



Heating and Air Conditioning

TECHNICAL GUIDE

STELLAR 2000™

SPLIT-SYSTEM AIR CONDITIONERS

11 SEER

MODELS: H*DE024 THRU H*DE060 (2 THRU 5 NOMINAL TONS)



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 for the most up-to-date technical information.

Additional rating information can be found at www.ariprinenet.org

DESCRIPTION

The HDE Series condensing unit is the outdoor part of a versatile system of air conditioning. It is designed to be custom-matched with one of YORK's complete line of evaporator sections, each designed to serve a specific function. Matching Air Handlers are available for upflow, downflow or horizontal application to provide a complete system. Electric heaters are available if required. Add-On coils are available for use with upflow, downflow or horizontal furnaces.

WARRANTY

5-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.
- **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 protects the compressor if undesirable operating conditions occur.
- **DURABLE FINISH** - Cabinet is made of powder painted steel over pre-primed steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and automotive quality finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by easy power and control wiring connections. Hard start kits are available for non-scroll models. All units contain enough refrigerant for a matching indoor coil and 15 feet of interconnecting piping. The small base dimension means less space is required on the ground or roof.
- **TOP DISCHARGE** - The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **LOW OPERATING SOUND LEVEL** - The upward air flow carries the normal operating noise up 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.
- **LOW MAINTENANCE** - Long life permanently lubricated motor bearings need no annual servicing.
- **EASY SERVICE ACCESS** - Fully exposed refrigerant connections and a single panel covering the electrical controls make servicing easy.
- **SECURED SERVICE VALVES** - Provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **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.

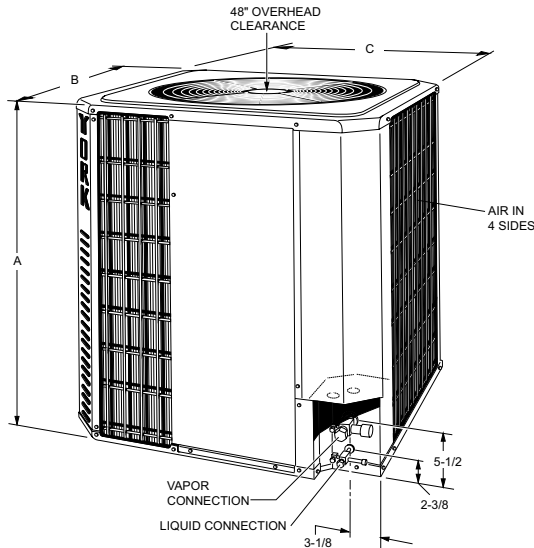
PHYSICAL AND ELECTRICAL DATA

MODELS		H4DE024	H4DE030	H4DE036	H4DE042	H4DE048	H4DE060
Unit Supply Voltage		208/230-1-60					
Normal Voltage Range ¹		187 TO 252					
Minimum Circuit Ampacity		15.3	16.1	20.4	27.7	28.9	37.6
Max. Overcurrent Device Amps ²		20	25	35	45	40	50
Compressor Type ³		Recip	Recip	Scroll ^B	Scroll ^C	Scroll ^C	Scroll ^C
Compressor Amps	Rated Load	11.5	12.8	16.6	19.8	21.8	28.8
	Locked Rotor	60.0	68.0	96.7	104.0	131.0	169.0
Crankcase Heater		No	No	No	No	No	No
Fan Motor Amps	Rated Load	0.9	0.9	0.9	1.4	1.6	1.6
Fan Diameter Inches		18	18	18	18	24	24
Fan Motor	Rated HP	1/8	1/8	1/8	1/4	1/4	1/4
	Nominal RPM	1075	1075	1075	1100	850	850
	Nominal CFM	2050	2050	2050	2300	3100	3100
Coil	Face Area Sq. Ft.	14.1	14.1	14.1	14.2	20.0	20.0
	Rows Deep	1	1	1	1	1	1
	Fin / Inches	18	18	18	20	13	18
Liquid Line OD		3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line OD		3/4	3/4	3/4	7/8	7/8	7/8
Unit Charge (Lbs. - Oz.) ⁴		5 - 0	5 - 2	5 - 2	5 - 13	7 - 0	7 - 10
Charge Per Foot, Oz.		0.68	0.68	0.68	0.70	0.70	0.70
Operating Weight Lbs.		141	143	138	148	195	208

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 valve.

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

DIMENSIONS



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

Additional R-22 Charge / Orifice Size for Various Matched Systems

ADDITIONAL R-22 CHARGE / ORIFICE SIZE FOR VARIOUS MATCHED SYSTEMS							
OUTDOOR UNITS	H4DE024	H4DE030	HD4DE036	H4DE042	H4DE048	H4DE060	
UNIT ORIFICE(S) ¹	59,61,63	67,69	73,75	78,81	87,90	90	
FACTORY R22 CHARGE, LBS. - OZ.	5-0	5-2	5-2	5-13	7-0	7-10	
INDOOR COIL	COIL ORIFICE ²	SYSTEM ORIFICE + ADDITIONAL CHARGE, OZ.					
G1FA/G1UA024S14,17	59	63+6	-	-	-	-	-
G1FA/G1UA030S14	65	63+8	67+10	-	-	-	-
G1FA/G1UA036S14,17,21	73	63+10	67+2	73+0	-	-	-
G1FA/G1UA048S17,21	84	-	701 ³ +10	75+9/702 ³ +9	78+5	87+0	-
G1FA/G1UA060S21,24	90	-	-	-	-	87+7	90+1
G1NA030S17H	57	63+8	-	-	-	-	-
G1NA030S17K	63	-	67+4	-	-	-	-
G1NA036S17J	67	-	-	73+0	-	-	-
G1NA036S21C	67	-	-	73+0	-	-	-
G1NA048S21D	78	-	-	75+9	702 ³ +5	702 ³ +0	-
G2FD024(S,H)14,17	61	63+8	-	-	-	-	-
G2FD030(S,H)17	65	63-10	67+2	-	-	-	-
G2FD035(S,H)14	65	63+10	67+2	73+0	-	-	-
G2FD036(S,H)17,21	75	63+13	67+7	73+5	-	-	-
G2FD042(S,H)21,	78	-	-	73+5	78+0	-	-
G2FD046(S,H)17	78	-	69+10/701 ³ +10	75+8/702 ³ +8	78+2	-	-
G2FD048(S,H)21,24	84	-	69+3	75+16/702 ³ +16	78+5	87+3	-
G2FD060(S,H)24	90	-	-	-	81+9/702 ³ +9	90+7	90+1
G1HD024	59	63+9	-	-	-	-	-
G1HD036	69	65+15	67+7	73+0	-	-	-
G1HD048	81	-	-	75+8	78+5	81+1	-
G1HD060	93	-	-	-	-	90+8	90+0
F2RC/F2FCP024	61	61+6	-	-	-	-	-
F2RC/F2FCP030	65	61+6	65+2	-	-	-	-
F2RC/F2FCP036	75	-	701 ³ +2	73+0	-	-	-
F2RP/FP024	61	59+4	-	-	-	-	-
F2RP/FP030	65	61+10	701 ³ +2	-	-	-	-
F2RP/FP036	75	-	701 ³ +7	73+2	-	-	-
F2RP/FP042	78	-	-	75+5	702 ³ +0	-	-
F2FP048	84	-	-	75+8	-	84+3	-
F2FP060	90	-	-	-	-	87+7	90+0
REFRIGERANT LINE ADDER OZ. / FT.	0.68	0.68	0.70	0.70	0.70	0.70	0.70

FOOTNOTES:

1. These orifices are packed in the instruction/warranty packed of each outdoor unit. Note: Orifices in () must be ordered from the Parts Department.
2. These orifices are factory-mounted in the flow control device of each indoor coil.
3. A TXV kit must be used with these units to obtain system performance. (701702,703 indicates 1TV07...series)

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 changed, verify the evaporator nameplate has been marked with the correct orifice size.

