58VMR
Multipoise Oil Furnace
Input Capacities: 70,000 thru 154,000 Btuh
Series 110

Carrier®
Turn to the Experts℠

Product Data

A06625

THE LATEST IN OIL FURNACE TECHNOLOGY

The model 58VMR combines variable-speed high efficiency and quiet operation with the latest oil heating technology. The 58VMR is available in 2 sizes. Each size can be fired at 3 different rates by a simple nozzle change. Unit 58VMR105 covers input ranges from 70,000 to 105,000 Btuh. Unit 58VMR120 covers input ranges from 119,000 to 154,000 Btuh. The furnace design is a multipoise style for upflow, donwflow, and horizontal applications.

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

The 58VMR is a standard part of a quality-built home. This energy efficient 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.

58VMR FEATURES/BENEFITS

Riello Oil Burner

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

Casing

- Made of 20 gauge powder painted steel for years of durability and attractiveness.
- Cabinet features a reversible door, ensuring ease of service access even in downflow applications.

Insulation and Soundproofing

- Unique silencer baffle along with insulated walls and rubber blower mounts efficiently captures most combustion noise and vibrations and makes this unit one of the quietest on the market.

Combustion Products Venting

- Top or side flue outlets.
- 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.

Electronic Fan Control

- Electronic fan control board provides reliable operation and easy connection of thermostat and accessory wiring.

Combustion Chamber/Heat Exchanger

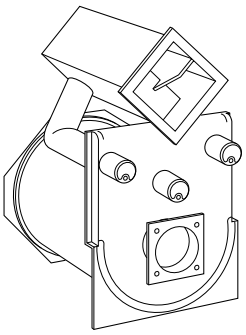
- Composed mainly of stainless and aluminized steel, the unique combination combustion chamber/heat exchanger resists corrosion, overheating, and deterioration.
- Heat transfer properties make it energy efficient.
- All seams are tightly welded for leak-free operation.

Certifications

- 58VMR unit is CSA certified.
- The efficiency is GAMA efficiency rating certified.

Warranties

- Limited Lifetime Warranty on combustion chamber/ heat exchanger.
- Five-year Warranty on Riello burner and remaining components.
  Contact your dealer for details.



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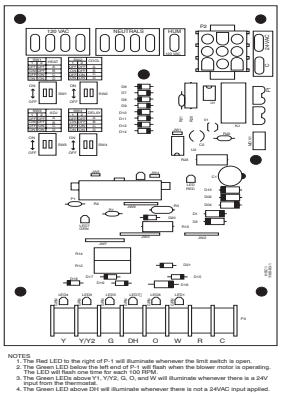
COMBUSTION CHAMBER/
HEAT EXCHANGER



