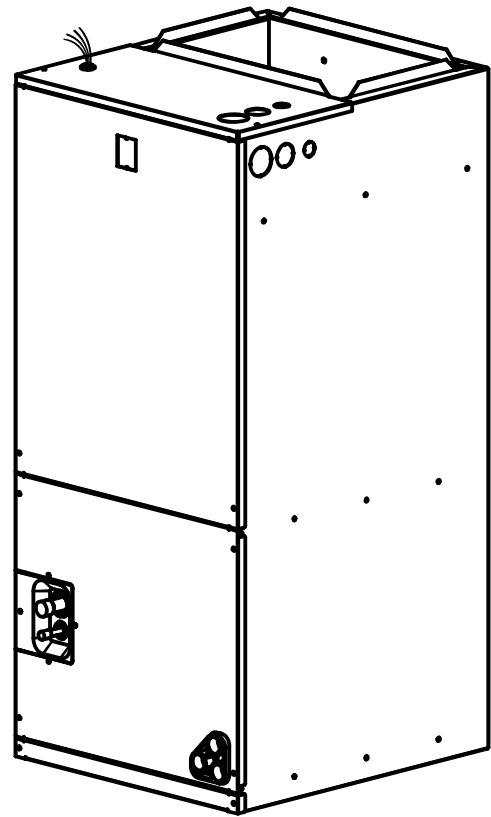


HIGH EFFICIENCY AIR HANDLERS 1.5-5Tons

FEATURING R-410A OR R22 REFRIGERANT



RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION

WARNING

These instructions are intended as an aid to qualified licensed service personnel for proper installation, adjustment and operation of this unit. Read these instructions thoroughly before attempting installation or operation. Failure to follow these instruction may result in improper installation, adjustment, service or maintenance possibly resulting in fire, electrical shock, property damage, personal injury or death.

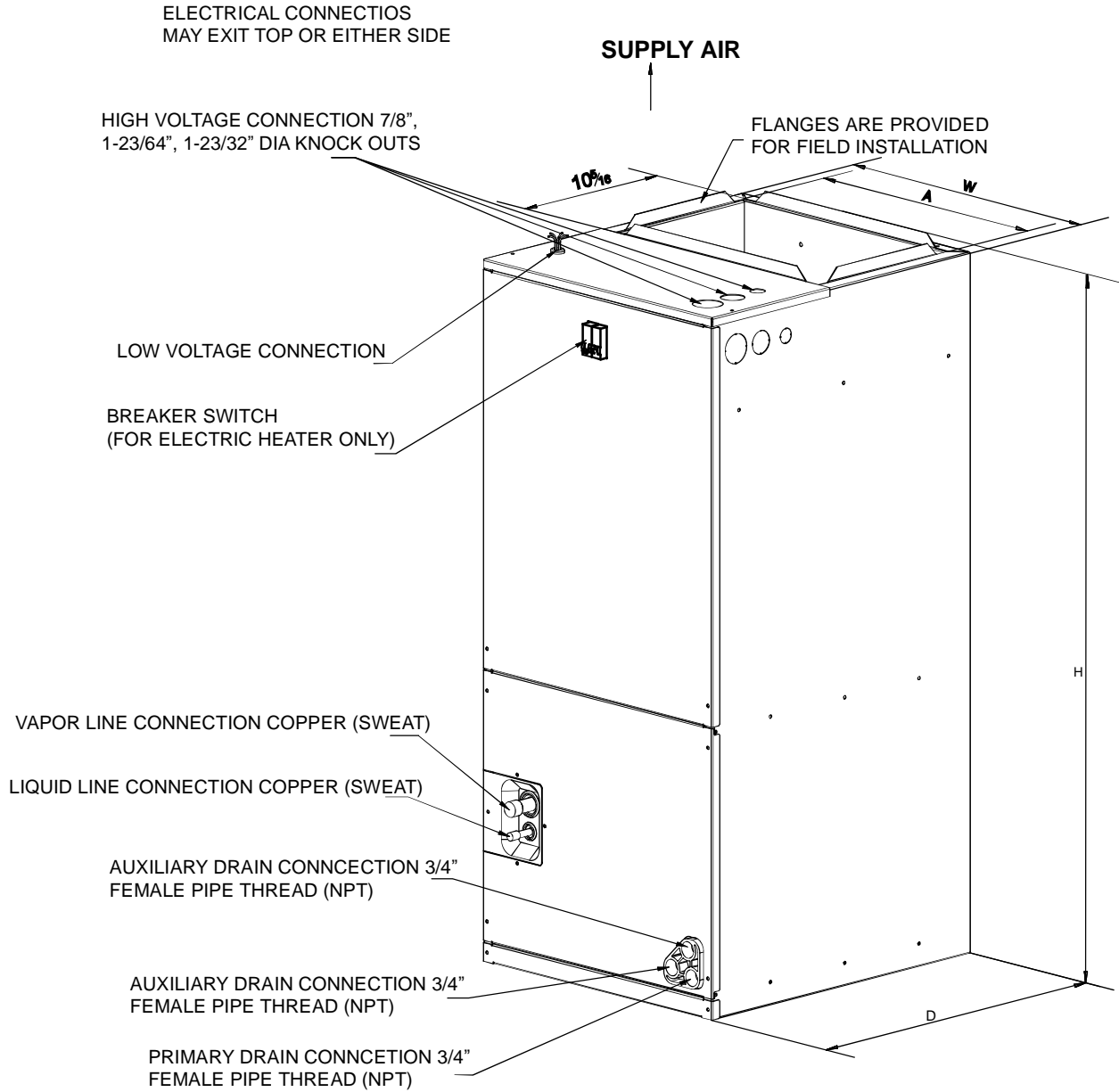


DO NOT DESTROY THIS MANUAL

Please read carefully and keep in a safe place for future reference by a serviceman.

2.1 UNIT DIMENSIONS

NOTE: 25" CLEARANCE IS REQUIRED IN THE FRONT OF THE UNIT FOR FILTER AND COIL MAINTENANCE.

