



OIL FIRED UPFLOW FURNACE SPECIFICATIONS

MODEL NO.	OH8FA119D60/DV5B			OH8FA119D60/DV5R		
HEATING CAPACITY	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
OUTPUT BTUH ¹	132,000	119,000	101,000	132,000	119,000	101,000
SEASONAL EFFICIENCY ²	85.8%			86.0%		
LARGEST REC A/C ³	5 Tons			5 Tons		
NOMINAL TEMP RISE	60°	60°	60°	60°	60°	60°
HEAT EXCHANGER AREA						
CASING HEIGHT (IN.):	50 1/8"			50 1/8"		
CASING WIDTH (IN.):	24 1/2"			24 1/2"		
CASING DEPTH (IN.):	36 1/2"			36 1/2"		
NOMINAL FLUE OUTLET DIA.	7"			7"		
APPROX SHIPPING WEIGHT LBS	310			310		
APPROVAL STANDARDS	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"		
ELECTRICAL REQUIREMENTS VAC/HZ/PH	120/60/1			120/60/1		
MAX FUSE SIZE (AMPS) PSC/ECM	20/20			20/20		
TOTAL CURRENT (AMPS) PSC/ECM						
HEIGHT FROM FLOOR TO CENTER OF FLUE	42 1/2"			42 1/2"		
SUPPLY AIR OUTLET SIZE (W-IN. X H-IN.)	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"		
RETURN AIR INLET OPENING SIZE IN SIDE CASING (TO BE CUTOUT BY DEALER) (D-IN. X H-IN.)	23" X 14"			23" X 14"		
OPTIONAL REAR RETURN AIR OPENING (D-IN X H-IN)	22" X 14"			22" X 14"		
	ACCESSORY ITEMS					
PROGRAMMABLE T-STAT STD/DELUXE	350164 / 350165			350164 / 350165		
FIELD VENT TERMINATION KIT	AOPS8414			AOPS8414		
SIDEWALL VENT ACCESSORIES KIT	AOPS8394			AOPS8395		
COMBUSTION AIR KIT	AOPS8397			AOPS8416		
BLOCKED VENT KIT ⁴	AOPS2687			AOPS2687		

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.

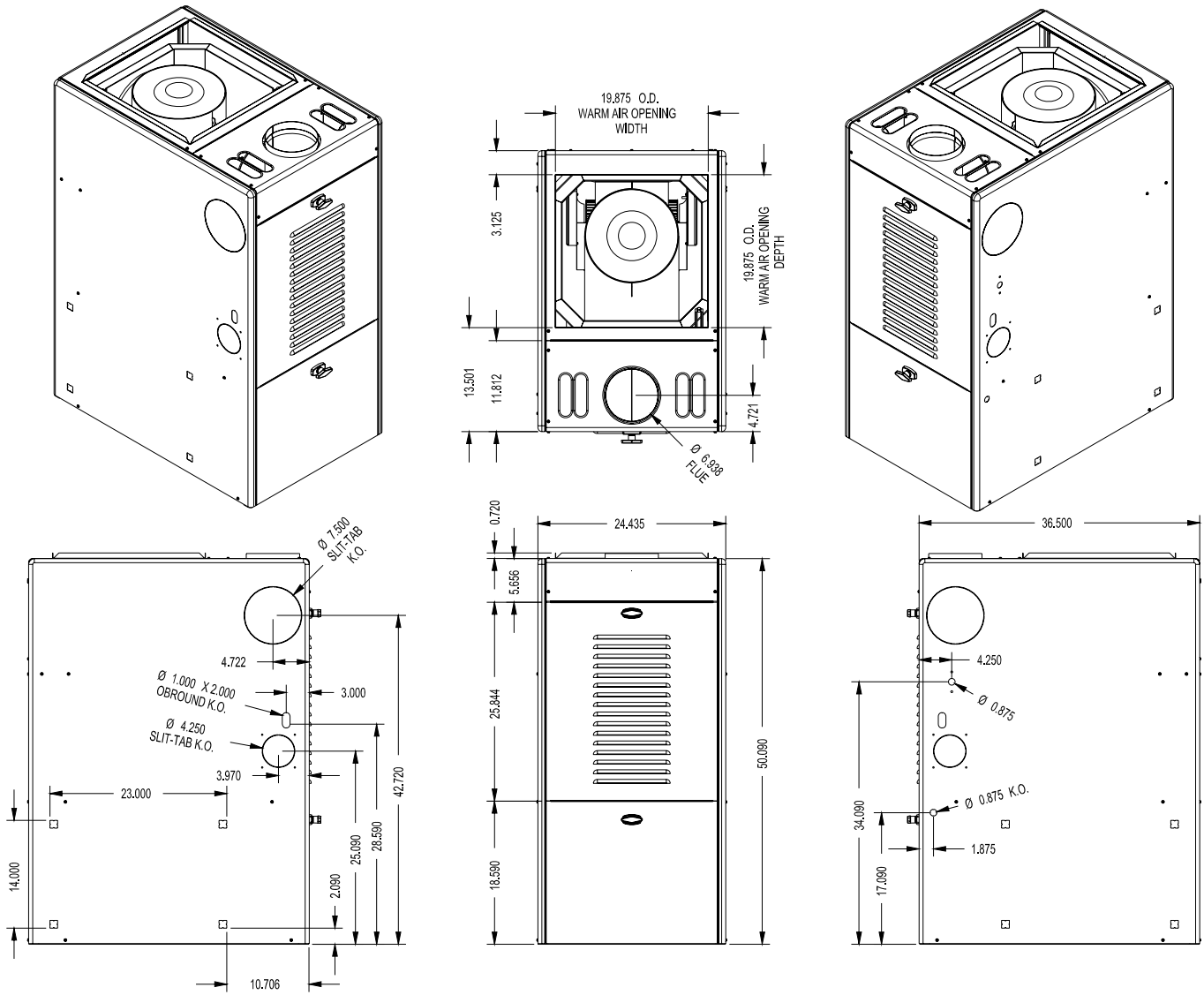
⁴ NOT TO BE USED IN SIDEWALL VENT APPLICATIONS, USE ONLY WHEN CHIMNEY VENTED.

