



## Heating and Air Conditioning

### TECHNICAL GUIDE

#### STELLAR 2000™

10 SEER

SPLIT-SYSTEM HEAT PUMPS

#### MODELS:

**E\*FD018 Thru E\*FD060**  
(1.5 THRU 5 NOMINAL TONS, 1 PH )

**E\*FD036 Thru E\*FD060**  
(3 THRU 5 NOMINAL TONS, 3 PH )



This product was manufactured in a plant whose quality system is certified/registered as being in conformity with ISO 9001.



Certification applies only when the complete system is listed with ARI.



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at [www.york.com](http://www.york.com) for the most up-to-date technical information.

Additional rating information can be found at [www.ari.org](http://www.ari.org)

### DESCRIPTION

The EFD Series heat pump is the outdoor part of a versatile system designed to economically heat and cool a home or small business. The compact design of these outdoor units make them ideal for ground or roof installation. They are available with sweat connect field piping connections. These units have service valves and contain enough refrigerant charge for the outdoor unit, a matching indoor coil and 15 feet of interconnecting piping.

EFD heat pumps may be custom-matched with one of YORK's indoor line of evaporator blower sections, each designed to serve a specific function. Electric heaters are available for both single and three phase applications, in a variety of sizes.

For Add-On applications, the indoor coil may be applied in the supply duct of a conventional gas, oil or electric furnace. The heat pump will be the primary source of heat for the building with the furnace operating only when the heating requirement exceeds the capacity of the heat pump.

### WARRANTY

#### Single Phase Units:

*5-year limited parts warranty.*

*5-year limited compressor warranty.*

#### Three Phase Units:

*1-year limited parts warranty.*

*5-year limited compressor warranty.*

### FEATURES

- **QUALITY CONDENSER COILS** - The coil is constructed of enhanced copper tube and aluminum fins.
- **COIL PROTECTION** - Coils are protected from damage by a polymer mesh applied between the coil face, and a PVC coated steel coil guard.
- **DEFROST CONTROL** - Time / Temperature defrost control provides field selectable time periods between defrost cycles (30, 60 and 90 minutes). LED lockout indicator, anti-short cycle timer protection are also provided. A built-in soft lockout helps to avoid nuisance trips on high pressure.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protect the compressor if undesirable operating conditions occur. All units have standard crankcase heat for added protection (except 048 and 060, since they are scroll compressors).
- **DURABLE FINISH** - Cabinet is made of pre-painted steel. The pre-treated flat galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and glossy earth tone finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by the fully exposed refrigerant connections and the single panel covering of the electrical controls. The small base dimension means smaller mounting pads or less materials required for mounting, thus lowering installation costs.
- **TOP DISCHARGE** - The air from the top mounted fan is blown up away from the structure and any landscaping. This allows space saving arrangements of multi-unit installations.
- **LOW OPERATING SOUND LEVEL** - The upward air flow carries the normal operating noise up and away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds. A compressor blanket accessory is available for those applications requiring further sound reduction.
- **LOW MAINTENANCE** - Long life permanently lubricated motor- bearings need no annual servicing.
- **RE-USABLE SERVICE VALVES** - Provided on all sweat fittings on both the liquid and vapor connections for ease of evacuating.
- **U.L. and C.U.L. listed** - approved for outdoor application.

Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

**FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE**

**PHYSICAL AND ELECTRICAL DATA - 1 Phase**

MODEL		E4FD018	E4FD024	E4FD030	E4FD036	E4FD042	E4FD048	E4FD060
Unit Supply Voltage		208/230-1-60						
Normal Voltage Range <sup>1</sup>		187 to 252						
Minimum Circuit Ampacity		11.3	15.4	19.4	23.2	27.2	33.1	39.2
Max. Overcurrent Device Amps <sup>2</sup>		20	25	30	35	40	50	60
Compressor Type <sup>3</sup>		Recip	Recip	Recip	Recip	Recip	Scroll <sup>C</sup>	Scroll <sup>B</sup>
Compressor Amps	Rated Load	6.7	11.6	14.8	17.3	20.5	25.2	29.9
	Locked Rotor	48	60	73	86	120	131	165
Crankcase Heater		Yes	Yes	Yes	Yes	Yes	No	No
Fan Motor Amps	Rated Load	0.9	0.9	0.9	1.6	1.5	1.6	1.8
Fan Diameter Inches		18	18	18	18	24	24	24
Fan Motor	Rated HP	1/8	1/8	1/8	1/4	1/4	1/4	1/3
	Nominal RPM	1075	1075	1075	1100	860	860	1100
	Nominal CFM	2050	2050	2050	2200	3200	3200	4100
Coil	Face Area Sq. Ft.	14.1	14.1	14.1	14.1	20	20	24
	Rows Deep	1	1	1	1	1	1	1
	Fin / Inches	13	13	13	16	13	16	16
Liquid Line OD		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line OD		5/8	5/8	3/4	3/4	7/8	7/8	7/8
Unit Charge (Lbs. - Oz.) <sup>4</sup>		4 - 11	4 - 12	5 - 3	5 - 11	7 - 6	7 - 6	9 - 5
Charge Per Foot, Oz.		0.68	0.68	0.68	0.68	0.70	0.70	0.70
Operating Weight Lbs.		158	162	168	173	225	210	246

**PHYSICAL AND ELECTRICAL DATA - 3 Phase**

MODEL		E4FD036	E4FD048	E4FD060	E4FD036	E4FD048	E4FD060
		25			46		
Unit Supply Voltage		208/230 - 3 - 60			460 - 3 - 60		
Normal Voltage Range <sup>1</sup>		187 TO 253			432 TO 504		
Minimum Circuit Ampacity		15.2	20.1	25.0	8.0	9.0	11.4
Max. Overcurrent Device Amps <sup>2</sup>		25	30	40	15	15	15
Compressor Type <sup>3</sup>		Recip	Scroll <sup>C</sup>	Scroll <sup>B</sup>	Recip	Scroll <sup>C</sup>	Scroll <sup>B</sup>
Compressor Amps	Rated Load	10.9	14.8	18.5	5.8	6.5	8.3
	Locked Rotor	78	91	125	40	46	67
Crankcase Heater		Yes	No	No	Yes	No	No
Fan Motor Amps	Rated Load	1.6	1.6	1.8	0.8	0.8	1.0
Fan Diameter Inches		18	24	24	18	24	24
Fan Motor	Rated HP	1/4	1/4	1/3	1/4	1/4	1/3
	Nominal RPM	1100	860	1100	1075	860	1100
	Nominal CFM	2200	3200	4100	2200	3200	4100
Coil	Face Area Sq. Ft.	14.1	20	24	14.1	20	24
	Rows Deep	1	1	1	1	1	1
	Fin / Inches	16	16	16	16	16	16
Liquid Line OD		3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line OD		3/4	7/8	7/8	3/4	7/8	7/8
Unit Charge (Lbs. - Oz.) <sup>4</sup>		5 - 11	7 - 6	9 - 5	5 - 11	7 - 6	9 - 5
Charge Per Foot, Oz.		0.68	0.70	0.70	0.68	0.70	0.70
Operating Weight Lbs.		173	210	246	173	210	246

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker.
3. All scrolls listed with a superscript "B" are Bristol scrolls. All scrolls listed with a superscript "C" are Copeland scrolls.
4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.

**Additional R-22 Charge / Orifice Size for Various Matched Systems - 1 & 3 Phase**

OUTDOOR UNIT		E4FD018	E4FD024	E4FD030	E4FD036	E4FD042	E4FD048	E4FD060
Orifice in OD Distributor		37	45	51	59	67	76	76
FACTORY CHARGE, LBS. - OZ.		4-11	4-12	5-3	5-11	7-6	7-6	9-5
ID Orifice included w/Instruction Package		53	61	67	75	78, 81	84, 87	93
INDOOR COIL	COIL ORIFICE <sup>1</sup>	REQUIRED SYSTEM ORIFICE + ADDITIONAL CHARGE, OZ.						
G1FA/G1UA024S14, 17	59	53+2	-	-	-	-	-	-
G1FA/G1UA030S14	65	53+5	61+0	-	-	-	-	-
G1FA/G1UA036S14	73	-	61+2	67+0	-	-	-	-
G1FA/G1UA036S17	73	-	-	67+5	-	-	-	-
G1FA/G1UA048S17	84	-	-	-	75+3	81+5	84+0	-
G1FA/G1UA048S21	84	-	-	-	75+5	81+5	84+0	-
G1FA/G1UA060S21, 24	90	-	-	-	-	-	87+7	93+0
G2FD024(S,H)14, 17	61	53+5	61+0	-	-	-	-	-
G2FD030(S,H)17	65	-	61+2	67+0	-	-	-	-
G2FD035(S,H)14	65	-	61+2	67+0	-	-	-	-
G2FD036(S,H)17, 21	75	-	-	67+5	75+0	-	-	-
G2FD042(S,H)21	78	-	-	-	75+1	78+0	-	-
G2FD046(S,H)17	78	-	-	-	75+3	78+0	-	-
G2FD048(S,H)21, 24	84	-	-	-	-	81+5	84+2	-
G2FD060(S,H)24	90	-	-	-	-	-	87+4	93+0
G2FD061SH24	90	-	-	-	-	-	-	93+8
G1HD024	59	53+5	61+1	-	-	-	-	-
G1HD036	69	-	-	67+5	75+0	-	-	-
G1HD048	81	-	-	-	-	78+2	87+0	-
G1HD060	93	-	-	-	-	81+9	87+0	93+8
F2RP/FP018	53	53+0	-	-	-	-	-	-
F2RP/FP024	61	53+4	61+0	-	-	-	-	-
F2RP/FP030	65	-	61+2	67+0	-	-	-	-
F2RP/FP036	75	-	-	67+5	75+0	-	-	-
F2RP/FP042	78	-	-	-	75+3	78+0	-	-
F2FP048	84	-	-	-	-	81+5	84+2	-
F2FP060	90	-	-	-	-	-	-	93+0
REFRIGERANT LINE ADDER OZ. / FT.		0.66	0.66	0.68	0.68	0.68	0.70	0.70

## FOOTNOTES:

1. These orifices are factory mounted in the flow control device of each indoor coil.

**PROCEDURES:**

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
2. Verify the orifice size and additional charge required for specific evaporator coil in the system using the above table.
3. Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
4. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.
5. If the orifice in the evaporator was change

