
TECHNICAL SPECIFICATIONS



DS4BF-KA Series R-410A Extra High Efficiency Air Conditioner 16 SEER Residential System 2 - 5 Ton Capacity

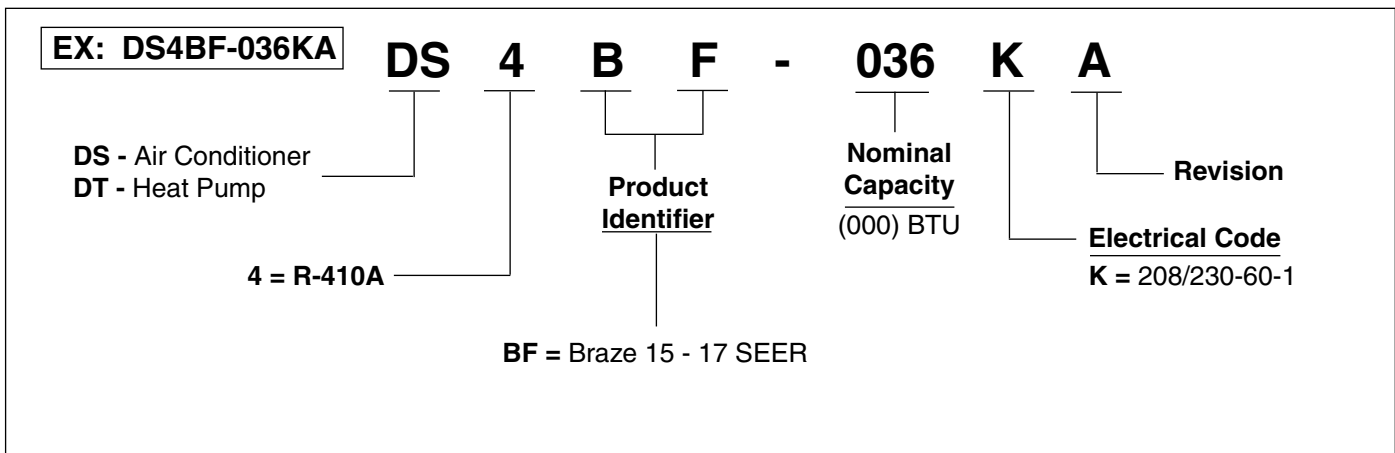
The DS4BF-KA Series now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The DS4BF-KA Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a line of quality, 16 SEER split system cooling equipment.



FEATURES and BENEFITS

- **Warranty**
 - This product offers a 10-year all-parts warranty.
 - This product offers a 1 Year Quality Pledge to replace the unit if the compressor fails in the first year of operation, to the original owner. All split system products must be installed with a matched indoor air handler or indoor coil.
 - Consumer product registration required for 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- **Composite Base Pan** – Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **R-410A Refrigerant** – Earth friendly non-ozone depleting refrigerant.
- **ComfortAlert™ Module** – Detects system and electrical problem conditions. A diagnostics key directs the service technician to the root cause of a problem.
- **Copeland Scroll UltraTech™ 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.
- **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.
- **Swept-Wing Fan Blade**
- **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.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **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.

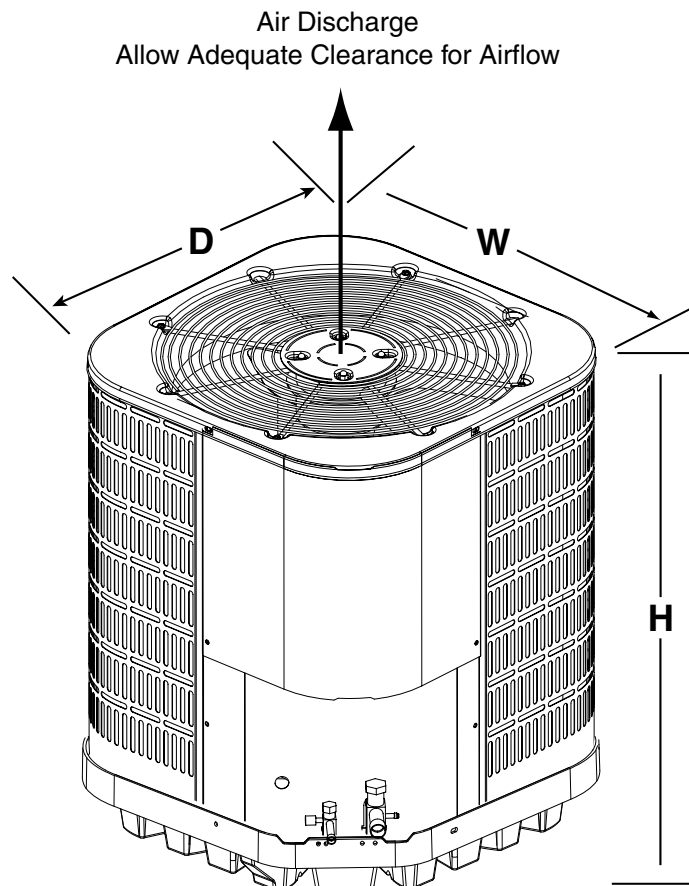
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

