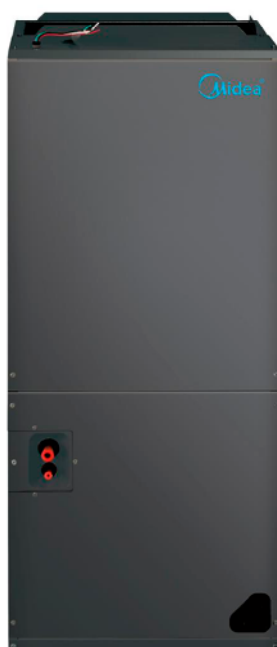


## K AHU 16 SEER Tech Guide

### Single Piece Multi-Position Air Handlers



#### DESCRIPTION

This fan coil unit provides user-flexibility with installation options for upflow, downflow or horizontal applications. These versatile models may be used for split-system cooling or heat pump operation. Compact cabinets along with return air options - in both the upflow and horizontal positions - allow this unit to fit into tight spaces such as attics, crawl spaces, and closets.

#### FEATURES

- Anti-rust, painted galvanized steel cabinet, 500 hours salt spray test.
- Low noise: fully-insulated design helps to minimize indoor noise level.
- Removing the front panel will allow the blower and coil assemblies to easily slide out for maintenance and ease of trouble shooting.
- Two drainage spouts for easy installation.
- Multi speed blower motors allow for flexible design and adds to the unit's quiet operation and comfort
- Multi-position configuration allows for four types of installation.
- Auxiliary electrical heater (5kW, 7.5kW, 10kW, 15kW, 20kW) box; filter and thermostat optional.
- ARI Certified & ETL Listed.

Due to continuous product improvement, specifications are subject to change without notice.  
Visit us at [www.midea.com](http://www.midea.com) or [www.mideaaircon.com](http://www.mideaaircon.com)

NOTE: For matching condensing units and performance data, refer to condenser technical guides.