**COOLING CAPACITY - With Air Handler Coils**

UNIT MODEL	AIR HANDLER			COIL MODEL <sup>1</sup>	COOLING					
	MODEL	ELECTRIC HEAT KW <sup>2</sup>	W		RATED CFM	NET MBH		SEER W/O TXV	SEER + TXV <sup>3</sup>	EER
1 and 3 Phase 10 SEER HP / N1AH / G2FD										
E4FD018	N1AHB08	2,5,7.5,10	17	G2FD024(S,H)17	650	18.4	13.8	11.00	---	9.10
E4FD024	N1AHB08	2,5,7.5,10	17	G2FD024(S,H)17	800	23.0	17.3	10.45	---	9.15
	N1AHB08	5,7.5,10,15,18	17	G2FD030(S,H)17	800	23.4	17.6	10.50	---	9.40
E4FD030	N1AHB12	5,7.5,10,15,18	17	G2FD030(S,H)17	1000	29.0	21.8	10.50	---	9.40
	N1AHB12	5,7.5,10,15,18	17	G2FD036(S,H)17	1025	29.4	22.1	11.00	---	9.40
E4FD036	N1AHB12	5,7.5,10,15,18	17	G2FD036(S,H)17	1220	35.0	26.3	10.00	---	9.20
	N1AHB12	5,7.5,10,15,18	17	G2FD042(S,H)17	1220	35.4	26.6	10.20	---	9.15
	N1AHB12	5,7.5,10,15,18	17	G2FD046(S,H)17	1220	35.4	26.6	10.20	---	9.15
E4FD042	N1AHC16	5,7.5,10,15,20	21	G2FD042(S,H)21	1400	40.5	30.0	10.00	---	9.15
	N1AHC16	5,7.5,10,15,20	21	G2FD048(S,H)21	1425	41.5	30.7	10.10	---	9.25
E4FD048	N1AHC16	5,7.5,10,15,20,25,30	21	G2FD048(S,H)21	1600	45.5	33.7	10.50	---	9.40
	N1AHD20	5,7.5,10,15,20,25,30	24	G2FD048(S,H)24	1600	45.5	33.7	10.50	---	9.40
	N1AHD20	5,7.5,10,15,20,25,30	24	G2FD060(S,H)24	1625	47.0	34.8	10.80	---	9.65
E4FD060	N1AHD20	5,7.5,10,15,20,25,30	24	G2FD060(S,H)24	1800	59.0	44.0	11.00	---	9.90
1 and 3 Phase 10 SEER HP / N1VS / G2FD										
E4FD018	N1VSB12	5,7.5,10,15,18	17	G2FD024(S,H)17	650	19.0	14.3	12.00	---	10.30
E4FD024	N1VSB12	5,7.5,10,15,18	17	G2FD024(S,H)17	800	23.6	17.7	11.70	---	10.20
	N1VSB12	5,7.5,10,15,18	17	G2FD030(S,H)17	850	24.0	18.0	11.80	---	10.65
E4FD030	N1VSB12	5,7.5,10,15,18	17	G2FD036(S,H)17	1025	30.0	22.5	11.60	---	9.30
	N1VSB12	5,7.5,10,15,18	17	G2FD030(S,H)17	1025	29.0	21.8	11.30	---	9.40
E4FD036	N1VSB12	5,7.5,10,15,18	17	G2FD036(S,H)17	1200	35.6	26.7	10.80	---	9.50
	N1VSB16	5,7.5,10,15,20	17	G2FD036(S,H)21	1200	35.6	26.7	11.00	---	9.70
	N1VSB12	5,7.5,10,15,18	17	G2FD046(S,H)17	1200	36.2	27.2	11.00	---	9.80
	N1VSC16	5,7.5,10,15,20	21	G2FD042(S,H)21	1225	36.2	27.2	11.20	---	10.00
E4FD042	N1VSC16	5,7.5,10,15,20	21	G2FD048(S,H)21	1425	42.0	31.1	11.00	---	10.00
E4FD048	N1VSC16	5,7.5,10,15,20	21	G2FD048(S,H)21	1600	46.0	34.0	11.00	---	10.00
	N1VSD20	7.5,10,15,20,25,30	24	G2FD060(S,H)24	1625	48.0	35.5	12.00	---	10.60
E4FD060	N1VSD20	7.5,10,15,20,25,30	24	G2FD060(S,H)24	1800	60.0	45.0	11.50	---	11.20
1 and 3 Phase 10 SEER HP / F2RP / FP / FV <sup>4,5</sup>										
E4FD018	F2RP/F2FP018	2,5,8	18	---	650	17.5	13.0	10.70	---	9.80
	F2RP/F2FP024	5,8,10,(10),(15)	18	---	650	18.8	14.0	10.50	---	10.45
E4FD024	F2RP/F2FP024	5,8,10,(10),(15)	18	---	800	22.6	17.0	10.40	---	9.40
	F2RP/F2FP030	5,8,10,15,(10),(15)	18	---	800	23.2	17.4	10.70	---	9.50
E4FD030	F2RP/F2FP030	5,8,10,15,(10),(15)	18	---	1050	29.0	21.8	10.50	---	9.3
	F2RP/F2FP036	5,8,10,15,(10),(15)	18	---	1050	29.4	22.1	11.00	---	9.4
E4FD036	F2RP/F2FP036	5,8,10,15,(10),(15)	18	---	1200	34.2	25.7	10.00	---	8.90
	F2RP/F2FP042	5,8,10,15,(10),(15)	21	---	1200	35.0	26.3	10.20	---	9.20
E4FD042	F2RP/F2FP042	5,8,10,15,(10),(15)	21	---	1500	40.5	30.0	10.00	---	9.40
	F2FP048	10,15,20,25,(10),(15)	24	---	1450	41.5	30.7	10.30	---	9.65
E4FD048	F2FP048	10,15,20,25,(10),(15)	24	---	1650	46.0	34.0	10.00	---	9.40
E4FD060	F2FP060	10,15,20,25,(10),(15)	24	---	1800	57.5	43.1	10.00	---	9.60
	F2FV060	10,15,20,25,(10),(15)	24	---	1800	59.0	44.2	11.00	---	10.50

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ARI Standards 210/240.

Cooling MBH based on 80°F entering air temperature, 50% RH, and rated air flow.

EER (Energy Efficiency Ratio) is the total cooling output in BTU's at a 95°F outdoor ambient divided by the total electric power in watt-hours at those conditions.

SEER (Seasonal Energy Efficiency Ratio) is the total cooling output in BTU's during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. G2FD coils available with a factory installed horizontal drain pan. See price pages for specific model number.
2. Single phase units require single phase 2HK heaters.
3. TXV = Use 1TV700 Series Kit.
4. To meet R=4.2 insulation requirements, substitute F2FP for F2RP, and F2FC for F2RC. models. All ratings remain the same.
5. FG8, FG9, and FL8 furnaces and F2RP / F2FP/F2FV air handlers have B.O.D (Blower on Delay) standard.  
- = Not applicable

**COOLING CAPACITY - Upflow, Downflow, & Horizontal Furnaces and Coils**

UNIT MODEL	FURNACE**		COIL MODEL	COOLING					
	CFM RANGE (MIN.-MAX.)	W		RATED CFM	NET MBH		SEER W/O TXV <sup>1</sup>	SEER + TXV <sup>1</sup>	EER
					TOTAL	SENS.			
E4FD018S06	575 725	14,17	G1FA024S14,17	650	18.5	13.8	10.20	-	10.20
		14	G1FA030S14	650	19.0	14.1	10.70	-	10.50
		14,17	G1UA024S14,17	650	18.5	13.7	10.50	-	10.20
		14	G1UA030S14	650	19.0	14.1	10.70	-	10.50
		-	G1HD024	650	18.8	14.0	10.50	-	10.45
		14,17	G2FD024(S,H)14,17	650	18.8	14.0	10.50	-	10.35
		17	G2FD030(S,H)17	650	19.0	14.1	10.50	-	10.50
E4FD024S06	750 950	14	G1FA030S14	850	23.0	17.7	10.00	-	9.15
		17,21	G1FA036S17,21	850	23.4	18.0	10.30	-	9.65
		14	G1UA030S14	850	23.0	17.7	10.00	-	9.15
		17,21	G1UA036S17,21	850	23.4	18.0	10.30	-	9.65
		-	G1HD024	800	23.0	17.7	10.00	-	9.45
		14,17	G2FD024(S,H)14,17	800	23.0	17.7	10.00	-	9.15
		17	G2FD030(S,H)17	850	23.4	18.0	10.30	-	9.65
E4FD030S06	900 1150	17	G2FD036(S,H)17	850	23.4	18.0	10.25	-	9.35
		17,21	G1FA036S17,21	1025	29.0	21.8	10.50	-	9.30
		17,21	G1UA036S17,21	1025	29.0	21.8	10.50	-	9.30
		-	G1HD036	1000	29.0	21.8	10.40	-	9.55
		17	G2FD030(S,H)17	1025	29.0	21.8	10.50	-	9.30
		14	G2FD035(S,H)14	1000	29.0	21.8	10.50	-	9.30
		17	G2FD036(S,H)17	1025	29.4	22.1	11.00	-	9.40
E4FD036S06	1050 1350	21	G2FD036(S,H)21	1025	29.4	22.1	11.00	-	9.40
		21,24	G1FA048S21	1250	35.6	26.7	10.30	-	9.20
		21,24	G1UA048S21	1250	35.6	26.7	10.30	-	9.20
		17,21	G2FD036(S,H)17,21	1200	35.0	26.3	10.00	-	8.90
		21	G2FD042(S,H)21	1200	35.6	26.7	10.30	-	9.20
E4FD036S25,46	1050 1350	17	G2FD046(S,H)17	1200	35.6	26.7	10.30	-	9.20
		21,24	G1FA048S21	1200	35.6	26.7	10.00	-	9.20
		21,24	G1UA048S21	1200	35.6	26.7	10.00	-	9.20
		17,21	G2FD036(S,H)17,21	1200	35.0	26.3	10.00	-	8.90
		21	G2FD042(S,H)21	1200	35.6	26.7	10.00	-	9.20
E4FD042S06	1275 1625	17	G2FD046(S,H)17	1200	35.6	26.7	10.00	-	9.20
		21,24	G1FA048S21	1450	41.5	30.7	10.50	-	9.70
		21,24	G1UA048S21	1450	41.5	30.7	10.50	-	9.70
		-	G1HD048	1400	41.0	30.3	10.10	-	9.25
		-	G1HD060	1400	42.5	31.5	10.30	-	9.45
		21	G2FD042(S,H)21	1400	40.5	30.0	10.00	-	9.15
		17	G2FD046(S,H)17	1450	41.0	30.3	10.00	-	9.20
		21,24	G2FD048(S,H)21,24	1450	41.5	30.7	10.10	-	9.25
E4FD048S06	1400 1800	24	G2FD060(S,H)24	1450	42.0	31.3	10.10	-	9.45
		21,24	G1FA048S21	1600	46.0	34.0	10.70	-	9.45
		21,24	G1FA060S21,24	1600	47.0	34.8	10.80	-	9.60
		21,24	G1UA048S21	1600	46.0	34.0	10.70	-	9.45
		21,24	G1UA060S21,24	1600	47.0	34.8	10.80	-	9.60
		-	G1HD048	1600	45.0	33.3	10.50	-	9.40
		-	G1HD060	1620	46.5	34.4	10.70	-	9.60
		21,24	G2FD048(S,H)21,24	1600	45.5	33.7	10.50	-	9.40
24	G2FD060(S,H)24	1600	47.0	34.8	10.80	-	9.65		

For Notes see Page 5.