COOLING CAPACITY - With Air Handler Coils

UNIT MODEL	AIR HANDLER			COIL ¹ MODEL	COOLING					
	MODEL	ELECTRIC ² HEAT. KW	W		RATED CFM	NET MBH		SEER W/O TXV	SEER + TXV ³	EER
						TOTAL	SENS.			
1 PH 11 SEER AC / N1VS - VARIABLE SPEED										
H4DE024S06	N1AHB0806	2,5,8,10	17	G2FD024(S,H)17	850	23.0	17.0	11.00	-	9.85
H4DE030S06	N1AHB1206	5,8,10,15,19	17	G2FD036(S,H)17	1015	28.6	21.5	11.20	-	10.10
	N1AHB1206	5,8,10,15,19	17	G2FD046(S,H)17	1015	29.0	21.8	-	12.00	10.30
H4DE036S06	N1AHB1206	5,8,10,15,19	17	G2FD036(S,H)17	1225	35.0	26.3	11.10	-	9.80
	N1AHB1206	5,8,10,15,19	17	G2FD046(S,H)17	1225	35.4	26.6	11.30	12.00	10.10
H4DE042S06	N1AHC1606	5,8,10,15,20	21	G2FD042(S,H)21	1400	40.0	30.0	11.10	-	9.90
	N1AHC1606	5,8,10,15,20	21	G2FD048(S,H)21	1400	40.5	30.4	11.00	-	10.00
H4DE048S06	N1AHC1606	5,8,10,15,20	21	G2FD048(S,H)21	1650	48.5	35.9	11.00	-	9.85
	N1AHD2006	8,10,15,20,25,30	24	G2FD048(S,H)24	1650	48.5	35.9	11.00	-	9.85
	N1AHD2006	8,10,15,20,25,30	24	G2FD060(S,H)24	1350	48.5	35.9	11.20	11.60	10.20
H4DE060S06	N1AHD2006	8,10,15,20,25,30	24	G2FD060(S,H)24	1850	58.5	43.3	11.00	-	10.15
1 PH 11 SEER AC / N1VS - VARIABLE SPEED										
H4DE024S06	N1VSB12	10,15,18	17	G2FD024(S,H)17	870	23.4	17.3	12.40	-	11.05
	N1VSB12	10,15,18	17	G2FD036(S,H)17	870	24.2	17.9	12.60	-	11.25
H4DE030S06	N1VSB12	10,15,18	17	G2FD036(S,H)17	1000	29.2	21.9	12.10	-	11.00
	N1VSB12	10,15,18	17	G2FD046(S,H)17	1015	29.4	22.1	12.75	-	10.80
H4DE036S06	N1VSB12	10,15,18	17	G2FD036(S,H)17	1225	34.4	25.8	11.60	-	10.20
	N1VSB12	10,15,18	17	G2FD046(S,H)17	1225	35.6	26.7	12.00	-	10.20
H4DE042S06	N1VSC16	10,15,18	21	G2FD048(S,H)21	1400	41.0	30.8	12.00	-	10.80
H4DE048S06	N1VSC16	10,15,18	21	G2FD048(S,H)21	1670	49.0	36.3	11.40	-	10.15
	N1VSD20	10,15,18,30	24	G2FD060(S,H)24	1675	51.0	37.7	12.60	-	11.30
H4DE060S06	N1VSD20	10,15,18,30	24	G2FD060(S,H)24	1600	58.0	42.9	11.50	-	10.50
1 PH 11 SEER AC / F2RP / RC / FP / FC / FV^{4,5}										
H4DE024S06	F2RC/FC024	5,8,10	18	-	800	23.4	17.3	11.00	-	9.80
	F2RC/FC030	5,8,10,15	18	-	800	23.4	17.3	11.00	-	9.85
	F2RP/FP024	5,8,10	18	-	800	23.8	17.6	11.10	-	9.90
	F2RP/FP030	5,8,10,15	18	-	830	24.2	17.9	11.25	11.50	10.05
H4DE030S06	F2RC/FC030	5,8,10,15	18	-	1015	28.2	21.2	11.00	-	10.10
	F2RP/FP030	5,8,10,15	18	-	1015	28.6	21.5	11.10	11.50	10.10
	F2RP/FP036	5,8,10,15,19	21	-	1015	29.0	21.8	11.50	11.70	10.70
H4DE036S06	F2RC/FC036	5,8,10,15	21	-	1225	33.8	25.4	11.00	-	9.80
	F2RP/FP036	5,8,10,15,19	21	-	1225	35.2	26.4	11.50	11.50	10.10
H4DE042S06	F2RP/FP042	5,8,10,15	21	-	1400	39.5	29.6	-	11.00	10.10
	F2FP048	5,8,10,15,20,25	24	-	1400	41.0	30.8	11.00	-	10.00
H4DE048S06	F2FP048	5,8,10,15,20,25	24	-	1625	48.0	35.5	11.00	-	9.50
	F2FP060	5,8,10,15,20,25	24	-	1625	49.5	36.6	11.00	-	9.70
H4DE060S06	F2FP060	5,8,10,15,20,25	24	-	1830	57.5	42.6	11.00	11.15	9.60

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

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 / F2RC 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	SEER + TXV ¹	EER
					TOTAL	SENS.			
H4DE024S06	750 950	14,17	G1FA024S14,17	845	22.6	16.7	11.00	-	9.80
		14	G1FA030S14	850	23.0	17.0	11.00	-	9.85
		17,21	G1FA036S17,21	850	24.0	17.8	11.10	-	9.90
		21,24	G1FA048S21	850	24.0	17.8	-	12.00*	10.25
		-	G1HD024	845	23.2	17.2	11.00	-	9.95
		-	G1HD036	845	23.8	17.6	11.20	-	10.10
		17	G1NA030S17H	845	23.0	17.0	11.00	-	9.95
		14,17	G1UA024S14,17	845	22.6	16.7	11.00	-	9.80
		14	G1UA030S14	850	23.0	17.0	11.00	-	9.85
		17,21	G1UA036S17,21	850	24.0	17.8	11.10	-	9.90
		21,24	G1UA048S21	850	24.0	17.8	-	12.00*	10.25
		14,17	G2FD024S14,17	850	23.0	17.0	11.00	-	9.85
		17	G2FD030(S,H)17	845	23.2	17.2	11.00	-	9.90
		17	G2FD036(S,H)17	850	23.4	17.3	11.20	-	10.05
17	G2FD046(S,H)17	850	24.0	17.8	-	12.00*	10.20		
H4DE030S06	900 1100	14	G1FA030S14	1015	28.0	21.0	11.00	-	10.00
		17,21	G1FA036S17,21	1015	28.4	21.3	11.00	-	10.00
		21,24	G1FA048S21	1015	29.0	21.8	-	12.00*	10.10
		-	G1HD036	1015	28.6	21.5	11.20	-	10.10
		17	G1NA030S17H	1015	28.4	21.3	11.10	-	10.10
		14	G1UA030S14	1015	28.0	21.0	11.00	-	10.00
		17,21	G1UA036S17,21	1015	28.4	21.3	11.00	-	10.00
		21,24	G1UA048S21	1015	29.0	21.8	-	12.00*	10.10
		17	G2FD030(S,H)17	1015	28.0	21.0	11.10	-	10.10
		14	G2FD035(S,H)14	1015	28.4	21.3	11.10	-	10.10
		17	G2FD036(S,H)17	1015	28.6	21.5	11.20	-	10.10
		21	G2FD036(S,H)21	1015	29.0	21.8	11.10	-	10.20
		17	G2FD046(S,H)17	1015	29.0	21.8	-	12.00*	10.30
		21,24	G2FD048(S,H)21,24	1015	29.0	21.8	12.00	-	10.60
H4DE036S06	1075 1375	14	G1FA036S14	1225	34.0	25.5	11.10	-	9.70
		17,21	G1FA036S17,21	1225	34.0	25.5	11.10	-	9.60
		17	G1FA048S17	1225	35.6	26.7	-	12.00*	10.10
		21,24	G1FA048S21	1225	35.6	26.7	11.50	12.00*	10.10
		-	G1HD036	1225	34.4	25.8	11.00	-	10.10
		-	G1HD048	1225	36.0	27.0	11.40	-	10.60
		17	G1NA036S17J	1225	34.4	25.8	11.00	-	10.00
		21	G1NA036S21C	1225	34.4	25.8	11.20	-	10.00
		21	G1NA048S21D	1225	35.4	26.6	11.50	-	9.90
		14	G1UA036S14	1225	34.0	25.5	11.10	-	9.70
		17,21	G1UA036S17,21	1225	34.0	25.5	11.10	-	9.60
		17	G1UA048S17	1225	35.6	26.7	-	12.00*	10.10
		21,24	G1UA048S21	1225	35.6	26.7	11.50	12.00*	10.10
		14	G2FD035(S,H)14	1225	34.0	25.5	11.00	-	10.10
		17	G2FD036(S,H)17	1225	35.0	26.3	11.10	-	9.80
		21	G2FD036(S,H)21	1225	35.0	26.3	11.20	-	9.80
		21	G2FD042(S,H)21	1225	35.4	26.6	11.20	-	9.80
		17	G2FD046(S,H)17	1225	35.4	26.6	11.30	12.00*	10.10
21,24	G2FD048(S,H)21,24	1225	35.6	26.7	11.50	12.00*	10.30		
H4DE042S06	1225 1575	21,24	G1FA048S21	1400	41.0	30.8	11.20	-	9.80
		21,24	G1FA060S21,24	1400	41.0	30.8	-	12.00*	10.50
		-	G1HD048	1400	41.0	30.8	11.20	-	10.00
		21	G1NA048S21D	1400	40.0	30.0	-	11.10*	9.90
		21,24	G1UA048S21	1400	41.0	30.8	11.20	-	9.80
		21,24	G1UA060S21,24	1400	41.0	30.8	-	12.00*	10.50
		21	G2FD042(S,H)21	1400	40.0	30.0	11.10	-	9.90
		17	G2FD046(S,H)17	1400	41.0	30.8	11.20	-	10.00
		21,24	G2FD048(S,H)21,24	1400	40.5	30.4	11.00	-	10.00
24	G2FD060(S,H)24	1400	41.0	30.8	11.40	12.00*	10.50		

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	SEER + TXV ¹	EER
					TOTAL	SENS.			
H4DE048S06	1400 1800	21,24	G1FA048S21	1600	48.0	35.5	11.00	-	9.80
		21,24	G1FA060S21,24	1600	48.5	35.9	11.15	11.60	10.15
		-	G1HD048	1600	48.0	35.5	11.00	-	9.90
		-	G1HD060	1600	50.0	37.0	11.20	-	10.15
		21	G1NA048S21D	1600	47.0	34.8	-	11.00	9.75
		21,24	G1UA048S21	1600	48.0	35.5	11.00	-	9.80
		21,24	G1UA060S21,24	1620	48.5	35.9	11.15	11.60	10.15
		17	G2FD046(S,H)17	1620	47.0	34.8	11.00	-	9.85
		21,24	G2FD048(S,H)21,24	1600	48.5	35.9	11.00	-	9.85
24	G2FD060(S,H)24	1620	48.5	35.9	11.20	11.60	10.20		
H4DE060S06	1650 2150	21,24	G1FA060S21,24	1850	58.5	43.3	11.00	-	10.10
		-	G1HD060	1850	58.5	43.3	11.00	-	9.95
		21,24	G1UA060S21,24	1850	58.5	43.3	11.00	-	10.10
		24	G2FD060(S,H)24	1850	58.5	43.3	11.00	-	10.15

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.