#### WARRANTY

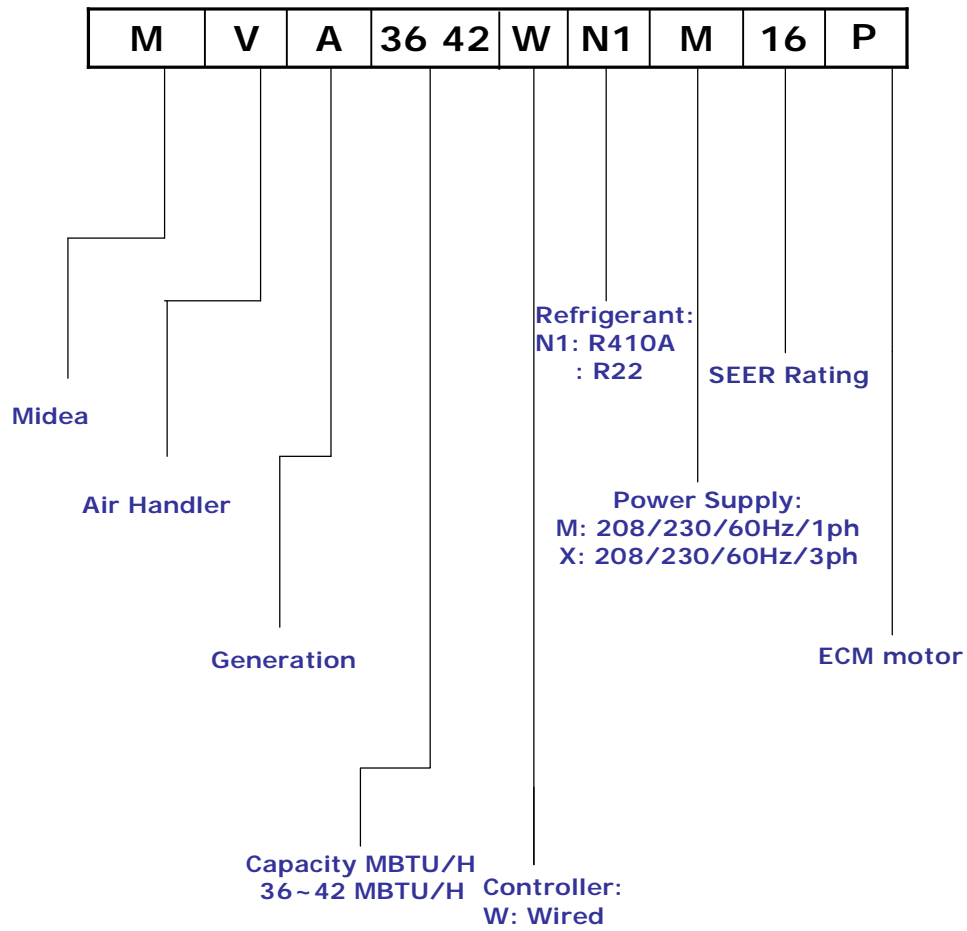
Standard 5-Year limited parts

Tested in accordance with:

