

**58VLR
LOW-BOY OIL FURNACE
INPUT RATES: 70,000 thru 154,000 BTUH
SERIES 110**



Product Data



A06626

THE LATEST IN OIL FURNACE TECHNOLOGY

The model 58VLR combines variable-speed high efficiency and quiet operation with oil heating technology. The 58VLR is available in 2 sizes. Each size can be fired at 3 different rates by a simple nozzle and pump pressure change. Unit 58VLR105 covers input ranges from 70,000 to 105,000 Btuh. Unit 58VLR120 covers input ranges from 119,000 to 154,000 Btuh. The furnace design is a low-boy style for upflow applications, where overhead space is limited.

The components of the 58VLR are the finest in the industry. The unit uses a Riello oil burner with an electronic air damper.

The 58VLR is a standard part of a quality-built home. This high-efficiency furnace will provide years of quality service to home builders and homeowners alike.

As with other Carrier furnaces, this model is designed to work as part of a total home comfort system which includes elements for cooling, air cleaning, humidification, ventilation, and zoning.

This unit is not approved for use in mobile home installations.

58VLR FEATURES/BENEFITS

Riello Oil Burner

- High quality Riello oil burner allows safe and efficient combustion of oil.

Casing

- Made of 18 gauge painted steel for years of durability.
- Cabinet features an insulated enclosure for the burner and controls.

Insulation and Soundproofing

- Unique sound trap along with insulated walls efficiently captures most combustion noise and vibrations and makes this unit one of the quietest on the market.
- Flue silence baffle ensures quiet operation.

Combustion Products Venting

- Rear flue outlet.
- Unit may be vented using Type L vent material and a factory-built metal or masonry chimney.
- Unit may also be sidewall vented with an approved power venter.

Variable Speed Blower

- Variable speed blower for precise airflow selection of heating or cooling operation.

Ignition Control and Electronic Fan Control

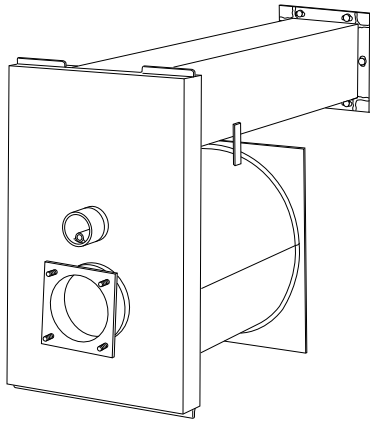
- Ignition control and fan control board provide reliable operation and easy connection of thermostat and accessory wiring.

Combustion Chamber/Heat Exchanger

- Composed mainly of stainless and aluminized steel, the unique combination combustion chamber/heat exchanger resists corrosion, overheating, and deterioration.
- Heat transfer properties make it highly efficient.
- All seams are tightly welded for leak-free operation.

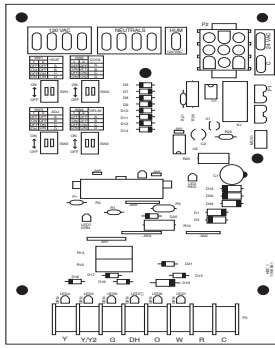
Certifications

- 58VLR unit is CSA certified.
- The efficiency is AHRI efficiency rating certified.



A96369

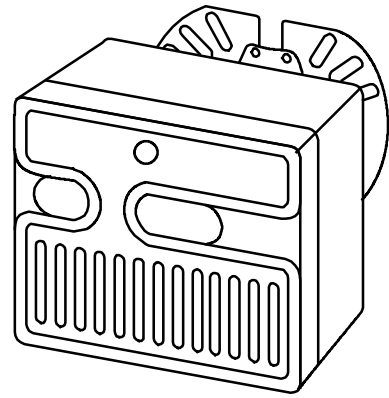
COMBUSTION CHAMBER/
HEAT EXCHANGER



NOTES:
1. The Blue LED to the right of #1 will illuminate whenever the test switch is open.
2. The Green LED above the test switch will only light when the burner is in operating mode.
3. The Green LED above #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100 will illuminate whenever there is a 24V signal from the burner.
4. The Green LED below #1 will illuminate whenever there is not a 24VAC input signal.