COOLING CAPACITY - With Variable Speed Furnaces

UNIT MODEL	VARIABLE SPEED FURNACE MODEL	COIL MODEL ¹	W	COOLING					
				RATED CFM	NET MBH		SEER W/O TXV	SEER + TXV ²	EER
					TOTAL	SENS.			
1 PH 11 SEER AC / P1DU / P1XU - VARIABLE SPEED³									
H4DE024S06	P1DUA12V	G1FA024S14	14	820	23.2	17.2	12.00	-	10.85
	P1DUA12V	G1FA030S14	14	820	23.6	17.5	12.00	-	10.90
	P1DUA12V	G1UA024S14	14	820	23.2	17.2	12.00	-	10.85
	P1DUA12V	G1UA030S14	14	820	23.6	17.5	12.00	-	10.90
	P1DUA12V	G2FD024(S,H)14	14	820	23.6	17.5	11.50	-	10.20
	P1XUB12V	G1FA024S17	17	820	23.2	17.2	12.00	-	10.95
	P1XUB12V	G1FA036S17	17	820	24.6	18.2	12.00	-	10.95
	P1XUB12V	G1UA024S17	17	820	23.2	17.2	12.00	-	10.95
	P1XUB12V	G1UA036S17	17	820	24.6	18.2	12.00	-	10.95
	P1XUB12V	G2FD024(S,H)17	17	820	23.6	17.5	11.50	-	10.20
	P1XUB12V	G2FD030(S,H)17	17	820	23.8	17.6	12.00	-	10.95
	P1XUB12V	G2FD036(S,H)17	17	870	23.8	17.6	12.20	-	10.95
H4DE030S06	P1DUA12V	G1FA030S14	14	1035	28.4	21.3	11.50	-	10.65
	P1DUA12V	G1UA030S14	14	1035	28.4	21.3	11.50	-	10.65
	P1DUB16V	G1FA036S17	17	1000	29.0	21.8	12.00	-	11.10
	P1DUB16V	G1UA036S17	17	1000	29.0	21.8	12.00	-	11.10
	P1DUB16V	G2FD030(S,H)17	17	1000	28.8	21.6	12.00	-	11.10
	P1DUB16V	G2FD036(S,H)17	17	1000	29.4	22.1	12.00	-	11.20
	P1XUB12V	G1FA036S17	17	1020	28.8	21.6	11.75	-	10.65
	P1XUB12V	G1UA036S17	17	1020	28.8	21.6	11.75	-	10.65
	P1XUB12V	G2FD030(S,H)17	17	1035	28.6	21.5	12.00	-	11.05
	P1XUB12V	G2FD036(S,H)17	17	1035	29.2	21.9	12.00	-	11.05
	P1XUC16V	G1FA036S21	21	1000	29.2	21.9	12.00	-	11.10
	P1XUC16V	G1FA048S21	21	1000	29.8	22.4	13.00	-	11.20
	P1XUC16V	G1UA036S21	21	1000	29.2	21.9	12.00	-	11.10
	P1XUC16V	G1UA048S21	21	1000	29.8	22.4	13.00	-	11.20
	P1XUC16V	G2FD036(S,H)21	21	1000	29.8	22.4	12.00	-	11.05
	P1XUC16V	G2FD048(S,H)21	21	1000	29.8	22.4	13.00	-	11.80

For Notes See Page 7.

COOLING CAPACITY - With Variable Speed Furnaces (Continued)

UNIT MODEL	VARIABLE SPEED FURNACE MODEL	COIL MODEL ¹	W	COOLING					
				RATED CFM	NET MBH		SEER W/O TXV	SEER + TXV ²	EER
					TOTAL	SENS.			
H4DE036S06	P1DUA12V	G1FA036S14	14	1225	34.2	25.7	11.20	-	9.85
	P1DUA12V	G1UA036S14	14	1225	34.2	25.7	11.20	-	9.85
	P1DUB16V	G1FA036S17	17	1220	34.6	26.0	11.50	-	10.25
	P1DUB16V	G1FA048S17	17	1220	36.2	27.2	12.50	-	10.75
	P1DUB16V	G1UA036S17	17	1220	34.6	26.0	11.50	-	10.25
	P1DUB16V	G1UA048S17	17	1220	36.2	27.2	12.50	-	10.75
	P1DUB16V	G2FD036(S,H)17	17	1220	35.6	26.7	11.50	-	10.45
	P1DUB16V	G2FD046(S,H)17	17	1220	36.0	27.0	12.00	-	10.45
	P1DUC20V	G1FA036S21	21	1200	34.8	26.1	12.00	-	10.60
	P1DUC20V	G1FA048S21	21	1200	36.2	27.2	12.65	-	10.95
	P1DUC20V	G1UA036S21	21	1200	34.8	26.1	12.00	-	10.60
	P1DUC20V	G1UA048S21	21	1200	36.2	27.2	12.65	-	10.95
	P1DUC20V	G2FD036(S,H)21	21	1200	35.8	26.9	12.00	-	10.85
	P1DUC20V	G2FD042(S,H)21	21	1200	36.2	27.2	12.00	-	10.80
	P1DUC20V	G2FD048(S,H)21	21	1200	36.4	27.3	12.65	-	10.95
	P1XUB12V	G1FA036S17	17	1230	34.6	26.0	11.50	-	10.25
	P1XUB12V	G1FA048S17	17	1230	36.2	27.2	12.50	-	10.80
	P1XUB12V	G1UA036S17	17	1230	34.6	26.0	11.50	-	10.25
	P1XUB12V	G1UA048S17	17	1230	36.2	27.2	12.50	-	10.80
	P1XUB12V	G2FD036(S,H)17	17	1230	35.6	26.7	11.50	-	10.45
	P1XUB12V	G2FD046(S,H)17	17	1230	36.0	27.0	12.00	-	10.45
	P1XUC20V	G1FA036S21	21	1200	34.8	26.1	12.00	-	10.60
	P1XUC20V	G1FA048S21	21	1200	36.2	27.2	12.60	-	10.90
	P1XUC20V	G1UA036S21	21	1200	34.8	26.1	12.00	-	10.60
	P1XUC20V	G1UA048S21	21	1200	36.2	27.2	12.60	-	10.90
	P1XUC20V	G2FD036(S,H)21	21	1200	35.8	26.9	12.00	-	10.85
	P1XUC20V	G2FD042(S,H)21	21	1200	36.2	27.2	12.00	-	10.80
	P1XUC20V	G2FD048(S,H)21	21	1200	36.2	27.2	12.60	-	10.90
H4DE042S06	P1DUB16V	G2FD046(S,H)17	17	1425	41.5	31.1	11.50	-	10.60
	P1DUC20V	G1FA048S21	21	1420	42.0	31.5	11.50	-	10.50
	P1DUC20V	G1UA048S21	21	1420	42.0	31.5	11.50	-	10.50
	P1DUC20V	G2FD042(S,H)21	21	1400	40.5	30.4	11.50	-	10.30
	P1DUC20V	G2FD048(S,H)21	21	1420	41.5	31.1	11.50	-	10.75
	P1XUC16V	G1FA048S21	21	1425	41.5	31.1	11.50	-	10.40
	P1XUC16V	G1FA060S21	21	1400	41.5	31.1	12.60	-	11.00
	P1XUC16V	G1UA048S21	21	1425	41.5	31.1	11.50	-	10.40
	P1XUC16V	G1UA060S21	21	1400	41.5	31.1	12.60	-	11.00
	P1XUC16V	G2FD042(S,H)21	21	1425	40.5	30.4	11.50	-	10.50
	P1XUC16V	G2FD048(S,H)21	21	1425	41.5	31.1	11.50	-	10.40
	P1XUC20V	G1FA048S21	21	1420	42.0	31.5	11.50	-	10.50
	P1XUC20V	G1FA060S21	21	1420	43.5	32.6	11.50	-	10.30
	P1XUC20V	G1UA048S21	21	1420	42.0	31.5	11.50	-	10.50
	P1XUC20V	G1UA060S21	21	1420	43.5	32.6	11.50	-	10.30
	P1XUC20V	G2FD042(S,H)21	21	1410	40.5	30.4	11.50	-	10.20
	P1XUC20V	G2FD048(S,H)21	21	1420	41.5	31.1	11.50	-	10.75

For Notes See Page 7.