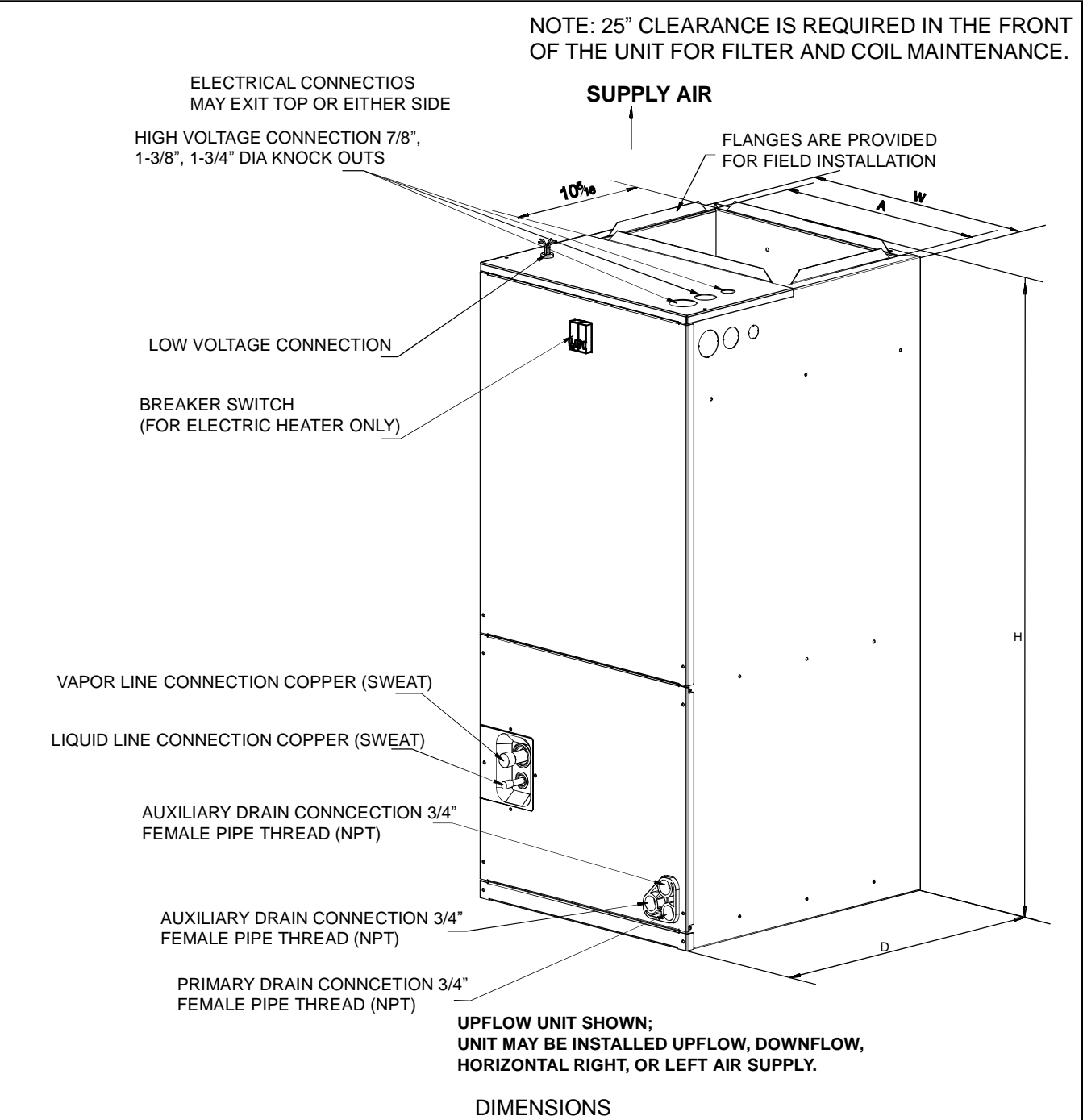


## NOMENCLATURE

### MIDEA SINGLE PIECE AIR HANDLER NOMENCLATURE



UNIT DIMENSIONS



DIMENSIONAL DATA



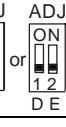



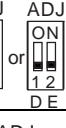





MODEL	Dimensions inch [mm]				UNIT WEIGHT /SHIPPING WEIGHT (LBS.[kg])
	UNIT HEIGHT "H" IN. [mm]	UNIT WIDTH "W" IN.[mm]	UNIT LENGHT "D" IN.[mm]	SUPPLY DUCT "A"	
1830	46-1/2"[1180]	19-5/8"[500]	20-5/8"[550]	18"[456]	136/152 [62]/[69]
3642	54-1/2"[1385]	22"[560]	24"[610]	19-1/2"[496]	171/187 [78]/[85]

## COIL TECHNICAL DATA


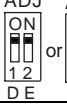


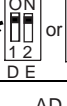

Model	Application	Face Area (Sq.Ft.)	Tube Rows	Fins Per Inch	Coil SlabSize (W×H)	Tube Geometry	Tube Dia.	Fin Type	TXV
MVA-1830WN1-M16P	A/C & HP	4	5	16	16-1/2X17-1/2	0.526x0.827	9/32	Hydrophilic Aluminum	None
MVA-3642WN1-M16P	A/C & HP	6	5	16	21-1/2X20-1/8	0.526x0.827	9/32	Hydrophilic Aluminum	None

## AIRFLOW PERFORMANCE DATA

### AIRFLOW DATA

Model Number	Nominal Cooling	Motor Speed	External Static Pressure-Inches W.C.[kPa]										
			CFM	0[0]	0.1[.02]	0.18[.04]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]	0.7[.17]	0.8[.20]
				Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
1830	1.5 Ton 		580	35	52	63	68	80	97	111	128	145	163
			650	44	61	73	76	91	110	125	142	159	182
			720	57	76	89	93	107	126	148	162	182	199
1830	2 Ton 		750	65	86	98	100	120	139	155	174	196	214
			830	84	102	117	123	140	163	183	203	224	247
			910	104	123	143	149	168	185	210	236	262	286
1830	2.5 Ton 		900	103	123	146	154	165	188	209	234	254	285
			1000	139	162	187	196	206	230	261	284	311	337
			1100	190	217	239	254	270	290	317	353	386	410

NOTE: Above airflow performance data is based on no filter installed.

Model Number	Nominal Cooling	Motor Speed	External Static Pressure-Inches W.C.[kPa]										
			CFM	0[0] Watts	0.1[.02] Watts	0.2[.05] Watts	0.24[.06] Watts	0.3[.07] Watts	0.4[.10] Watts	0.5[.12] Watts	0.6[.15] Watts	0.7[.17] Watts	0.8[.20] Watts
3642	3 Ton		1080	106	132	157	165	177	197	225	246	279	310
			1200	143	171	200	210	223	248	274	306	329	360
			1320	176	211	237	247	269	298	323	355	389	419
	3.5 Ton		1260	157	190	218	228	244	268	294	326	356	390
			1400	207	241	275	287	304	334	366	395	425	465
			1540	270	309	344	359	382	420	452	488	536	577

## ELECTRICAL DATA

MODEL	VOLTAGE	HERTZ	HP	SPEEDS	MINMUM CIRCUIT AMPACITY	MAXIMUM CIRCUIT PROTECTOR
1830	208/230	60	1/2	3	3.8	15(A)
3642	208/230	60	3/4	3	5.3	15(A)