**COOLING CAPACITY - Upflow, Downflow, & Horizontal Furnaces and Coils (Continued)**

UNIT MODEL	FURNACE**		COIL MODEL	COOLING					
	CFM RANGE (MIN.-MAX.)	W		RATED CFM	NET MBH		SEER W/O TXV <sup>1</sup>	SEER + TXV <sup>1</sup>	EER
					TOTAL	SENS.			
E4FD048S25,46	1400 1800	21,24	G1FA048S21	1600	46.0	34.0	10.70	-	9.45
		21,24	G1FA060S21,24	1600	47.0	34.0	10.80	-	9.60
		21,24	G1UA048S21	1600	46.0	34.0	10.70	-	9.45
		21,24	G1UA060S21,24	1600	47.0	34.8	10.80	-	9.60
		-	G1HD048	1600	45.0	33.3	10.50	-	9.40
		-	G1HD060	1620	46.5	34.4	10.70	-	9.60
		21,24	G2FD048(S,H)21,24	1600	45.5	33.7	10.50	-	9.40
24	G2FD060(S,H)24	1600	47.0	34.8	10.80	-	9.65		
E4FD060S06	1600 2100	21,24	G1FA060S21,24	1800	58.5	43.3	10.50	-	9.90
		21,24	G1UA060S21,24	1800	58.5	43.3	10.50	-	9.90
		-	G1HD060	1800	57.0	42.2	10.50	-	9.20
		24	G2FD060S24	1800	59.0	43.7	11.00	-	9.90
E4FD060S25,46	1600 2100	21,24	G1FA060S21,24	1800	58.5	43.3	10.50	-	9.90
		21,24	G1UA060S21,24	1800	58.5	43.3	10.50	-	9.90
		-	G1HD060	1800	57.0	42.2	10.50	-	9.20
		24	G2FD060(S,H)24	1800	59.0	43.7	11.00	-	9.90

- 1. TXV = Use 1TV700 Series Kit.
- \* Requires a 2FD Blower Time Delay unless a standard furnace is equipped with one.
- \*\* Refer to Quick Selection Chart for specific furnace match-up.

**HEATING PERFORMANCE - With Air Handler and Multi-Position Coils**

UNIT MODEL	COIL MODEL <sup>1</sup>	ARI HEATING <sup>2</sup>						OUTDOOR TEMP <sup>3</sup>													
		47° F		17° F		HSPF		-3°F		7°F		17° F		27°F		37°F		47°F		57°F	
		MBH	COP	MBH	COP	STD	VS	MBH	KW	MBH	KW	MBH	KW	MBH	MBH	MBH	KW	MBH	KW	MBH	KW
<b>1 AND 3 PHASE HP / AIR HANDLERS &amp; COILS</b>																					
E4FD018	F2RP/F2FP018	17.6	3.00	10	2.00	7.10	--	4.4	1.09	7.2	1.1	10	1.25	12.4	1.3	15	1.42	17.6	1.53	21	1.75
	F2RP/F2FP024	17.8	3.10	10	2.00	7.10	--	4.8	1.05	7.4	1.09	10	1.25	12.6	1.31	15.6	1.4	17.8	1.5	21.2	1.73
	G2FD024(S,H)14, 17	18	3.06	9.9	2.00	7.10	7.2	5	1.02	7.6	1.1	9.9	1.23	12.8	1.32	15.6	1.38	18	1.52	22	1.72
E4FD024	F2RP/F2FP024	22.4	3.10	12.5	2.00	7.35	--	6.1	1.5	9.3	1.6	12.5	1.75	15.6	1.92	18.8	2.02	22.4	2.13	27.1	2.23
	F2RP/F2FP030	22.8	3.20	12.8	2.10	7.40	--	6.3	1.55	9.4	1.68	12.8	1.68	16	1.9	19	2	22.8	2.14	27.7	2.3
	G2FD024(S,H)14, 17	22.4	3.10	12.2	2.00	7.60	7.7	6.3	1.5	9.3	1.5	12.2	1.7	16	1.89	19.2	2.05	22.4	2.12	27	2.4
	G2FD030(S,H)17	22.6	3.10	12.4	2.00	7.10	7.2	6.5	1.4	9.6	1.46	12.4	1.7	16	1.92	19	2.07	22.6	2.14	28	2.33
G2FD035(S,H)14	22.4	3.10	12.4	2.00	7.10	--	6.6	1.5	9.8	1.6	12.4	1.7	16.2	1.9	19.2	2.06	22.4	2.15	28	2.3	
E4FD030	F2RP/F2FP030	29	3.20	17	2.30	7.60	--	10.4	2	13.8	2.1	17	2.23	21.2	2.35	24.8	2.48	29	2.58	34.2	2.68
	F2RP/F2FP036	28.4	3.20	17.4	2.30	7.50	--	10.2	1.95	13.6	2.11	17.4	2.22	22	2.37	24.8	2.5	28.4	2.57	34.6	2.69
	G2FD030(S,H)17	29.2	3.20	17	2.30	7.60	7.8	10.4	2	13.8	2.18	17	2.21	21.8	2.4	25	2.6	29.2	2.58	34.2	2.67
	G2FD035(S,H)14	29.2	3.20	17	2.30	7.60	--	10.7	1.98	14	2.15	17	2.23	24	2.42	25.8	2.48	29.2	2.58	34.4	2.65
	G2FD036(S,H)17, 21	29.2	3.20	17.4	2.30	7.60	7.7	10.8	2	14.2	2.11	17.4	2.22	24	2.4	25.6	2.48	29.2	2.54	34.6	2.67
E4FD036	F2RP/F2FP036	35.2	3.20	21	2.30	7.50	--	10.8	2.5	15.4	2.63	21	2.8	24.8	2.95	28.4	3	35.2	3.2	43.2	3.47
	F2RP/F2FP042	35.2	3.20	20	2.10	7.50	--	10.8	2.5	15.6	2.6	20	2.6	25	2.94	28.6	3	35.2	3.2	43.2	3.4
	G2FD042(S,H)21	35	3.20	20	2.10	7.40	7.6	10.8	2.2	15.4	2.62	20	2.6	25	2.76	28.8	2.95	35	3.2	43.2	3.45
	G2FD046(S,H)17	35	3.20	20	2.10	7.40	7.6	10.8	2.2	15.8	2.6	20	2.7	25.2	2.76	28.8	2.95	35	3.2	44	3.46
	G2FD036(S,H)17, 21	35.2	3.20	21	2.30	7.50	7.6	10.6	2.5	15.4	2.64	21	2.6	25	2.8	28.6	2.98	35.2	3.2	43	3.4
E4FD042	F2RP/F2FP042	39.5	3.20	22.6	2.20	7.4	-	11.7	2.50	17.2	2.76	22.6	3.00	28.0	3.26	33.9	3.50	39.5	3.62	48.7	4.01
	F2FP048	40.5	3.30	23.8	2.28	7.5	-	13.1	2.60	18.5	2.84	23.8	3.10	29.1	3.28	35.0	3.50	40.5	3.60	49.8	4.00
	G2FD042(S,H)21	39.0	3.24	23.2	2.2	7.4	-	13.4	2.81	18.3	2.95	23.2	3.09	28.1	3.23	33.6	3.39	39.0	3.53	46.7	3.76
	G2FD046(S,H)17	39.0	3.28	23.2	2.20	7.4	-	13.0	2.80	18.1	2.92	23.2	3.10	28.3	3.26	33.8	3.40	39.0	3.46	47.8	3.80
	G2FD048(S,H)21,24	39.5	3.40	23.4	2.28	7.4	7.5	13.1	2.50	18.2	2.67	23.4	2.90	28.6	3.04	34.2	3.20	39.5	3.31	48.6	3.60
E4FD048	F2FP048	47.0	3.30	28.0	2.3	7.8	-	15.7	3.16	21.8	3.36	28.0	3.57	34.2	3.77	40.9	4.00	47.0	4.17	56.1	4.50
	G2FD048(S,H)21,24	47.0	3.50	28.0	2.32	8.0	8.0	16.1	3.30	22.1	3.40	28.0	3.50	33.9	3.67	40.7	3.80	47.0	3.96	54.8	4.20
	G2FD060(S,H)24	47.0	3.46	28.0	2.32	8.0	8.0	16.1	3.3	22.0	3.41	28.0	3.50	34.0	3.67	40.7	3.80	47.0	3.94	54.9	4.10
E4FD060	F2FP060	61	3.30	39	2.40	8.20	--	21.4	4.5	30.1	4.6	39	4.75	43	4.9	52.1	5.1	61	5.3	63	3.47
	F2FV060	60	3.30	39	2.40	8.20	--	21.1	4.3	31	4.7	39	4.8	43.2	4.91	52.3	5.09	60	5.25	63.2	3.4
	G2FD060(S,H)24	60	3.40	39	2.40	8.50	8.5	21.1	4.4	26.2	4.6	38	4.7	43	4.85	51.8	5.1	60	5.3	63	3.45

- 1. Rated CFM same as for cooling.
- 2. Heating performance and efficiency is the same for TXV application. Heating MBH based on 70° DB entering indoor air, 72% RH outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.
- 3. Integrated heating capacities include the effect of defrost cycles in the temperature range where they occur.