DS4BF	024KA	036KA	048KA	060KA
H	35	43	43	43
W	30 3/4	30 3/4	30 3/4	30 3/4
D	30 3/4	30 3/4	30 3/4	30 3/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

16 SEER — R-410A Extra High Efficiency — Single Phase

Model Number DS4BF			024KA	036KA	048KA	060KA
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	24.0	25.9
	Delay Fuse Max. (2)		20	35	50	50
	Min. Circuit Ampacity		13.9	22.1	29.3	31.7
Condenser Data	Coil	Area	25.4	25.4	25.4	25.4
		Rows-FPI	1-20	1-20	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	BLDC	BLDC
		Speeds	1	2	2	2
		Amps	1.0	1.3	2.9	2.9
		Lo/Hi Spd Watts	200	187/250	150/200	150/200
		HP	1/4	1/4	1/3	1/3
		Fan Blade	Dia-# Blades	24"- 2	24"- 2	24"- 2
	SCFM		3600	4000	4000	4000
	Compressor Data	RLA	10.3	16.6	21.1	23.0
		LRA	52	82	96	118
	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"
25-39 ft.			7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
40-75 ft.			7/8"	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.			150	170	250	260
Weight Approximate (lbs.)		Net	248	260	270	284
		Ship	260	272	282	296

(1) Operating voltage range: 187V minimum - 253 V maximum

(2) HACR type circuit breakers may be used

(3) Requires 1-1/8 to 7/8" reducer from unit to lineset.

(4) 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.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
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 — Extra High Efficiency — Single Phase

With this Coil							
Outdoor Unit Number DS4BF	Indoor Unit Number C6BA/H-	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM
024KA	X24(C,U)-B+MB6VM	18000	24000	16.0	13.5	640	850
036KA	X36(C,U)-B+MB6VM	25000	36000	16.0	12.5	900	1250
036KA	X36(C,U)-C+MB6VM	25000	36000	16.0	12.5	900	1250
048KA	X48(C,U)-C+MB6VM	34000	48000	16.0	12.5	1100	1600
048KA	X48(C,U)-D+MB6VM	34000	48000	16.0	12.5	1100	1600
060KA	X60(C,U)-C+MB6VM	40000	56000	16.0	12.5	1170	1700
060KA	X60(C,U)-D+MB6VM	40000	56000	16.0	12.5	1170	1700

With this Air Handler							
Outdoor Unit Number DS4BF	Indoor Unit Number B4VM-	Low Speed Capacity (Btu/h)	High Speed Capacity (Btu/h)	SEER	EER	Low Speed SCFM	High Speed SCFM
024KA	X24KB	18000	24000	16.0	13.5	640	850
036KA	X36KB	25000	36000	16.0	12.5	900	1250
048KA	X48KC	34000	48000	16.0	12.5	1100	1600
060KA	X60KC	40000	56000	16.0	12.5	1170	1700

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

See current AHRI Directory for certified combinations and ratings.

www.ahridirectory.org

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



We Encourage Professionalism



Through Technician Certification by NATE

www.nordyne.com

894C-1208 (Replaces 894C-0708)

O'Fallon, MO

NORDYNE

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. Printed in U.S.A. (12/08)