



OIL FIRED UPFLOW FURNACE SPECIFICATIONS

MODEL NO.	OH8FA119D60/DV5B			OH8FA119D60/DV5R			OH8FA119D60/DV5C		
HEATING CAPACITY	High Fire	Med Fire	Low Fire	High Fire	Med Fire	Low Fire	High Fire	Med Fire	Low Fire
HEAT INPUT RATE (BTUH)	156,250	140,000	119,000	156,250	140,000	119,000	156,250	140,000	119,000
OUTPUT BTUH ¹	132,000	120,000	101,000	132,000	120,000	101,000	132,000	120,000	101,000
SEASONAL EFFICIENCY ²	85.8%			86.0%			85.0%		
LARGEST REC A/C ³	5 Tons			5 Tons			5 Tons		
NOMINAL TEMP RISE	66°	66°	66°	66°	66°	66°	66°	66°	66°
BIO FUEL APPROVAL	B20			B5			B20		
CASING HEIGHT (IN.):	50 1/8"			50 1/8"			50 1/8"		
CASING WIDTH (IN.):	24 1/2"			24 1/2"			24 1/2"		
CASING DEPTH (IN.):	36 1/2"			36 1/2"			36 1/2"		
NOMINAL FLUE OUTLET DIA.	7"			7"			7"		
APPROX SHIPPING WEIGHT LBS	310			310			310		
APPROVAL STANDARDS	UL727 CAN/CSA B140.4			UL727 CAN/CSA B140.4			UL727 CAN/CSA B140.4		
QTY AND SIZE OF PERMANENT FILTERS	(1) 24 3/4" X 19 3/4"			(1) 24 3/4" X 19 3/4"			(1) 24 3/4" X 19 3/4"		
ELECTRICAL REQUIREMENTS VAC/HZ/PH	120/60/1			120/60/1			120/60/1		
MAX FUSE SIZE (AMPS) PSC/ECM	20/20			20/20			20/20		
TOTAL CURRENT (AMPS) PSC/ECM	16/15.9			16/15.9			16/15.9		
HEIGHT FROM FLOOR TO CENTER OF FLUE	42 1/2"			42 1/2"			42 1/2"		
SUPPLY AIR OUTLET SIZE (W-IN. X D-IN.)	20" X 20"			20" X 20"			20" X 20"		
RETURN AIR DUCTWORK CONNECTION FLANGE SIZE ON FILTER RACK (D-IN. X H-IN.)	23 3/4" X 19"			23 3/4" X 19"			23 3/4" X 19"		
RETURN AIR INLET OPENING SIZE IN SIDE CASING (TO BE CUTOUT BY DEALER) (D-IN. X H-IN.)	23" X 14"			23" X 14"			23" X 14"		
OPTIONAL REAR RETURN AIR OPENING (D-IN X H-IN)	22" X 14"			22" X 14"			22" X 14"		
ACCESSORY ITEMS									
2-LINE SYSTEM KIT FOR RIELLO	N/A			380705			N/A		
FIELD VENT TERMINATION KIT ⁵	AOPS8414			AOPS8414			N/A		
SIDEWALL VENT ACCESSORIES KIT ⁵	AOPS8394			AOPS8395			N/A		
COMBUSTION AIR KIT	AOPS8397			AOPS8416			N/A		
BLOCKED VENT KIT ⁴	350156			350156			350156		
OIL BURNER	BECKETT AFG (380754)			RIELLO BF5 (380756)			CARLIN EZ-1HP (380836)		
SUPPLY PLENUM	PK202X202			PK202X202			PK202X202		
RETURN BOOT & DROP KIT	RD2512X2520			RD2512X2520			RD2512X2520		
CASED COIL 2-3 TON	HE33936PA212			HE33936PA212			HE33936PA212		
CASED COIL 2-3 TON HIGH EFF.	HE47936PA212			HE47936PA212			HE47936PA212		
CASED COIL 3.5-5 TON	HE50960PA212			HE50960PA212			HE50960PA212		

¹ OUTPUT BTUH BASED ON ANNUAL FUEL UTILIZATION EFFICIENCY RATED BY MANUFACTURER.

² SEASONAL EFFICIENCY (ALSO CALLED AFUE - ANNUAL FUEL UTILIZATION EFFICIENCY) RATINGS ARE BASED ON TESTS FOLLOWING U.S. DEPARTMENT OF ENERGY TEST PROCEDURES.