- SEE NEXT PAGE FOR MORE DATA -

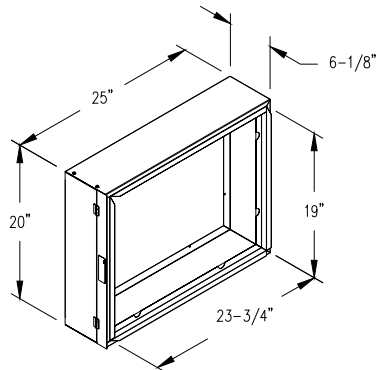
Model Number Digit	1	2	3	4	5	6	7	8	9	10	11	12
	Fuel	Configuration	Heat Exchanger Identifier	Flue	Design Change	Capacity	Capacity	Capacity	Blower Type	Clg Airflow Cap.	Clg Airflow Cap.	Burner
Oil Furnace Model Nomenclature Example Model Numbers	O	H	8	F	A	1	1	9	D	6	0	B
	O	H	8	F	A	1	1	9	D	V	5	R
O = Oil	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												B

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS



FILTER RACK SPECIFICATIONS



- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

BLOWER DATA:	OH8FA119D60	OH8FA119DV5
BLOWER MODEL¹	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:	#2		
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 (HARD CERAMIC)		

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:	#2		
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 (HARD CERAMIC)		

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"

¹ DD = DIRECT DRIVE

- SEE NEXT PAGE FOR MORE DATA -

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
Blower Motor Current Draw (Amps)/Watts vs. External Static pressure (in. WC.)							
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

- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

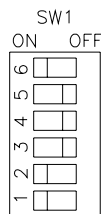
OH8FA119DV5

Heating Speed Set-ups

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

		Low Fire	Med Fire	High Fire								
		101,000	119,000	132,000								
		BTUH				.01	.02	.03	.04	.05	.06	.07
Fan Control SW 1 Switch Settings	Heating CFM	Aprox. Rise (F°)	Aprox. Rise (F°)	Aprox. Rise (F°)								
3-OFF 2-OFF 1-OFF	1202	78°			1.4/124	1.8/161	2.1/190	2.4/220	2.7/240	3.1/286	3.4/317	
3-OFF 2-OFF 1-ON	1315	71°	84°		1.8/158	2.1/190	2.3/209	2.7/250	3.1/285	3.4/311	3.8/356	
3-OFF 2-ON 1-OFF	1429	65°	77°		2.0/185	2.4/220	2.7/251	3.1/284	3.6/330	4.0/370	4.3/408	
3-OFF 2-ON 1-ON	1565	60°	70°	78°	2.4/216	2.8/254	3.2/295	3.8/349	4.0/379	4.6/432	4.9/463	
Factory SW1 Switch Settings 3-ON 2-OFF 1-OFF	1701	55°	65°	72°	3.0/271	3.5/322	3.8/357	4.4/416	4.9/456	5.1/494	5.5/532	
3-ON 2-OFF 1-ON	1860		59°	66°	3.9/363	4.3/410	4.9/464	5.2/494	5.5/524	6.0/573	6.3/606	
3-ON 2-ON 1-OFF	2041			60°	4.8/457	5.3/507	5.8/557	6.2/599	6.7/647	7.2/704	7.8/757	
3-ON 2-ON 1-ON	2223			55°	6.4/624	6.9/680	7.6/734	8.2/808	8.7/866	8.4/923	9.8/975	