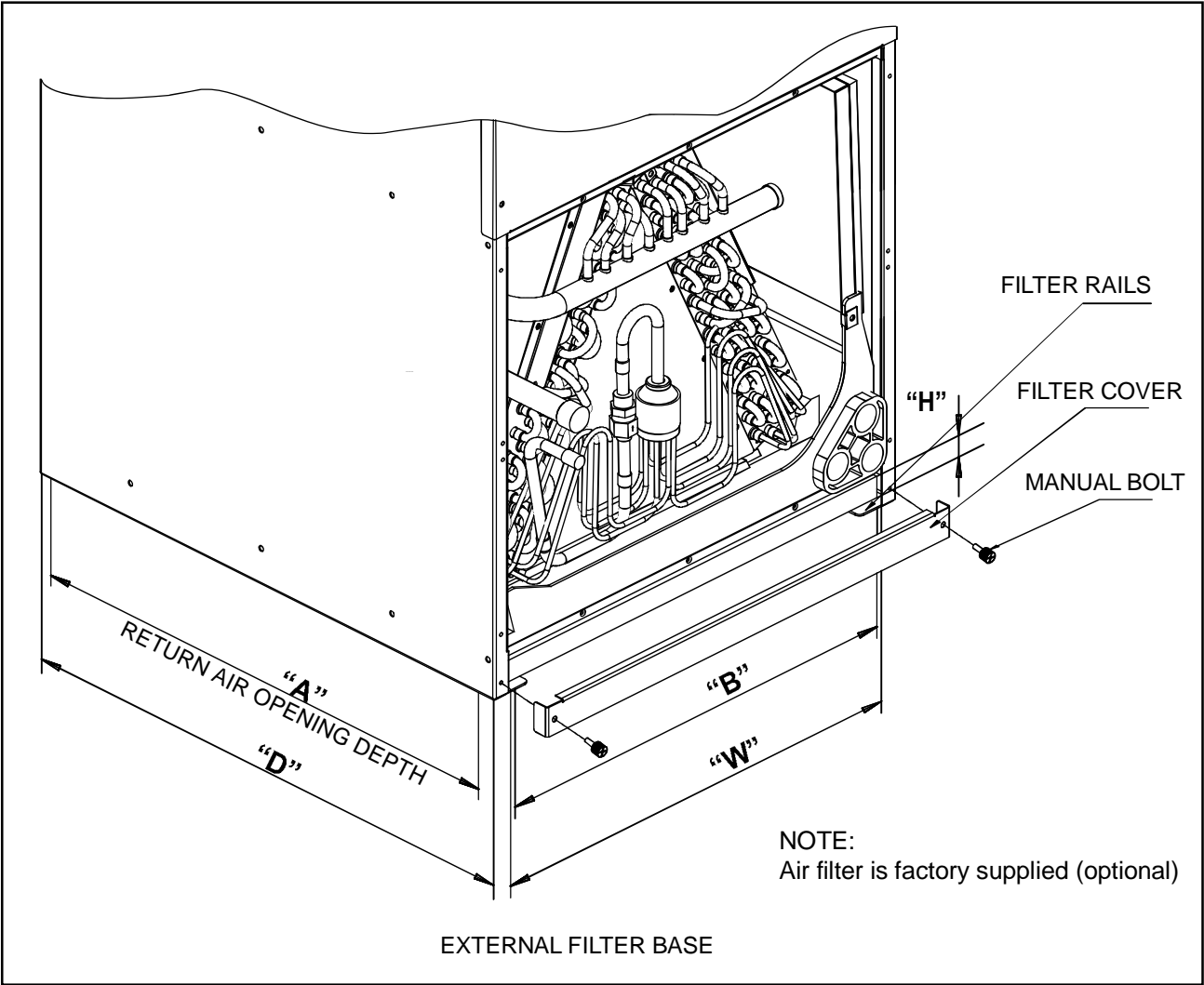
## "EHK" ELECTRIC KIT MCA/MOP DATA

Heat Kit Model	(kW)Electric Heat	MIN. Circuit Ampacity		MAX.Fuse or Breaker (HACR) Ampacity	
		240	208	240	208
EHK05A	5	27	23	30	25
EHK08A	7.5	40	34	45	35
EHK10A	10	53	46	60	50
EHK15B	15	79	68	80	70
EHK20B	20	105	91	110	100

## "EHK" ELECTRIC KIT & AHU MATCHED TABLE

Heat Kit Model	(kW)Electric Heat	Model 1830		Model 3642
		1.5 Ton	2-2.5 Ton	
EHK05A	5	●	●	●
EHK08A	7.5	●	●	●
EHK10A	10	×	●	●
EHK15B	15	×	×	●
EHK20B	20	×	×	●