## HEATING PERFORMANCE - With Furnace Coils

UNIT MODEL	COIL <sup>1</sup>	ARI HEATING <sup>2</sup>						OUTDOOR TEMP <sup>3</sup>													
		47° F		17° F		HSPF		-3°F		7°F		17° F		27°F		37°F		47°F		57°F	
		MBH	COP	MBH	COP	STD	VS	MBH	KW	MBH	KW	MBH	KW	MBH	MBH	MBH	KW	MBH	KW	MBH	KW
<b>1 AND 3 PHASE EFD / UPFLOW FURNACE &amp; COILS</b>																					
E4FD018	G1HD024	18.2	3.08	9.9	2.00	7.1	-	4.3	1.25	7.1	1.35	9.9	1.45	12.7	1.55	15.5	1.65	18.2	1.73	21.5	1.79
	G1FA024S17	18.0	3.00	9.9	2.00	7.1	-	4.4	1.23	7.2	1.34	9.9	1.45	12.6	1.56	15.5	1.67	18.0	1.76	21.6	1.88
	G1UA024S17	18.0	3.00	9.9	2.00	7.1	-	4.4	1.23	7.2	1.34	9.9	1.45	12.6	1.56	15.5	1.67	18.0	1.76	21.6	1.88
	G1FA030S14	18.2	3.06	9.9	2.00	7.1	-	4.3	1.25	7.1	1.35	9.9	1.45	12.7	1.55	15.5	1.65	18.2	1.74	21.5	1.81
	G1UA030S14	18.2	3.06	9.9	2.00	7.1	-	4.3	1.25	7.1	1.35	9.9	1.45	12.7	1.55	15.5	1.65	18.2	1.74	21.5	1.81
E4FD024	G1HD024	22.0	3.00	12.2	2.00	7.5	-	5.8	1.55	9.0	1.67	12.2	1.8	15.4	1.91	18.6	2.03	22.0	2.15	26.7	2.30
	G1FA030S14	22.0	2.94	12.2	2.00	7.6	-	5.8	1.51	9.0	1.65	12.2	1.79	15.4	1.93	18.6	2.06	22.0	2.19	26.7	2.35
	G1UA030S14	22.0	2.94	12.2	2.00	7.6	-	5.8	1.51	9.0	1.65	12.2	1.79	15.4	1.93	18.6	2.06	22.0	2.19	26.7	2.35
	G1FA036S17,21	22.4	3.00	12.4	2.00	7.1	-	5.9	1.57	9.1	1.69	12.4	1.82	15.7	1.94	18.9	2.07	22.4	2.19	27.2	2.33
	G1UA036S17,21	22.4	3.00	12.4	2.00	7.1	-	5.9	1.57	9.1	1.69	12.4	1.82	15.7	1.94	18.9	2.07	22.4	2.19	27.2	2.33
E4FD030	G1HD036	29.6	3.36	18.3	2.36	7.8	-	10.9	2.03	14.6	2.5	18.3	2.27	22.0	2.39	26.0	2.51	29.6	2.58	35.4	2.75
	G1FA036S17,21	29.2	3.20	17.0	2.30	8.0	-	10.2	1.99	13.9	2.11	17.5	2.23	21.1	2.35	23.7	2.41	28.4	2.55	33.1	2.72
	G1UA036S17,21	29.2	3.20	17.0	2.30	8.0	-	10.2	1.99	13.9	2.11	17.5	2.23	21.1	2.35	23.7	2.41	28.4	2.55	33.1	2.72
E4FD036	G1HD036	36.4	3.28	20.4	2.38	7.4	-	9.7	2.01	15.1	2.26	20.4	2.51	25.7	2.77	29.7	2.95	36.4	3.25	44.6	3.56
	G1FA048S21	35.0	3.2	20.0	2.10	7.4	-	8.9	1.93	14.7	2.21	20.4	2.49	26.1	2.77	30.0	2.97	37.0	3.29	44.8	3.62
	G1UA048S21	35.0	3.2	20.0	2.10	7.4	-	8.9	1.93	14.7	2.21	20.4	2.49	26.1	2.77	30.0	2.97	37.0	3.29	44.8	3.62
E4FD042	G1HD048	39.5	3.32	23.4	2.28	7.4	-	13.0	2.60	18.2	2.81	23.4	3.01	28.6	3.21	34.2	3.39	39.5	3.49	48.3	3.84
	G1HD060	39.5	3.36	23.4	2.28	7.4	-	13.1	2.63	18.3	2.82	23.4	3.01	28.5	3.20	34.2	3.36	39.5	3.45	48.5	3.77
	G1FA048S21	39.5	3.40	23.4	2.34	7.4	-	12.8	2.68	18.1	2.84	23.4	3.01	28.7	3.20	32.8	3.27	40.0	3.49	48.2	3.74
	G1UA048S21	39.5	3.40	23.4	2.34	7.4	-	12.8	2.68	18.1	2.84	23.4	3.01	28.7	3.20	32.8	3.27	40.0	3.49	48.2	3.74
E4FD048	G1HD048	47.0	3.48	28.0	2.32	8.0	-	13.3	2.73	18.4	2.87	23.4	3.01	28.4	3.13	34.2	3.31	39.5	3.45	46.3	3.65
	G1HD060	47.0	3.46	28.0	2.32	8.0	-	16.1	3.23	22.0	3.39	28.0	3.54	34.0	3.69	40.7	3.85	47.0	3.98	54.9	4.18
	G1FA048S17,21	47.0	3.42	28.0	2.30	8.0	-	15.1	3.24	21.5	3.40	28.0	3.57	34.5	3.73	39.1	3.83	47.0	4.03	56.0	4.27
	G1UA048S17,21	47.0	3.42	28.0	2.30	8.0	-	15.1	3.24	21.5	3.40	28.0	3.57	34.5	3.73	39.1	3.83	47.0	4.03	56.0	4.27
	G1FA060S24	47.0	3.46	28.0	2.32	8.0	-	15.1	3.21	21.5	3.37	28.0	3.54	34.5	3.70	39.1	3.79	47.0	3.98	56.0	4.21
	G1UA060S24	47.0	3.46	28.0	2.32	8.0	-	15.1	3.21	21.5	3.37	28.0	3.54	34.5	3.70	39.1	3.79	47.0	3.98	56.0	4.21
E4FD060	G1HD060	60.0	3.10	38.0	2.40	8.2	-	18.1	4	26.2	4.5	38	4.95	43.1	4.9	52	5.1	60	3.25	72.1	5.9
	G1FA060S21,24	61.5	3.40	39.0	2.40	8.2	-	18.2	4	26.5	4.4	39	4.98	43.2	4.85	52.1	5.2	61.5	3.26	73.1	5.95
	G1UA060S21,24	61.5	3.40	39.0	2.40	8.2	-	18.2	4	26.5	4.4	39	4.98	43.2	4.85	52.1	5.2	61.5	3.26	73.1	5.95

1. Rated CFM same as for cooling.
2. Heating performance and efficiency is the same for TXV application. Heating MBH based on 70° DB entering indoor air, 72% RH outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.
3. Integrated heating capacities include the effect of defrost cycles in the temperature range where they occur.

**ACCESSORIES**

Refer to Price Manual for specific model numbers.

**Start Assist Kit (2SA067\*)**

**Blower Time Delay** - Available to increase efficiency when installed. Installs on indoor section and maintains blower for approximately one minute after cooling thermostat has been satisfied.

**Hard Start Kits** - Provides required starting torque for use with Thermal Expansion Valve Kit.

**Low Temperature Cutout (2LT06700224)** - Prevents heat pump operation below -10°F ambient temperature.

**Compressor Blanket** - Designed to further reduce the normal operating sound.

**Add-on Control (2AC02700701)** - Provides interface for use of gas and oil furnaces with the heat pump system.

**Thermal Expansion Valve Kit** - 1TV0700 Series TXV kit used to improve system performance.

**Outdoor Thermostat (2TD06700124)** - Provides additional staging of supplemental electric heat.

**Room Thermostats** - A wide selection of matching thermostats is available to provide features required for any installation.

2H/1C, manual change-over electronic non-programmable thermostat.

3H/2C, non-programmable digital thermostat.

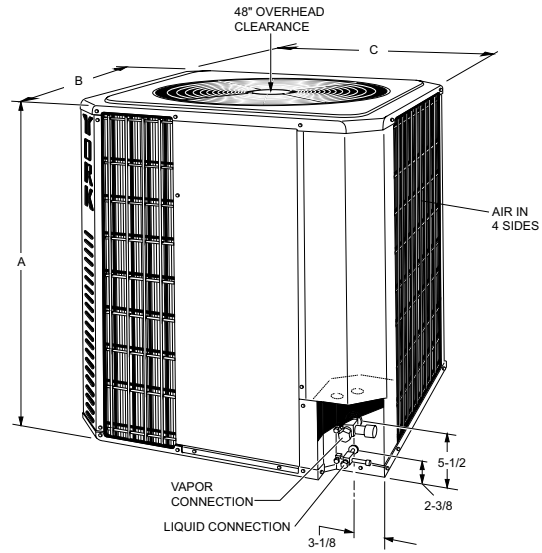
3H/2C, auto/manual changeover, electronic programmable, 7-day, thermostat.

\* For the most current accessory information, refer to the price book or consult factory.

**SOUND RATINGS**

EFD MODEL	SOUND RATING DECIBELS*
018	73
024	74
030	74
036	76 <sup>1</sup>
042	78 <sup>1</sup>
048	78 <sup>1</sup>
060	78 <sup>1</sup>
076	78 <sup>1</sup>

1. Compressor Blanket Factory Installed.  
 \* Rated in accordance with ARI Standard 270.

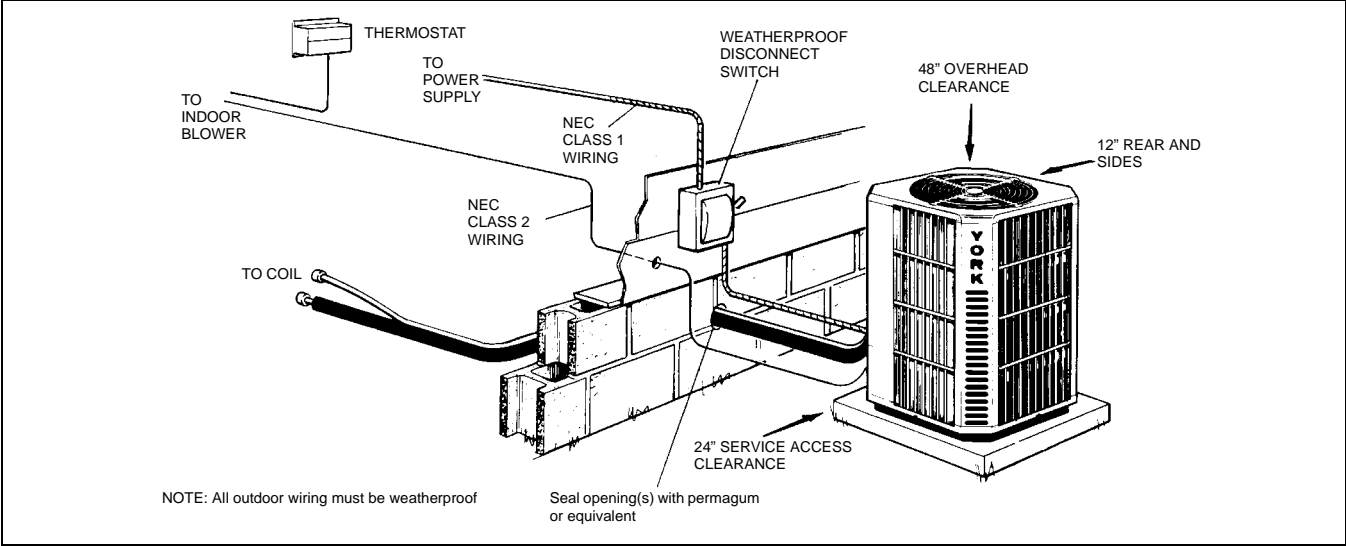


All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

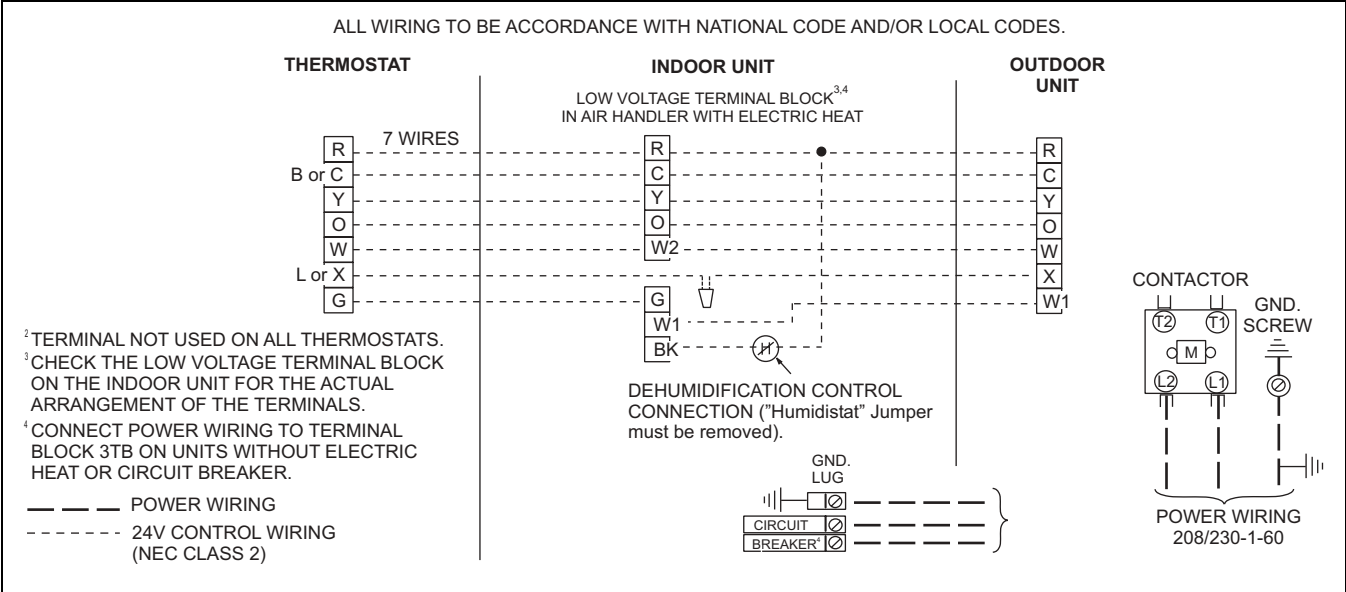
UNIT MODEL EFD	DIMENSIONS			REFRIGERANT CONNECTION LINE SIZE	
	A	B	C	LIQUID	VAPOR
018	30-1/8	24	24	3/8	5/8
024	30-1/8	24	24		3/4
030	30-1/8	24	24		7/8
036	30-1/8	24	24		
042	31-7/8	35	35		
048	31-7/8	35	35		
060	37-7/8	35	35		