= Recommended Heating Speed Setting



- SEE NEXT PAGE FOR MORE DATA -

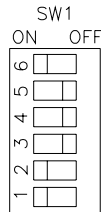
OIL FIRED UPFLOW FURNACE SPECIFICATIONS

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	.01	.02	.03	.04	.05	.06	.07	
6-OFF 5-OFF 4-OFF	2	800	500	557	.8/69	1.0/88	1.3/112	1.5/132	1.7/147	1.9/169	2.2/194	
6-OFF 5-OFF 4-ON	2.5	1018	509	703	1.1/92	1.4/123	1.7/148	1.9/170	2.3/207	2.6/235	2.8/253	
6-OFF 5-ON 4-OFF	3	1212	606	848	1.4/127	1.9/166	2.2/194	2.4/218	2.8/251	3.1/287	3.5/325	
6-OFF 5-ON 4-ON	3.5	1406	703	994	1.8/165	2.2/197	2.7/246	2.9/271	3.4/319	3.7/347	4.2/399	
Factory SW1 Switch Settings	6-ON 5-OFF 4-OFF	4	1624	800	1139	2.6/239	3.1/286	3.6/335	3.8/360	4.3/411	4.6/444	5.2/494
	6-ON 5-OFF 4-ON	4.5	1818	897	1285	3.4/317	4.0/373	4.5/423	5.0/476	5.4/521	5.6/544	6.0/588
	6-ON 5-ON 4-OFF	5	2012	994	1406	4.5/442	5.0/479	5.4/529	5.8/576	6.3/614	6.9/675	7.3/723
	6-ON 5-ON 4-ON	5.5	2230	1115	1551	6.1/597	6.5/635	7.1/715	7.7/767	8.2/819	8.7/877	9.1/918



- SEE NEXT PAGE FOR MORE DATA -

OIL FIRED UPFLOW FURNACE SPECIFICATIONS

A/C EVAPORATOR COIL APPLICATION

FURNACE MODEL	CONDENSER MODEL	LINE SET MODEL	EVAPORATOR COIL MODEL	SEER	EER	TOTAL (BTU/HR) HEAT REMOVAL	SENSIBLE HEAT REMOVAL	
	AC14361G2	LS03E-30 LS03E-50	13U2430AB15	13.40	11.95	33,800	0.739	
			CA243620	13.70	12.20	34,600	0.740	
			13U3030AB15	13.70	12.20	34,600	0.740	
			CA303620	14.00	12.50	35,600	0.750	
			13U3036AB17	14.00	12.50	35,600	0.750	
	AC14421G2	LS03E-30 LS03E-50	CA424220	13.40	12.00	41,000	0.748	
			13U3642AB17	13.40	12.00	41,000	0.748	
			CA424820	13.80	12.20	42,000	0.749	
			13U4248AB20	13.80	12.20	42,000	0.749	
	AC14481G2	LS03E-30 LS03E-50	13C4860HA26 ¹	14.10	12.50	43,000	0.758	
			CA424220	13.00	11.60	46,000	0.746	
			13U3642AB17	13.00	11.60	46,000	0.746	
			CA424820	13.35	12.00	47,500	0.748	
	AC14601G2	LS03E-30 LS03E-50	13U4248AB20	13.35	12.00	47,500	0.748	
			13C4860HA26 ¹	13.65	12.20	48,500	0.758	
			13C4860HA26 ¹	13.00	11.60	60,000	0.753	
OH8FA119DV5	AC14241G2	LS01E-30 LS01E-50	13U2430AB15	15.30	13.40	25,000	0.731	
			CA243620	15.40	13.60	25,400	0.734	
			13U3030AB15	15.40	13.60	25,400	0.734	
			CA303620	16.00	14.00	25,800	0.739	
			13U3036AB17	16.00	14.00	25,800	0.739	
	AC14301G2	LS01E-30 LS01E-50	13U2430AB15	15.20	13.50	29,600	0.736	
			CA243620	15.40	13.70	30,000	0.740	
			13U3030AB15	15.40	13.70	30,000	0.740	
			CA303620	16.00	14.20	31,000	0.750	
			13U3036AB17	16.00	14.20	31,000	0.750	
	AC14361G2	LS03E-30 LS03E-50	13U2430AB15	14.80	13.10	34,600	0.736	
			CA243620	15.00	13.30	35,200	0.740	
			13U3030AB15	15.00	13.30	35,200	0.740	
			CA303620	15.40	13.65	36,200	0.749	
	AC14421G2	LS03E-30 LS03E-50	13U3036AB17	15.40	13.65	36,200	0.749	
			CA424220	14.60	12.80	41,500	0.746	
			13U3642AB17	14.60	12.80	41,500	0.746	
			CA424820	14.95	13.10	42,500	0.748	
	AC14481G2	LS03E-30 LS03E-50	13U4248AB20	14.95	13.10	42,500	0.748	
			13C4860HA26 ¹	15.10	13.20	43,000	0.758	
			CA424220	13.80	12.30	47,000	0.745	
			13U3642AB17	13.80	12.30	47,000	0.745	
	AC14601G2	LS03E-30 LS03E-50	CA424820	14.10	12.60	48,000	0.748	
			13U4248AB20	14.10	12.60	48,000	0.748	
			13C4860HA26 ¹	14.50	12.80	49,000	0.758	
				13C4860HA26 ¹	13.00	11.60	60,000	0.753

¹Needs plenum adapter AOPS7693