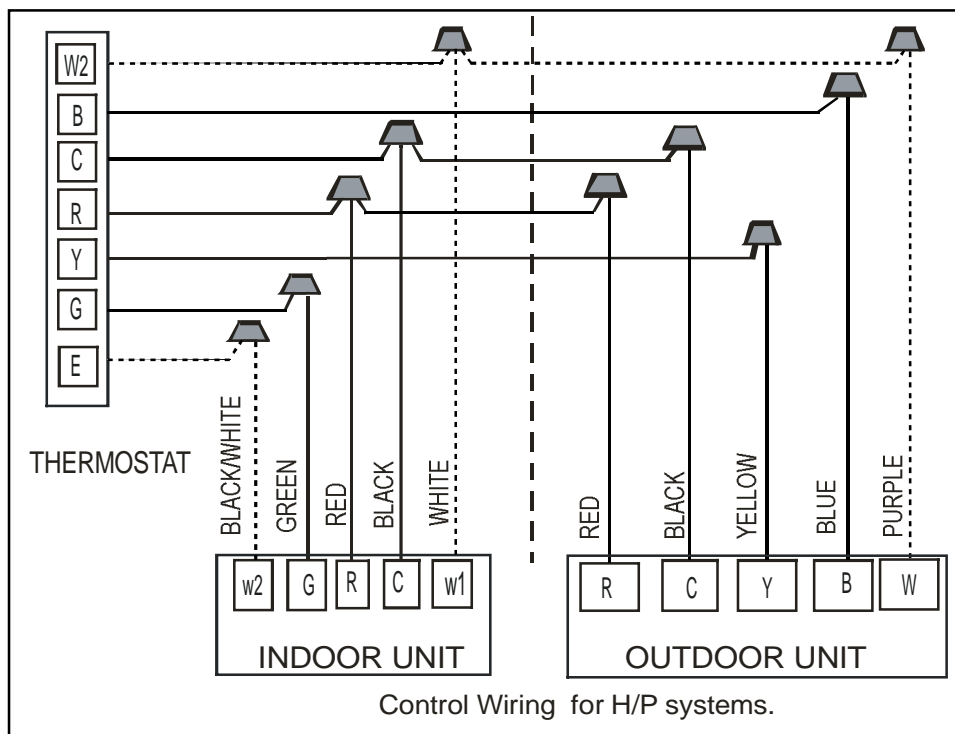
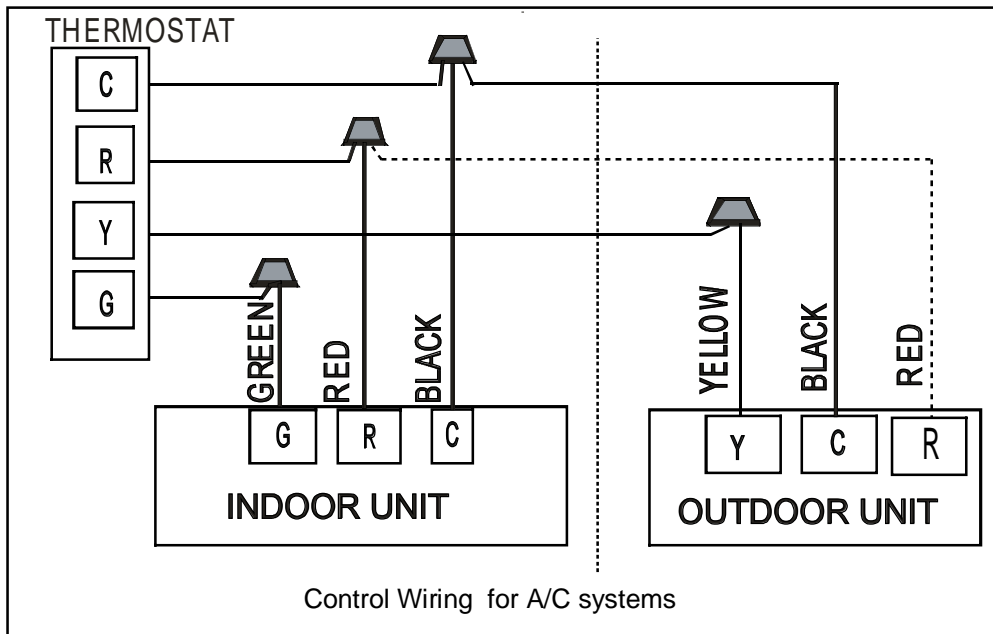
FILTER INSTALLATION DIMENSIONS