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CONTROL CENTER

MODEL NUMBER NOMENCLATURE

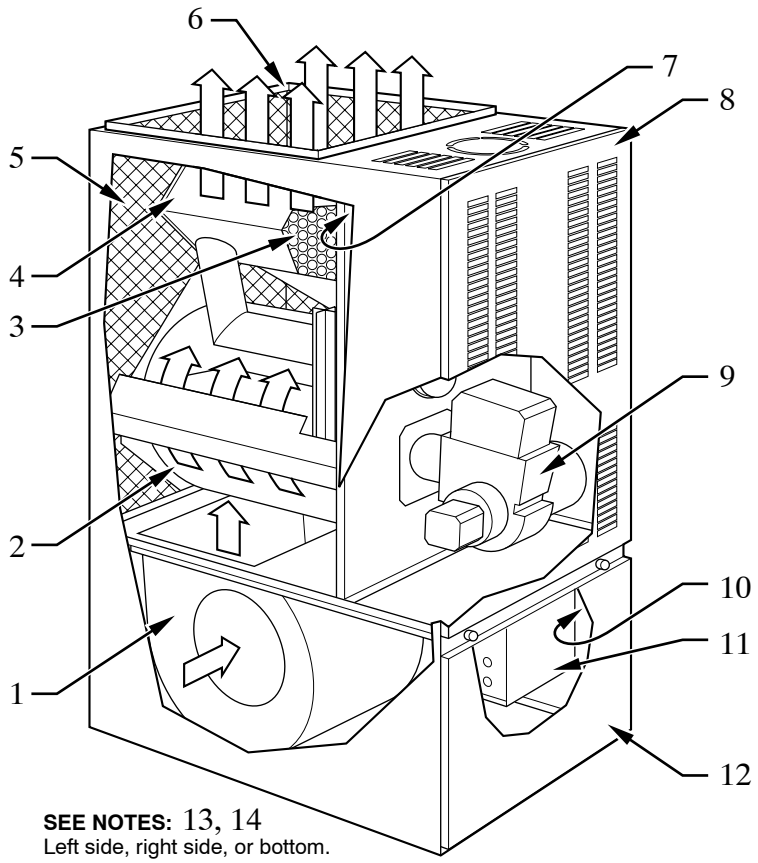
58VMR — 105 — 110 — 12

Variable Speed
Riello Burner
Multipoise Oil Furnace

Input Capacity
105 – 70,000 Btuh with 0.40 gph nozzle
91,000 Btuh with 0.50 gph nozzle
105,000 Btuh with 0.65 gph nozzle
120 – 119,000 Btuh with 0.75 gph nozzle
140,000 Btuh with 0.85 gph nozzle
154,000 Btuh with 1.00 gph nozzle

Series

Cooling Size Airflow
(Nominal 400 CFM per 12,000 Btuh Cooling)
12 – 1200 CFM



SEE NOTES: 13, 14
Left side, right side, or bottom.

A97244

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

CLEARANCE TO COMBUSTIBLES

UNIT APPLICATION		UPFLOW (IN.)	DOWNFLOW (IN.)	HORIZONTAL (IN.)
SIDES	Furnace	0	2	2
	Supply Plenum and Warm–Air Duct Within 6 Ft of Furnace	1	2	1
BACK	Furnace	0	1	0
TOP	Furnace Casing or Plenum	2	2	2
	Horizontal Warm–Air Duct Within 6 Ft of Furnace	2	2	3
BOTTOM	Furnace	0	0*	0*
FLUE PIPE	Horizontally or Below Pipe	4	4	4
	Vertically Above Pipe	9	9	9
FRONT		8	8	24

*For combustible floor, use approved accessory subbase

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

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%	UPFLOW	82	82	81.5	83	83	82.5
	DOWNFLOW	82	82	81.5	83	82.5	82.5
	HORIZONTAL	82	82	82	83	82.5	82
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)		230	230	230	275	275	275
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
VARIABLE SPEED ECM MOTOR	1/2	1
BLOWER WHEEL DIAMETER X WIDTH (In.)	10 x 10	12 x 10
FILTER SIZE (In.) – (Disposable, Field Supplied)	16 x 24 or 25 x 1	18 x 30 or 20 x 30 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	40va
	Cooling	30va	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)

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)*	0.75	1128	1146	1146	842
A (1 = OFF, 2 = OFF)** A		1275	1295	1295	951
(1 = OFF, 2 = OFF)***		959	974	974	716
B (1 = ON, 2 = OFF)*	0.65	894	951	969	823
B (1 = ON, 2 = OFF)** B		1010	1075	1095	930
(1 = ON, 2 = OFF)***		760	808	824	700
C (1 = OFF, 2 = ON)*	0.50	733	779	769	757
C (1 = OFF, 2 = ON)** C		858	880	869	855
(1 = OFF, 2 = ON)**		623	662	654	643
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)*	3.0	690	739	729	711
A (1 = OFF, 2 = OFF)** A		759	813	802	782
(1 = OFF, 2 = OFF)***		621	665	656	640
B (1 = ON, 2 = OFF)*	2.5	600	613	609	592
B (1 = ON, 2 = OFF)** B		660	674	670	651
(1 = ON, 2 = OFF)***		540	552	548	533
C (1 = OFF, 2 = ON)*	2.0	505	513	505	483
C (1 = OFF, 2 = ON)** C		556	564	556	531
(1 = OFF, 2 = ON)**		455	462	455	435
D (1 = ON, 2 = ON)*	1.5	441	434	417	410
D (1 = ON, 2 = ON)**		485	477	459	451
D (1 = ON, 2 = ON)***		397	391	375	369