A96370

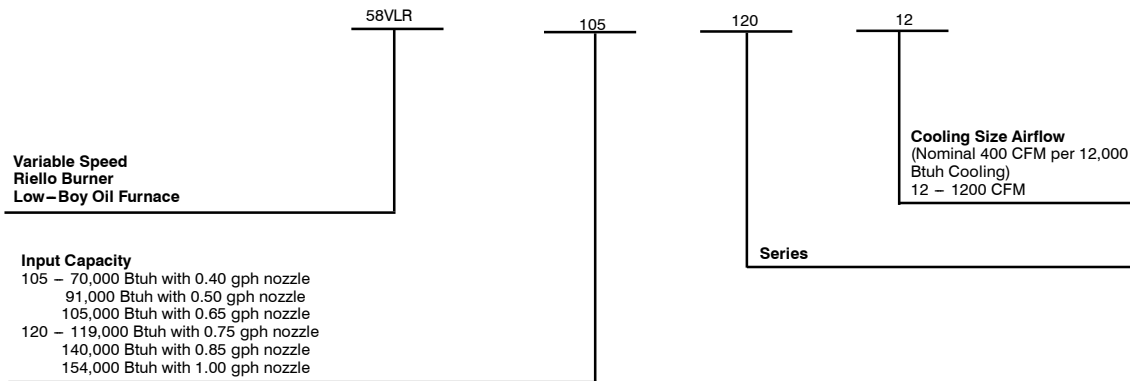
CONTROL CENTER



A06115

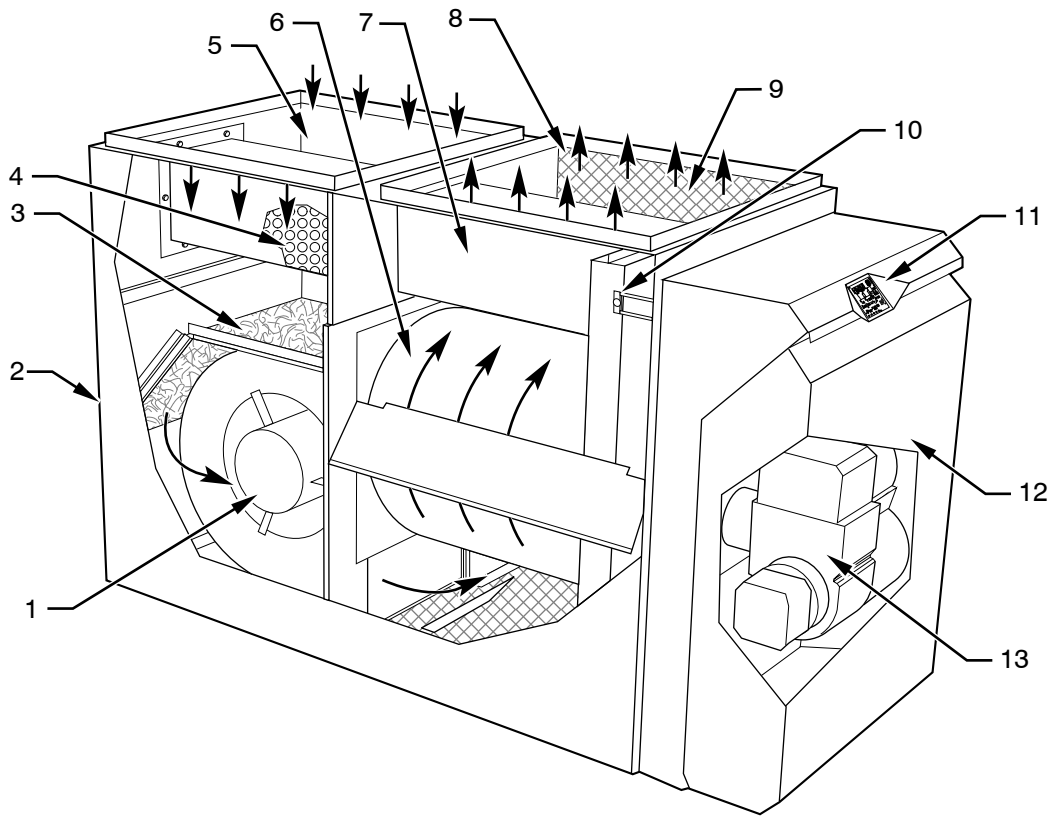
OIL BURNER

MODEL NUMBER NOMENCLATURE



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

**Always Ask For
FACTORY
AUTHORIZED
PARTS**



58VLR

A06109

1. Variable-speed blower circulates air across the heat exchanger to transfer heat into the home.
2. Access door to air filters and blower.
3. Air filters.
4. Unique silencer system controls combustion noise.
5. Return-air plenum.
6. Stainless steel combustion chamber.
7. Heat exchanger designed and shaped to efficiently transfer heat from furnace into the home.
8. Supply-air plenum.
9. Fully insulated internal walls to minimize heat loss.
10. High limit control to prevent overtemperature.
11. Adjustable electronic fan control (inside) has low voltage electrical terminal strip for easy connection of thermostat, cooling control, electronic air cleaner, and humidifier.
12. Aesthetic removable cover. Hides and protects burner and controls.
13. High-performance oil burner.

