

TECHNICAL SPECIFICATIONS

O4 Series Oil Furnaces

Variable Speed Blower

O4HD-091A-V-FA

O4HD-140A-V-FA

The heart of the O4 series furnace with variable speed blower is the ECM motor (electronically commutated motor). The ECM consists of a brushless DC type motor with a microprocessor based variable speed drive. The drive continuously monitors RPM and torque output of the motor. This information is fed into pre-programmed algorithms in the microprocessor for correct motor output to maintain constant airflow regardless of external static pressure. The microprocessor stores delay profiles to optimize the efficiency and performance of the split system. The variable speed blower steps through intermediate airflows during the on and off profiles. This results in smoother, more efficient operation with quiet, gradual starts and stops.



High Boy

WARRANTY

- This product offers a 10-year All-Parts Warranty.
- This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner.
- Consumer product registration required for both 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.
- Also when registered, this product is upgraded to a limited lifetime heat exchanger warranty.

FEATURES and BENEFITS

- **Cabinet Construction:** 22 gauge steel cabinet ensures strength and quiet operation.
- **Finish:** Thermoset powder paint for greater durability.
- **Firing Rates:** Multi-firing rates for a wide range of applications.
- **Burner:** Equipped with industry leading Beckett burner which includes cleancut pump, PSC motor, and solid state controls. Factory pre-wired, pre-assembled and tested. Ready to connect to fuel supply line.
- **Barometric Draft Control:** Included with all models.
- **Heat Exchanger:** Proven heat exchanger design featuring 100% welded construction for maximum performance. Large, accessible heat exchanger clean-out ports.
- **Radiator:** "Wrap-around" type for maximum heat transfer.
- **Variable Speed Blower:** Maximizes air conditioner and heat pump efficiencies. On selected units, SEER ratings up to 16 and HSPF ratings up to 8.5 are AHRI listed.
- **Blower Assembly:** Entire unit with motor can be easily removed for servicing.
- **Filters Included in all Models:** Filter and rack packaged with O4HD models.
- **Insulation:** Spun glass and aluminum foil for "hand cool" cabinet.
- **Access Door:** Easily removed for access to burner and controls. Completely enclosed controls and burner in most units.
- **A.F.U.E.** Ratings up to 84%.
- **Coil Transitions:** Adapts Furnace outlet to accept C6 cased coils.
 - B Cabinet: sku 559528
 - C Cabinet: sku 559529
 - D Cabinet: sku 559530

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Caution - All oil furnaces require proper set-up and installation by a certified oil heat technician.

SYSTEM SPECIFICATIONS:

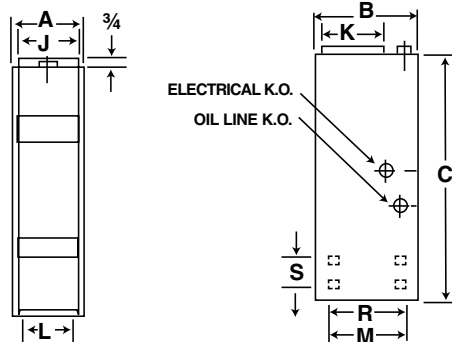
Model Number 04HD-	BTU Input	Heating Capacity BTU/HR	AFUE	Blower Performance CFM Range	Nozzle G.P.H.	Angle of Spray	Filter Size	Ship Wt.
091A-V-FA	70,000	58,800	84.0	0-1227	0.50	80° A	16 x 25	240
	91,000	75,530	83.0		0.65	80° A	16 x 25	240
	105,000	86,100	82.0		0.75	80° A	16 x 25	240
140A-V-FA	105,000	88,200	83.0	0-1527	0.75	60° W	16 x 25	280
	119,000	99,365	83.0		0.85	60° W	16 x 25	280
	140,000	116,200	83.0		1.00	60° W	16 x 25	280

Bold represents factory setting

	04HD-091A-V-FA	04HD-140A-V-FA
Nominal Blower Size	10 x 10T	10 x 10
Motor HP	1/2	1/2
Motor Type	Programmable Variable Speed	Programmable Variable Speed
RPM Range	0-1200	0-1200
Cooling CFM Range	600-1200	600-1527
Heating Airflow Range	600-1200	600-1527

DIMENSIONS:

Model Number 04HD	Cabinet Size			Supply Plenum		Bottom Return		Side Return Air K.O.		Diameter of Flue Pipe
	Width A	Depth B	Height C	Width J	Depth K	Width L	Depth M	Width R	Depth S	
091A-V-FA	22	31	49 1/2	20 1/2	20	14	22	22	14	5
140A-V-FA	22	31	58 1/8	20 1/2	20	14	22	22	14	6



FRONT VIEW

SIDE VIEW



GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC LLC warranty department for a copy.

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 (01/2015)

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