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)*	3.0	918	973	973	827
A (1 = OFF, 2 = OFF)**		1010	1070	1070	910
A (1 = OFF, 2 = OFF)***		826	876	876	744
B (1 = ON, 2 = OFF)*	2.5	752	798	798	795
B (1 = ON, 2 = OFF)**		827	878	878	875
B (1 = ON, 2 = OFF)***		677	718	718	716
C (1 = OFF, 2 = ON)*	2.0	620	658	650	631
C (1 = OFF, 2 = ON)**		682	724	715	694
C (1 = OFF, 2 = ON)**		558	592	585	568
D (1 = ON, 2 = ON)*	1.5	509	520	506	497
D (1 = ON, 2 = ON)**		560	572	557	547
D (1 = ON, 2 = ON)***		458	468	455	447

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

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	546	552	544	530
A (1 = OFF, 2 = OFF)**		601	607	598	583
A (1 = OFF, 2 =OFF)***		491	497	490	477
B (1 = ON, 2 = OFF)*	2.5	485	488	482	463
B (1 = ON, 2 = OFF)**		534	537	530	509
B (1 = ON, 2 = OFF)***		437	439	434	417
C (1 = OFF, 2 = ON)*	2.0	434	421	413	404
C (1 = OFF, 2 = ON)**		477	463	454	444
C (1 = OFF, 2 = ON)**		391	379	372	364
D (1 = ON, 2 = ON)*	1.5	372	370	364	339
D (1 = ON, 2 = ON)**		409	407	400	373
D (1 = ON, 2 = ON)***		335	333	328	305

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)	0.75	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.

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	285	395	467	371
B (1 = ON, 2 = OFF)	0.65	160	275	343	363
C (1 = OFF, 2 = ON)	0.50	109	203	258	307
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)	3.0	100	189	244	291
B (1 = ON, 2 = OFF)	2.5	81	155	196	235
C (1 = OFF, 2 = ON)	2.0	63	122	159	193
D (1 = ON, 2 = ON)	1.5	55	104	130	172

* 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	178	290	350	373
B (1 = ON, 2 = OFF)	2.5	115	210	270	333
C (1 = OFF, 2 = ON)	2.0	86	166	208	251
D (1 = ON, 2 = ON)	1.5	64	121	160	193

* 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	69	135	171	212
B (1 = ON, 2 = OFF)	2.5	57	116	153	189
C (1 = OFF, 2 = ON)	2.0	54	98	134	170
D (1 = ON, 2 = ON)	1.5	47	88	124	151

* 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)*	0.85	1417	1417	1417	1407
A (1 = OFF, 2 = OFF)**		1601	1601	1601	1590
A (1 = OFF, 2 =OFF)***		1204	1204	1204	1196
B (1 = ON, 2 = OFF)*	1.00	1674	1666	1658	1658
B (1 = ON, 2 = OFF)** B		1892	1883	1874	1874
(1 = ON, 2 = OFF)***		1423	1416	1409	1409
C (1 = OFF, 2 = ON)*	1.10	1826	1826	1826	1813
C (1 = OFF, 2 = ON)** C		2063	2063	2063	2049
(1 = OFF, 2 = ON)**		1552	1552	1552	1541
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)*	5.0	1243	1259	1259	1251
A (1 = OFF, 2 = OFF)**		1367	1385	1385	1376
A (1 = OFF, 2 = OFF)***		1119	1133	1133	1126
B (1 = ON, 2 = OFF)*	4.0	989	995	977	959
B (1 = ON, 2 = OFF)**		1088	1095	1075	1055
B (1 = ON, 2 = OFF)***		890	896	879	863
C (1 = OFF, 2 = ON)*	3.5	871	871	843	831
C (1 = OFF, 2 = ON)**		958	958	927	914
C (1 = OFF, 2 = ON)**		784	784	759	748
D (1 = ON, 2 = ON)*	3.0	773	741	741	705
D (1 = ON, 2 = ON)**		850	815	815	776
D (1 = ON, 2 = ON)***		696	667	667	635