CLEARANCE TO COMBUSTIBLES

UNIT APPLICATION		LOW-BOY
SIDES	Furnace	1
	Supply Plenum and Warm – Air Duct Within 6 Ft of Furnace	1
BACK	Service Clearance	19
TOP	Furnace Casing or Plenum	2
	Horizontal Warm – Air Duct Within 6 Ft of Furnace	2
BOTTOM*		0
FLUE PIPE	Horizontally or Below Pipe	4
	Vertically Above Pipe	9
FRONT		8

*Floor may be combustible.

NOTE: Adequate service clearance should be provided over and above these dimensions as required.

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PHYSICAL DATA

UNIT SIZE	105 – 12			120 – 20		
INPUT (BTUH)	70,000	91,000	105,000	119,000	140,000	154,000
HEATING CAPACITY*	57,000	74,000	85,000	99,000	115,000	127,000
NOZZLE	0.40 – 70A	0.50 – 70W	0.65 – 70W	0.75 – 70B	0.85 – 70W	1.00 – 70W
FIRING RATE (GPH)†	0.50	0.65	0.75	0.85	1.00	1.10
AFUE%	83.5	83.5	83.5	83.5	83.5	83.0
OIL PUMP STAGES/PRESSURE (PSIG)	1/160	1/170	1/135	1/130	1/140	1/125
HEATING TEMP RISE °F	55 – 85	55 – 85	55 – 85	55 – 85	55 – 85	55 – 85
SHIPPING WEIGHT (LB)	235	235	235	260	260	260
BURNER MODEL (3450 RPM)	RIELLO 40-F3	RIELLO 40-F3	RIELLO 40-F3	RIELLO 40-F5	RIELLO 40-F5	RIELLO 40-F5

* Capacity and AFUE in accordance with U.S. Government DOE test procedures.

† For rating purposes only.

Shaded cells are as factory shipped.

PERFORMANCE DATA

UNIT SIZE	105-12	120-20
BLOWER WHEEL DIAMETER X WIDTH (In.)	10 x 8	12 x 10
FILTER SIZE (In.) – (Disposable)	(2) 12 x 20 x 1	(2) 16 x 20 x 1

ELECTRICAL DATA

UNIT SIZE	105-12	120-20
UNIT VOLTS-HERTZ – PHASE	115 – 60 – 1	115 – 60 – 1
OPERATING VOLTAGE RANGE (Min-Max)*	104 – 132	104 – 132
MAXIMUM UNIT AMPS	12.2	15.7
MINIMUM WIRE SIZE (AWG)	14	12
MAXIMUM WIRE LENGTH (Ft)†	26	26
MAXIMUM FUSE SIZE OR CKT BKR (Amps)‡	15	20
TRANSFORMER (24v)	40va	40va
EXTERNAL CONTROL POWER AVAILABLE		
	Heating	40va
	Cooling	30va
AIR CONDITIONING RELAY	Standard	Standard

* Permissible limits of the voltage range at which the unit will operate satisfactorily.

† Length is as measured one way along wire path between unit and service panel for maximum 2% voltage drop.

‡ Time-delay fuse type is recommended.

SIZE 105 AIRFLOW DATA (CFM)

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OIL HEATING MODE 24 VAC INPUT (R) ON W ONLY					
SW1 – HEAT Dip switch position	HEAT INPUT (USGPH)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	0.75	1252	1268	1260	1013
		1415	1433	1424	1145
		1064	1078	1071	861
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	0.65	1019	1047	1064	1019
		1151	1183	1202	1151
		866	890	904	866
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	0.50	826	854	854	854
		933	965	965	965
		702	726	726	726
D (1 = ON, 2 = ON)	SAME VALUE AS A DIP SWITCH POSITION				

CONTINUOUS FAN 24 VAC INPUT (R) ON G ONLY					
SW2 – COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	3.0	778	813	808	795
		856	894	889	875
		700	732	727	716
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	2.5	658	678	674	674
		724	746	741	741
		592	610	607	607
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	2.0	559	577	567	543
		615	635	567	543
		503	519	624	597
D (1 = ON, 2 = ON)*	1.5	483	477	450	413
D (1 = ON, 2 = ON)**		531	525	495	454
D (1 = ON, 2 = ON)***		435	429	405	372

COOLING OR HEAT PUMP HEATING MODE – SINGLE SPEED OR 2 – SPEED HIGH 24 VAC INPUT (R) ON Y/Y2 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	3.0	1030	1070	1075	1019
		1133	1177	1183	1121
		927	963	968	917
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	2.5	868	886	890	894
		955	975	979	983
		781	797	801	805
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	2.0	696	719	729	720
		766	791	802	792
		626	647	656	648
D (1 = ON, 2 = ON)* D (1 = ON, 2 = ON)** D (1 = ON, 2 = ON)***	1.5	567	587	572	551
		624	646	629	606
		510	528	515	496

NOTE: In cooling–dehumidification mode, with no 24VAC input to DH, the CFM is reduced 15%

SIZE 105 AIRFLOW DATA (CFM) (CONTINUED)