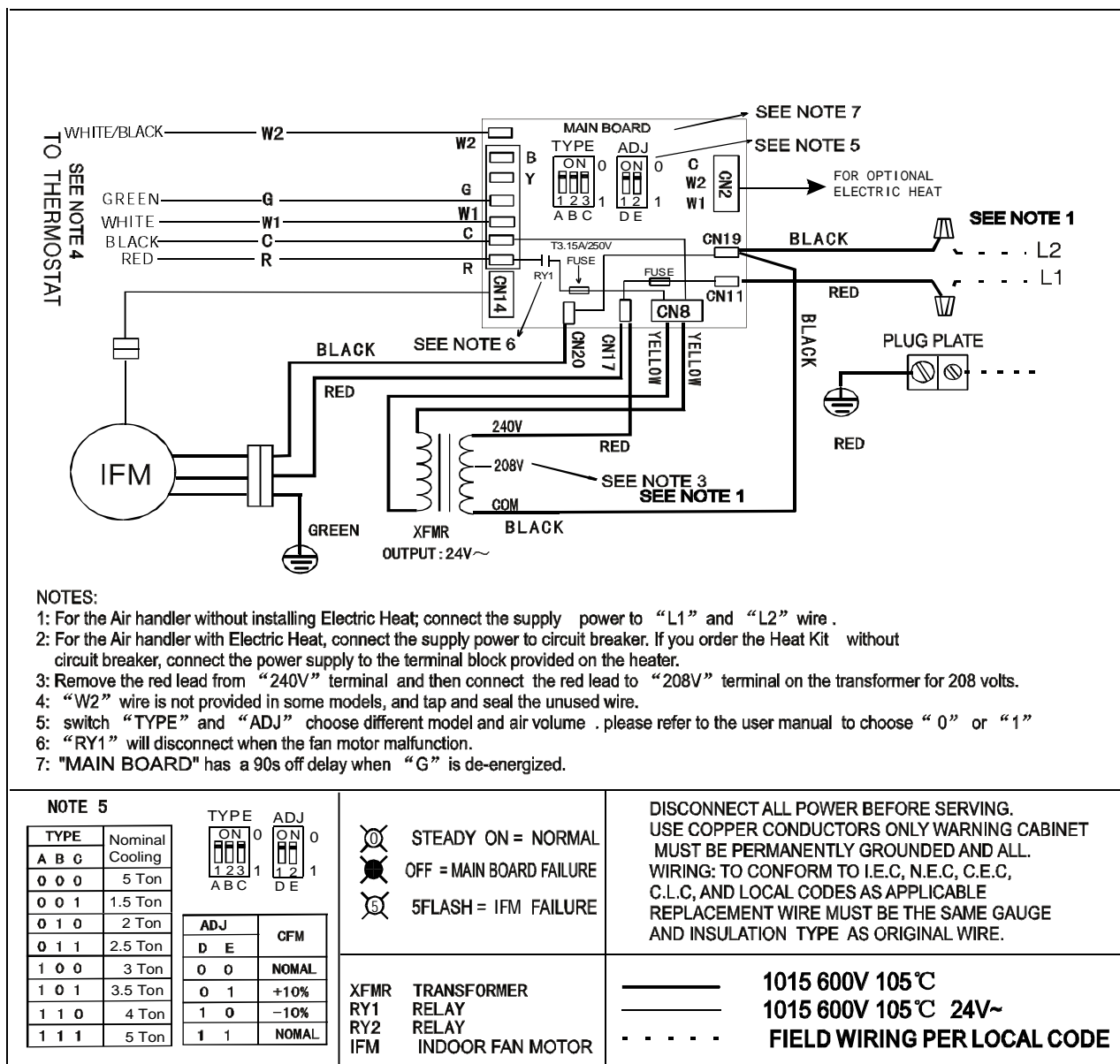


DIMENSIONAL DATA

MODEL	FILTER SIZE IN [mm]	"W" IN [mm]	"D" IN [mm]	"H" IN [mm]	Return width "A" IN	Return length "B" IN
1830	18X20[457X508]	18.3[466]	21.6[548]	1[25.4]	20.8	16.3
3642	20X22[508X559]	20.7[526]	23.9[608]	1[25.4]	23	18.8