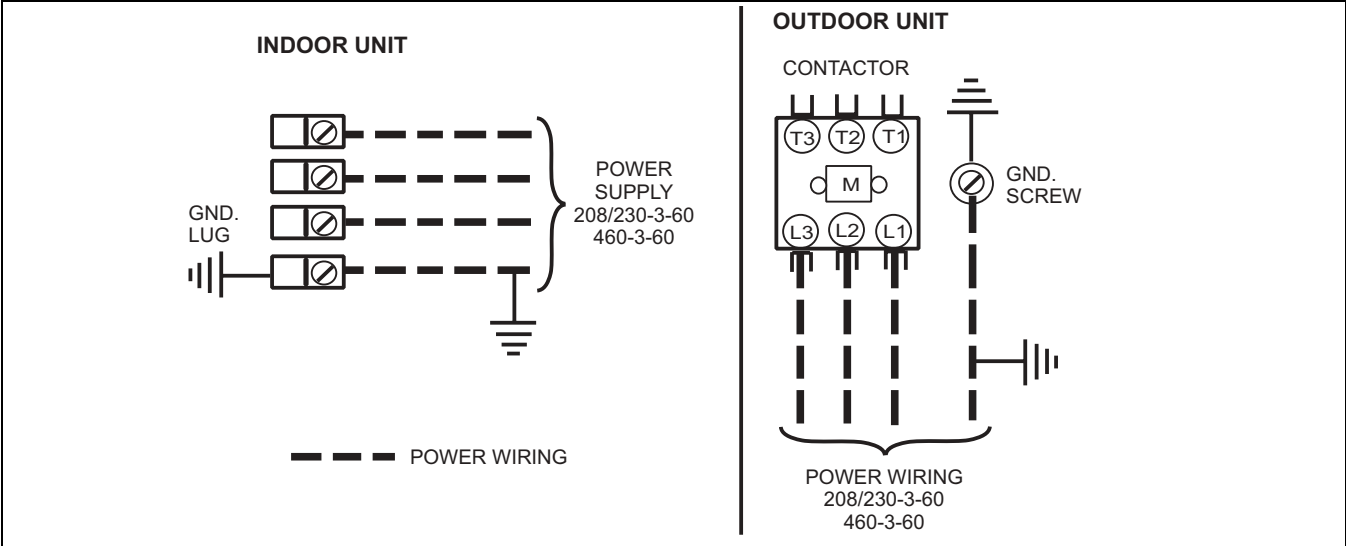
**TYPICAL INSTALLATION**



**TYPICAL FIELD WIRING - 1 Phase (Air Handler / Electrical Heat)**



**TYPICAL FIELD WIRING - 3 Phase (Air Handler / Electrical Heat)**



<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD018S06</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2RP/F2FP018</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	600				650				700			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	22.3	20.4	18.6	17.0	22.4	20.6	18.8	17.2	22.6	20.7	18.9	17.4
	S.C.	14.7	14.8	14.9	15.1	15.2	15.3	15.5	15.6	15.8	15.8	15.9	16.1
	K.W.	1.51	1.54	1.54	1.53	1.52	1.56	1.56	1.56	1.56	1.59	1.61	1.60
85	T.C.	21.0	19.2	17.4	15.9	21.2	19.3	17.5	16.1	21.3	19.4	17.6	16.3
	S.C.	14.0	14.0	14.1	14.3	14.5	14.4	14.6	14.8	14.9	14.9	15.0	15.2
	K.W.	1.59	1.60	1.58	1.56	1.61	1.62	1.61	1.58	1.65	1.66	1.65	1.62
95	T.C.	19.4	17.6	15.9	14.6	19.5	17.8	16.0	14.8	19.7	17.9	16.1	14.9
	S.C.	13.0	12.9	13.0	13.2	13.4	13.4	13.4	13.6	13.8	13.8	13.8	14.0
	K.W.	1.70	1.68	1.65	1.62	1.72	1.70	1.67	1.64	1.76	1.75	1.72	1.69
105	T.C.	17.6	15.7	14.2	12.7	17.6	16.0	14.3	12.9	17.8	16.1	14.4	13.3
	S.C.	11.7	11.6	11.6	11.2	11.9	12.0	12.0	11.5	12.3	12.4	12.3	12.5
	K.W.	1.80	1.75	1.72	1.69	1.82	1.80	1.74	1.71	1.86	1.85	1.78	1.74
115	T.C.	15.8	13.8	12.5	10.8	15.7	14.2	12.6	11.0	15.9	14.3	12.7	11.7
	S.C.	10.4	10.3	10.2	9.2	10.4	10.6	10.6	9.4	10.8	11.0	10.8	11.0
	K.W.	1.90	1.82	1.79	1.76	1.92	1.90	1.81	1.78	1.96	1.95	1.84	1.79
125	T.C.	14.0	11.9	10.8	8.9	13.8	12.4	10.9	9.1	14.0	12.5	11.0	10.1
	S.C.	9.1	9.0	8.8	7.2	8.9	9.2	9.2	7.3	9.3	9.6	9.3	9.5
	K.W.	2.00	1.89	1.86	1.83	2.02	2.00	1.88	1.85	2.06	2.05	1.90	1.84

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHB08	G2FD024(S,H)17	1.03	1.03	1.00
N1VSB12	G2FD024(S,H)17	1.07	1.07	1.00
F2RP/F2FP024		1.01	1.01	1.06
	G1UA024S14	1.02	1.02	1.06
	G1UA024S17	1.02	1.02	1.06
	G2FD024(S,H)14	1.03	1.03	1.06
	G2FD024(S,H)17	1.03	1.03	1.06
	G1UA030S14	1.03	1.03	1.06
	G1HD024	1.01	1.01	1.06
	G1FA024S14	1.02	1.02	1.06
	G1FA024S17	1.02	1.02	1.06
	G1FA030S14	1.03	1.03	1.06

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD024S06</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2RP/F2FP024</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	750				800				850			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	27.0	24.8	22.6	20.4	27.3	25.3	22.7	20.5	27.9	25.2	22.9	20.7
	S.C.	17.3	17.3	17.5	17.2	17.5	17.9	17.7	17.6	18.2	18.0	18.1	18.0
	K.W.	1.94	1.91	1.87	1.81	1.97	1.93	1.88	1.83	2.01	0.43	1.91	1.86
85	T.C.	26.7	24.3	22.0	19.9	26.6	24.5	22.0	19.8	26.8	24.4	22.1	20.2
	S.C.	17.4	17.3	17.4	17.3	17.5	17.7	17.5	17.4	17.8	17.8	17.9	18.1
	K.W.	2.12	2.06	2.00	1.94	2.13	2.08	2.01	1.92	2.16	2.11	2.05	1.99
95	T.C.	24.7	22.5	20.3	18.3	24.9	22.6	20.4	18.4	24.9	22.7	20.5	18.8
	S.C.	16.7	16.7	16.7	16.6	17.1	17.0	17.1	17.0	17.4	17.4	17.5	17.8
	K.W.	2.24	2.18	2.12	2.05	2.26	2.20	2.13	2.06	2.30	2.24	2.17	2.11
105	T.C.	22.5	20.5	18.4	17.0	22.6	20.6	18.6	17.0	22.7	20.7	18.6	17.1
	S.C.	16.1	16.0	16.0	16.3	16.5	16.4	16.5	16.5	16.9	16.8	16.7	16.9
	K.W.	2.38	2.30	2.23	2.16	2.39	2.32	2.24	2.20	2.42	2.36	2.29	2.24
115	T.C.	20.3	18.4	16.9	15.2	20.4	18.4	17.0	15.6	20.4	18.5	17.1	15.8
	S.C.	15.5	15.4	15.8	15.4	16.0	15.7	16.2	16.2	16.2	16.2	16.6	16.4
	K.W.	2.51	2.43	2.36	2.28	2.52	2.45	2.38	2.30	2.57	2.49	2.41	2.34
125	T.C.	18.1	16.3	15.4	13.4	18.2	16.2	15.4	14.2	18.1	16.3	15.6	14.5
	S.C.	24.5	20.8	17.8	14.1	24.3	20.4	17.5	14.7	23.9	20.2	17.5	14.7
	K.W.	2.64	2.56	2.49	2.40	2.65	2.58	2.52	2.40	2.72	2.62	2.53	2.44

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHB08	G2FD024(S,H)17	1.02	1.02	1.00
N1AHB08	G2FD030(S,H)17	1.04	1.04	1.00
N1AHB08	G2FD035(S,H)14	1.04	1.04	1.00
N1VSB12	G2FD024(S,H)17	1.04	1.04	0.91
N1VSB12	G2FD030(S,H)17	1.06	1.06	0.95
F2RP/F2FP030		1.03	1.02	1.05
	G2FD024(S,H)14	1.02	1.05	1.00
	G2FD024(S,H)17	1.02	1.05	1.00
	G1HD024	1.02	1.02	1.00
	G1UA030S14	1.02	1.02	1.00
	G1UA036S17	1.04	1.04	1.00
	G1UA036S21	1.04	1.04	1.00
	G2FD030(S,H)17	1.04	1.04	1.00
	G2FD035(S,H)14	1.04	1.04	1.00
	G1FA030S14	1.02	1.02	1.00
	G1FA036S17	1.04	1.04	1.00
	G1FA036S21	1.04	1.04	1.00

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD030S06</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2RP/F2FP030</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	1000				1050				1100			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	34.3	31.3	28.4	25.6	34.8	31.8	28.8	26.0	35.1	32.1	29.1	26.3
	S.C.	21.4	21.3	21.4	21.3	22.2	22.1	22.2	22.1	22.8	22.8	22.9	22.8
	K.W.	2.37	2.30	2.22	2.15	2.41	2.34	2.27	2.20	2.46	2.38	2.31	2.24
85	T.C.	33.5	30.6	27.7	25.0	34.0	31.1	28.1	25.4	34.3	31.3	28.4	25.6
	S.C.	21.3	21.3	21.3	21.3	22.2	22.2	22.2	22.2	23.0	22.9	23.0	23.0
	K.W.	2.63	2.55	2.46	2.37	2.68	2.60	2.50	2.42	2.72	2.64	2.55	2.46
95	T.C.	31.4	28.6	25.9	23.4	31.8	29.0	26.3	24.1	32.0	29.3	26.5	24.5
	S.C.	20.9	20.8	21.0	20.9	21.8	21.8	22.0	22.4	22.7	22.7	22.9	23.2
	K.W.	2.84	2.75	2.65	2.56	2.89	2.80	2.70	2.62	2.93	2.84	2.74	2.67
105	T.C.	28.9	26.4	23.9	21.9	29.2	26.7	24.5	22.2	29.4	26.9	24.8	22.9
	S.C.	20.4	20.3	20.6	20.8	21.4	21.3	22.0	21.7	22.4	22.3	22.9	23.1
	K.W.	3.05	2.95	2.84	2.75	3.09	3.00	2.90	2.80	3.14	3.04	2.95	2.87
115	T.C.	26.3	24.0	21.9	20.2	26.5	24.2	22.2	20.6	26.6	24.6	22.4	21.0
	S.C.	19.8	19.7	20.1	20.3	20.9	20.9	21.0	20.7	21.9	22.1	21.9	21.1
	K.W.	3.24	3.13	3.03	2.94	3.29	3.18	3.08	3.00	3.33	3.23	3.13	3.06
125	T.C.	23.7	21.6	19.9	18.5	23.8	21.7	19.9	19.0	23.8	22.3	20.0	19.1
	S.C.	19.2	19.1	19.6	19.8	20.4	20.5	20.0	19.7	21.4	21.9	20.9	19.1
	K.W.	3.43	3.31	3.22	3.13	3.49	3.36	3.26	3.20	3.52	3.42	3.31	3.25

