

## **FS4BF Series**

### **R-410A Ultra High Efficiency Air Conditioner**

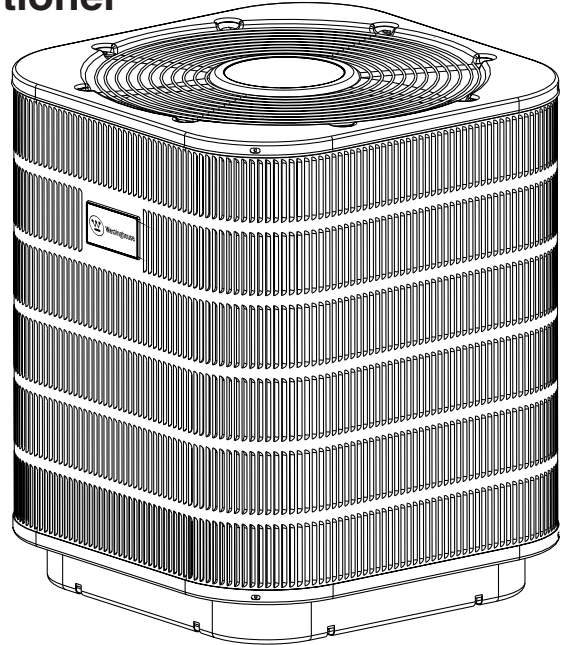
#### **16 SEER Residential System**

#### **2 - 5 Ton Capacity**

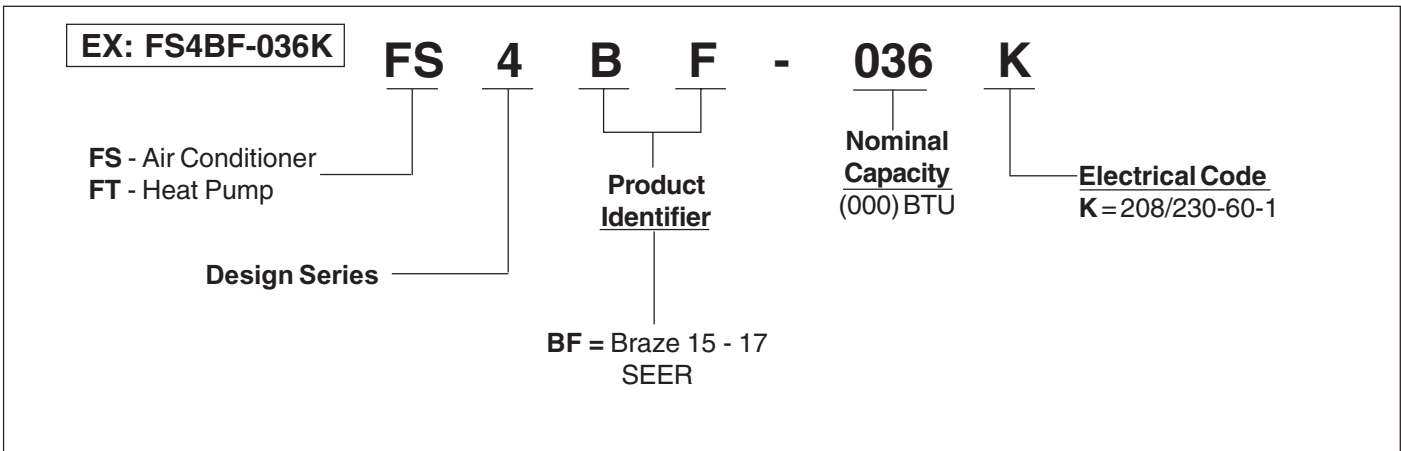
Westinghouse now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated ProLong 410™ (R-410A). The FS4BF Series of Westinghouse air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a line of quality, 16 SEER split system cooling equipment.