COOLING OR HEAT PUMP HEATING MODE – 2 – SPEED LOW 24 VAC INPUT (R) ON Y1 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)*	3.0	598	613	608	596
A (1 = OFF, 2 = OFF)**		658	674	669	656
A (1 = OFF, 2 = OFF)***		538	552	547	536
B (1 = ON, 2 = OFF)*	2.5	536	550	531	511
B (1 = ON, 2 = OFF)**		590	605	584	562
B (1 = ON, 2 = OFF)***		482	475	478	460
C (1 = OFF, 2 = ON)*	2.0	485	473	450	398
C (1 = OFF, 2 = ON)**		534	520	495	438
C (1 = OFF, 2 = ON)**		437	426	405	358
D (1 = ON, 2 = ON)*	1.5	420	420	364	337
D (1 = ON, 2 = ON)**		462	462	400	371
D (1 = ON, 2 = ON)***		378	378	328	303

NOTE: In cooling–dehumidification mode, with no 24VAC input to DH, the CFM is reduced 15%.

DELAY PROFILE FOR OIL HEATING MODE				
SW4 – DELAY Dip switch position	HEAT INPUT (US GPH)	PreRun On – Delay CFM Level – Time†	ShortRun On – Delay CFM Level – Time‡	Off – Delay CFM Level – Time**
A (1 = OFF, 2 = OFF)	0.75	13% – 45 sec.	19% – 30 sec	38% – 3 min.
B (1 = ON, 2 = OFF)	0.65	13% – 45 sec.	19% – 60 sec	38% – 3 min.
C (1 = OFF, 2 = ON)	0.5	13% – 60 sec.	13% – 60 sec	38% – 3 min.
D (1 = ON, 2 = ON)	All	13% – 30 sec.	100% – 0 sec	100% – 2 min.

DELAY PROFILE FOR COOLING OR HEAT PUMP HEATING MODE				
No adjustment required	A/C size	PreRun On – Delay CFM – Level – Time†	ShortRun On – Delay CFM Level – Time‡	Off – Delay CFM Level – Time††
–	All	13% – 30 sec.	75% – 2.5 min.	50% – 3 min.

* CFM with SW3 – ADJ Dip Switch A Position

** CFM with SW3 – ADJ Dip Switch B Position.

*** CFM with SW3 – ADJ Dip Switch C Position.

† PreRun is the time with 0 CFM after the call for cooling or heating. The ShortRun come after the PreRun.

‡ ShortRun is the time before the blower starts at normal speed, with very low CFM to minimize cool draft in the air distribution system.

†† Off – delay is the time required to cool down the coil (heating mode) with low CFM to minimize cool draft in the air distribution system.

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SIZE 105 POWER DRAW (WATTS)

OIL HEATING MODE 24 VAC INPUT (R) ON W ONLY					
SW1 – HEAT Dip switch position	HEAT INPUT (USGPH)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	0.75	341	448	516	394
B (1 = ON, 2 = OFF)	0.65	207	302	368	394
C (1 = OFF, 2 = ON)	0.50	132	204	246	297
D (1 = ON, 2 = ON)	SAME VALUE AS A DIP SWITCH POSITION				

NOTE: SW3 – ADJ set in Switch position A.

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CONTINUOUS FAN 24 VAC INPUT (R) ON G ONLY					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	3.0	113	186	225	270
B (1 = ON, 2 = OFF)	2.5	84	140	179	219
C (1 = OFF, 2 = ON)	2.0	64	117	151	182
D (1 = ON, 2 = ON)	1.5	53	96	128	169

NOTE: SW3 – ADJ set in Switch position A.

COOLING OR HEAT PUMP HEATING MODE – SINGLE SPEED OR 2 – SPEED HIGH 24 VAC INPUT (R) ON Y/Y2 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	3.0	211	309	371	400
B (1 = ON, 2 = OFF)	2.5	144	216	264	317
C (1 = OFF, 2 = ON)	2.0	92	154	201	241
D (1 = ON, 2 = ON)	1.5	65	116	153	187

NOTE: SW3 – ADJ set in Switch position A.

COOLING OR HEAT PUMP HEATING MODE – 2 – SPEED LOW 24 VAC INPUT (R) ON Y1 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	3.0	72	125	161	197
B (1 = ON, 2 = OFF)	2.5	62	111	143	178
C (1 = OFF, 2 = ON)	2.0	53	98	126	168
D (1 = ON, 2 = ON)	1.5	45	89	124	150

NOTE: SW3 – ADJ set in Switch position A.