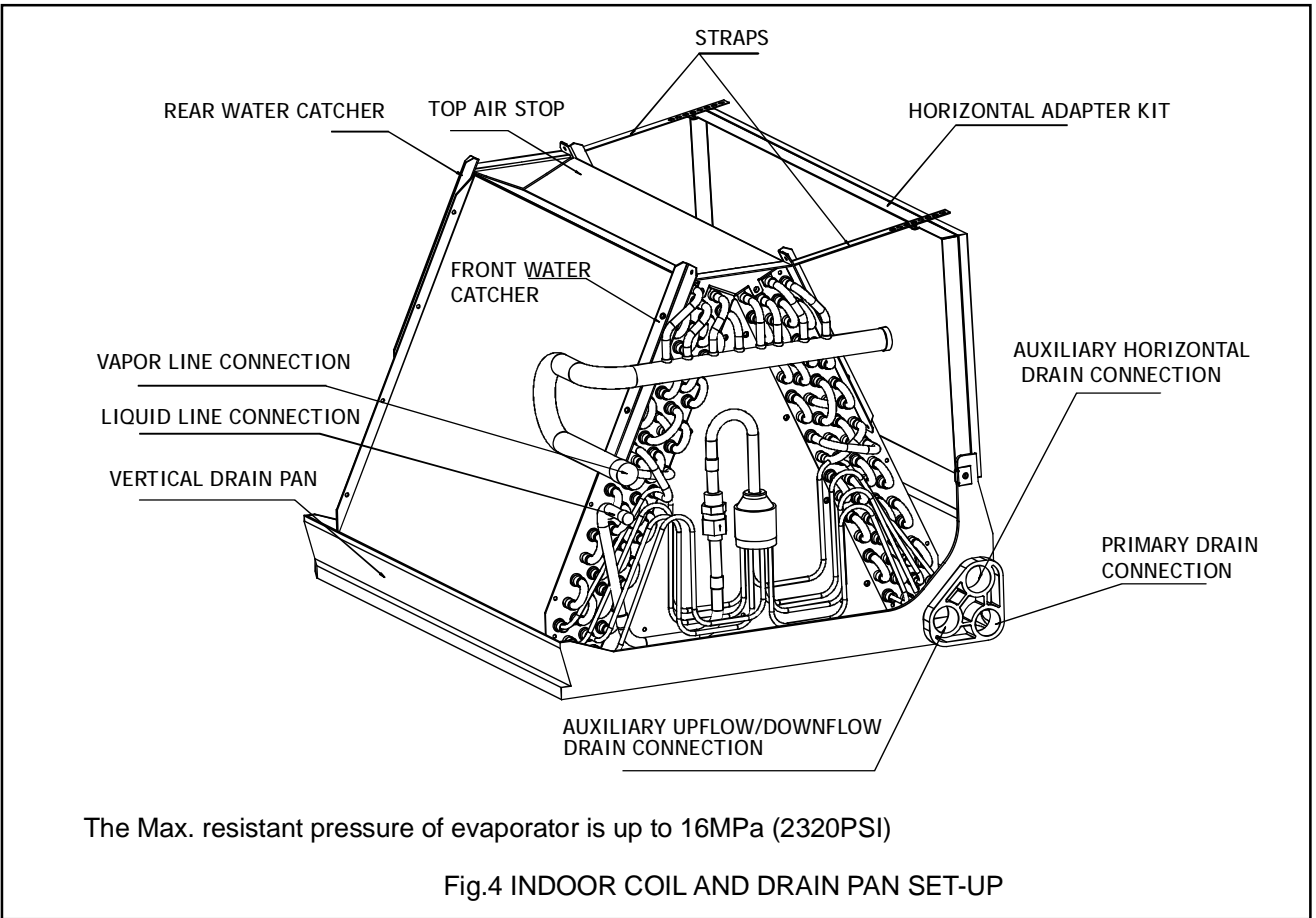
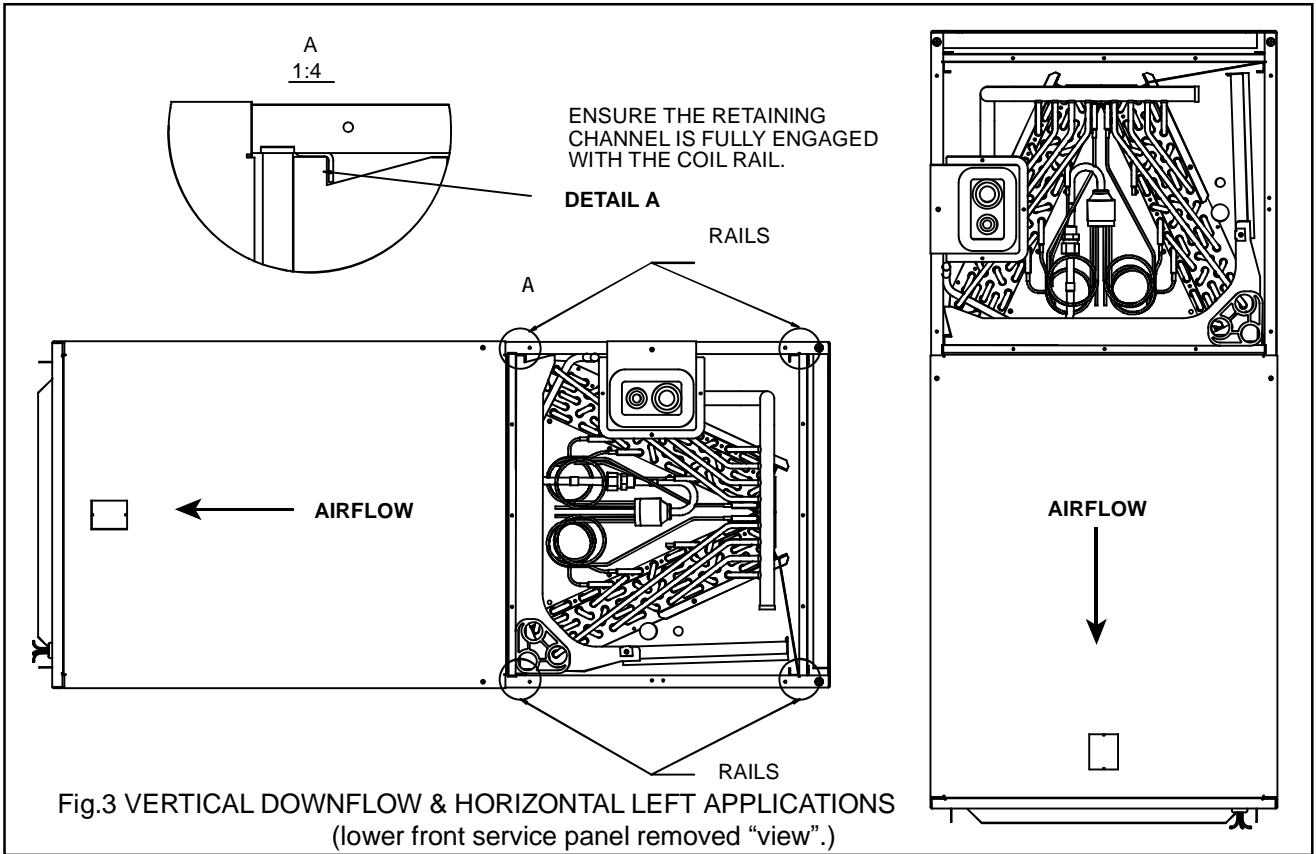


UPFLOW UNIT SHOWN;
UNIT MAY BE INSTALLED UPFLOW, DOWNFLOW,
HORIZONTAL RIGHT, OR LEFT AIR SUPPLY.