COOLING CAPACITY - With Variable Speed Furnaces (Continued)

UNIT MODEL	VARIABLE SPEED FURNACE MODEL	COIL MODEL ¹	W	COOLING					
				RATED CFM	NET MBH		SEER W/O TXV	SEER + TXV ²	EER
					TOTAL	SENS.			
H4DE048S06	P1DUC20V	G1FA048S21	21	1605	49.0	36.3	11.50	-	10.45
	P1DUC20V	G1FA060S21	21	1630	48.5	35.9	11.50	-	10.25
	P1DUC20V	G1UA048S21	21	1605	49.0	36.3	11.50	-	10.45
	P1DUC20V	G1UA060S21	21	1605	49.5	36.6	12.00	-	10.70
	P1DUC20V	G2FD048(S,H)21	21	1605	49.5	36.6	11.50	-	10.55
	P1XUC16V	G1FA048S21	21	1570	49.0	36.3	11.50	-	10.40
	P1XUC16V	G1FA060S21	21	1570	49.5	36.6	12.00	-	10.60
	P1XUC16V	G1UA048S21	21	1570	49.0	36.3	11.50	-	10.40
	P1XUC16V	G1UA060S21	21	1570	49.5	36.6	12.00	-	10.60
	P1XUC16V	G2FD048(S,H)21	21	1480	48.5	35.9	11.30	-	10.10
	P1XUC20V	G1FA048S21	21	1590	48.0	35.5	11.30	-	10.00
	P1XUC20V	G1FA060S21	21	1640	48.5	35.9	11.30	-	10.10
	P1XUC20V	G1UA048S21	21	1590	48.0	35.5	11.30	-	10.00
	P1XUC20V	G1UA060S21	21	1640	48.5	35.9	11.30	-	10.10
	P1XUC20V	G2FD048(S,H)21	21	1590	48.5	35.9	11.20	-	10.00
	P1XUD20V	G1FA060S24	24	1620	48.5	35.9	11.45	-	10.25
	P1XUD20V	G1UA060S24	24	1620	48.5	35.9	11.45	-	10.25
	P1XUD20V	G2FD048(S,H)24	24	1620	48.5	35.9	11.20	-	10.00
	P1XUD20V	G2FD060(S,H)24	24	1620	48.5	35.9	11.45	-	10.25
H4DE060S06	P1DUC20V	G1FA060S21	21	1860	58.5	43.7	11.30	-	10.35
	P1DUC20V	G1UA060S21	21	1860	58.5	43.7	11.30	-	10.35
	P1XUC20V	G1FA060S21	21	1860	58.5	43.7	11.30	-	10.35
	P1XUC20V	G1UA060S21	21	1860	58.5	43.7	11.30	-	10.35
	P1XUD20V	G1FA060S24	24	1860	59.0	43.7	11.45	-	10.50
	P1XUD20V	G1UA060S24	24	1860	59.0	43.7	11.45	-	10.50
	P1XUD20V	G2FD060(S,H)24	24	1860	59.0	43.7	11.45	-	10.50

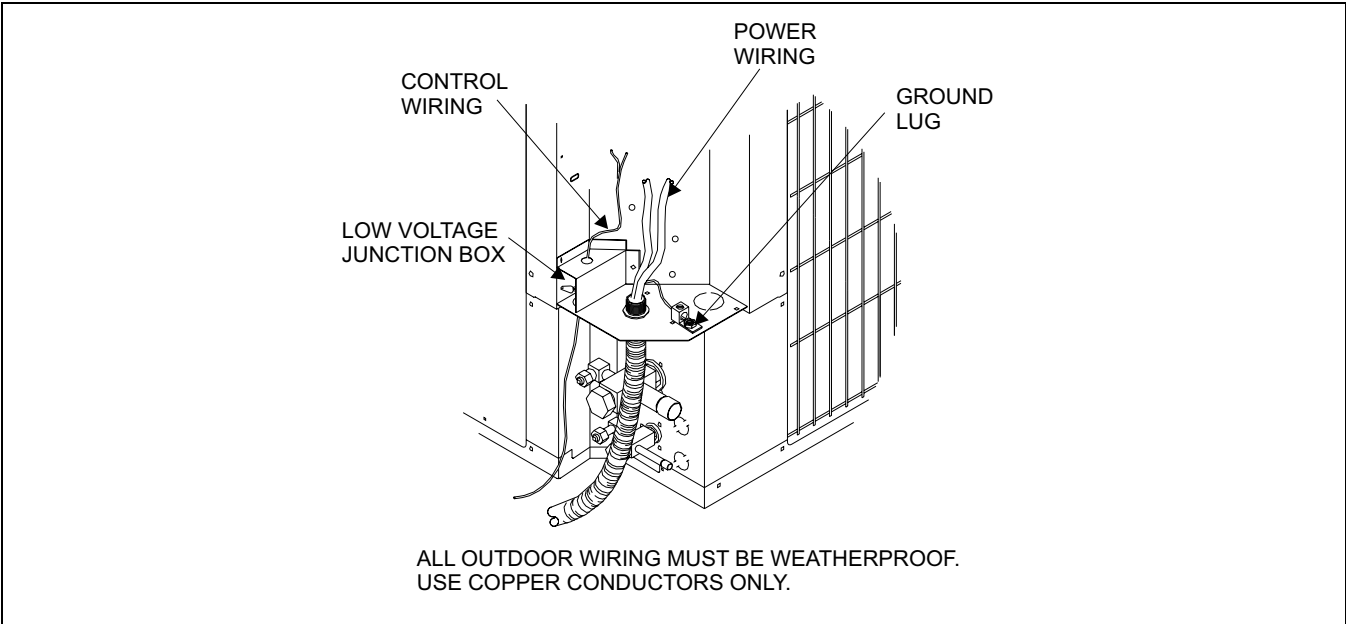
1. G2FD coils available with a factory installed horizontal drain pan. See price pages for specific model number.
2. TXV = Use 1TV700 Series Kit.
3. Variable speed furnaces have B.O.D (Blower on Delay) standard.

COOLING PERFORMANCE

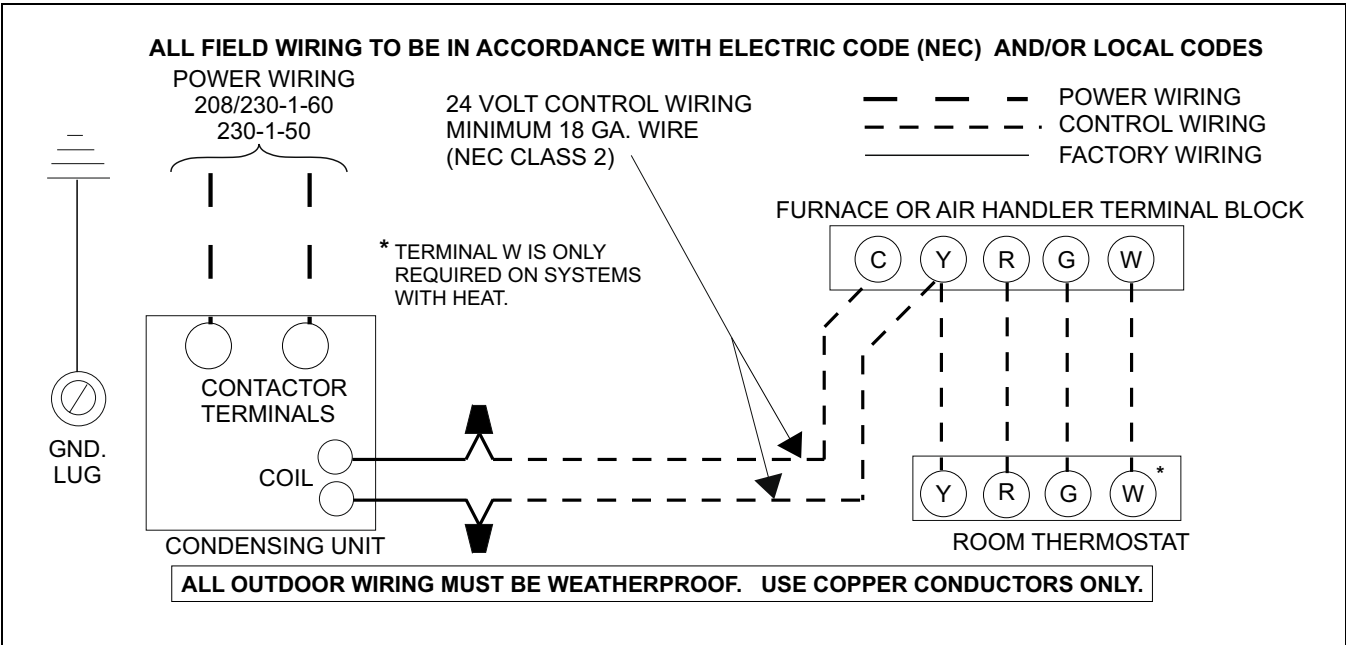
MODEL	SUCTION T/P @ COMPR.		AIR TEMP ON CONDENSER						MODEL	SUCTION T/P @ COMPR.		AIR TEMP ON CONDENSER					
			75° F		95° F		115° F					75° F		95° F		115° F	
	TEMP.	PSIG	MBH	KW	MBH	KW	MBH	KW		TEMP.	PSIG	MBH	KW	MBH	KW	MBH	KW
H4DE024	35	61.5	24.2	2.34	16.8	2.35	10.5	2.30	H4DE042	35	61.5	38.1	3.22	34.1	3.81	30.0	4.56
	40	68.5	27.0	2.40	19.1	2.43	12.3	2.39		40	68.5	41.5	3.26	37.2	3.86	32.9	4.61
	45	76.0	29.9	2.47	21.5	2.52	14.2	2.48		45	76.0	45.0	3.30	40.5	3.91	35.9	4.67
	50	84.0	33.0	2.54	24.0	2.61	16.1	2.58		50	84.0	48.5	3.35	43.8	3.96	39.0	4.73
H4DE030	35	61.5	24.4	2.41	20.2	2.75	16.1	3.07	H4DE048	35	61.5	44.4	4.01	39.8	4.77	35.2	5.69
	40	68.5	27.5	2.48	22.9	2.85	18.4	3.18		40	68.5	48.5	4.09	43.7	4.88	38.8	5.82
	45	76.0	30.7	2.56	25.7	2.94	20.8	3.30		45	76.0	52.8	4.18	47.7	4.98	42.5	5.95
	50	84.0	34.0	2.63	28.6	3.03	23.2	3.42		50	84.0	57.2	4.27	51.9	5.09	46.4	6.09
H4DE036	35	61.5	31.9	2.95	26.4	3.46	21.3	4.19	H4DE060	35	61.5	58.6	4.52	51.3	5.54	44.2	6.85
	40	68.5	35.1	2.99	29.1	3.51	23.6	4.25		40	68.5	63.6	4.60	56.0	5.63	48.5	6.95
	45	76.0	38.3	3.04	32.0	3.58	26.0	4.31		45	76.0	68.7	4.68	60.7	5.71	52.8	7.03
	50	84.0	41.7	3.11	34.9	3.65	28.5	4.39		50	84.0	73.9	4.76	65.5	5.80	57.2	7.12