SIZE 120 AIRFLOW DATA (CFM)

OIL HEATING MODE 24 VAC INPUT (R) ON W ONLY					
SW1 – HEAT Dip switch position	HEAT INPUT (USGPH)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	0.85	1388	1426	1426	1426
		1568	1611	1611	1611
		1180	1212	1212	1212
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	1.00	1682	1697	1674	1666
		1901	1918	1892	1883
		1430	1442	1423	1416
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	1.10	1839	1839	1839	1852
		2078	2078	2078	2093
		1563	1563	1563	1574
D (1 = ON, 2 = ON)		SAME VALUE AS A DIP SWITCH POSITION			

CONTINUOUS FAN 24 VAC INPUT (R) ON G ONLY					
SW2 – COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	5.0	1229	1278	1262	1246
		1352	1406	1388	1371
		1106	1150	1136	1121
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	4.0	979	985	973	949
		1077	1113	1099	1072
		881	887	876	854
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	3.5	866	845	826	787
		953	930	909	866
		779	761	743	708
D (1 = ON, 2 = ON)* D (1 = ON, 2 = ON)** D (1 = ON, 2 = ON)***	3.0	780	734	711	519
		858	807	782	571
		702	661	640	467

COOLING OR HEAT PUMP HEATING MODE – SINGLE SPEED OR 2 – SPEED HIGH 24 VAC INPUT (R) ON Y/Y2 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)* A (1 = OFF, 2 = OFF)** A (1 = OFF, 2 = OFF)***	5.0	1747	1747	1733	1733
		1922	1922	1906	1906
		1572	1572	1560	1560
B (1 = ON, 2 = OFF)* B (1 = ON, 2 = OFF)** B (1 = ON, 2 = OFF)***	4.0	1339	1378	1378	1359
		1473	1516	1516	1495
		1205	1240	1240	1223
C (1 = OFF, 2 = ON)* C (1 = OFF, 2 = ON)** C (1 = OFF, 2 = ON)**	3.5	1151	1186	1151	1142
		1266	1305	1266	1256
		1036	1067	1036	1028
D (1 = ON, 2 = ON)* D (1 = ON, 2 = ON)** D (1 = ON, 2 = ON)***	3.0	1014	997	985	954
		1195	1097	1084	1049
		913	897	887	859

NOTE: In cooling–dehumidification mode, with no 24VAC input to DH, the CFM is reduced 15%.

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SIZE 120 AIRFLOW DATA (CFM) (CONTINUED)

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COOLING OR HEAT PUMP HEATING MODE-2-SPEED LOW 24 VAC INPUT (R) ON Y1 AND O (FOR COOLING)					
SW2-COOL Dip switch position	A/C SIZE (TON)	AIRFLOW (CFM)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)*	5.0	911	898	878	853
A (1 = OFF, 2 = OFF)**		1002	988	966	938
A (1 = OFF, 2 = OFF)***		820	808	790	768
B (1 = ON, 2 = OFF)*	4.0	767	720	685	645
B (1 = ON, 2 = OFF)**		844	792	754	710
B (1 = ON, 2 = OFF)***		690	648	617	581
C (1 = OFF, 2 = ON)*	3.5	677	636	592	549
C (1 = OFF, 2 = ON)**		745	700	651	604
C (1 = OFF, 2 = ON)**		609	572	533	494
D (1 = ON, 2 = ON)*	3.0	596	560	515	474
D (1 = ON, 2 = ON)**		656	616	567	521
D (1 = ON, 2 = ON)***		536	504	464	427

NOTE: In cooling-dehumidification mode, with no 24VAC input to DH, the CFM is reduced 15%.

DELAY PROFILE FOR OIL HEATING MODE				
SW4-DELAY Dip switch position	HEAT INPUT (USGPH)	PreRun On-Delay CFM Level - Time†	ShortRun On-Delay CFM Level - Time‡	Off-Delay CFM Level - Time**
A (1 = OFF, 2 = OFF)	0.85	13% - 45 sec.	44% - 30 sec.	38% - 3 min.
B (1 = ON, 2 = OFF)	1.00	13% - 30 sec.	44% - 30 sec.	38% - 3 min.
C (1 = OFF, 2 = ON)	1.10	13% - 30 sec.	50% - 30 sec.	38% - 3 min.
D (1 = ON, 2 = ON)	All	13% - 30 sec.	100% - 0 sec.	100% - 2 min.

DELAY PROFILE FOR COOLING OR HEAT PUMP HEATING MODE				
No adjustment required	A/C size	PreRun On-Delay CFM-Level - Time†	ShortRun On-Delay CFM Level - Time‡	Off-Delay CFM Level - Time††
-	All	13% - 30 sec.	75% - 2.5 min.	50% - 3 min.

* CFM with SW3-ADJ Dip Switch A Position.

**CFM with SW3-ADJ Dip Switch B Position.

***CFM with SW3-ADJ Dip Switch C Position.

† PreRun is the time with 0 CFM after the call for cooling or heating. The ShortRun come after the PreRun.

‡ ShortRun is the time before the blower starts at normal speed, with very low CFM to minimize cool draft in the air distribution system.

†† Off-Delay is the time required to cool down the coil (heating mode), with low CFM to minimize cool draft in the air distribution system.