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)*	5.0	1738	1738	1733	1725
A (1 = OFF, 2 = OFF)**		1912	1912	1912	1898
A (1 = OFF, 2 = OFF)***		1564	1564	1564	1553
B (1 = ON, 2 = OFF)*	4.0	1333	1352	1352	1342
B (1 = ON, 2 = OFF)**		1466	1487	1487	1476
B (1 = ON, 2 = OFF)***		1200	1217	1217	1208
C (1 = OFF, 2 = ON)*	3.5	1154	1154	1145	1118
C (1 = OFF, 2 = ON)**		1269	1269	1260	1230
C (1 = OFF, 2 = ON)**		1037	1039	1031	1006
D (1 = ON, 2 = ON)*	3.0	992	997	974	974
D (1 = ON, 2 = ON)**		1091	1097	1071	1071
D (1 = ON, 2 = ON)***		893	897	877	877

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

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	900	900	881	860
A (1 = OFF, 2 = OFF)**		990	990	969	946
A (1 = OFF, 2 = OFF)***		810	810	793	774
B (1 = ON, 2 = OFF)*	4.0	749	723	717	695
B (1 = ON, 2 = OFF)**		824	795	789	765
B (1 = ON, 2 = OFF)***		674	651	645	626
C (1 = OFF, 2 = ON)*	3.5	680	643	617	599
C (1 = OFF, 2 = ON)**		748	707	679	659
C (1 = OFF, 2 = ON)**		612	579	555	539
D (1 = ON, 2 = ON)*	3.0	595	576	539	511
D (1 = ON, 2 = ON)**		655	634	593	562
D (1 = ON, 2 = ON)***		536	518	485	460

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

58VMR

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	356	474	565	636
B (1 = ON, 2 = OFF)	1.00	557	683	786	883
C (1 = OFF, 2 = ON)	1.10	710	870	983	1074
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	264	382	463	532
B (1 = ON, 2 = OFF)	4.0	158	258	313	366
C (1 = OFF, 2 = ON)	3.5	125	208	249	305
D (1 = ON, 2 = ON)	3.0	105	165	218	258

* NOTE: SW3−ADJ set in Switch position A.