NOTES:

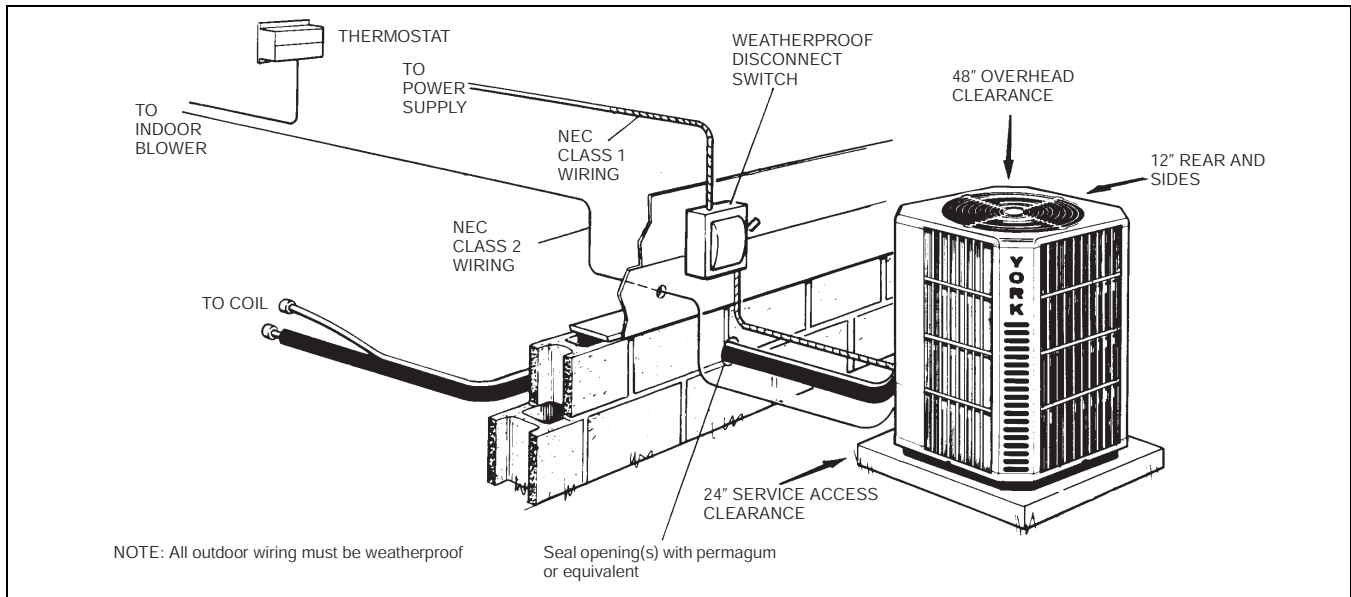
1. For condensing unit only. Does not include effect of evaporator motor power or heat.
2. Performance based on 15 superheat and 15...sub-cooling at condensing unit.
 - a. Increase capacity 1% for each 2 increase in sub-cooling.
 - b. Decrease capacity 1% for each 2 decrease in sub-cooling.
3. Sub-cooling in excess of 20 may result in excessively high condensing temperature with air on condenser above 115. Maximum recommended condensing temperature is 140.



TYPICAL FIELD WIRING - 1 PHASE APPLICATION



TYPICAL INSTALLATION



ACCESSORIES

Refer to Price Manual for specific model numbers.

Hard Start Kit - Provides increased starting torque for areas with low voltage.

Compressor Blanket - Designed to further reduce the normal compressor operating sound. Refer to price pages for specific match-ups.

Off Cycle Timer Delay - Provides a 5-minute off cycle to prevent rapid recycling of the compressor.

Room Thermostats - A wide selection of compatible thermostats are available to provide optimum performance and features for any installation.

1 Heat Stage only, manual, mechanical thermostat. Add sub-base for 1H/1C.

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

1H/1C, auto/manual changeover, electronic programmable, deluxe 7-day, thermostat.

1H/1C, auto/manual changeover, electronic programmable.

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

SOUND RATINGS

UNIT MODEL	SOUND RATINGS DECIBELS*
H4DE024	74
H4DE030	74
H4DE036	74
H4DE042	76
H4DE048	76
H4DE060	77

*Rated in accordance with ARI Standard 270.

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE024S06											
INDOOR COIL MODEL NO.		G1FA024S14,17											
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	800				850				900			
	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.	28.0	25.6	23.3	21.1	28.2	25.8	23.5	21.3	28.4	26.0	23.6	21.4
	S.C.	16.6	16.6	16.7	16.6	17.0	17.0	17.1	17.1	17.4	17.4	17.5	17.5
	K.W.	2.13	2.07	2.01	1.96	2.16	2.10	2.04	1.99	2.18	2.12	2.06	2.01
85	T.C.	27.0	24.6	22.3	20.2	27.2	24.8	22.5	20.4	27.4	25.0	22.7	20.8
	S.C.	16.6	16.6	16.7	16.7	17.1	17.1	17.2	17.2	17.5	17.5	17.7	18.0
	K.W.	2.27	2.20	2.13	2.06	2.30	2.22	2.15	2.09	2.33	2.25	2.18	2.12
95	T.C.	24.6	22.4	20.3	18.5	24.8	22.6	20.4	18.6	24.9	22.7	20.7	18.8
	S.C.	16.2	16.2	16.3	16.3	16.7	16.7	16.8	16.8	17.2	17.2	17.5	17.3
	K.W.	2.36	2.28	2.19	2.13	2.39	2.30	2.22	2.16	2.42	2.33	2.26	2.18
105	T.C.	21.8	19.8	18.0	16.3	21.9	19.9	18.1	16.6	22.0	20.1	18.3	16.8
	S.C.	15.5	15.5	15.6	15.4	16.1	16.0	16.1	15.8	16.6	16.6	16.6	16.0
	K.W.	2.43	2.33	2.25	2.17	2.46	2.36	2.28	2.21	2.48	2.39	2.31	2.25
115	T.C.	18.8	17.2	15.5	14.3	19.0	17.3	15.7	14.5	19.0	17.4	15.9	14.7
	S.C.	14.6	14.5	14.4	13.7	15.2	15.0	15.0	13.8	15.6	15.5	15.2	14.0
	K.W.	2.46	2.37	2.28	2.21	2.49	2.40	2.32	2.25	2.52	2.43	2.35	2.28
125	T.C.	15.8	14.6	13.0	12.3	16.1	14.7	13.3	12.4	16.0	14.7	13.5	12.6
	S.C.	13.7	13.5	13.2	12.0	14.3	14.0	13.9	11.8	14.6	14.4	13.8	12.0
	K.W.	2.49	2.41	2.31	2.25	2.52	2.44	2.36	2.29	2.56	2.47	2.39	2.31

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.