³ TO PERMIT LARGEST RECOMMENDED AIR CONDITIONING (AT .5 STATIC PRESSURE), SELECTION OF THE HIGHEST MOTOR SPEED IS REQUIRED.

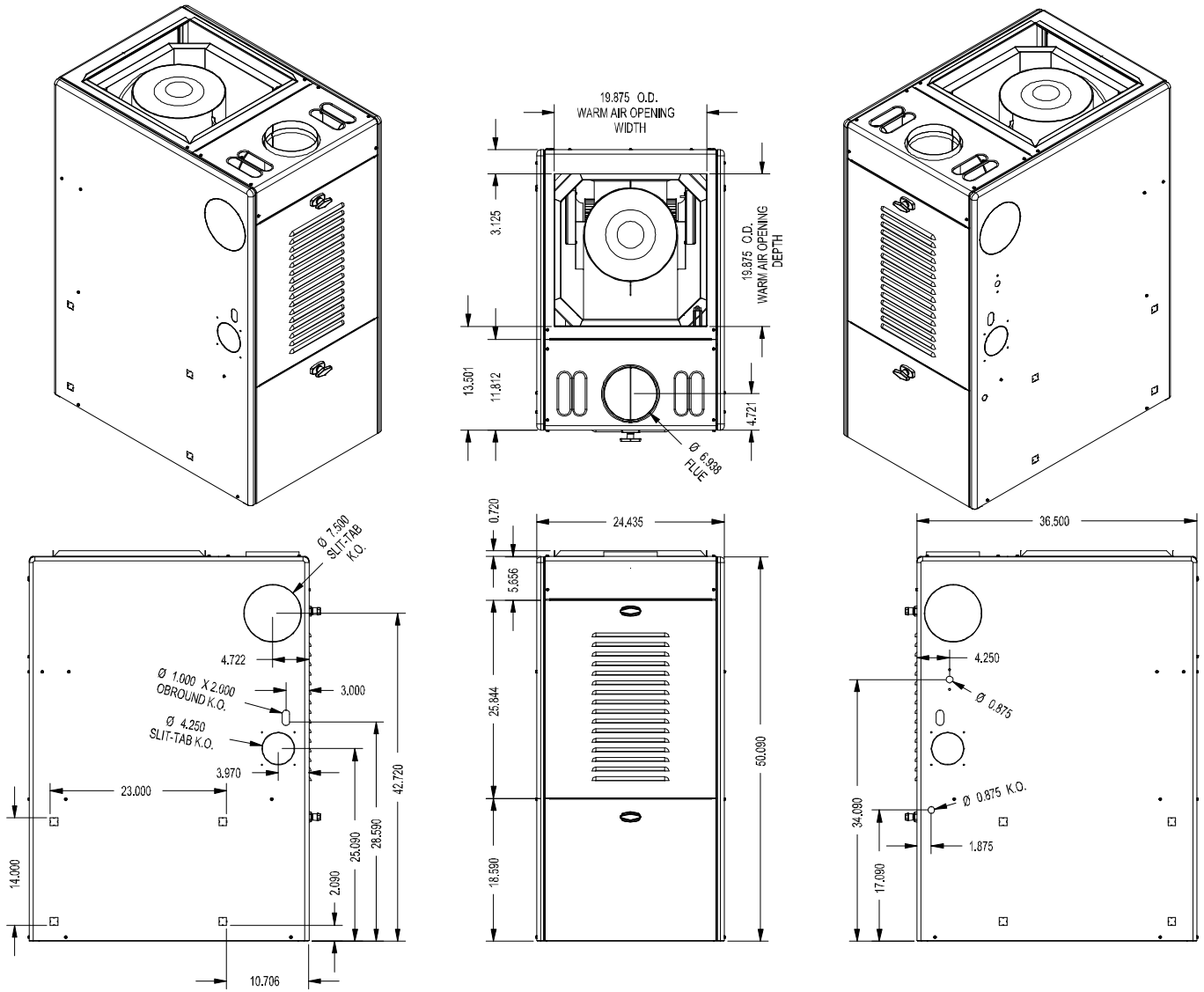
⁴ NOT TO BE USED IN SIDEWALL VENT APPLICATIONS, USE ONLY WHEN CHIMNEY VENTED.

⁵ NOT TO BE USED WITH CARLIN BURNER.