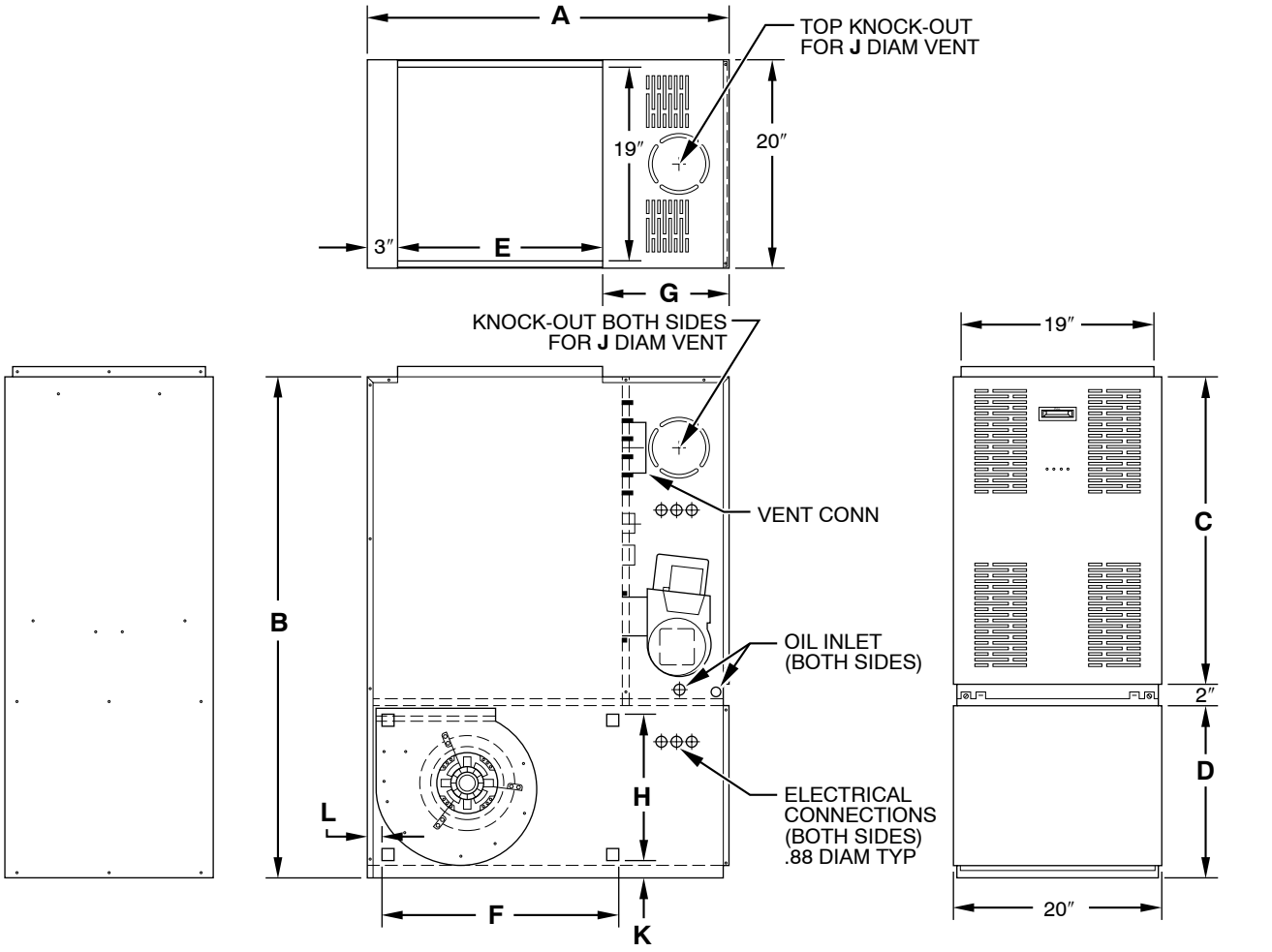
COOLING OR HEAT PUMP HEATING MODE−SINGLE SPEED OR 2−SPEED HIGH 24 VAC INPUT (R) ON Y/Y2 AND O (FOR COOLING)					
SW2−COOL Dip switch position	A/C SIZE (TON)	POWER DRAW (WATTS) EXTERNAL STATIC PRESSURE			
		0.2 in/wc	0.5 in/wc	0.7 in/wc	0.9 in/wc
A (1 = OFF, 2 = OFF)	5.0	611	750	837	945
B (1 = ON, 2 = OFF)	4.0	312	441	527	596
C (1 = OFF, 2 = ON)	3.5	223	322	397	449
D (1 = ON, 2 = ON)	3.0	168	256	309	372

* 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	133	223	268	320
B (1 = ON, 2 = OFF)	4.0	98	162	209	252
C (1 = OFF, 2 = ON)	3.5	89	142	184	220
D (1 = ON, 2 = ON)	3.0	73	129	165	194

* NOTE: SW3−ADJ set in Switch position A.

DIMENSIONS

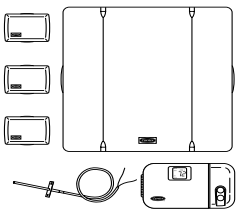


A98037

DIMENSIONS (IN.)