Air Handler	Coil	T.C.	S.C.	KW
N1AHB0806	G2FD024(S,H)17	1.02	1.02	1.01
N1VSB12	G2FD024(S,H)17	1.04	1.04	0.92
N1VSB12	G2FD036(S,H)17	1.07	1.07	0.93
F2RC/F2FC024		1.04	1.04	1.04
F2RC/F2FC030		1.04	1.04	1.03
F2RP/F2FP024		1.05	1.05	1.04
F2RP/F2FP030		1.07	1.07	1.04
	G1FA030S14	1.02	1.02	1.01
	G1FA036S17,21	1.06	1.06	1.05
	G1FA048S21	1.06	1.06	1.02
	G1HD024	1.03	1.03	1.01
	G1HD036	1.05	1.05	1.02
	G1NA030S17H	1.02	1.02	1.00
	G1UA024S14,17	1.00	1.00	1.00
	G1UA030S14	1.02	1.02	1.01
	G1UA036S17,21	1.06	1.06	1.05
	G1UA048S21	1.06	1.06	1.02
	G2FD024(S,H)14,17	1.02	1.02	1.01
	G2FD030(S,H)17	1.03	1.03	1.02
	G2FD036(S,H)17	1.04	1.04	1.01
	G2FD046(S,H)17	1.06	1.06	1.02

Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUA12V	G1FA024S14	1.03	1.03	0.93
P1DUA12V	G1FA030S14	1.04	1.04	0.94
P1DUA12V	G1UA024S14	1.03	1.03	0.93
P1DUA12V	G1UA030S14	1.04	1.04	0.94
P1DUA12V	G2FD024(S,H)14	1.04	1.04	0.84
P1XUB12V	G1FA024S17	1.03	1.03	0.92
P1XUB12V	G1FA036S17	1.09	1.09	0.97
P1XUB12V	G1UA024S17	1.03	1.03	0.92
P1XUB12V	G1UA036S17	1.09	1.09	0.97
P1XUB12V	G2FD024(S,H)17	1.04	1.04	0.84
P1XUB12V	G2FD030(S,H)17	1.05	1.05	0.94
P1XUB12V	G2FD036(S,H)17	1.05	1.05	0.94

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE030S06											
INDOOR COIL MODEL NO.		G1FA036S17,21											
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	900				1000				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.	33.5	30.6	27.7	25.1	34.0	31.1	28.1	25.4	34.3	31.4	28.4	25.7
	S.C.	20.3	20.3	20.4	20.4	21.2	21.2	21.3	21.3	22.0	22.0	22.2	22.1
	K.W.	2.43	2.36	2.29	2.23	2.49	2.42	2.35	2.28	2.53	2.46	2.39	2.32
85	T.C.	32.5	29.7	26.9	24.3	32.9	30.0	27.2	24.9	33.2	30.3	27.5	25.3
	S.C.	20.4	20.5	20.6	20.6	21.4	21.4	21.6	21.9	22.4	22.4	22.6	22.8
	K.W.	2.61	2.54	2.46	2.38	2.67	2.59	2.51	2.45	2.71	2.63	2.55	2.49
95	T.C.	30.8	28.1	25.4	23.2	31.1	28.4	25.7	23.6	31.3	28.6	26.2	23.8
	S.C.	20.3	20.2	20.4	20.5	21.3	21.3	21.5	21.6	22.4	22.3	22.7	22.5
	K.W.	2.87	2.78	2.69	2.61	2.92	2.84	2.74	2.67	2.96	2.88	2.79	2.71
105	T.C.	28.6	26.1	23.7	21.5	28.8	26.3	24.0	22.1	29.0	26.6	24.3	22.6
	S.C.	19.8	19.8	20.0	19.8	20.9	20.9	21.0	21.1	22.0	22.1	22.0	21.6
	K.W.	3.11	3.02	2.92	2.83	3.17	3.07	2.98	2.90	3.21	3.12	3.02	2.96
115	T.C.	26.2	23.9	21.8	20.1	26.3	24.2	22.1	20.5	26.5	24.4	22.5	20.9
	S.C.	19.0	19.0	19.1	19.2	20.0	20.1	20.2	19.6	21.2	21.0	21.5	20.0
	K.W.	3.35	3.24	3.14	3.05	3.42	3.31	3.19	3.12	3.45	3.35	3.26	3.18
125	T.C.	23.8	21.7	19.9	18.7	23.8	22.1	20.2	18.9	24.0	22.2	20.7	19.2
	S.C.	18.2	18.2	18.2	18.6	19.1	19.3	19.4	18.1	20.4	19.9	21.0	18.4
	K.W.	3.59	3.46	3.36	3.27	3.67	3.55	3.40	3.34	3.69	3.58	3.50	3.40

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.

Air Handler	Coil	T.C.	S.C.	KW
N1AHB1206	G2FD036(S,H)17	1.01	1.01	1.00
N1AHB1206	G2FD046(S,H)17	1.02	1.02	0.99
N1VSB12	G2FD036(S,H)17	1.03	1.03	0.93
N1VSB12	G2FD046(S,H)17	1.04	1.04	0.96
F2RC/F2FC030		0.99	0.99	0.98
F2RP/F2FP030		1.01	1.01	1.00
F2RP/F2FP036		1.02	1.02	0.95
	G1FA030S14	0.99	0.99	0.99
	G1FA048S21	1.02	1.02	1.01
	G1HD036	1.01	1.01	1.00
	G1NA030S17H	1.00	1.00	0.99
	G1UA030S14	0.99	0.99	0.99
	G1UA036S17,21	1.00	1.00	1.00
	G1UA048S21	1.02	1.02	1.01
	G2FD030(S,H)17	0.99	0.99	0.98
	G2FD035(S,H)14	1.00	1.00	0.99
	G2FD036(S,H)17	1.01	1.01	1.00
	G2FD036(S,H)21	1.02	1.02	1.00
	G2FD046(S,H)17	1.02	1.02	0.99
	G2FD048(S,H)21,24	1.02	1.02	0.96

Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUA12V	G1FA030S14	1.00	1.00	0.94
P1DUA12V	G1UA030S14	1.00	1.00	0.94
P1DUB16V	G1FA036S17	1.02	1.02	0.92
P1DUB16V	G1UA036S17	1.02	1.02	0.92
P1DUB16V	G1UA048S17	1.05	1.05	0.94
P1DUB16V	G2FD030(S,H)17	1.01	1.01	0.90
P1DUB16V	G2FD036(S,H)17	1.04	1.04	0.92
P1XUB12V	G1FA036S17	1.01	1.01	0.95
P1XUB12V	G1UA036S17	1.01	1.01	0.95
P1XUB12V	G2FD030(S,H)17	1.01	1.01	0.91
P1XUB12V	G2FD036(S,H)17	1.03	1.03	0.93
P1XUC16V	G1FA036S21	1.03	1.03	0.93
P1XUC16V	G1FA048S21	1.05	1.05	0.94
P1XUC16V	G1UA036S21	1.03	1.03	0.93
P1XUC16V	G1UA048S21	1.05	1.05	0.94
P1XUC16V	G2FD036(S,H)21	1.05	1.05	0.90
P1XUC16V	G2FD048(S,H)21	1.05	1.05	0.89

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE036S06											
INDOOR COIL MODEL NO.		G1FA036S17,21											
CONDENSER ENTERING AIR TEMPERATURE	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.	38.8	35.8	32.8	30.0	39.1	36.1	33.1	30.3	39.4	36.4	33.4	30.5
	S.C.	24.2	24.4	24.7	24.9	25.0	25.2	25.5	25.7	25.7	25.9	26.3	26.5
	K.W.	2.83	2.78	2.73	2.69	2.87	2.82	2.77	2.73	2.91	2.86	2.81	2.77
85	T.C.	38.3	35.3	32.3	29.6	38.6	35.6	32.6	29.8	38.9	35.9	32.9	30.4
	S.C.	24.6	24.7	25.1	25.2	25.5	25.6	26.0	26.2	26.3	26.5	26.9	27.5
	K.W.	3.13	3.06	3.01	2.96	3.16	3.10	3.04	2.99	3.21	3.15	3.09	3.04
95	T.C.	36.6	33.8	30.9	28.4	36.9	34.0	31.1	28.7	37.0	34.2	31.4	29.0
	S.C.	24.5	24.6	25.0	25.3	25.4	25.5	25.9	26.2	26.3	26.4	26.9	27.0
	K.W.	3.53	3.45	3.39	3.33	3.57	3.50	3.43	3.37	3.62	3.54	3.47	3.42
105	T.C.	34.5	31.8	29.1	26.8	34.7	32.0	29.4	27.1	34.8	32.2	29.7	27.2
	S.C.	23.9	24.0	24.4	24.7	25.0	25.1	25.5	25.5	26.0	26.1	26.6	26.3
	K.W.	4.02	3.93	3.85	3.78	4.06	3.97	3.88	3.82	4.11	4.02	3.93	3.87
115	T.C.	32.3	29.7	27.3	25.1	32.4	29.9	27.6	25.8	32.6	30.1	27.7	26.1
	S.C.	23.3	23.3	23.9	23.8	24.2	24.3	24.8	25.3	25.4	25.4	25.5	25.6
	K.W.	4.60	4.51	4.41	4.37	4.64	4.54	4.45	4.40	4.69	4.58	4.51	4.47
125	T.C.	30.1	27.6	25.5	23.4	30.1	27.8	25.8	24.5	30.4	28.0	25.7	25.0
	S.C.	22.7	22.6	23.4	22.9	23.4	23.5	24.1	25.1	24.8	24.7	24.4	24.9
	K.W.	5.18	5.09	4.97	4.96	5.22	5.11	5.02	4.98	5.27	5.14	5.09	5.07

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.