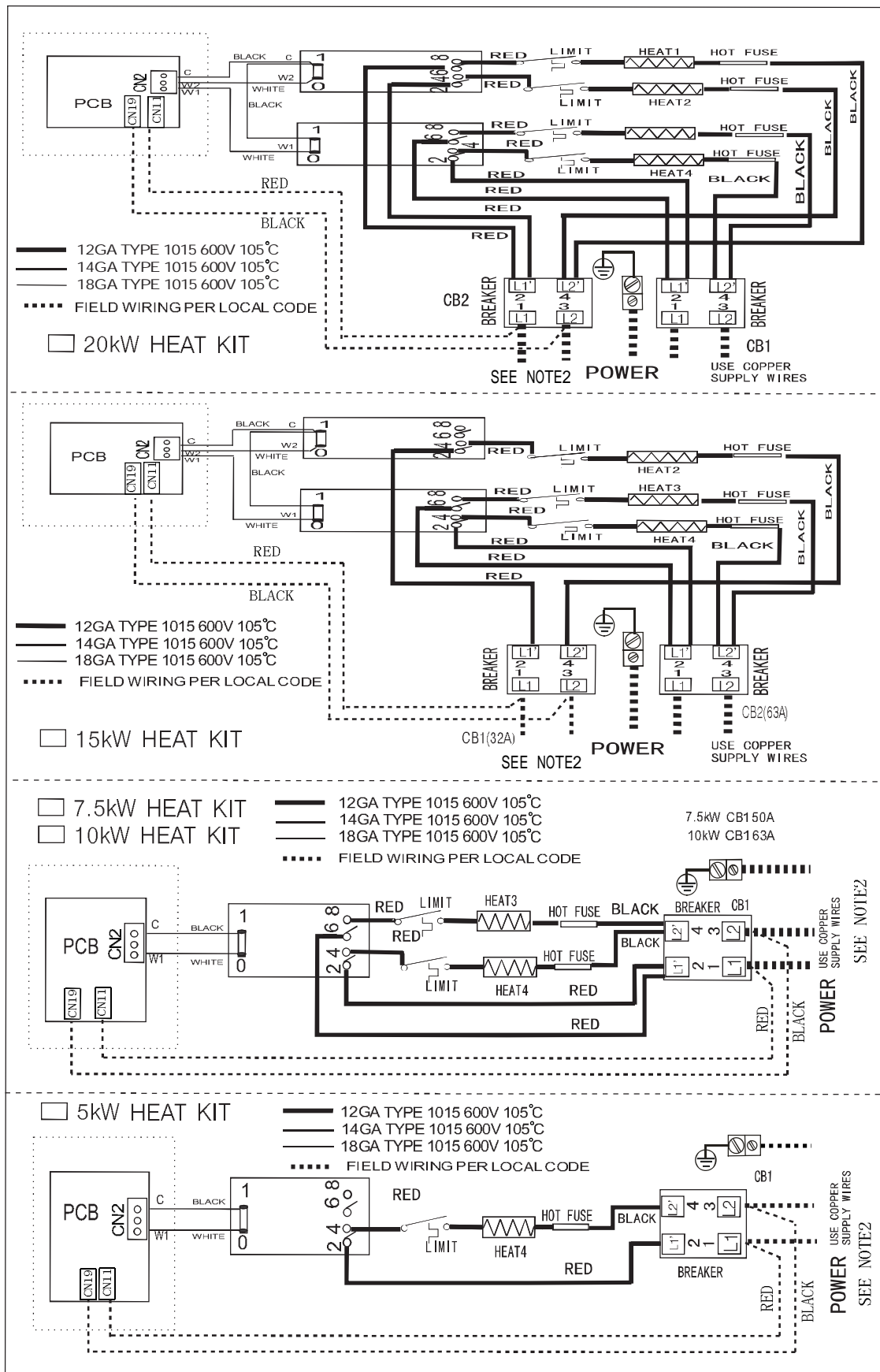
## Wiring Diagram For A/C and H/P Systems





Indoor Unit Wiring Diagram for A/C systems and H/P systems





Indoor Unit Wiring Diagram for Electric Heat