DIMENSIONAL DATA

Fig.1 DIMENSIONS

MODEL SIZE	Dimensions inch [mm]				UNIT WEIGHT /SHIPPING WEIGHT (LBS./[kg])
	UNIT HEIGHT "H" IN. [mm]	UNIT WIDTH "W" IN.[mm]	UNIT LENGHT "D" IN.[mm]	SUPPLY DUCT "A"	
18	41-3/8"[1050]	18-1/8"[460]	20-1/2"[520]	16"[406]	106/119 [48]/[54]
24	41-3/8"[1050]	18-1/8"[460]	20-1/2"[520]	16"[406]	106/119 [48]/[54]
30	41-3/8"[1050]	18-1/8"[460]	20-1/2"[520]	16"[406]	119/132 [54]/[60]
25/32	46-1/2"[1180]	19-5/8"[500]	21-5/8"[550]	18"[456]	136/152 [62]/[69]
36	46-1/2"[1180]	19-5/8"[500]	21-5/8"[550]	18"[456]	141/156 [64]/[71]
42	46-1/2"[1180]	19-5/8"[500]	21-5/8"[550]	18"[456]	141/156 [64]/[71]
44/48	54-1/2"[1385]	22"[560]	24"[610]	19-1/2"[496]	172/187 [78]/[85]
60	54-1/2"[1385]	22"[560]	24"[610]	19-1/2"[496]	172/187 [78]/[85]



4.5 ELECTRIC KIT MCA/MOP DATA

Heat Kit Model	Air Handler Model	(kW)Electric Heat	MIN. Circuit Ampacity		MAX.Fuse or Breaker (HACR) Ampacity		Fan speed (AC/HP)		
			240	208	240	208	Low	Medium	High
MAYHTR1A05BKRA	18	5	27	23.5	30	25	●	●	●
MAYHTR1A08BKRA		7.5	40	34.8	45	40	--	●	●
MAYHTR1A10BKRA		10	53	46.1	60	50	--	--	●
MAYHTR1A05BKRA	24	5	27.3	23.9	30	25	●	●	●
MAYHTR1A08BKRA		7.5	40.4	35.2	45	40	●	●	●
MAYHTR1A10BKRA		10	53.4	46.4	60	50	--	●	●
MAYHTR1A05BKRA	25	5	27.3	23.9	30	25	●	●	●
MAYHTR1A08BKRA		7.5	37.8	32.9	45	40	●	●	●
MAYHTR1A10BKRA		10	53.4	46.4	60	50	--	●	●
MAYHTR1A05BKRA	30	5	28	24.5	30	25	●	●	●
MAYHTR1A08BKRA		7.5	41	35.8	45	40	●	●	●
MAYHTR1A10BKRA		10	54	47.1	60	50	●	●	●
MAYHTR1A05BKRA	32	5	28	24.5	30	25	●	●	●
MAYHTR1A08BKRA		7.5	41	35.8	45	40	●	●	●
MAYHTR1A10BKRA		10	54	47.1	60	50	●	●	●
MAYHTR1A05BKRA	36	5	28.3	24.9	30	25	●	●	●
MAYHTR1A08BKRA		7.5	41.4	36.2	45	40	●	●	●
MAYHTR1A10BKRA		10	54.4	47.4	60	50	●	●	●
MAYHTR1A15BKRA		15	54.4/26	47.34/22.8	60/30	50/25	--	●	●
MAYHTR1A20BKRA		20	54.4/52.1	47.4/45.1	60/60	50/50	--	--	●
MAYHTR1A05BKRA	42	5	28.3	24.9	30	25	●	●	●
MAYHTR1A08BKRA		7.5	41.4	36.2	45	40	●	●	●
MAYHTR1A10BKRA		10	54.4	47.4	60	50	●	●	●
MAYHTR1A15BKRA		15	54.4/26	47.4/22.8	60/30	50/25	--	●	●
MAYHTR1A20BKRA		20	54.4/52.1	47.4/45.1	60/60	50/50	--	--	●
MAYHTR1A05BKRA	44	5	28.3	24.9	30	25	●	●	●
MAYHTR1A08BKRA		7.5	41.4	36.2	45	40	●	●	●
MAYHTR1A10BKRA		10	54.4	47.4	60	50	●	●	●
MAYHTR1A15BKRA		15	54.4/26	47.4/22.8	60/30	50/25	●	●	●
MAYHTR1A20BKRA		20	54.4/52.1	47.4/45.1	60/60	50/50	●	●	●
MAYHTR1A05BKRA	48	5	28.8	25.4	30	30	●	●	●
MAYHTR1A08BKRA		7.5	41.9	36.7	45	40	●	●	●
MAYHTR1A10BKRA		10	54.9	47.9	60	50	●	●	●
MAYHTR1A15BKRA		15	54.9/26	47.9/22.8	60/30	50/25	●	●	●
MAYHTR1A20BKRA		20	54.9/52.1	47.9/45.1	60/60	50/50	●	●	●
MAYHTR1A05BKRA	60	5	29.6	26.1	30	30	●	●	●
MAYHTR1A08BKRA		7.5	42.6	37.4	45	40	●	●	●
MAYHTR1A10BKRA		10	55.6	48.7	60	50	●	●	●
MAYHTR1A15BKRA		15	55.6/26	48.7/22.8	60/30	50/25	●	●	●
MAYHTR1A20BKRA		20	55.6/52.1	48.7/45.1	60/60	50/50	●	●	●

* Heat kit suitable for AHU 4-way position installation[● means available, --means not available].