UNIT SIZE	A	B	C	D	E	F	G	H	J	K	L
105–12	35	48–3/4	31–1/4	16–5/8	20	22	12	14	5	1–1/2	1–3/4
120–20	39–1/2	53	33–1/4	18–3/4	24	28	12–19/32	16	6	1–5/8	1–1/2

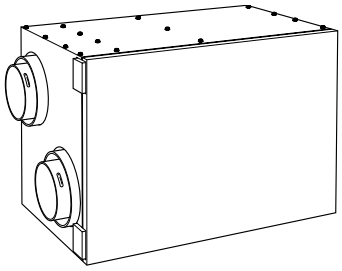
ACCESSORIES



A97432

CONTROLS: THERMOSTATS AND ZONING

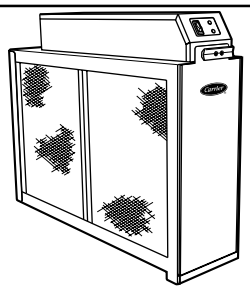
Available in programmable and non–programmable models, Carrier thermostats maintain a constant, comfortable temperature level in the home.
For the ultimate in home comfort, Carrier's 2, 4, and 8–zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series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



A94336

ENERGY/HEAT RECOVERY VENTILATOR

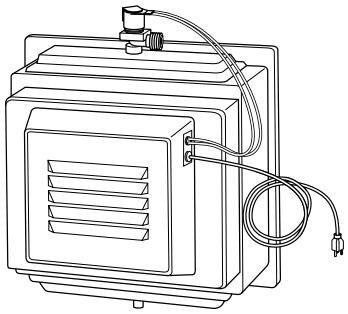
Carrier's energy or heat recovery ventilators exhaust stale indoor air and provide fresh outdoor air to the home while minimizing heat loss and humidity level. Especially useful for today's tighter constructed houses.
Energy recovery ventilator is shown.



A97380

ELECTRONIC OR MECHANICAL AIR CLEANER

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.



A91365

HUMIDIFIER

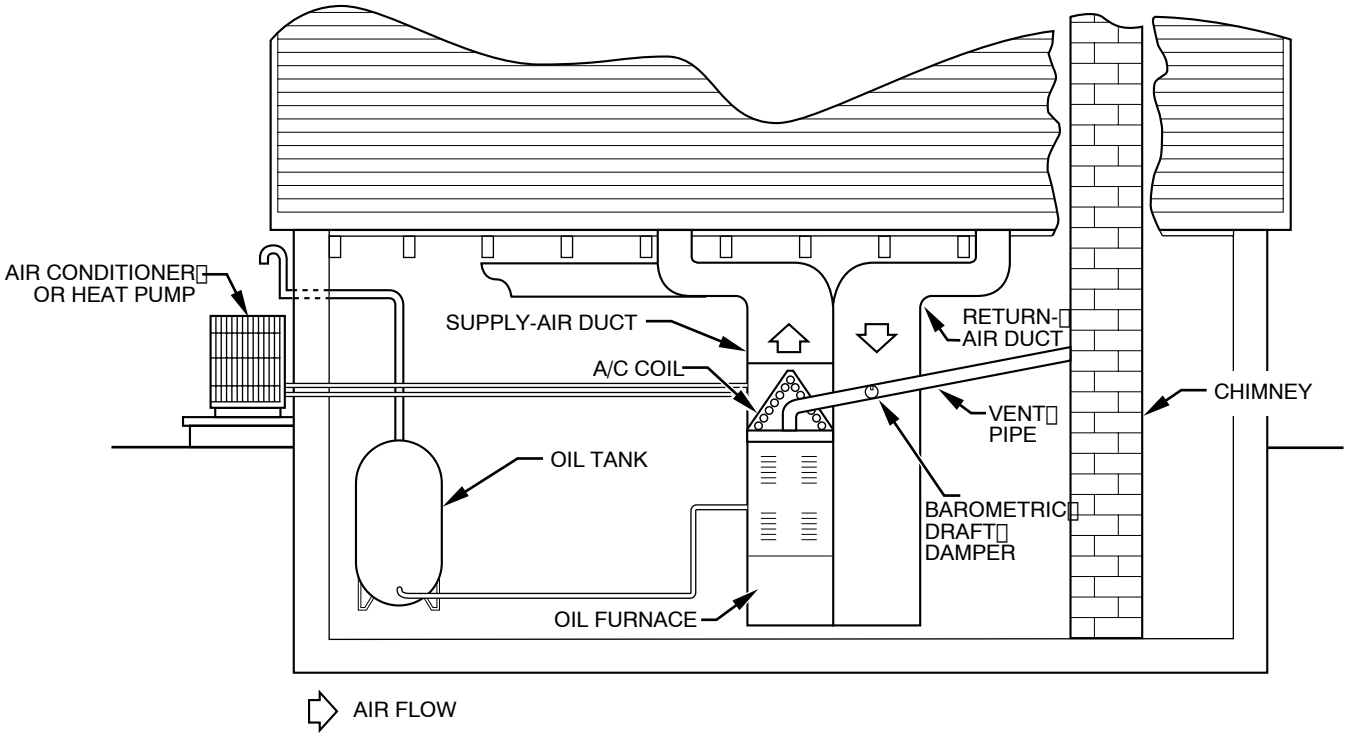
By adding moisture to winter–dry air, Carrier humidifier can often improve comfort and keeps woodwork, wallpaper, and paint in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