SIZE 120 POWER DRAW (WATTS)

OIL HEATING MODE 24 VAC INPUT (R) ON W ONLY					
SW1 – HEAT Dip switch position	HEAT INPUT (USGPH)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	0.85	278	406	485	562
B (1 = ON, 2 = OFF)	1.00	472	594	668	752
C (1 = OFF, 2 = ON)	1.10	605	731	823	933
D (1 = ON, 2 = ON)	SAME VALUE AS A DIP SWITCH POSITION				

NOTE: SW3 – ADJ set in Switch position A.

CONTINUOUS FAN 24 VAC INPUT (R) ON G ONLY					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	5.0	222	341	400	464
B (1 = ON, 2 = OFF)	4.0	131	218	287	335
C (1 = OFF, 2 = ON)	3.5	107	188	242	278
D (1 = ON, 2 = ON)	3.0	90	159	202	242

NOTE: SW3 – ADJ set in Switch position A.

COOLING OR HEAT PUMP HEATING MODE – SINGLE SPEED OR 2 – SPEED HIGH 24 VAC INPUT (R) ON Y/Y2 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	5.0	525	641	743	832
B (1 = ON, 2 = OFF)	4.0	269	394	469	529
C (1 = OFF, 2 = ON)	3.5	193	298	348	406
D (1 = ON, 2 = ON)	3.0	149	226	291	347

NOTE: SW3 – ADJ set in Switch position A.

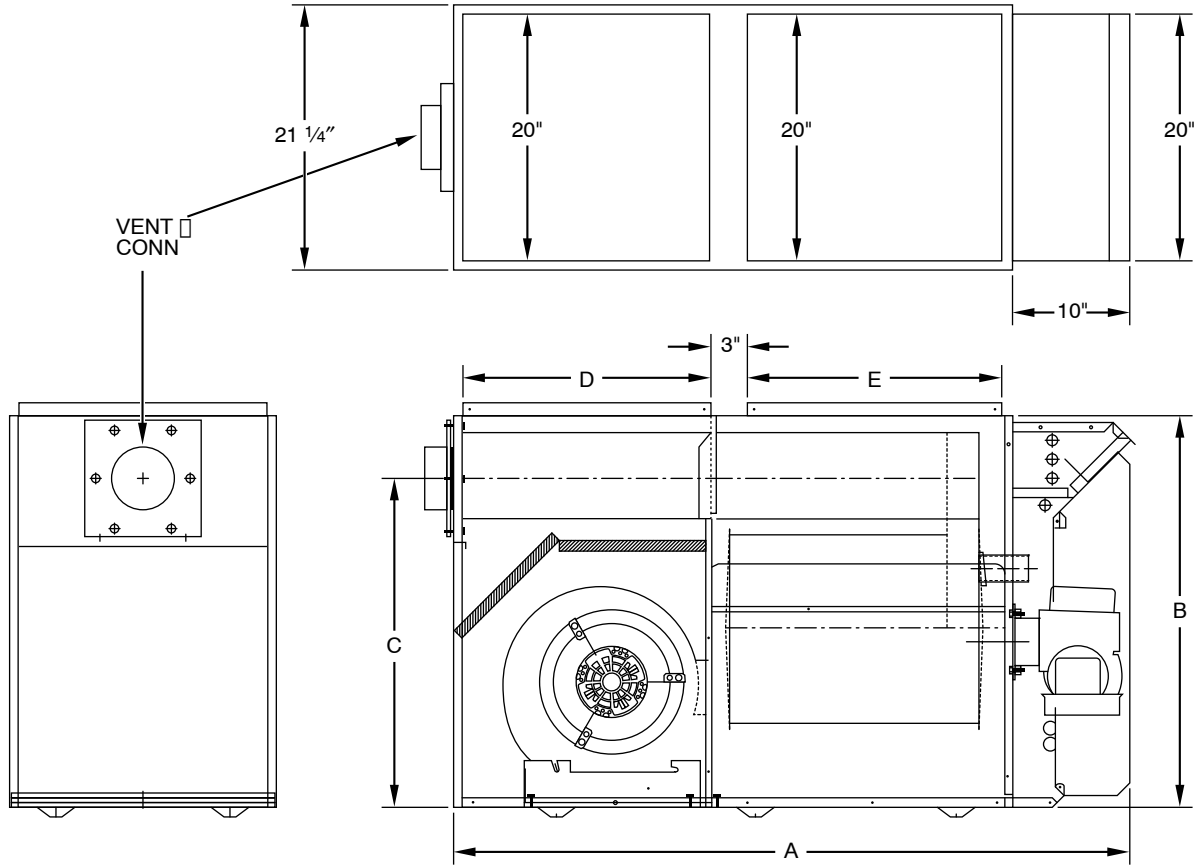
COOLING OR HEAT PUMP HEATING MODE – 2 – SPEED LOW 24 VAC INPUT (R) ON Y1 AND O (FOR COOLING)					
SW2 – COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS)			
		EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	5.0	120	197	252	300
B (1 = ON, 2 = OFF)	4.0	92	155	197	244
C (1 = OFF, 2 = ON)	3.5	71	135	173	210
D (1 = ON, 2 = ON)	3.0	67	121	152	192

NOTE: SW3 – ADJ set in Switch position A.