Electric Heater Kits

NO.	Kit#	Description	Ref. Air Handler use
1	MAYHTR1A05BKRA	5kW Heat Strip	18,24,25,30,32,36,42,44,48,60
2	MAYHTR1A08BKRA	7.5kW Heat Strip	18,24,25,30,32,36,42,44,48,60
3	MAYHTR1A10BKRA	10kW Heat Strip	18,24,25,30,32,36,42,44,48,60
4	MAYHTR1A15BKRA	15kW Heat Strip, Double Breaker's panel	36,42,44,48,60
5	MAYHTR1A20BKRA	20kW Heat Strip, Double Breaker's panel	36,42,44,48,60

5.0 AIRFLOW PERFORMANCE

Airflow performance data is based on cooling performance with a coil and no filter in place. Select performance table for appropriate unit size external static applied to unit allows operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation.

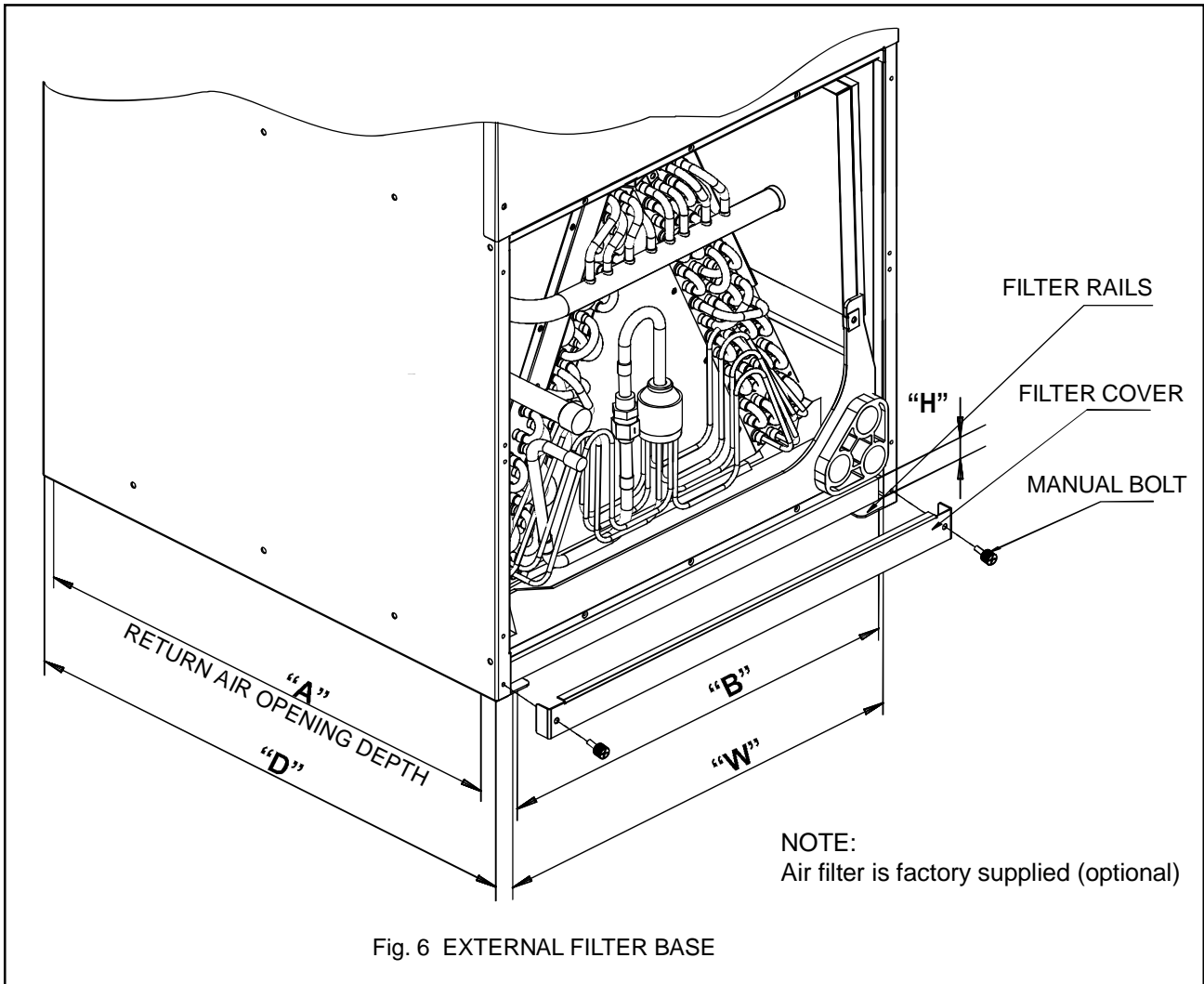
AIRFLOW PERFORMANCE DATA

Model Number	Motor Speed		CFM(Watts)									
			External Static Pressure-Inches W.C.[kPa]									
			0[0]	0.1[.02]	0.16[.04]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
18	Low	CFM	551	509	478	462	393	345	280	-	-	-
		RPM	440	518	576	595	679	726	781	-	-	-
		Watts	122.4	120	118.2	116.8	116.3	109.9	106.2	-	-	-
		Amps	0.62	0.62	0.62	0.62	0.61	0.61	0.6	-	-	-
	Middle	CFM	661	622	596	577	506	443	400	-	-	-
		RPM	518	580	618	640	731	770	812	-	-	-
		Watts	145.2	143	141.6	140.8	136.3	133.6	131.2	-	-	-
		Amps	0.69	0.68	0.68	0.68	0.67	0.67	0.66	-	-	-
	High	CFM	861	807	765	729	682	634	590	550	487	400
		RPM	693	720	758	787	831	871	894	911	940	975
		Watts	265	258	255	251.3	243.6	235.4	232	229.5	224.4	217.4
		Amps	1.21	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.12
24	Low	CFM	646	623	602	592	553	506	453	-	-	-
		RPM	528	591	628	650	728	790	840	-	-	-
		Watts	169.4	166.4	164.5	163	157.5	151.3	146.3	-	-	-
		Amps	0.79	0.78	0.78	0.78	0.77	0.76	0.75	-	-	-
	Middle	CFM	815	802	786	771	733	681	613	-	-	-
		RPM	658	701	732	743	790	841	888	-	-	-
		Watts	218	216.6	215.9	214.4	211.4	207.4	203	-	-	-
		Amps	0.96	0.95	0.95	0.95	0.94	0.93	0.92	-	-	-
	High	CFM	1043	993	965	947	920	866	780	695	607	515
		RPM	741	769	788	802	837	876	919	956	986	1014
		Watts	286.8	279.4	275.6	271.3	267.5	265.4	262.6	256.4	250.1	243
		Amps	1.30	1.28	1.26	1.25	1.24	1.22	1.2	1.18	1.17	1.15