### **FEATURES and BENEFITS**

- **ProLong 410™ Refrigerant (R-410A)** – Earth friendly non-ozone depleting refrigerant.
- **ProAlert™ Module** – Detects system and electrical problem conditions. A diagnostics key directs the service technician to the root cause of a problem.
- **"Ultra Tech" Copeland Scroll™ Compressor** – The Ultra Tech Compressor operates with 2 stages of cooling capacity to provide superior comfort and efficiency. Copeland's proven and simple design equates to years of comfort and reliability for the homeowner with virtually silent operation.
- **Durable, Attractive Cabinet** – Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Copper Tube / Aluminum Fin Coils** – Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Port Service Valves** – Full port brass ball valves provide low pressure drop and ease of service. The valves are actuated by 1/4 turn full open to full close.
- **Louvered Condenser Guard** – Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **Low Pressure Switch** – Loss of charge protection ensures long compressor life. Auto-reset feature prevents nuisance service visits.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Discharge Temperature Limit** – Protects the compressor from abnormally high discharge temperatures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **2-1/2" Pedestal Base** – The sturdy base keeps the bottom of the coil out of harms way. Secondly, the base has weep holes along the edge to allow the water from rain to flow away from the unit.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **8 Year Limited All Parts Warranty, 5 Year Quality Pledge and 10 Year Parts Coverage on Compressor** – The best in the industry and has proven to be a major benefit to the consumer.



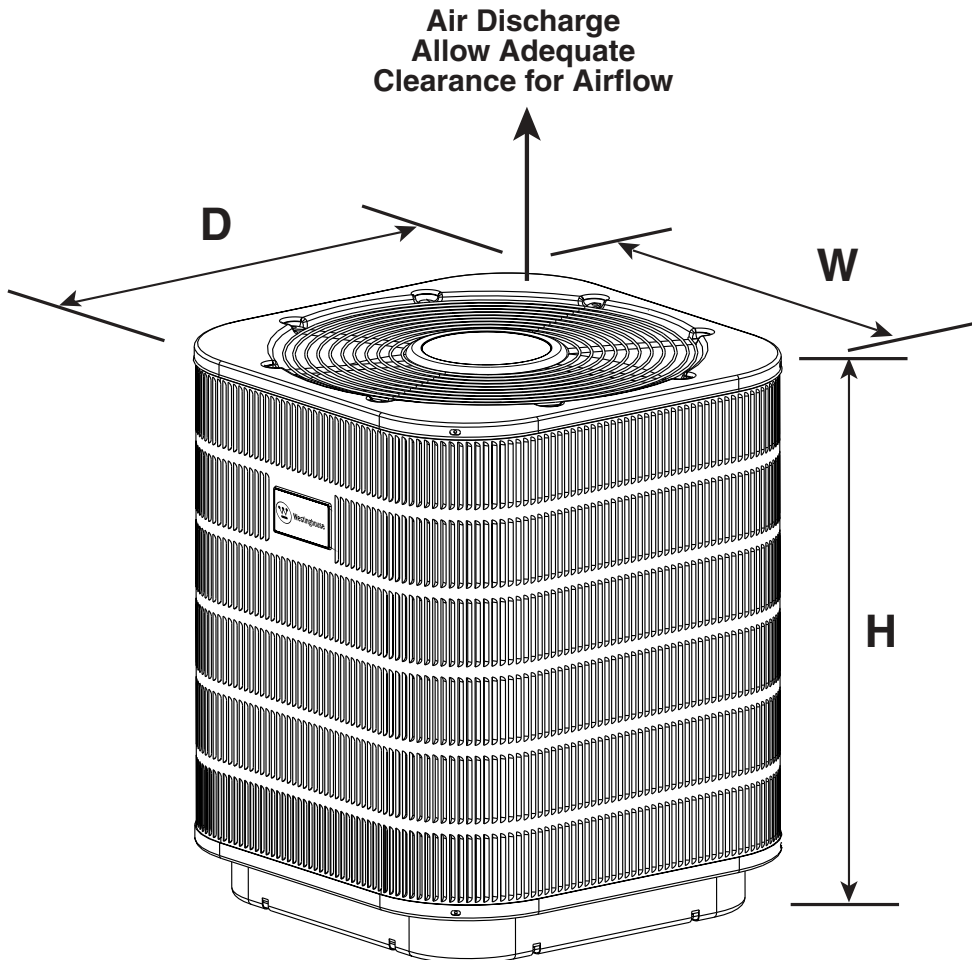
# MODEL IDENTIFICATION CODES



## DIMENSIONS

### AIR CONDITIONER OUTDOOR SECTION

FS4BF	024	036	048	060
H	34 1/2	42 1/2	42 1/2	42 1/2
W	30 1/2	30 1/2	30 1/2	30 1/2
D	30 1/2	30 1/2	30 1/2	30 1/2



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 16 SEER — R-410A Ultra High Efficiency — Single Phase