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHB12	G2FD030(S,H)17	1.00	1.00	1.04
N1AHB12	G2FD035(S,H)14	1.00	1.00	1.04
N1AHB12	G2FD036(S,H)17	1.01	1.01	1.04
N1AHB12	G2FD036(S,H)21	1.01	1.01	1.04
N1VSB12	G2FD036(S,H)17	1.03	1.03	1.04
N1VSB12	G2FD030(S,H)17	1.00	1.00	1.04
F2RP/F2FP036		1.01	1.01	1.04
	G2FD030(S,H)17	1.00	1.00	1.00
	G2FD035(S,H)14	1.00	1.00	1.04
	G1UA036S17	1.00	1.00	1.00
	G1UA036S21	1.00	1.00	1.00
	G2FD036(S,H)21	1.01	1.01	1.04
	G2FD036(S,H)17	1.01	1.01	1.04
	G1HD036	1.00	1.00	1.00
	G1FA036S17	1.00	1.00	1.00
	G1FA036S21	1.00	1.00	1.00

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD036S06, E4FD036S25, 46</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2RP/F2FP036</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	1100				1200				1300			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	40.6	37.3	34.1	31.0	41.0	37.7	34.4	31.4	40.9	37.6	34.7	31.6
	S.C.	24.5	24.5	24.8	24.7	25.2	25.2	25.5	25.4	25.4	25.4	26.1	26.1
	K.W.	3.05	2.98	2.90	2.82	3.09	3.02	2.94	2.86	3.19	3.11	3.04	2.96
85	T.C.	39.8	36.6	33.4	30.4	40.2	37.0	33.7	31.0	40.5	37.2	34.0	31.3
	S.C.	25.0	25.1	25.3	25.4	25.8	25.9	26.2	26.6	26.7	26.7	27.1	27.4
	K.W.	3.34	3.24	3.15	3.05	3.38	3.29	3.19	3.10	3.48	3.39	3.29	3.21
95	T.C.	36.9	33.9	30.9	28.3	37.2	34.2	31.4	28.6	37.4	34.4	31.6	29.0
	S.C.	24.6	24.7	25.0	25.1	25.6	25.7	26.1	26.0	26.6	26.6	27.0	27.2
	K.W.	3.56	3.46	3.35	3.25	3.60	3.50	3.40	3.30	3.70	3.60	3.50	3.40
105	T.C.	33.2	30.6	27.9	25.5	33.4	30.8	28.1	26.0	33.7	31.0	28.4	26.4
	S.C.	24.0	24.0	24.2	24.1	25.0	25.1	25.2	25.3	26.1	26.1	26.3	25.7
	K.W.	3.78	3.68	3.56	3.45	3.83	3.72	3.61	3.51	3.93	3.82	3.71	3.62
115	T.C.	29.2	26.9	24.6	22.8	29.4	27.1	24.8	23.2	29.5	27.3	25.2	23.5
	S.C.	22.6	22.7	22.7	22.2	23.7	23.7	23.8	22.5	24.7	24.7	24.5	22.8
	K.W.	3.99	3.86	3.75	3.64	4.03	3.90	3.79	3.70	4.13	4.00	3.91	3.82
125	T.C.	25.2	23.2	21.3	20.1	25.4	23.4	21.5	20.4	25.3	23.6	22.0	20.6
	S.C.	21.2	21.4	21.2	20.3	22.4	22.3	22.4	19.7	23.3	23.3	22.7	19.9
	K.W.	4.20	4.04	3.94	3.83	4.23	4.08	3.97	3.89	4.33	4.18	4.11	4.02

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHB12	G2FD036(S,H)17	1.02	1.02	1.00
N1AHB12	G2FD036(S,H)21	1.02	1.02	1.00
N1AHB12	G2FD042(S,H)17	1.04	1.04	1.00
N1AHB12	G2FD046(S,H)17	1.04	1.04	1.00
N1VSB12	G2FD036(S,H)17	1.04	1.04	0.89
N1VSB16	G2FD036(S,H)21	1.04	1.04	0.89
N1VSB12	G2FD046(S,H)17	1.06	1.06	0.91
N1VSC16	G2FD042(S,H)21	1.06	1.06	0.91
F2RP/F2FP042		1.02	1.02	0.97
	G1UA048S17	1.04	1.04	1.00
	G1UA048S21	1.04	1.04	1.00
	G1HD036	1.02	1.02	1.00
	G2FD036(S,H)17	1.02	1.02	0.97
	G2FD036(S,H)21	1.02	1.02	1.00
	G2FD042(S,H)21	1.04	1.04	1.00
	G2FD046(S,H)17	1.04	1.04	1.00
	G1HD036	1.02	1.02	0.80
	G1FA048S17	1.04	1.04	1.00
	G1FA048S21	1.04	1.04	1.00

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD042S06</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2RP/F2FP042</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	1400				1500				1600			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	47.0	42.9	38.8	35.0	47.4	43.2	39.1	35.7	47.6	43.5	39.4	36.0
	S.C.	28.8	28.8	29.0	28.9	29.6	29.6	29.8	30.2	30.3	30.3	30.5	30.8
	K.W	3.69	3.58	3.46	3.34	3.75	3.63	3.51	3.41	3.82	3.70	3.58	3.48
85	T.C.	46.4	42.3	38.2	34.7	46.7	42.6	38.5	35.0	46.9	42.8	38.7	35.3
	S.C.	29.3	29.3	29.5	29.6	30.1	30.1	30.3	30.5	31.0	30.9	31.2	31.3
	K.W	3.98	3.84	3.70	3.58	4.04	3.90	3.76	3.64	4.11	3.97	3.83	3.71
95	T.C.	44.1	40.2	36.3	32.9	44.5	40.5	36.7	33.2	44.6	40.6	37.0	33.6
	S.C.	28.9	28.9	29.2	29.2	30.0	30.0	30.3	30.1	30.8	30.8	31.2	31.1
	K.W	42.00	4.25	4.08	3.93	4.47	4.31	4.14	3.99	4.55	4.39	4.22	4.08
105	T.C.	41.3	37.6	34.0	30.8	41.5	37.8	34.3	31.1	41.6	38.0	34.4	31.8
	S.C.	28.3	28.3	28.5	28.4	29.3	29.3	29.6	29.2	30.2	30.2	30.4	30.4
	K.W	4.88	4.68	4.49	4.31	4.94	4.74	4.55	4.38	5.02	4.82	4.63	4.48
115	T.C.	38.1	34.7	31.4	28.8	38.3	34.9	31.6	29.2	38.5	35.0	31.8	29.5
	S.C.	27.3	27.3	27.4	27.6	28.3	28.3	28.3	28.0	29.4	29.1	29.2	28.3
	K.W	5.36	4.13	4.91	4.73	5.42	5.20	4.98	4.83	5.49	5.28	5.07	4.91
125	T.C.	34.9	31.8	28.8	26.8	35.1	32.0	28.9	27.3	35.4	32.0	29.2	27.2
	S.C.	26.3	26.3	26.3	26.8	27.3	27.3	27.0	26.8	28.6	28.0	28.0	26.2
	K.W	5.84	3.58	5.33	5.15	5.90	5.66	5.41	5.28	5.96	5.74	5.51	5.34

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHC16	G2FD042(S,H)21	1.00	1.00	1.03
N1AHC16	G2FD048(S,H)21	1.02	1.02	1.04
N1VSC16	G2FD048(S,H)21	1.04	1.04	0.97
F2FP048		1.02	1.02	1.00
	G2FD042(S,H)21	1.00	1.00	1.03
	G1UA048S21	1.02	1.02	0.99
	G1HD048S	1.01	1.01	1.03
	G2FD046(S,H)17	1.01	1.01	1.03
	G1HD060S	1.05	1.05	1.04
	G2FD048(S,H)21	1.02	1.02	1.04
	G2FD048(S,H)24	1.02	1.02	1.04
	G1FA048S21	1.02	1.02	0.99

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD048S06, E4FD048S25, 46</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2FP048</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	1450				1650				1750			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	54.3	50.2	46.1	42.3	55.0	50.8	46.6	42.8	55.4	51.2	47.1	43.5
	S.C.	33.3	33.6	34.1	34.3	34.7	35.0	35.5	35.6	36.0	36.2	36.8	37.4
	K.W.	4.15	4.09	4.02	3.96	4.25	4.18	4.11	4.05	4.48	4.41	4.34	4.28
85	T.C.	52.6	48.6	44.6	40.9	53.1	49.1	45.0	41.5	53.5	49.5	45.5	42.0
	S.C.	33.2	33.4	33.9	34.1	34.7	34.9	35.3	35.8	36.0	36.2	36.9	37.2
	K.W.	4.48	4.41	4.33	4.30	4.57	4.50	4.43	4.37	4.81	4.73	4.69	4.59
95	T.C.	49.5	45.7	41.8	38.5	49.8	46.0	42.4	39.0	50.1	46.3	42.7	39.3
	S.C.	32.5	32.7	32.9	33.3	33.8	34.0	34.7	34.8	35.4	35.6	36.2	36.2
	K.W.	4.84	4.77	4.71	4.63	4.95	4.88	4.80	4.73	5.18	5.10	5.02	4.95
105	T.C.	45.8	42.3	38.9	35.7	46.3	42.6	39.3	36.2	46.4	43.0	39.6	37.4
	S.C.	31.2	31.4	32.0	32.1	33.1	33.0	33.5	33.7	34.4	34.7	35.0	35.8
	K.W.	5.29	5.20	5.11	5.04	5.35	5.29	5.21	5.15	5.61	5.51	5.44	5.41
115	T.C.	42.0	38.9	35.8	33.0	42.4	39.3	36.1	34.1	42.4	39.3	36.5	34.6
	S.C.	29.8	30.2	30.6	30.8	31.7	31.9	32.2	32.7	32.9	32.8	33.8	33.2
	K.W.	5.78	5.65	5.58	5.52	5.84	5.75	5.68	5.61	6.13	6.06	5.91	5.84
125	T.C.	38.2	35.5	32.7	30.3	38.5	36.0	32.9	32.0	38.4	35.6	33.4	31.8
	S.C.	28.4	29.0	29.2	29.5	30.3	30.8	30.9	31.7	31.4	30.9	32.6	30.6
	K.W.	6.27	6.10	6.05	6.00	6.33	6.21	6.15	6.07	6.65	6.61	6.38	6.27