FURNACE ACCESSORIES	
KLASB0601DET	Downflow Subbase Kit – Required for combustible floors
KLASB0701DET	Horizontal Subbase Kit – Required for combustible floors
KLABV0101DET	Blocked Vent Shutoff Kit
KLADC0101DET	Downflow Conversion/Vent Guard – Required for downflow operation, Model 105–12
KLADC0201DET	Downflow Conversion/Vent Guard – Required for downflow operation, Model 120–20
HYBRID HEAT/THERMIDISTAT CONTROL	
TSTATCCPHH01–B	Hybrid Heat Thermostat, Programmable, Outdoor Temperature Sensor Included
TSTATCCPRH01–B	Thermidistat Control – Non–Programmable/Programmable Thermostat with Humidity Control.
PROGRAMMABLE THERMOSTAT SELECTION	
TSTATCCPAC01–B	Thermostat, Auto Changeover, 7–Day Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
TSTATCCPHP01–B	Thermostat, Auto Changeover, 7–Day Programmable, °F/°C, 2–Stage Heat/1–Stage Cool
TSTATCCP2S01–B	Thermostat, Auto Changeover, 7–Day Programmable, °F/°C, 2–Stage Heat/2–Stage Cool in AC, 3–Stage Heat/2–Stage Cool in HP mode
TSTATCCPRF01	Thermostat, Auto Changeover, 7–Day Programmable, °F/°C, Wireless Transmitter
TSTATCCPF701	Thermostat, Auto Changeover, 7–Day Programmable, °F/°C, Flatstat
NON–PROGRAMMABLE THERMOSTAT SELECTION	
TSTATCCNAC01–C	Thermostat, Auto Changeover, Non–Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
TSTATCCNHP01–C	Thermostat, Auto Changeover, Non–Programmable, °F/°C, 2–Stage Heat/1–Stage Cool
TSTATCCN2S01–C	Thermostat, Auto Changeover, Non–Programmable, °F/°C, 2–Stage Heat/2–Stage Cool in AC, 3–Stage Heat/2–Stage Cool in HP mode
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	
EACBAXCC0014	Electronic Air Cleaner – 120V, 1400 CFM
EACBAXCC0020	Electronic Air Cleaner – 120V, 2000 CFM
EACBAXCC2020	Electronic Air Cleaner – 240V, 2000 CFM
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
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

ACCESSORIES (CONT.)

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)

TYPICAL INSTALLATION



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 Printed in U.S.A. Edition Date: 01/07 **Catalog No: 58VMR–3PD**

Replaces: 58VMR–2PD