Air Handler	Coil	T.C.	S.C.	KW
N1AHB1206	G2FD036(S,H)17	1.03	1.03	1.01
N1AHB1206	G2FD046(S,H)17	1.04	1.04	0.99
N1VSB12	G2FD036(S,H)17	1.01	1.01	0.91
N1VSB12	G2FD046(S,H)17	1.05	1.05	0.94
F2RC/F2FC036		0.99	0.99	0.93
F2RP/F2FP036		1.04	1.04	0.94
	G1FA036S14	1.00	1.00	0.99
	G1FA048S17	1.05	1.05	1.00
	G1FA048S21	1.05	1.05	1.00
	G1HD036	1.01	1.01	0.96
	G1HD048	1.06	1.06	0.96
	G1NA036S17J	1.01	1.01	0.97
	G1NA036S21C	1.01	1.01	0.97
	G1NA048S21D	1.04	1.04	1.01
	G1UA036S14	1.00	1.00	0.99
	G1UA036S17,21	1.00	1.00	1.00
	G1UA048S17	1.05	1.05	1.00
	G1UA048S21	1.05	1.05	1.00
	G2FD035(S,H)14	1.00	1.00	0.95
	G2FD036(S,H)17	1.03	1.03	1.01
	G2FD036(S,H)21	1.03	1.03	1.01
	G2FD042(S,H)21	1.04	1.04	1.02
	G2FD046(S,H)17	1.04	1.04	0.99
	G2FD048(S,H)21,24	1.05	1.05	0.98

Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUA12V	G1FA036S14	1.01	1.01	0.93
P1DUA12V	G1UA036S14	1.01	1.01	0.93
P1DUB16V	G1FA036S17	1.02	1.02	0.91
P1DUB16V	G1FA048S17	1.06	1.06	0.91
P1DUB16V	G1UA036S17	1.02	1.02	0.91
P1DUB16V	G1UA048S17	1.06	1.06	0.91
P1DUB16V	G2FD036(S,H)17	1.05	1.05	0.92
P1DUB16V	G2FD046(S,H)17	1.06	1.06	0.93
P1DUC20V	G1FA036S21	1.02	1.02	0.88
P1DUC20V	G1FA048S21	1.06	1.06	0.89
P1DUC20V	G1UA036S21	1.02	1.02	0.88
P1DUC20V	G1UA048S21	1.06	1.06	0.89
P1DUC20V	G2FD036(S,H)21	1.05	1.05	0.89
P1DUC20V	G2FD042(S,H)21	1.06	1.06	0.90
P1DUC20V	G2FD048(S,H)21	1.07	1.07	0.89
P1XUB12V	G1FA036S17	1.02	1.02	0.91
P1XUB12V	G1FA048S17	1.06	1.06	0.90
P1XUB12V	G1UA036S17	1.02	1.02	0.91
P1XUB12V	G1UA048S17	1.06	1.06	0.90
P1XUB12V	G2FD036(S,H)17	1.05	1.05	0.92
P1XUB12V	G2FD046(S,H)17	1.06	1.06	0.93
P1XUC20V	G1FA036S21	1.02	1.02	0.88
P1XUC20V	G1FA048S21	1.06	1.06	0.89
P1XUC20V	G1UA036S21	1.02	1.02	0.88
P1XUC20V	G1UA048S21	1.06	1.06	0.89
P1XUC20V	G2FD036(S,H)21	1.05	1.05	0.89
P1XUC20V	G2FD042(S,H)21	1.06	1.06	0.90
P1XUC20V	G2FD048(S,H)21	1.06	1.06	0.89

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE042S06											
INDOOR COIL MODEL NO.		G1FA048S21											
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	1300				1400				1500			
	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.	46.9	43.3	39.8	36.6	47.2	43.7	40.2	36.9	47.5	44.0	40.5	37.4
	S.C.	29.4	29.7	30.2	30.5	30.3	30.6	31.2	31.5	31.1	31.4	32.0	32.7
	K.W.	3.43	3.38	3.34	3.29	3.48	3.43	3.38	3.34	3.53	3.48	3.43	3.39
85	T.C.	45.7	42.3	38.8	35.6	46.1	42.6	39.1	36.1	46.3	42.9	39.4	36.3
	S.C.	29.7	29.9	30.4	30.6	30.6	30.8	31.4	31.9	31.5	31.8	32.3	32.7
	K.W.	3.76	3.71	3.66	3.62	3.81	3.76	3.71	3.66	3.86	3.81	3.76	3.72
95	T.C.	44.1	40.7	37.3	34.2	44.3	41.0	37.6	34.6	44.5	41.2	37.9	34.9
	S.C.	29.5	29.7	30.2	30.3	30.4	30.8	31.1	31.4	31.4	31.6	32.2	32.5
	K.W.	4.14	4.08	4.03	3.98	4.19	4.13	4.08	4.03	4.23	4.18	4.13	4.08
105	T.C.	41.9	38.7	35.5	32.7	42.2	39.0	35.8	32.9	42.4	39.1	36.0	33.2
	S.C.	28.8	29.0	29.5	29.9	29.9	30.1	30.6	30.8	31.0	31.1	31.6	31.9
	K.W.	4.56	4.50	4.44	4.38	4.61	4.55	4.49	4.44	4.65	4.60	4.54	4.49
115	T.C.	39.8	36.7	33.7	30.9	40.0	36.9	33.9	31.2	40.1	37.1	34.1	31.5
	S.C.	28.1	28.2	28.7	28.8	29.2	29.4	29.8	30.0	30.3	30.4	30.8	30.9
	K.W.	5.02	4.97	4.90	4.84	5.07	5.02	4.95	4.89	5.12	5.06	5.00	4.95
125	T.C.	37.7	34.7	31.9	29.1	37.8	34.8	32.0	29.5	37.8	35.1	32.2	29.8
	S.C.	27.4	27.4	27.9	27.7	28.5	28.7	29.0	29.2	29.6	29.7	30.0	29.9
	K.W.	5.48	5.44	5.36	5.30	5.53	5.49	5.41	5.34	5.59	5.52	5.46	5.41

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.

Air Handler	Coil	T.C.	S.C.	KW
N1AHC1606	G2FD042(S,H)21	0.98	0.98	0.97
N1AHC1606	G2FD048(S,H)21	0.99	0.99	0.97
N1VSC16	G2FD048(S,H)21	1.00	1.03	0.91
F2RP/F2FP042		0.96	0.99	0.93
F2FP048		1.00	1.03	0.98
	G1FA060S21,24	1.00	1.00	0.93
	G1HD048	1.00	1.00	0.98
	G1NA048S21D	0.98	0.98	0.97
	G1UA048S21	1.00	1.00	1.00
	G1UA060S21,24	1.00	1.00	0.93
	G2FD042(S,H)21	0.98	0.98	0.97
	G2FD046(S,H)17	1.00	1.00	0.98
	G2FD048(S,H)21,24	0.99	0.99	0.97
	G2FD060(S,H)24	1.00	1.00	0.93

Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUB16V	G2FD046(S,H)17	1.01	1.04	0.94
P1DUC20V	G1FA048S21	1.02	1.05	0.96
P1DUC20V	G1UA048S21	1.02	1.05	0.96
P1DUC20V	G2FD042(S,H)21	0.99	1.01	0.94
P1DUC20V	G2FD048(S,H)21	1.01	1.04	0.92
P1XUC16V	G1FA048S21	1.01	1.04	0.95
P1XUC16V	G1FA060S21	1.01	1.04	0.90
P1XUC16V	G1UA048S21	1.01	1.04	0.95
P1XUC16V	G1UA060S21	1.01	1.04	0.90
P1XUC16V	G2FD042(S,H)21	0.99	1.01	0.92
P1XUC16V	G2FD048(S,H)21	1.01	1.04	0.95
P1XUC20V	G1FA048S21	1.02	1.05	0.96
P1XUC20V	G1FA060S21	1.06	1.09	0.87
P1XUC20V	G1UA048S21	1.02	1.05	0.96
P1XUC20V	G1UA060S21	1.06	1.09	0.87
P1XUC20V	G2FD042(S,H)21	0.99	1.01	0.95
P1XUC20V	G2FD048(S,H)21	1.01	1.04	0.92

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE048S06											
INDOOR COIL MODEL NO.		G1FA048S21											
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	1450				1600				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.	54.5	50.4	46.3	42.5	55.1	51.0	46.9	43.0	55.5	51.4	47.3	43.7
	S.C.	33.9	34.2	34.7	34.9	35.2	35.5	36.0	36.4	36.4	36.7	37.4	38.0
	K.W.	4.10	4.01	3.93	3.85	4.16	4.08	3.99	3.92	4.23	4.15	4.07	3.99
85	T.C.	53.5	49.4	45.3	41.5	54.0	49.9	45.8	42.2	54.5	50.4	46.3	42.7
	S.C.	34.0	34.2	34.8	35.0	35.4	35.7	36.2	36.7	36.9	37.1	37.7	38.0
	K.W.	4.48	4.38	4.29	4.20	4.54	4.45	4.35	4.27	4.61	4.51	4.42	4.34
95	T.C.	51.4	47.5	43.6	40.0	51.8	48.0	44.0	40.4	52.2	48.3	44.4	40.8
	S.C.	33.6	34.0	34.5	34.8	35.1	35.5	36.0	36.2	36.5	36.8	37.5	37.6
	K.W.	4.94	4.83	4.72	4.63	5.00	4.89	4.79	4.70	5.08	4.97	4.87	4.77
105	T.C.	48.9	45.1	41.3	38.0	49.2	45.4	41.8	38.4	49.6	45.8	42.2	38.9
	S.C.	32.8	33.0	33.6	34.0	34.3	34.6	35.4	35.5	36.1	36.3	36.9	37.2
	K.W.	5.45	5.33	5.21	5.10	5.51	5.40	5.27	5.17	5.58	5.47	5.35	5.25
115	T.C.	46.2	42.6	39.1	35.8	46.6	43.0	39.5	36.2	46.8	43.3	39.8	37.5
	S.C.	32.0	32.1	32.8	32.7	33.6	33.8	34.1	34.3	35.0	35.3	35.6	36.7
	K.W.	6.01	5.88	5.73	5.62	6.07	5.94	5.82	5.69	6.16	6.01	5.89	5.82
125	T.C.	43.5	40.1	36.9	33.6	44.0	40.6	37.2	34.0	44.0	40.8	37.4	36.1
	S.C.	31.2	31.2	32.0	31.4	32.9	33.0	32.8	33.1	33.9	34.3	34.3	36.2
	K.W.	6.57	6.43	6.25	6.14	6.63	6.48	6.37	6.21	6.74	6.55	6.43	6.39

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.