Model Number FS4BF		024	036	048	060	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps	11.3	17.9	22.4	26.9	
	Delay Fuse Max. (2)	20	35	45	50	
	Min. Circuit Ampacity	13.9	22.1	27.7	33.3	
Condenser Data	Coil	Area	20.3	25.4	25.4	25.4
		Rows-FPI	2-18	2-18	2-18	2-18
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC
		Speeds	1	2	2	2
		Amps	1.0	1.3	1.3	1.3
		Lo/Hi Spd Watt	200	187/250	187/250	187/250
		HP	1/4	1/4	1/4	1/4
	Fan Blade	Dia-# Blades	24"- 2	24"- 2	24"- 2	24"- 2
		SCFM	3600	4000	4000	4000
	Compressor Data	RLA	10.3	16.6	21.1	25.6
		LRA	52	82	96	99
	Refrigerant suction line O.D. (all length of liquid line are 3/8" O.D.)	0-24 ft.	3/4"	7/8" (4)	7/8"	7/8"
25-39 ft.		7/8"	1-1/8" (5)	1-1/8" (5)	1-1/8" (5)	
40-75 ft.		7/8"	1-1/8" (5)	1-1/8" (5)	1-1/8" (5)	
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.		192	264	232	248	
Weight	Net	248	260	270	284	
	Approximate (lbs.)	Ship	260	272	282	296

- (1) Operating voltage range: 187V minimum - 253 V maximum
- (2) HACR type circuit breakers may be used
- (3) Requires 3/4" to 5/8" reducer from unit to lineset.
- (4) Requires 7/8" to 3/4" reducer from unit to lineset.
- (5) Requires 1-1/8" to 7/8" reducer from unit to lineset.
- (6) Use of a 3/4" lineset will result in approximately 2% loss in capacity.

## ACCESSORIES - Condensing Unit

### Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

### Variable Speed Blower Kit (VSB)

904075 - Furnace "B" cab. & "C" cab.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit
200	150	100	50	Ampacity
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

# SYSTEM COOLING CAPACITIES

16 SEER — Ultra High Efficiency — Single Phase

With this Coil						
Outdoor Unit Number FS4BF	Indoor Unit Number C4BA-	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	Low Speed SCFM	High Speed SCFM
024K	024(C,U)-B+VSB	18000	24000	15.5	650	850
036K	036(C,U)-B+VSB	25000	36000	16.0	720	1050
048K	048(C,U)-C+VSB	35000	48000	16.2	1100	1595
060K	060(C,U)-C+VSB	42000	57000	15.0	1170	1700

With this Air Handler						
Outdoor Unit Number FS4BF	Indoor Unit Number B4VM	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	Low Speed SCFM	High Speed SCFM
024K	024KB	18000	24000	15.5	650	850
036K	036KC	25000	36000	16.0	730	1060
048K	048KC	35000	48000	16.2	1070	1555
060K	060KC	42000	57000	15.0	1150	1665

Air handlers and coils used in tables are designed and manufactured by NORDYNE.

## COMFORT ALERT™ DIAGNOSTIC MODULE

Green POWER LED Indicates Voltage Is Present At The Power Connection Of The Module

Yellow ALERT LED Flashes To Indicate Fault Code

Red TRIP LED Indicates If Compressor Is Tripped Or Has No Power



Pass Through Ports Detect Run/Start Current; Spade Connectors Detect Tstat Demand and Pilot Voltage; Microprocessor Monitors Behavior To Determine Faults

Diagnostics Key Directs Service Tech To The Root Cause Of A Problem



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI



Westinghouse products are manufactured and distributed by NORDYNE.

474B-0404 (Replaces 474B-0603)

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations.

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