58VLR

DIMENSIONS

58VLR

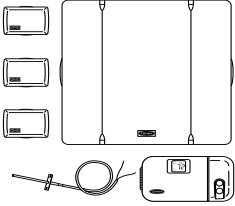


A98009

DIMENSIONS (IN.)

UNIT SIZE	UNIT DIMENSIONS			FLUE HEIGHT	RETURN OPENING	SUPPLY OPENING	VENT CONN
	WIDTH	DEPTH	HEIGHT				
		A	B	C	D	E	
105-12	21-1/4	53-3/4	31-1/2	26-1/2	20	20	5
120-20	21-1/4	60-5/32	34-3/4	28-11/32	22	24	6

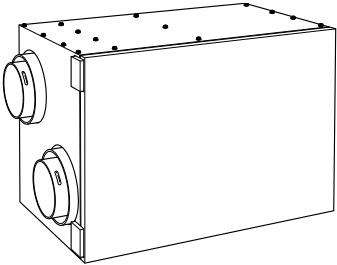
ACCESSORIES



**CONTROLS:
THERMOSTATS
AND ZONING**

A97432

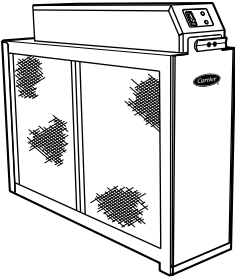
Available in programmable and non-programmable models, Carrier thermostats maintain a constant, comfortable temperature level in the home. For the ultimate in home comfort, Carrier's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.



**ENERGY/HEAT
RECOVERY
VENTILATOR**

A94336

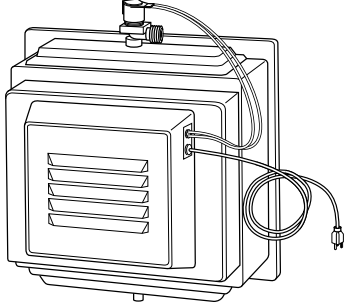
Carrier's energy or heat recovery ventilators exhaust stale indoor air and provide fresh outdoor air to the home while minimizing heat loss and humidity level. Especially useful for today's tighter constructed houses. Energy recovery ventilator is shown.



**ELECTRONIC OR
MECHANICAL AIR
CLEANER**

A97380

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner. Electronic air cleaner is shown.



HUMIDIFIER

A91365

By adding moisture to winter-dry air, Carrier humidifier can often improve comfort and keeps woodwork, wallpaper, and paint in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

