended in Long Line Set Guide.

DO NOT use suction line traps in the suction riser as this adds additional unwanted pressure drop in the system.

Refrigerant Line Size Information (Con't.)

15.2 SEER2 AC R-454B												
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Equivalent Length (Meters)									
			0-7.6	7.9-15.2	15.5-22.9	23.2-30.5	30.8-38.1	38.4-45.7	46-53.3	53.6-61	61.3-68.6	68.9-76.2
			Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) */ Capacity Multiplier									
1.5 Ton	1/4"	5/8"	8/1	15/0.99	19/0.99	12/0.98	6/0.98	0/0.98	0/0.98	0/0.98	0/0.97	0/0.97
	5/16"	5/8"	8/1	15/0.99	23/0.99	30/0.98	30/0.98	28/0.98	27/0.98	25/0.98	24/0.97	23/0.97
	3/8"	5/8"	8/1	15/0.99	23/0.99	30/0.98	36/0.98	35/0.98	35/0.98	34/0.98	34/0.97	34/0.97
	1/4"	3/4"	8/1	15/1	19/1	12/0.99	6/0.99	0/0.99	0/0.99	0/0.99	0/0.99	0/0.98
	5/16"	3/4"	8/1	15/1	23/1	30/0.99	30/0.99	28/0.99	27/0.99	25/0.99	24/0.99	23/0.98
	3/8"	3/4"	8/1	15/1	23/1	30/0.99	36/0.99	35/0.99	35/0.99	34/0.99	34/0.99	34/0.98
2 Ton	1/4"	5/8"	8/1	15/0.99	8/0.98	0/0.98	0/0.98	0/0.97	0/0.96	0/0.97	0/0.96	0/0.95
	5/16"	5/8"	8/1	15/0.99	23/0.98	27/0.98	24/0.98	21/0.97	19/0.96	16/0.97	14/0.96	12/0.95
	3/8"	5/8"	8/1	15/0.99	23/0.98	30/0.98	33/0.98	32/0.97	31/0.96	30/0.97	30/0.96	29/0.95
	1/4"	3/4"	8/1	15/1	8/0.99	0/0.99	0/0.99	0/0.98	0/0.98	0/0.99	0/0.99	0/0.98
	5/16"	3/4"	8/1	15/1	23/0.99	27/0.99	24/0.99	21/0.98	19/0.98	16/0.99	14/0.99	12/0.98
	3/8"	3/4"	8/1	15/1	23/0.99	30/0.99	33/0.99	32/0.98	31/0.98	30/0.99	30/0.99	29/0.98
2.5 Ton	5/16"	5/8"	8/0.99	15/0.98	23/0.98	21/0.97	17/0.98	13/0.96	9/0.94	5/0.93	2/0.92	0/0.93
	3/8"	5/8"	8/0.99	15/0.98	23/0.98	30/0.97	31/0.98	29/0.96	28/0.94	27/0.93	25/0.92	24/0.93
	5/16"	3/4"	8/1	15/0.99	23/0.99	21/0.98	17/0.98	13/0.99	9/0.98	5/0.98	2/0.97	0/0.97
	3/8"	3/4"	8/1	15/0.99	23/0.99	30/0.98	31/0.98	29/0.99	28/0.98	27/0.98	25/0.97	24/0.97
3 Ton	5/16"	5/8"	8/0.99	15/0.98	20/0.97	14/0.97	9/0.94	3/0.93	0/0.92	0/0.91	0/0.9	0/0.9
	3/8"	5/8"	8/0.99	15/0.98	23/0.97	30/0.97	28/0.94	26/0.93	24/0.92	22/0.91	20/0.9	18/0.9
	5/16"	3/4"	8/1	15/0.99	20/0.98	14/0.99	9/0.98	3/0.98	0/0.97	0/0.96	0/0.96	0/0.98
	3/8"	3/4"	8/1	15/0.99	23/0.98	30/0.99	28/0.98	26/0.98	24/0.97	22/0.96	20/0.96	18/0.98
	1/2"	3/4"	8/1	15/0.99	23/0.98	30/0.99	36/0.98	36/0.98	35/0.97	35/0.96	35/0.96	34/0.98
	5/16"	7/8"	8/1	15/1	20/0.99	14/0.99	9/0.99	3/0.98	0/0.98	0/0.99	0/0.99	0/0.99
	3/8"	7/8"	8/1	15/1	23/0.99	30/0.99	28/0.99	26/0.98	24/0.98	22/0.99	20/0.99	18/0.99
	1/2"	7/8"	8/1	15/1	23/0.99	30/0.99	36/0.99	36/0.98	35/0.98	35/0.99	35/0.99	34/0.99
3.5 Ton	3/8"	3/4"	8/0.99	15/0.99	23/0.99	27/0.98	24/0.97	22/0.96	20/0.98	17/0.96	14/0.95	12/0.95
	1/2"	3/4"	8/0.99	15/0.99	23/0.99	30/0.98	35/0.97	35/0.96	34/0.98	34/0.96	33/0.95	33/0.95
	3/8"	7/8"	8/1	15/0.99	23/0.99	27/0.99	24/0.98	22/0.99	20/0.99	17/0.98	14/0.98	12/0.98
	1/2"	7/8"	8/1	15/0.99	23/0.99	30/0.99	35/0.98	35/0.99	34/0.99	34/0.98	33/0.98	33/0.98
4 Ton	3/8"	3/4"	8/0.99	15/0.98	23/0.98	24/0.97	21/0.96	17/0.97	14/0.95	11/0.94	8/0.93	5/0.93
	1/2"	3/4"	8/0.99	15/0.98	23/0.98	30/0.97	34/0.96	34/0.97	33/0.95	33/0.94	32/0.93	32/0.93
	3/8"	7/8"	8/1	15/0.99	23/0.99	24/0.98	21/0.99	17/0.98	14/0.98	11/0.98	8/0.97	5/0.97
	1/2"	7/8"	8/1	15/0.99	23/0.99	30/0.98	34/0.99	34/0.98	33/0.98	33/0.98	32/0.97	32/0.97
5 Ton	3/8"	3/4"	8/0.99	15/0.98	21/0.97	16/0.97	12/0.94	7/0.93	2/0.92	0/0.9	0/0.89	0/0.89
	1/2"	3/4"	8/0.99	15/0.98	23/0.97	30/0.97	33/0.94	32/0.93	31/0.92	30/0.9	29/0.89	28/0.89
	3/8"	7/8"	8/0.99	15/0.99	21/0.98	16/0.98	12/0.98	7/0.97	2/0.96	0/0.98	0/0.97	0/0.96
	1/2"	7/8"	8/0.99	15/0.99	23/0.98	30/0.98	33/0.98	32/0.97	31/0.96	30/0.98	29/0.97	28/0.96
	3/8"	1-1/8"	8/1	15/1	21/1	16/0.99	12/0.99	7/0.99	2/0.99	0/0.99	0/0.99	0/0.98
	1/2"	1-1/8"	8/1	15/1	23/1	30/0.99	33/0.99	32/0.99	31/0.99	30/0.99	29/0.99	28/0.98