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
N1AHC16	G2FD048(S,H)21	0.99	0.99	0.99
N1AHD20	G2FD048(S,H)24	0.99	0.99	0.99
N1AHD20	G2FD060(S,H)24	1.02	1.02	1.00
N1VSC16	G2FD048(S,H)21	1.00	1.00	0.94
N1VSD20	G2FD060(S,H)24	1.04	1.04	0.93
	G1HD048S	0.98	0.98	0.98
	G2FD048(S,H)21	0.99	0.99	0.99
	G2FD048(S,H)24	0.99	0.99	0.99
	G1UA048S21	1.00	1.00	1.00
	G1UA060S21	1.02	1.02	1.00
	G1UA060S24	1.02	1.02	1.00
	G2FD060(S,H)24	1.02	1.02	1.00
	G1HD060	1.01	1.01	0.99
	G1FA048S21	1.00	1.00	1.00
	G1FA060S21	1.02	1.02	1.00
	G1FA060S24	1.02	1.02	1.00

<b>COOLING PERFORMANCE DATA</b>													
<b>AIR CONDITIONER MODEL NO.</b>		<b>E4FD060S06, E4FD060S25,46</b>											
<b>INDOOR COIL MODEL NO.</b>		<b>F2FP060</b>											
<b>CONDENSER ENTERING AIR TEMPERATURE</b>	ID CFM	1650				1800				1950			
	ID DB	85	80	75	70	85	80	75	70	85	80	75	70
	ID WB	72	67	62	57	72	67	62	57	72	67	62	57
75	T.C.	65.4	60.2	55.2	50.3	66.2	60.9	55.7	50.9	66.8	61.5	56.3	51.7
	S.C.	41.5	41.7	42.4	42.5	43.0	43.2	43.9	44.0	44.4	44.5	45.4	45.8
	K.W	5.23	5.13	5.04	4.96	5.24	5.15	5.06	4.97	5.27	5.18	5.07	5.02
85	T.C.	64.5	59.3	54.1	49.3	65.2	59.9	54.8	50.1	65.8	60.5	55.3	50.7
	S.C.	41.7	41.9	42.5	42.6	43.5	43.7	44.2	44.5	45.1	45.3	45.7	46.1
	K.W	5.68	5.57	5.46	5.36	5.68	5.58	5.48	5.39	5.71	5.59	5.49	5.40
95	T.C.	62.0	56.9	51.8	47.3	62.6	57.5	52.4	48.0	63.1	58.0	53.0	48.4
	S.C.	41.2	41.4	41.8	42.0	42.9	43.1	43.6	44.0	44.7	44.8	45.5	45.5
	K.W	6.09	5.98	5.87	5.76	6.10	5.99	5.88	5.77	6.11	6.01	5.90	5.80
105	T.C.	59.0	54.0	49.1	44.8	59.4	54.6	49.7	45.3	59.6	54.9	50.2	45.9
	S.C.	40.4	40.4	40.8	41.0	42.0	42.3	42.5	42.8	43.7	44.0	44.4	44.8
	K.W	6.50	6.40	6.28	6.17	6.53	6.41	6.29	6.18	6.57	6.43	6.31	6.20
115	T.C.	55.6	50.2	46.4	42.2	56.0	51.5	46.9	42.7	56.2	51.7	47.3	43.4
	S.C.	39.3	38.8	39.7	39.7	40.9	41.1	41.4	41.4	42.7	42.8	43.0	43.3
	K.W	6.95	6.72	6.71	6.60	6.97	6.85	6.74	6.61	7.02	6.86	6.76	6.63
125	T.C.	52.3	46.4	43.7	39.6	52.7	48.3	44.1	40.1	52.8	48.6	44.3	40.8
	S.C.	38.2	37.2	38.5	38.3	39.9	40.0	30.4	40.1	41.7	41.6	41.6	41.8
	K.W	7.40	7.05	7.14	7.03	7.41	7.29	7.18	7.04	7.47	7.29	7.21	7.06

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

#### Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2FV060		1.03	1.03	1.00
N1VSD20	G2FD060(S,H)24	1.04	1.04	0.94
N1AHD2006	G2FD060(S,H)24	1.03	1.02	0.89
	G1FA060S21,	1.00	0.99	1.00
	G1HD060	0.99	0.99	0.99
	G1UA060S21,	1.02	1.02	1.04
	G2FD060(S,H)24	1.03	1.02	0.99



<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD018S06</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2RP/F2FP018</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>600</b>			<b>650</b>			<b>700</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	21.1	1.78	3.56	21.7	1.78	3.66	21.9	1.65	4.00
	70	20.0	1.81	3.33	20.9	1.83	3.43	21.3	1.70	3.76
	80	18.9	1.84	3.08	20.0	1.88	3.20	20.5	1.76	3.50
47	60	18.3	1.65	3.26	18.5	1.67	3.25	18.7	1.57	3.48
	70	17.1	1.70	2.95	17.6	1.72	3.00	17.9	1.61	3.25
	80	15.7	1.75	2.64	16.6	1.77	2.74	17.0	1.65	3.01
40	60	14.8	1.32	3.25	16.8	1.61	3.03	17.5	1.51	3.36
	70	13.7	1.50	2.66	15.8	1.66	2.77	15.7	1.56	2.92
	80	12.7	2.00	1.84	14.7	1.72	2.50	13.9	1.89	2.14
30	60	14.0	1.52	2.67	14.4	1.53	2.72	14.1	1.40	2.91
	70	12.8	1.56	2.37	13.3	1.58	2.43	13.4	1.47	2.63
	80	11.5	1.60	2.07	12.1	1.64	2.15	12.6	1.55	2.35
17	60	10.6	1.40	2.23	11.2	1.42	2.32	11.4	1.35	2.49
	70	9.4	1.48	1.87	10.0	1.47	2.00	10.3	1.43	2.12
	80	8.2	1.58	1.53	8.8	1.53	1.69	9.2	1.52	1.77
10	60	9.0	1.34	2.04	9.5	1.37	2.10	9.9	1.29	2.32
	70	7.6	1.37	1.68	8.2	1.41	1.77	8.7	1.34	1.97
	80	6.2	1.42	1.33	7.0	1.47	1.45	7.6	1.40	1.65

**NOTE:** ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2RP/F2FP024		1.01	0.98	1.03
	G2FD024(S,H)14,17	1.02	1.00	1.02
	G1HD024	1.03	1.01	1.03
	G1UA024S17	1.02	1.02	1.00
	G1UA030S14	1.03	1.01	1.02
	G1FA024S17	1.02	1.02	1.00
	G1FA030S14	1.03	1.03	1.00

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD024S06</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2RP/F2FP024</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>750</b>			<b>800</b>			<b>850</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	27.2	2.21	3.72	27.4	2.17	3.80	27.0	1.97	4.12
	70	26.1	2.27	3.46	26.7	2.25	3.58	26.5	2.04	3.90
	80	25.0	2.48	3.03	25.9	2.47	3.16	26.0	2.26	3.47
47	60	23.2	2.01	3.39	23.2	2.05	3.32	23.7	1.90	3.66
	70	22.0	2.07	3.13	22.4	2.12	3.10	23.2	1.98	3.44
	80	20.8	2.23	2.74	21.6	2.30	2.76	22.6	2.15	3.08
40	60	18.4	1.63	3.27	21.0	1.99	3.06	21.8	1.87	3.39
	70	17.4	1.86	2.73	20.1	2.05	2.84	19.9	1.93	3.00
	80	16.5	2.56	1.88	19.2	2.20	2.54	18.1	2.42	2.18
30	60	17.2	1.89	2.63	17.7	1.91	2.68	17.3	1.75	2.86
	70	16.1	1.93	2.41	16.8	1.96	2.48	16.9	1.82	2.67
	80	15.0	2.02	2.15	15.9	2.06	2.22	16.4	1.95	2.44
17	60	13.0	1.73	2.20	13.5	1.80	2.20	14.0	1.67	2.45
	70	12.0	1.75	2.01	12.5	1.83	2.00	13.1	1.70	2.25
	80	10.9	1.76	1.82	11.5	1.86	1.81	12.2	1.72	2.07
10	60	10.8	1.72	1.89	11.2	1.75	1.93	11.7	1.64	2.14
	70	9.5	1.72	1.67	10.2	1.76	1.74	10.4	1.67	1.88
	80	8.2	1.67	1.48	9.1	1.73	1.59	9.1	1.65	1.67

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2RP/F2FP030		1.02	0.99	1.03
	G2FD035(S,H)14	1.00	1.00	1.00
	G2FD030(S,H)17	1.01	1.01	1.00
	G2FD024(S,H)14,17	1.00	1.00	1.00
	G1HD024	0.98	1.01	0.97
	G1UA030S14	0.98	1.04	0.95
	G1UA036S17,21	1.00	1.03	0.97
	G1FA030S14	0.98	1.04	0.95
	G1FA036S17,21	1.00	1.03	0.97

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD030S06</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2RP/F2FP030</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>1000</b>			<b>1050</b>			<b>1100</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	34.5	2.76	3.77	34.8	2.75	3.82	34.9	2.73	3.86
	70	33.0	2.86	3.47	34.2	2.87	3.59	34.7	2.88	3.64
	80	31.7	2.94	3.24	33.8	2.97	3.43	34.6	3.00	3.49
47	60	29.6	2.55	3.41	29.9	2.55	3.44	30.1	2.55	3.46
	70	28.0	2.64	3.11	29.0	2.66	3.20	29.5	2.68	3.23
	80	26.5	2.72	2.86	28.2	2.75	3.01	29.0	2.78	3.06
40	60	26.8	2.41	3.22	27.6	2.46	3.27	27.8	2.48	3.26
	70	25.3	2.51	2.93	26.2	2.55	2.99	26.5	2.57	2.99
	80	23.9	2.62	2.65	24.8	2.64	2.73	25.2	2.67	2.74
30	60	23.2	2.30	2.91	24.1	2.32	2.99	24.5	2.35	3.00
	70	21.2	2.35	2.61	22.2	2.38	2.69	22.8	2.42	2.71
	80	19.2	2.42	2.29	20.3	2.47	2.38	21.0	2.52	2.41
17	60	18.2	2.07	2.58	18.5	2.11	2.57	18.8	2.17	2.54
	70	16.5	2.13	2.27	17.0	2.17	2.30	17.4	2.22	2.30
	80	14.7	2.19	1.98	15.5	2.23	2.04	16.0	2.27	2.07
10	60	15.0	1.98	2.29	15.8	2.02	2.37	16.4	2.08	2.39
	70	13.6	2.01	2.04	14.2	2.06	2.09	14.8	2.11	2.12
	80	12.1	2.05	1.79	12.5	2.09	1.82	13.2	2.14	1.86

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2RP/F2FP036		0.98	0.98	1.00
	G2FD035(S,H)14	1.01	1.01	1.00
	G1FD030S17	1.01	1.01	1.00
	G1FD036S17,21	1.01	1.01	1.00
	G1HD036	1.02	0.97	1.05
	G1UA036S17,21	1.01	1.01	1.00
	G1FA036S17,21	1.01	1.01	1.00