58VLR

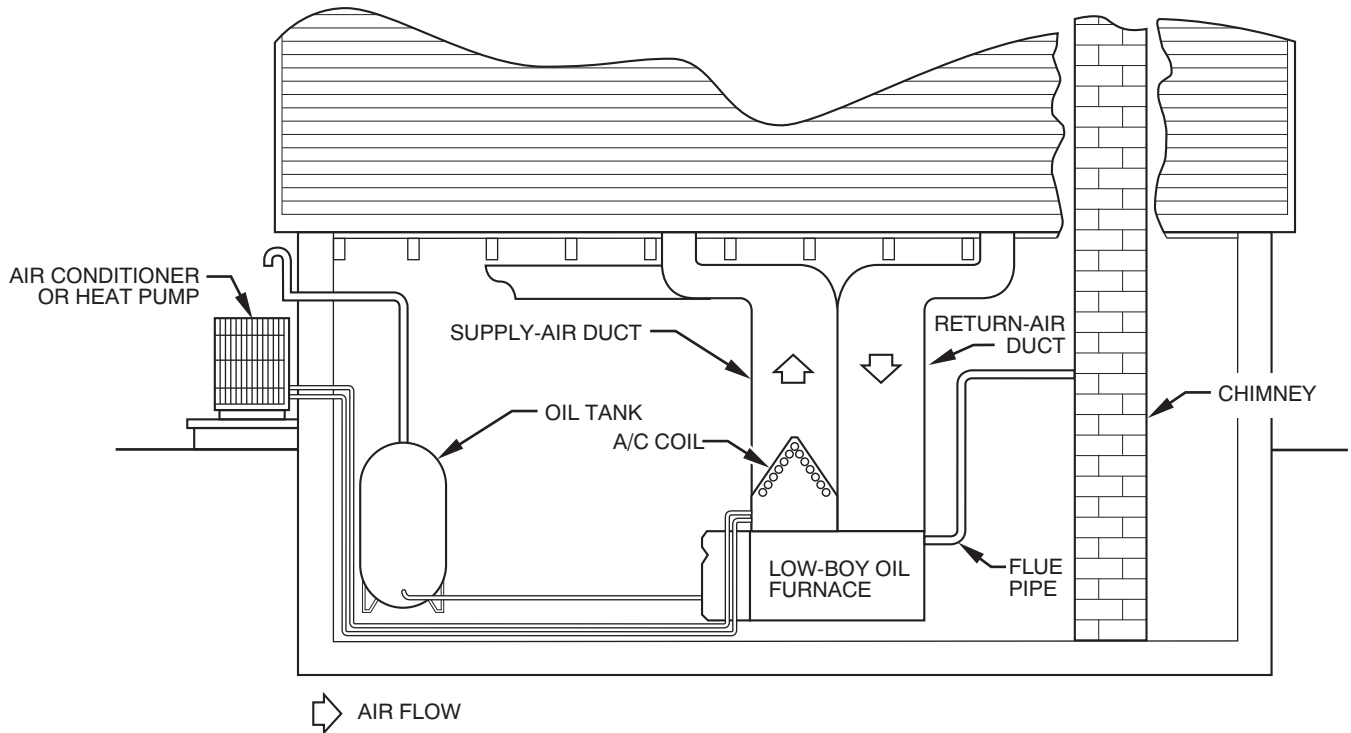
FURNACE ACCESSORIES	
KLABV0201DET	Blocked Vent Shutoff Kit
PROGRAMMABLE THERMOSTAT SELECTION	
TP-PRH01-A	Thermostat, Auto changeover 7-Day Programmable, °F/°C, 3-Stage Heat/2-Stage Cool, Relative Humidity
TC-PAC01	Thermostat, Auto Changeover, 5-2-Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TC-PHP01	Thermostat, Auto Changeover, 5-2-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
NON-PROGRAMMABLE THERMOSTAT SELECTION	
TP-NRH01-A	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 3-Stage Heat/2-Stage Cool, Relative Humidity
TC-NAC01	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat/1-Stage Cool
TC-NHP01	Thermostat, Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat/1-Stage Cool
ZONING CONTROL SELECTION	
ZONECC2KIT01-B	Comfort Zone II-B - 2 Zone Kit/Temperature and Humidity Control
ZONECC4KIT01-B	Comfort Zone II-B - 4 Zone Kit/Temperature and Humidity Control
ZONECC8KIT01-B	Comfort Zone II-B - 8 Zone Kit/Temperature and Humidity Control
HEALTHY HOME SOLUTIONS	
HUMCCSBP2312	Humidifier - 12 g./day, 24V Standard, Small Bypass
HUMCASBP2312	Humidifier - 12 g./day, 24V Automatic, Small Bypass
HUMCCLBP2317	Humidifier - 17 g./day, 24V Standard, Large Bypass
HUMCALBP2317	Humidifier - 17 g./day, 24V Automatic, Large Bypass
HUMCCLFP1318	Humidifier - 18 g./day, 24V Standard, Fan Powered
HUMCALFP1318	Humidifier - 18 g./day, 24V Automatic, Fan Powered
HRVCCSHA1100	Heat Recovery Ventilator - Small Horizontal Unit, 100 CFM

ACCESSORIES (CONTINUED)

HRVCCSVA1100	Heat Recovery Ventilator – Small Vertical Unit, 100 CFM
HRVCCLHA1150	Heat Recovery Ventilator – Large Horizontal Unit, 150 CFM
HRVCCLHA1250	Heat Recovery Ventilator – Large Horizontal Unit, 250 CFM
HRVCCSVU1150	Heat Recovery Ventilator – Small Vertical Unit, 150 CFM
HRVCCSVU1200	Heat Recovery Ventilator – Small Vertical Unit, 200 CFM
HRVCCLVU1150	Heat Recovery Ventilator – Large Vertical Unit, 150 CFM
HRVCCLVU1200	Heat Recovery Ventilator – Large Vertical Unit, 200 CFM
HRVCCLVU1330	Heat Recovery Ventilator – Large Vertical Unit, 330 CFM
ERVCCSHA1100	Energy Recovery Ventilator – Small Horizontal Unit, 100 CFM
ERVCCSVA1100	Energy Recovery Ventilator – Small Vertical Unit, 100 CFM
ERVCCLHU1150	Energy Recovery Ventilator – Large Horizontal Unit, 150 CFM
ERVCCLHU1200	Energy Recovery Ventilator – Large Horizontal Unit, 200 CFM
EZXCABCC1016	Media Filter Cabinet – 1600 CFM (Replacement Filter: EXPXXFIL0016)
EZXCABCC1020	Media Filter Cabinet – 2000 CFM (Replacement Filter: EXPXXFIL0020)

58VLR

TYPICAL INSTALLATION



A98010