NOTES:

Maximum Equivalent Line Length may not exceed 76 meters.

Maximum Actual Line Length may not exceed 61 meters.

Light Grey shaded areas are considered long line and may require accessories as recommended in Long Line Set Guide.

DO NOT use suction line traps in the suction riser as this adds additional unwanted pressure drop in the system.

Performance Data @ AHRI Standard Conditions – Cooling

DESIGNATED TESTED COMBINATION (DTC)							
Outdoor Unit	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER2	EER2	Indoor CFM [L/s]
FWA15AY18AJ1	TCFY2417STAN	17,100 [5.0]	13,100 [3.8]	4,000 [1.2]	14.3	11.7	600 [283.2]
FWA15AY24AJ1	TCFY2417STAN	22,800 [6.7]	17,500 [5.1]	5,300 [1.6]	14.3	11.7	735 [346.9]
FWA15AY30AJ1	TCFY3621MTAN	28,600 [8.4]	21,800 [6.4]	6,800 [2.0]	14.3	11.7	910 [429.5]
FWA15AY36AJ1	TCFY3621MTAN	33,600 [9.8]	25,200 [7.4]	8,400 [2.5]	14.3	11.7	1,030 [486.1]
FWA15AY42AJ1	TCFY4821STAA	40,000 [11.7]	29,500 [8.6]	9,000 [2.6]	14.3	11.7	1,300 [613.5]
FWA15AY48AJ1	TCFY4821STAA	45,500 [13.3]	34,500 [10.1]	10,500 [3.1]	13.8	11.7	1,425 [672.5]
FWA15AY60AJ1	TCFY6024STAN	56,000 [16.4]	42,900 [12.6]	13,100 [3.8]	13.8	11.7	1,575 [743.3]
FWA15AY36AC1	TCFY3621MTAN	33,600 [9.8]	25,200 [7.4]	8,400 [2.5]	14.3	11.7	1,030 [486.1]
FWA15AY42AC1	TCFY4221STAA	40,000 [11.7]	30,700 [9.0]	9,300 [2.7]	14.3	11.7	1,300 [613.5]
FWA15AY48AC1	TCFY4821STAA	45,500 [13.3]	34,900 [10.2]	10,600 [3.1]	13.8	11.7	1,425 [672.5]
FWA15AY60AC1	TCFY6024STAN	56,000 [16.4]	42,900 [12.6]	13,100 [3.8]	13.8	11.7	1,575 [743.3]
FWA15AY36AD1	TCFY3621MTAN	33,600 [9.8]	25,200 [7.4]	8,400 [2.5]	14.3	11.7	1,030 [486.1]
FWA15AY42AD1	TCFY4221STAA	40,000 [11.7]	30,700 [9.0]	9,300 [2.7]	14.3	11.7	1,300 [613.5]
FWA15AY48AD1	TCFY4821STAA	45,500 [13.3]	34,900 [10.2]	10,600 [3.1]	13.8	11.7	1,425 [672.5]
FWA15AY60AD1	TCFY6024STAN	56,000 [16.4]	42,900 [12.6]	13,100 [3.8]	13.8	11.7	1,575 [743.3]

NOTE: This data includes DTC (Designated Test Combination) ratings and is for reference purposes only. A full listing of official ratings and system match-ups, along with downloadable certificates, can be accessed from the AHRI website: www.ahridirectory.org.

[] Designates Metric Conversions



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GENERAL TERMS OF LIMITED WARRANTY*

Friedrich® will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

Conditional Parts
(Registration Required)..... Ten (10) Years

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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