Model Number	Motor Speed	CFM(Watts)										
		External Static Pressure-Inches W.C.[kPa]										
		0[0]	0.1[.02]	0.16[.04]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]	
25	Low	CFM	815	751	717	683	576	478	379	-	-	-
		RPM	505	564	593	622	704	774	824	-	-	-
		Watts	166	164	163	162	156	151	145	-	-	-
		Amps	0.8	0.8	0.8	0.79	0.79	0.78	0.77	-	-	-
	Middle	CFM	1022	962	931	899	829	714	584	-	-	-
		RPM	618	657	677	697	739	806	862	-	-	-
		Watts	221	220	220	219	217	214	210	-	-	-
		Amps	0.98	0.97	0.97	0.97	0.97	0.96	0.95	-	-	-
	High	CFM	1142	1082	1052	1022	963	863	807	-	-	-
		RPM	681	714	732	750	784	848	880	-	-	-
		Watts	286	285	284	283	281	276	273	-	-	-
		Amps	1.27	1.26	1.26	1.26	1.25	1.24	1.24	-	-	-
30	Low	CFM	962	913	886	870	813	750	690	-	-	-
		RPM	729	754	798	803	858	873	902	-	-	-
		Watts	315	304	298	292	280	269	258	-	-	-
		Amps	1.39	1.35	1.32	1.3	1.26	1.22	1.19	-	-	-
	Middle	CFM	1094	1043	1012	988	927	861	788	-	-	-
		RPM	809	845	859	885	911	932	954	-	-	-
		Watts	334	325	319	315	303	290	279	-	-	-
		Amps	1.46	1.43	1.4	1.38	1.35	1.3	1.26	-	-	-
	High	CFM	1374	1311	1268	1240	1164	1084	996	910	828	744
		RPM	910	937	947	954	972	989	1004	1018	1033	1043
		Watts	440	427	419	413	398	381	366	352	340	331
		Amps	1.94	1.9	1.86	1.84	1.79	1.74	1.68	1.63	1.6	1.56
32	Low	CFM	1021	978	949	932	885	758	684	-	-	-
		RPM	613	659	688	702	749	796	856	-	-	-
		Watts	246	243	240	238	233	220	214	-	-	-
		Amps	1.17	1.17	1.17	1.16	1.16	1.15	1.15	-	-	-
	Middle	CFM	1202	1156	1127	1105	1049	986	815	-	-	-
		RPM	708	742	762	774	809	844	880	-	-	-
		Watts	295	293	292	290	287	282	271	-	-	-
		Amps	1.34	1.33	1.33	1.33	1.33	1.33	1.32	-	-	-
	High	CFM	1312	1269	1233	1211	1154	1088	998	804	720	603
		RPM	764	792	808	815	848	876	907	960	987	1013
		Watts	353	349	346	345	340	335	325	313	306	296
		Amps	1.59	1.59	1.59	1.59	1.59	1.58	1.58	1.56	1.55	1.54
36	Low	CFM	1129	1088	1061	1040	988	941	819	-	-	-
		RPM	642	675	706	732	771	817	853	-	-	-
		Watts	322	312	306	301	289	269	254	-	-	-
		Amps	1.54	1.52	1.51	1.5	1.47	1.42	1.39	-	-	-
	Middle	CFM	1317	1268	1237	1217	1157	1111	1027	-	-	-
		RPM	776	810	841	874	905	935	966	-	-	-
		Watts	360	354	348	345	335	323	309	-	-	-
		Amps	1.69	1.67	1.66	1.65	1.63	1.6	1.57	-	-	-
	High	CFM	1643	1581	1544	1518	1446	1356	1261	1123	915	812
		RPM	868	883	895	906	931	955	978	1013	1028	1050
		Watts	463	451	443	438	429	415	401	371	356	343
		Amps	2.22	2.2	2.18	2.17	2.14	2.12	2.09	2.03	1.99	1.96
42	Low	CFM	1239	1203	1178	1161	1117	1070	1000	-	-	-
		RPM	738	775	797	808	844	872	905	-	-	-
		Watts	396	385	376	371	360	345	327	-	-	-
		Amps	1.73	1.68	1.64	1.62	1.57	1.52	1.44	-	-	-
	Middle	CFM	1480	1431	1399	1379	1319	1259	1187	-	-	-
		RPM	843	865	882	893	915	937	959	-	-	-
		Watts	430	416	407	401	388	375	359	-	-	-
		Amps	1.87	1.81	1.77	1.75	1.69	1.63	1.57	-	-	-
	High	CFM	1738	1682	1639	1618	1548	1477	1378	1286	1042	908
		RPM	921	941	949	955	970	985	1002	1016	1042	1059
		Watts	508	493	486	478	460	445	431	412	373	354
		Amps	2.22	2.15	2.12	2.08	2.01	1.94	1.89	1.81	1.65	1.58