Air Handler	Coil	T.C.	S.C.	KW
N1AHC1606	G2FD048(S,H)21	1.01	1.01	1.01
N1AHD2006	G2FD048(S,H)24	1.01	1.01	1.01
N1AHD2006	G2FD060(S,H)24	1.01	1.01	0.97
N1VSC16	G2FD048(S,H)21	1.02	1.04	0.99
N1VSD20	G2FD060(S,H)24	1.06	1.09	0.92
F2FP048		1.00	1.02	1.03
F2FP060		1.03	1.05	1.04
	G1FA060S21,24	1.01	1.01	0.98
	G1HD048	1.00	1.00	0.99
	G1HD060	1.04	1.04	1.01
	G1NA048S21D	0.98	0.98	0.98
	G1UA048S21	1.00	1.00	1.00
	G1UA060S21,24	1.01	1.01	0.98
	G2FD046(S,H)17	0.98	0.98	0.97
	G2FD048(S,H)21,24	1.01	1.01	1.01
	G2FD060(S,H)24	1.01	1.01	0.97

Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUC20V	G1FA048S21	1.02	1.04	0.96
P1DUC20V	G1FA060S21	1.01	1.03	0.97
P1DUC20V	G1UA048S21	1.02	1.04	0.96
P1DUC20V	G1UA060S21	1.03	1.05	0.94
P1DUC20V	G2FD048(S,H)21	1.03	1.05	0.96
P1XUC16V	G1FA048S21	1.02	1.04	0.96
P1XUC16V	G1FA060S21	1.03	1.05	0.95
P1XUC16V	G1UA048S21	1.02	1.04	0.96
P1XUC16V	G1UA060S21	1.03	1.05	0.95
P1XUC16V	G2FD048(S,H)21	1.01	1.03	0.98
P1XUC20V	G1FA048S21	1.00	1.02	0.98
P1XUC20V	G1FA060S21	1.01	1.03	0.98
P1XUC20V	G1UA048S21	1.00	1.02	0.98
P1XUC20V	G1UA060S21	1.01	1.03	0.98
P1XUC20V	G2FD048(S,H)21	1.01	1.03	0.99
P1XUD20V	G1FA060S24	1.01	1.03	0.97
P1XUD20V	G1UA060S24	1.01	1.03	0.97
P1XUD20V	G2FD048(S,H)24	1.01	1.03	0.99
P1XUD20V	G2FD060(S,H)24	1.01	1.03	0.97

COOLING PERFORMANCE DATA													
AIR CONDITIONER MODEL NO.		H4DE060S06											
INDOOR COIL MODEL NO.		G1FA060S21,24											
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	1700				1850				2000			
	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.	66.6	61.7	56.8	52.2	67.2	62.3	57.4	52.8	67.7	62.8	57.9	53.3
	S.C.	41.6	42.0	42.7	43.0	42.9	43.3	44.1	44.5	44.2	44.7	45.5	45.9
	K.W	4.75	4.67	4.59	4.51	4.82	4.74	4.66	4.58	4.88	4.80	4.72	4.64
85	T.C.	65.6	60.8	55.9	51.3	66.2	61.4	56.4	51.9	66.7	61.8	56.9	52.6
	S.C.	41.9	42.2	42.9	43.2	43.4	43.7	44.4	44.8	44.8	45.2	45.9	46.6
	K.W	5.23	5.14	5.06	4.97	5.30	5.22	5.13	5.05	5.36	5.28	5.19	5.11
95	T.C.	62.6	57.9	53.2	49.0	63.0	58.5	53.7	49.6	63.4	58.8	54.3	50.0
	S.C.	41.2	41.5	42.1	42.8	42.7	43.3	43.9	44.4	44.3	44.6	45.7	46.0
	K.W	5.81	5.73	5.64	5.55	5.88	5.80	5.71	5.63	5.94	5.86	5.78	5.69
105	T.C.	58.9	54.6	50.1	46.1	59.3	54.9	50.7	46.6	59.5	55.3	51.0	46.9
	S.C.	40.1	40.4	41.0	41.3	41.7	42.0	43.0	43.2	43.3	43.7	44.3	44.5
	K.W	6.46	6.38	6.30	6.21	6.56	6.45	6.36	6.28	6.60	6.51	6.43	6.35
115	T.C.	55.3	51.1	47.1	43.3	55.5	51.4	47.5	43.7	55.8	51.8	47.9	44.2
	S.C.	39.0	38.9	39.8	40.1	40.4	40.6	41.4	41.6	42.1	42.4	43.2	43.4
	K.W	7.20	7.13	7.04	6.95	7.28	7.20	7.11	7.02	7.34	7.25	7.16	7.09
125	T.C.	51.7	47.6	44.1	40.5	51.7	47.9	44.3	40.8	52.1	48.3	44.8	41.5
	S.C.	37.9	37.4	38.6	38.9	39.1	39.2	39.8	40.0	40.9	41.1	42.1	42.3
	K.W	7.94	7.88	7.78	7.69	8.00	7.95	7.86	7.76	8.08	7.99	7.89	7.83

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.

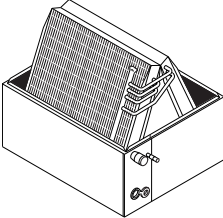
NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
N1AHD2006	G2FD060(S,H)24	1.00	1.00	1.00
N1VSD20	G2FD060(S,H)24	0.99	0.99	0.95
F2FP060		0.98	0.98	1.03
	G1HD060	1.00	1.00	1.02
	G1UA060S21,24	1.00	1.00	1.00
	G2FD060(S,H)24	1.00	1.00	1.00

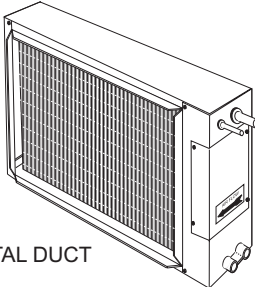
Variable Speed Furnace	Coil	T.C.	S.C.	KW
P1DUC20V	G1FA060S21	1.01	1.01	1.00
P1DUC20V	G1UA060S21	1.01	1.01	1.00
P1XUC20V	G1FA060S21	1.01	1.01	1.00
P1XUC20V	G1UA060S21	1.01	1.01	1.00
P1XUD20V	G1FA060S24	1.01	1.01	1.00
P1XUD20V	G1UA060S24	1.01	1.01	1.00
P1XUD20V	G2FD060(S,H)24	1.01	1.01	1.00

MATCHING INDOOR COMPONENTS

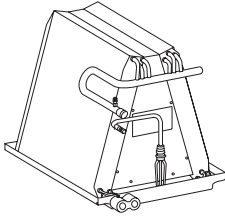
ADD-ON COILS - FOR FURNACE APPLICATIONS



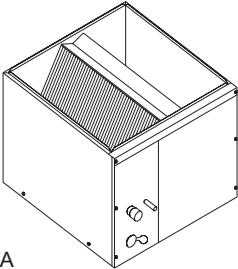
G1UA
UPFLOW



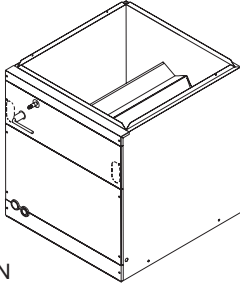
G1HD
HORIZONTAL DUCT



G1NA
UPFLOW



G1FA
FULL CASED

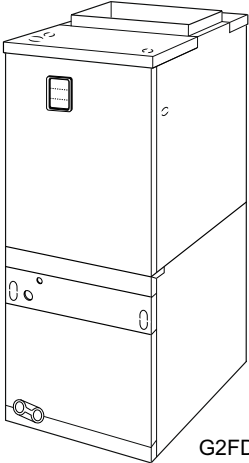


G2FD*
MULTI-POSITION
(UPFLOW, HORIZONTAL
AND DOWNFLOW)

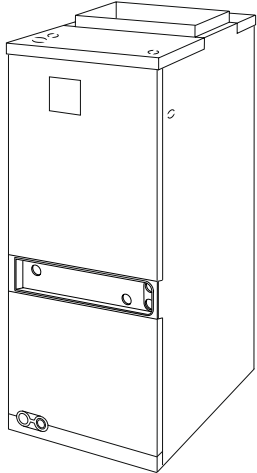
* Available with factory installed horizontal drain pan.

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)

NOTES

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036-21021-003 Rev. C (0203)
Supersedes: 036-21021-003 Rev. B (0702)

**Unitary
Product
Group**

**5005
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**Norman
OK
73069**