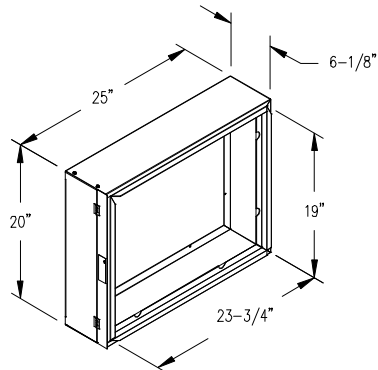
Model Number Digit	1	2	3	4	5	6	7	8	9	10	11	12
	Fuel	Configuration	Heat Exchanger Identifier	Flue	Design Change	Capacity	Capacity	Capacity	Blower Type	Clg Airflow Cap.	Clg Airflow Cap.	Burner
Oil Furnace Model Nomenclature Example Model Numbers	O	H	8	F	A	1	1	9	D	6	0	B
	O	H	8	F	A	1	1	9	D	V	5	R
O = Oil	O											
H = Highboy		H										
6 = Heat Exchanger Size Identifier			8									
F = Front				F								
Design Change					A							
Heating Capacity MBTUH (000's) with factory installed nozzle						1	1	9				
D = Direct Drive									D			
Clg. Airflow: Example = 48MBTUH = 4 tons @ 400cfm/ton										6	0	
Clg. Airflow Variable Speed (ECM) V4= 4tons										V	5	
B = Beckett, R = Riello, N = Beckett NX, C = Carlin												B

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FILTER RACK SPECIFICATIONS



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BLOWER DATA:	OH8FA119D60	OH8FA119DV5
BLOWER MODEL	DD 120-11T	DD 120-11T
MOTOR H.P.	3/4 HP	1 HP Variable Speed
MOTOR TYPE & NUMBER OF SPEEDS	PSC - 4	ECM -
HIGH SPEED AIRFLOW (SCFM) @ 0.5 IN. W.G. EXTERNAL STATIC PRESSURE:	2000	2000
Diameter x Width (IN.)	11 x 11	11 x 11

BURNER DATA	RIELLO "BF5" WITH CERA-FELT SLEEVE		
AIR TUBE LENGTH (IN.)	4 1/2"		
BURNER HEAD TYPE:	Fixed		
FUEL TYPE / BIO APPROVAL:	#2 / B5		
NOZZLE RATING (GPH):	1.00	0.85	0.75
SPRAY ANGLE (DEG.):	80°	80°	80°
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	140 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

BURNER DATA	BECKETT "AFG" S - PLATE 3383 (2 3/4 U) 31517 CERAMIC		
AIR TUBE LENGTH (IN.)	4 1/2"		
BURNER HEAD TYPE:	F-6		
FUEL TYPE / BIO APPROVAL:	#2 / B20		
NOZZLE RATING (GPH):	1.10	1.00	0.85
SPRAY ANGLE (DEG.):	80°	80°	80°
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	120 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

BURNER DATA	CARLIN "EZ-1HP"		
AIR TUBE LENGTH (IN.)	4 1/2"		
BURNER HEAD TYPE:	N/A		
FUEL TYPE / BIO APPROVAL:	#2 / B20		
NOZZLE RATING (GPH):	0.90	0.85	0.75
SPRAY ANGLE (DEG.):	60°	60°	60°
SPRAY PATTERN:	HOLLOW (A)	HOLLOW (A)	HOLLOW (A)
OIL PUMP PRESSURE (PSIG):	140 PSI		
COMBUSTION CHAMBER TYPE:	REFRACTORY (SOFT CHAMBER)		

CLEARANCES	
	MINIMUM CLEARANCES TO COMUSTIBLE MATERIALS:
SIDES	0"
FRONT (SERVICE ACCESS)	(Clearance to Combustibles) 8" / 24" (Service)
REAR	0"
FLUE	8"
TOP PLENUM	1"
SIDES PLENUM	1"

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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OH8FA119D60

ALTERATIONS REQ'D FOR A/C @ DESIGN EXTERNAL STATIC PRESSURE				
COOLING UNIT	HTG Speed by Input			Recommended CLG Speed
	Low Fire	Mid Fire	High Fire	
36,000	L/ML	ML/MH	MH/H	Low (L)
42,000	L/ML	ML/MH	MH/H	Med Low (ML)
48,000	L/ML	ML/MH	MH/H	Med High (MH)
60,000	L/ML	ML/MH	MH/H	High (H)