Model Number	Motor Speed	CFM(Watts)										
		External Static Pressure-Inches W.C.[kPa]										
		0[0]	0.1[.02]	0.16[.04]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]	
44	Low	CFM	1348	1302	1282	1262	1214	1160	1091	-	-	-
		RPM	660	706	730	753	795	837	807	-	-	-
		Watts	365	359	355	351	342	332	319	-	-	-
		Amps	1.62	1.6	1.59	1.57	1.55	1.51	1.48	-	-	-
	Middle	CFM	1585	1534	1509	1484	1426	1360	1285	-	-	-
		RPM	758	792	814	835	865	894	923	-	-	-
		Watts	427	421	417	413	404	395	386	-	-	-
		Amps	1.86	1.84	1.82	1.81	1.78	1.75	1.71	-	-	-
	High	CFM	1760	1701	1673	1645	1583	1510	1435	1352	1259	1151
		RPM	832	861	877	893	917	941	963	984	1010	1032
		Watts	527	519	514	509	498	488	477	463	449	433
		Amps	2.31	2.28	2.26	2.24	2.21	2.17	2.13	2.08	2.04	1.98
48	Low	CFM	1471	1427	1395	1374	1316	1247	1180	-	-	-
		RPM	694	732	753	769	803	833	864	-	-	-
		Watts	381	376	372	370	364	357	349	-	-	-
		Amps	1.66	1.64	1.63	1.62	1.6	1.58	1.55	-	-	-
	Middle	CFM	1729	1678	1646	1625	1558	1491	1402	-	-	-
		RPM	790	817	833	845	876	898	920	-	-	-
		Watts	485	477	473	470	460	451	440	-	-	-
		Amps	2.14	2.12	2.09	2.08	2.06	2.03	1.99	-	-	-
	High	CFM	2045	1992	1951	1928	1847	1763	1677	1563	1450	1317
		RPM	895	920	932	938	956	972	987	1002	1015	1030
		Watts	641	627	617	612	596	582	566	546	528	507
		Amps	2.86	2.82	2.8	2.78	2.73	2.68	2.64	2.57	2.52	2.45
60	Low	CFM	1786	1740	1709	1688	1630	1562	1489	-	-	-
		RPM	830	843	849	856	890	921	942	-	-	-
		Watts	584	569	560	552	536	516	497	-	-	-
		Amps	2.64	2.59	2.55	2.54	2.58	2.42	2.37	-	-	-
	Middle	CFM	2140	2071	2039	2006	1932	1799	1677	-	-	-
		RPM	917	930	938	943	957	970	990	-	-	-
		Watts	645	630	623	617	602	585	569	-	-	-
		Amps	2.87	2.81	2.78	2.76	2.71	2.65	2.59	-	-	-
	High	CFM	2357	2276	2225	2188	2100	2004	1902	1764	1554	1393
		RPM	964	976	982	990	1000	1012	1022	1032	1042	1063
		Watts	754	733	718	710	693	673	650	630	607	575
		Amps	3.34	3.27	3.22	3.19	3.12	3.05	2.98	2.91	2.83	2.71

9.0 FILTER INSTALLATION DIMENSIONS

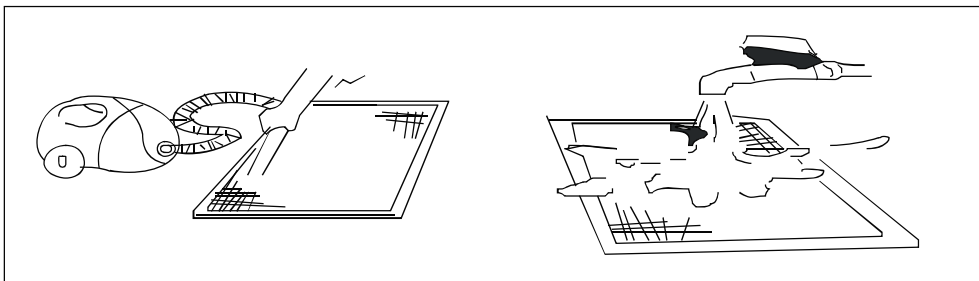


DIMENSIONAL DATA

MODEL	FILTER SIZE IN [mm]	"W" IN [mm]	"D" IN [mm]	"H" IN [mm]	Return width "A" IN	Return length "B" IN
18/24/30	16X20[406X508]	16.8[426]	20.4[518]	1[25.4]	19.6	14.8
25/32/36/42	18X20[457X508]	18.3[466]	21.6[548]	1[25.4]	20.8	16.3
44/48/60	20X22[508X559]	20.7[526]	23.9[608]	1[25.4]	23	18.8

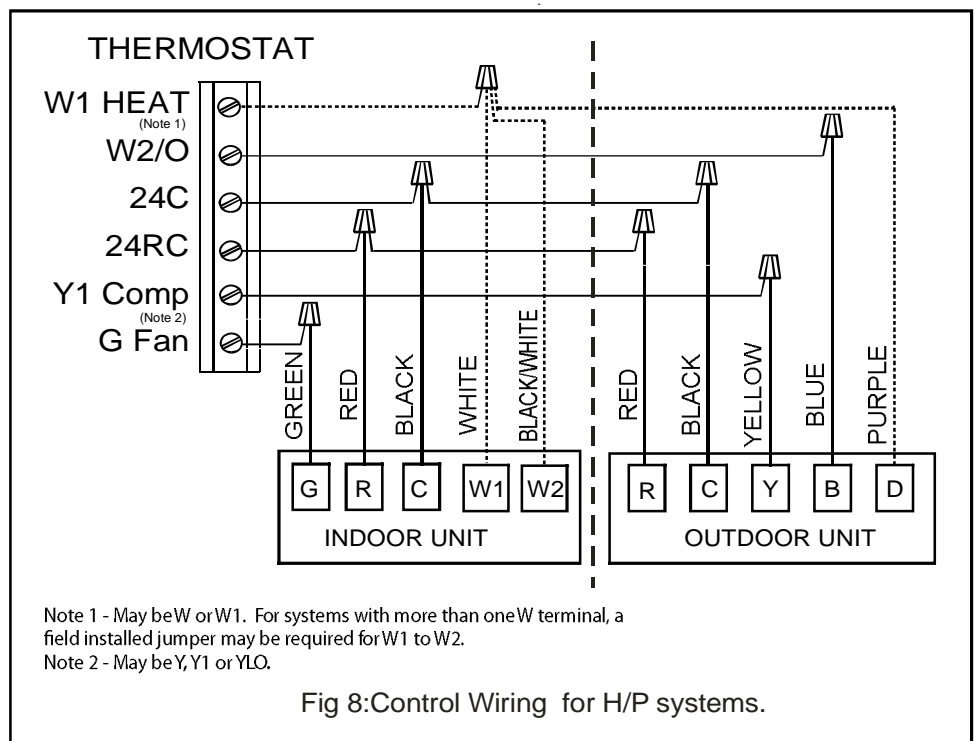
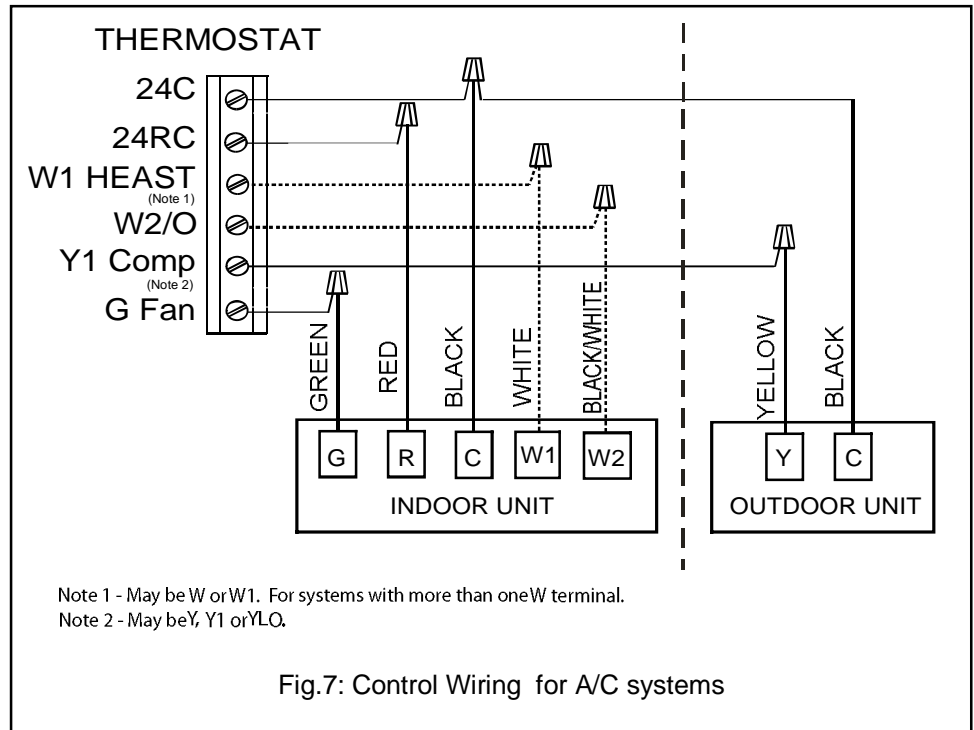
• AIR FILTER REMOVAL