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD036S06, E4FD036S25, 46</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2RP/F2FP036</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>1100</b>			<b>1200</b>			<b>1300</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	42.8	3.34	3.85	43.2	3.28	3.97	42.5	3.25	3.94
	70	40.3	3.52	3.45	41.4	3.47	3.59	41.4	3.46	3.60
	80	38.5	3.68	3.16	40.2	3.65	3.32	40.9	3.66	3.37
47	60	36.6	3.09	3.48	37.0	3.07	3.54	36.1	3.06	3.46
	70	34.4	3.23	3.12	35.2	3.23	3.20	35.1	3.23	3.18
	80	32.6	3.36	2.85	33.9	3.38	2.95	34.5	3.40	2.98
40	60	32.7	2.97	3.20	33.7	2.98	3.29	34.5	2.99	3.35
	70	31.0	3.09	2.92	31.9	3.10	2.99	32.8	3.12	3.06
	80	29.3	3.22	2.65	30.2	3.24	2.71	31.2	3.26	2.78
30	60	27.5	2.80	2.84	28.9	2.84	2.94	29.0	2.86	2.92
	70	25.8	2.87	2.60	27.2	2.92	2.69	27.5	2.94	2.70
	80	23.6	2.97	2.30	25.1	3.03	2.39	25.6	3.06	2.42
17	60	22.0	2.55	2.53	22.5	2.60	2.54	22.6	2.63	2.52
	70	20.3	2.62	2.27	21.0	2.68	2.30	21.3	2.71	2.30
	80	18.5	2.68	2.03	19.4	2.75	2.08	19.8	2.78	2.10
10	60	18.4	2.44	2.28	19.2	2.50	2.31	19.5	2.54	2.31
	70	16.7	2.48	2.03	17.7	2.55	2.09	18.0	2.59	2.10
	80	15.0	2.51	1.80	16.1	2.59	1.88	16.5	2.62	1.89

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2RP/F2FP042		1.00	1.00	1.00
	G2FD036(S,H)17	1.00	1.00	1.00
	G2FD036(S,H)21	1.00	1.00	1.00
	G2FD042(S,H)21	0.99	0.99	1.00
	G2FD046(S,H)17	0.99	0.99	1.00
	G1HD036	1.03	1.01	1.02
	G1UA048S21	0.99	0.99	1.00
	G1FA048S21	0.99	0.99	1.00

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD042S06</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2RP/F2FP042</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>1400</b>			<b>1500</b>			<b>1600</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	49.8	3.58	4.08	48.6	3.48	4.09	47.9	3.48	4.04
	70	47.8	3.89	3.61	46.8	3.78	3.63	46.1	3.73	3.63
	80	47.6	4.33	3.22	46.6	4.19	3.26	45.9	4.07	3.30
47	60	41.3	3.41	3.56	41.0	3.35	3.59	40.2	3.33	3.54
	70	39.8	3.68	3.17	39.5	3.62	3.20	39.1	3.60	3.19
	80	39.5	4.08	2.84	39.3	4.01	2.88	38.9	3.93	2.90
40	60	37.9	3.27	3.40	37.2	3.23	3.37	37.1	3.22	3.38
	70	36.0	3.56	2.97	35.6	3.51	2.97	35.6	3.49	2.99
	80	35.2	3.91	2.64	34.9	3.85	2.66	35.1	3.82	2.69
30	60	31.6	3.07	3.02	31.6	3.05	3.04	31.6	3.05	3.04
	70	30.3	3.38	2.63	29.9	3.33	2.63	30.2	3.33	2.66
	80	29.6	3.67	2.37	28.8	3.60	2.35	29.5	3.59	2.41
17	60	23.2	2.81	2.42	23.5	2.82	2.44	23.7	2.83	2.46
	70	22.2	3.01	2.16	22.6	3.01	2.20	22.8	3.02	2.21
	80	21.1	3.23	1.92	21.7	3.22	1.98	21.9	3.23	1.98
10	60	19.2	2.59	2.17	19.4	2.61	2.18	19.7	2.65	2.18
	70	18.2	2.76	1.93	18.7	2.78	1.97	18.9	2.81	1.97
	80	16.8	2.89	1.71	17.6	2.92	1.77	17.7	2.94	1.77

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2FP048		1.02	0.99	1.03
	G2FD042(S,H)21	0.99	0.98	1.01
	G2FD046(S,H)17	0.99	0.96	1.03
	G2FD048(S,H)21,	1.00	0.94	1.06
	G1HD048	1.00	0.96	1.04
	G1HD060	1.00	0.95	1.05
	G1UA048S21	1.00	0.94	1.06
	G1FA048S21	1.00	0.94	1.06

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD048S06, E4FD048S25, 46</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2FP048</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>1450</b>			<b>1600</b>			<b>1750</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	55.4	3.90	4.17	57.6	4.02	4.20	56.7	3.83	4.34
	70	55.3	4.47	3.63	55.2	4.34	3.73	54.8	3.90	4.13
	80	55.2	5.24	3.09	52.8	4.68	3.31	52.7	4.20	3.68
47	60	47.0	4.25	3.24	47.1	3.70	3.73	48.9	3.74	3.83
	70	46.9	4.27	3.23	47.0	4.18	3.30	47.2	3.80	3.64
	80	46.3	4.89	2.77	46.9	4.80	2.87	45.4	4.10	3.25
40	60	37.3	3.27	3.35	42.6	3.99	3.13	43.0	3.64	3.47
	70	37.0	3.68	2.94	42.6	4.07	3.07	42.2	3.82	3.24
	80	36.2	5.36	1.98	42.1	4.62	2.67	39.7	5.06	2.30
30	60	35.8	3.69	2.85	36.8	3.72	2.90	37.7	3.57	3.10
	70	34.8	3.83	2.66	36.2	3.89	2.73	36.4	3.62	2.95
	80	33.5	4.24	2.32	35.5	4.33	2.40	35.0	3.90	2.63
17	60	28.7	3.30	2.55	29.2	3.30	2.59	29.4	3.05	2.83
	70	27.5	3.57	2.25	28.0	3.57	2.30	28.4	3.29	2.53
	80	26.2	3.87	1.99	26.8	3.86	2.04	27.3	3.55	2.26
10	60	24.6	3.04	2.38	25.0	3.04	2.41	25.4	2.81	2.66
	70	23.2	3.34	2.03	23.6	3.34	2.07	23.9	3.08	2.28
	80	21.8	3.54	1.81	22.2	3.53	1.85	22.6	3.26	2.03

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
G2FD048(S,H)21,2	1.00	0.94	1.06
G2FD060(S,H)24	1.00	0.95	1.05
G1HD048	1.00	0.95	1.05
G1HD060	1.00	0.95	1.05
G1UA060S24	1.00	0.95	1.05
G1FA048S21	1.00	0.96	1.04
G1FA060S24	1.00	0.95	1.05
G1UA048S21	1.00	0.96	1.04

<b>HEATING PERFORMANCE DATA</b>										
<b>CONDENSING UNIT MODEL NO</b>		<b>E4FD060S06, E4FD060S25, 46</b>								
<b>EVAPORATOR COIL MODEL NO</b>		<b>F2FP060</b>								
<b>AIR TEMP. ENTERING OUTDOOR UNIT</b>	<b>AIR TEMP. ENTERING INDOOR COIL</b>	<b>ID CFM</b>								
		<b>1750</b>			<b>1800</b>			<b>1850</b>		
		<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>	<b>MBTUH</b>	<b>K.W.</b>	<b>C.O.P.</b>
60	60	70.0	5.58	3.73	68.1	5.39	3.75	66.1	5.23	3.75
	70	71.7	5.82	3.66	70.3	5.61	3.72	68.7	5.44	3.75
	80	71.6	6.79	3.13	70.7	6.51	3.23	69.7	6.31	3.28
47	60	60.3	5.33	3.32	59.9	5.19	3.38	57.7	5.11	3.31
	70	60.8	5.56	3.21	61.0	5.42	3.30	59.3	5.34	3.26
	80	60.3	6.35	2.78	61.0	6.18	2.89	59.7	6.08	2.88
40	60	55.4	4.98	3.24	56.0	5.01	3.27	53.8	4.95	3.17
	70	56.0	5.37	3.04	56.0	5.32	3.07	55.5	5.29	3.06
	80	55.7	6.00	2.71	55.1	5.86	2.75	56.4	5.84	2.82
30	60	49.7	4.83	3.00	50.1	4.78	3.05	49.8	4.73	3.07
	70	48.4	5.24	2.69	48.9	5.18	2.75	49.0	5.14	2.77
	80	46.6	5.55	2.44	47.2	5.47	2.51	47.6	5.45	2.54
17	60	39.7	4.71	2.47	40.9	4.76	2.52	38.7	4.75	2.39
	70	38.5	4.98	2.27	39.7	4.99	2.33	37.7	4.99	2.22
	80	37.3	5.35	2.04	38.4	5.31	2.12	36.8	5.31	2.03
10	60	35.1	4.65	2.24	36.5	4.67	2.32	36.8	4.65	2.35
	70	33.5	4.88	2.04	34.7	4.89	2.10	35.1	4.89	2.13
	80	32.1	5.06	1.88	33.1	5.07	1.94	33.6	5.08	1.97

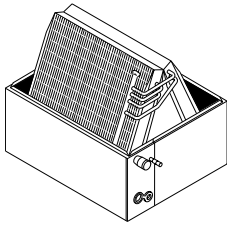
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

**Multipliers for determining the performance with other indoor sections.**

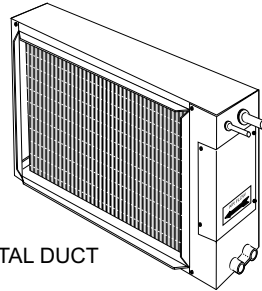
<b>Air Handler</b>	<b>Coil</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
F2FV060		0.98	0.98	1.00
	GFD060(S,H)24	0.98	0.95	1.03
	G1HD060	0.98	1.05	0.94
	G1UA060S21,24	1.01	0.98	1.03
	G1FA060S21,24	1.01	0.98	1.03

**MATCHING INDOOR COMPONENTS**

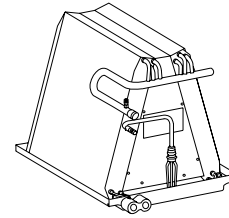
**ADD-ON COILS - FOR FURNACE APPLICATIONS**



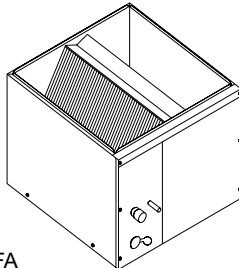
G1UA  
1/2 CASED  
UPFLOW



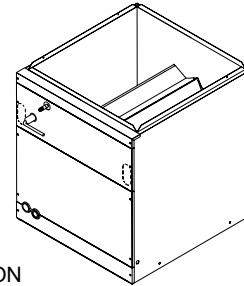
G1HD  
HORIZONTAL DUCT



G1NA  
UNCASED  
UPFLOW



G1FA  
FULL CASED  
UPFLOW

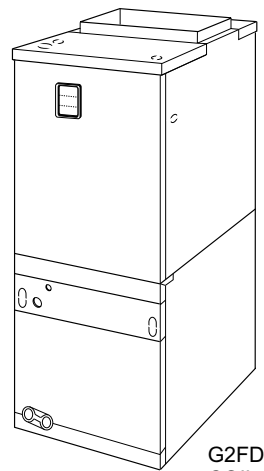


G2FD\*  
MULTI-POSITION  
(UPFLOW, HORIZONTAL  
AND DOWNFLOW)

\* Available with factory installed horizontal drain pan.

**AIR HANDLERS - FOR NON-FURNACE APPLICATIONS**

N1AH OR N1VS  
MODULAR BLOWER  
(UPFLOW, HORIZONTAL  
AND DOWNFLOW)



G2FD  
COIL

F2RC / F2FC OR  
F2RC / F2FP  
FAN COIL UNITS  
(UPFLOW, HORIZONTAL)