Speed Tap\ Static Pressure	Furnace Airflow (CFM) vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	1254	1254	1251	1246	1221	1189	1126
ML	1473	1464	1460	1437	1415	1377	1329
MH	1733	1731	1718	1705	1686	1660	1627
High	2300	2243	2224	2166	2099	2048	1754
Speed Tap\ Static Pressure	Blower Motor Current Draw (Amps)/Watts vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	6.6/648	6.6/648	6.4/639	6.2/630	6.0/612	5.8/592	5.4/565
ML	7.6/772	7.2/739	7.1/730	6.8/704	6.6/683	6.3/661	6.1/641
MH	9.0/908	9.0/905	8.7/888	8.5/871	8.3/842	8.0/818	7.7/796
High	12.5/1270	11.7/1200	11.2/1150	10.7/1110	10.2/1060	9.7/1020	9.2/969

Speed Tap\ Static Pressure	High Fire Temperature Rise vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	98	98	98	99	101	103	109
ML	83	84	84	86	87	89	93
MH	71	71	72	72	73	74	76
High	53	55	55	57	59	60	70

Speed Tap\ Static Pressure	Mid Fire Temperature Rise vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	88	88	88	89	90	93	98
ML	75	75	75	77	78	80	83
MH	64	64	64	65	65	66	68
High	48	49	50	51	52	54	63

Speed Tap\ Static Pressure	Low Fire Temperature Rise vs. External Static pressure (in. WC.)						
	0.1	0.2	0.3	0.4	0.5	0.6	0.7
Low	75	75	75	75	77	79	83
ML	64	64	64	65	66	68	70
MH	54	54	55	55	56	56	58
High	41	42	42	43	45	46	53

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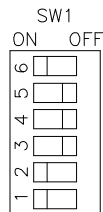
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OH8FA119DV5

Heating Speed Set-ups

Furnace Motor Current
Draw (Amps / Watts) vs.
External Static Pressure (in W.C)

			Low Fire	Med Fire	High Fire		
		BTUH	101,000	119,000	132,000		
Fan Control SW 1 Switch Settings	Heating CFM		Aprox. Rise (F°)	Aprox. Rise (F°)	Aprox. Rise (F°)	.02	.05
3-OFF 2-OFF 1-OFF	1202		78°			1.6/146	2.5/233
3-OFF 2-OFF 1-ON	1315		71°	84°		1.9/174	2.7/252
3-OFF 2-ON 1-OFF	1429		65°	77°		2.3/206	3.2/294
3-OFF 2-ON 1-ON	1565		60°	70°	78°	2.6/242	3.6/337
Factory SW1 Switch Settings	3-ON 2-OFF 1-OFF	1701	55°	65°	72°	3.1/292	4.1/399
	3-ON 2-OFF 1-ON	1860		59°	66°	3.7/354	4.8/466
	3-ON 2-ON 1-OFF	2041			60°	4.7/452	5.7/567
	3-ON 2-ON 1-ON	2223			55°	5.9/587	7.2/719



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OIL FIRED UPFLOW FURNACE SPECIFICATIONS

OH8FA119DV5

Cooling Speed Set-ups

Furnace Motor Current
Draw (Amps/Watts) vs.
External Static Pressure (in W.C.)

		Air Flow					
Fan Control SW 1 Switch Settings	Clg. Tonnage	Cool	Continuous	Dehum			
					.02	.05	
6-OFF 5-OFF 4-OFF	2	800	500	557	1.0/89	1.8/161	
6-OFF 5-OFF 4-ON	2.5	1018	509	703	1.4/121	2.1/192	
6-OFF 5-ON 4-OFF	3	1212	606	848	1.8/159	2.6/231	
6-OFF 5-ON 4-ON	3.5	1406	703	994	2.3/203	3.1/290	
Factory SW1 Switch Settings	6-ON 5-OFF 4-OFF	4	1624	800	1139	3.0/278	4.0/378
	6-ON 5-OFF 4-ON	4.5	1818	897	1285	3.8/353	5.0/475
	6-ON 5-ON 4-OFF	5	2012	994	1406	4.8/456	6.0/582
	6-ON 5-ON 4-ON	5.5	2230	1115	1551	6.1/593	7.4/729