1. Remove bolts manually, remove air filter recover, see in Fig 6;
2. Hold the edge of the air filter and extract out .
3. Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, use soft brush and mild detergent to clean it and dry out in cool place) .



10.0 WIRING DIAGRAM

1. To avoid the electrical shock, please connect the air conditioner with the ground lug. The main power plug in the air conditioner has been joined with the ground wiring, please don't change it freely.
2. The power socket is used as the air conditioner specially.
3. Don't pull the power wiring hard.
4. When connecting the air conditioner with the ground, observe the local codes.
5. If necessary, use the power fuse or the circuit, breaker or the corresponding scale ampere.



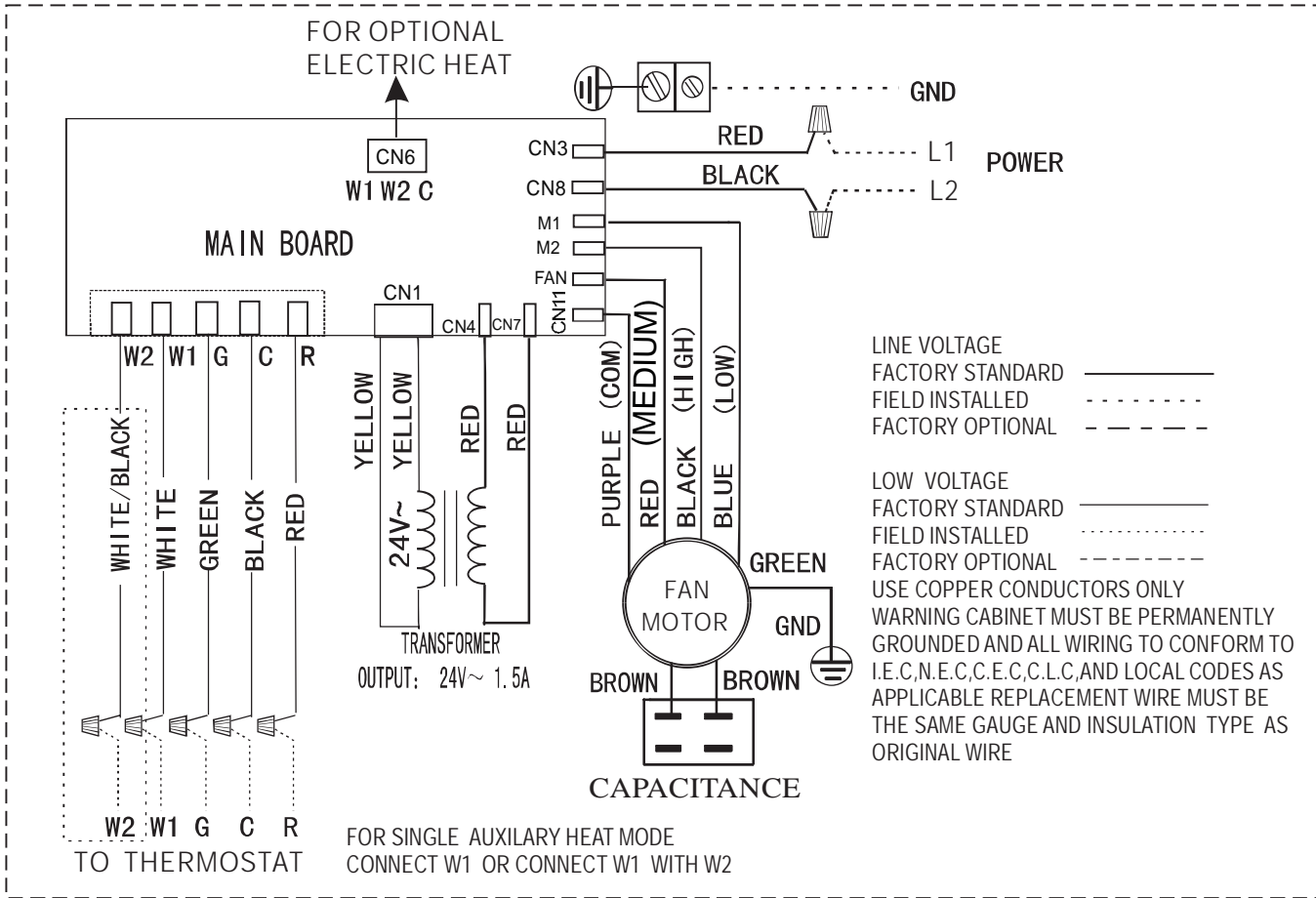


Fig.9: Indoor Unit Wiring Diagram for A/C systems and H/P systems.

Note:Description of fan speed switch

- 1.Default as medium speed of factory settings.
- 2.High speed wiring: Switch to high speed (black wire) and connect with FAN terminal, while medium speed (red wire) connect with M2 terminal.
- 3.Low speed wiring: Switch to low speed (blue wire) and connect with FAN terminal, while medium speed (red wire) connect with M1 terminal.

Terminal Fan speed	Fan	M1	M2
Medium	Red	Blue	Black
High	Black	Blue	Red
Low	Blue	Red	Black

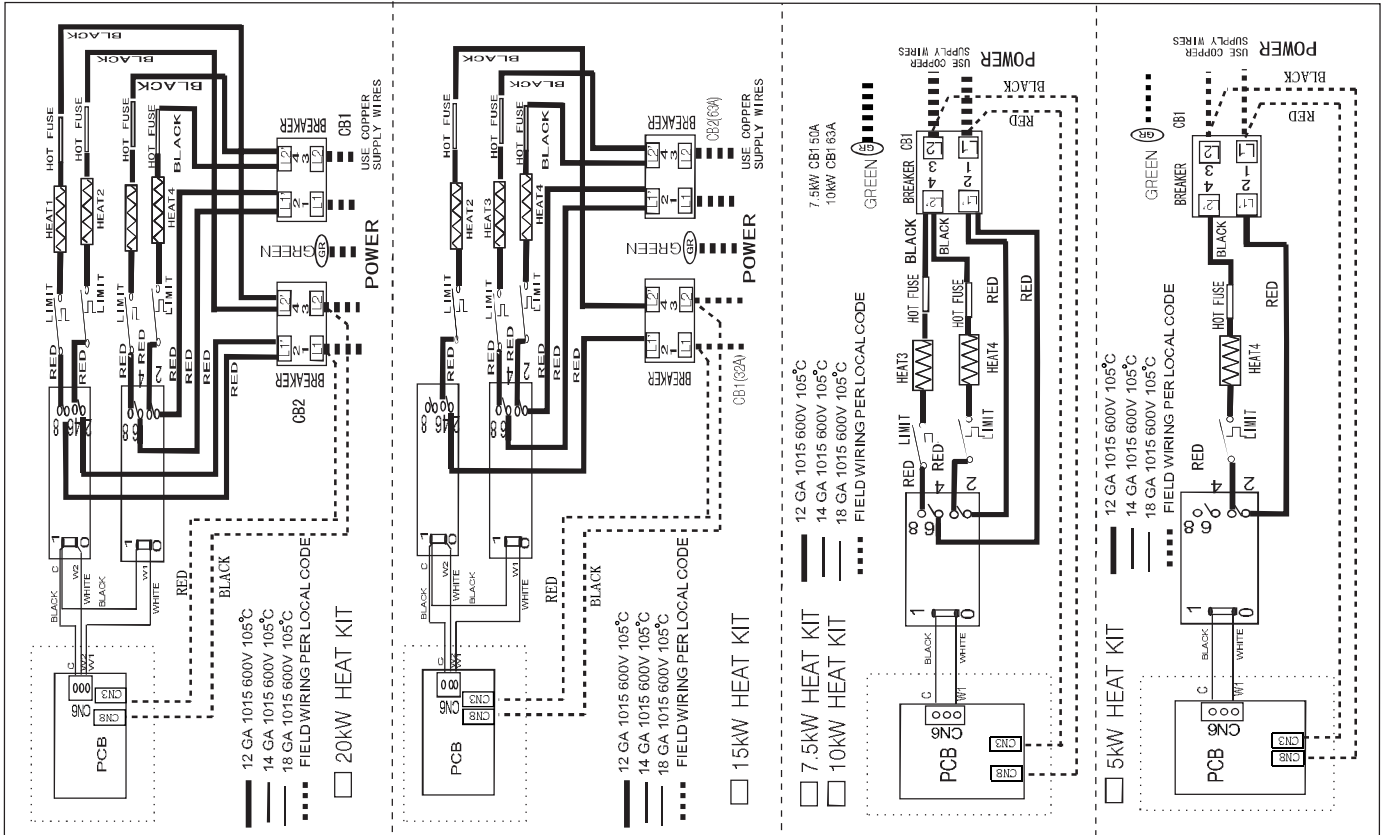


Fig.10: Indoor Unit Wiring Diagram for Electric Heat.

ELECTRIC WIRING GAUGE

Wiring gauge for A/C systems

Model(Btu/h)			18/24	25/32	30/36 /42	44/48	60
Power	Phase		Single				
	Voltage/frequency		208/230V, 60Hz				
Lines Gauge	Input Current Fuse	Indoor unit (A)	15A	15A	15A	15A	15A
		Indoor Unit Power Line	Line Quantity	3	3	3	3
	Outdoor Unit Power Line	Line Diameter(AWG)	14	14	14	14	14
		Line Quantity	3	3	3	3	3
	Outdoor -Indoor Singal Line	Line Diameter(AWG)	14	12	12	10	10
		Line Quantity	2	2	2	2	2
	Thermostat Signal Line	Line Diameter(AWG)	18	18	18	18	18
		Line Quantity	4	4	4	4	4
		Line Diameter(AWG)	18	18	18	18	18

NOTE: If indoor unit has auxiliary heating already installed and a different auxiliary heating unit is required the indoor unit (A) and indoor line diameters will be different.

Wiring gauge for H/P systems

Model(Btu/h)			18/24	25/32	30/36 /42	44/48	60
Power		Phase	Single				
		Voltage/frequency	208/230V, 60Hz				
Lines Gauge	Input Current Fuse	Indoor unit (A)	15A	15A	15A	15A	15A
	Indoor Unit Power Line	Line Quantity	3	3	3	3	3
		Line Diameter(AWG)	14	14	14	14	14
	Outdoor Unit Power Line	Line Quantity	3	3	3	3	3
		Line Diameter(AWG)	14	12	12	10	10
	Outdoor -Indoor Signal Line	Line Quantity	4	4	4	4	4
		Line Diameter(AWG)	18	18	18	18	18
	Thermostat Signal Line	Line Quantity	5	5	5	5	5
Line Diameter(AWG)		18	18	18	18	18	

NOTE: If indoor unit has auxiliary heating already installed and a different auxiliary heating unit is required the indoor unit (A) and indoor line diameters will be different.

These units must be wired and installed in accordance with all National and Local Safety Codes.