

TECHNICAL GUIDE

SPLIT-SYSTEM HEAT PUMPS

13 SEER – R-410A

MODELS:

CHGD24 THRU 48

(2 THRU 3.5 NOMINAL TONS, 1 PHASE)



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

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WARRANTY

Standard 5-year limited parts warranty.
Standard 5-year limited compressor warranty.

DESCRIPTION

The 13 SEER Series unit is the outdoor part of a versatile climate system. It is designed with a matching indoor coil component from Johnson Controls Unitary Products. Available for typical applications this climate system is supported with accessories and documents to serve specific functions.

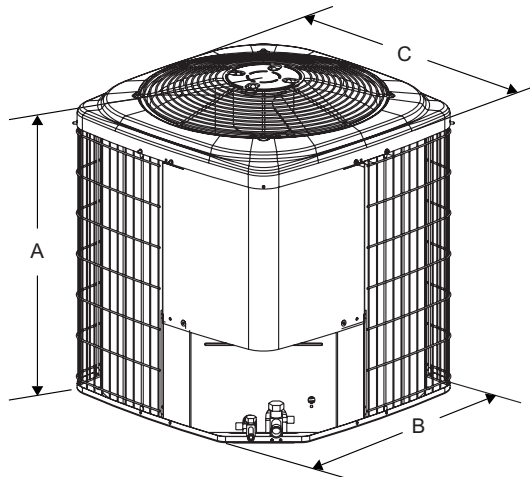
FEATURES

- **Quality Condenser Coils** - The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **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. A liquid line filter-drier further protects the compressor.
- **Durable Finish** - The cabinet is made of pre-painted steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight.
- **Lower Installed Cost** - Installation time and costs are reduced by easy power and control wiring connections. The unit contains enough refrigerant for matching indoor coils. 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 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, a single panel covering the electrical controls, and the molex plug in the control box connecting the condenser fan make for easy servicing of the unit.
- **Factory Tested** - to verify system operation and control functioning before shipment.
- **U.L. and C.U.L. listed** - approved for outdoor application.
- **Agency Listed** - U.L. and C.U.L. listed - approved for outdoor application. The unit is certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

Physical and Electrical Data

MODEL		CHGD24S41Q1	CHGD30S41Q1	CHGD36S41Q1	CHGD42S41Q1				
Unit Supply Voltage		208-230V, 1 ϕ , 60Hz							
Normal Voltage Range ¹		187 to 252							
Minimum Circuit Ampacity		11.2	14.1	19.7	28.6				
Max. Overcurrent Device Amps ²		15	20	30	30				
Min. Overcurrent Device Amps ³		15	15	20	30				
Compressor Type		Recip	Recip	Recip	Scroll				
Compressor Amps	Rated Load	8.3	10.6	14.7	21.8				
	Locked Rotor	43.0	54.0	74.0	105.0				
Crankcase Heater		Yes	Yes	Yes	No				
Fan Motor Amps	Rated Load	0.80	0.80	1.5	1.5				
Fan Diameter Inches		24	24	24	24				
Minimum Wire Size 75° C Copper (Max Length in Ft)	AWG	10	8	10	8	10	8	10	8
	208V Max Length	72	115	66	104	43	69	37	58
	230V Max Length	80	127	73	116	48	76	40	64
Fan Motor	Rated HP	1/8		1/8		1/4		1/4	
	Nominal RPM	1075		1075		850		850	
	Nominal CFM	2900		3100		3900		3900	
Coil	Face Area Sq. Ft.	18.3		21.0		23.6		23.6	
	Rows Deep	1		1		1		1	
	Fin / Inches	22		22		22		22	
Liquid Line Set OD (Field Installed)		3/8		3/8		3/8		3/8	
Vapor Line Set OD (Field Installed)		3/4		3/4		3/4		7/8	
Unit Charge (Lbs. - Oz.) ⁴		8 - 13		9 - 0		9 - 7		9 - 12	
Charge Per Foot, Oz.		0.62		0.62		0.62		0.67	
Operating Weight Lbs.		184		196		208		208	

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit.



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

DIMENSIONS

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
24	32	34	34	3/8"	3/4"
30	36	34	34		
36	40	34	34		
42	40	34	34		7/8"

1. Including Fan Guard.

System Charge for Various Matched Systems

Outdoor Unit	CHGD24S41Q1	CHGD30S41Q1	CHGD36S41Q1	CHGD42S41Q1
Factory Charge, lbs-oz	8 - 13	9 - 0	9 - 7	9 - 12
Rated CFM	800	1000	1200	1400
PreCharged Indoor Coils	Pre-Charged Refrigerant Line Set See Table Below			
Indoor Coil ¹	Additional Charge, Oz ²			
PC35C3XN1	2442-	2442-	-	-
PC43C3XN1	-	-	2442-	-
PC60C3XN1	-	-	-	2445-

Footnotes:

1. Add 8 oz. of charge when using these coils.
2. Match series number with table below for complete line set Part Number. (I.e. 2442- indicates 2442-8151 for a 15 ft installation requirement.)

Pre-charged Refrigerant Line Set	Line Set Length (ft)	Factory R-22 charge lbs-oz	Liquid Line Size	Suction Line Size
4463Q1531	15	0 - 10	3 / 8	3 / 4
4463Q2031	20	0 - 13		
4463Q2531	25	1 - 0		
4463Q3031	30	1 - 3		
4463Q4031	40	1 - 10		
4463Q5031	50	2 - 0		
4473Q1531	15	0 - 10	3 / 8	7 / 8
4473Q2031	20	0 - 13		
4473Q2531	25	1 - 0		
4473Q3031	30	1 - 3		
4473Q4031	40	1 - 10		
4473Q5031	50	2 - 0		

COOLING CAPACITY - Upflow and Downflow Furnaces and Coils

UNIT MODEL	FURNACE		COIL MODEL	COOLING					
	CFM RANGE (Min.-max.)	W		RATED CFM	NET MBH		KW	SEER ¹	EER
					TOTAL	SENS.			
CHGD24S41Q1	600 - 1000	21	PC35C3XN1	800	23.0	17.5	1.9	13.00	11.00
CHGD30S41Q1	800 - 1200	21	PC35C3XN1	1000	28.8	20.8	2.2	13.00	11.00
CHGD36S41Q1	1000 - 1400	21	PC43C3XN1	1200	35.0	26.8	2.8	13.00	11.00
CHGD42S41Q1	1200 - 1600	24	PC60C3XN1	1400	41.5	31.4	3.3	13.00	11.00

1. Requires a 2FD* Blower Time Delay.

HEATING CAPACITY - Upflow, Downflow, and Horizontal Furnaces and Coils

UNIT MODEL*	COIL ¹ MODEL	ARI HEATING ²							
		47°F			17°F			HSPF	
		MBH	COP	KW	MBH	COP	KW	STD	
CHGD24S41Q1	PC35C3XN1	23.2	3.40	2.00	12.6	2.24	1.65	7.70	
CHGD30S41Q1	PC35C3XN1	28.8	3.64	2.02	16.5	2.60	1.58	7.70	
CHGD36S41Q1	PC43C3XN1	35.0	3.42	3.00	21.2	2.36	2.63	7.70	
CHGD42S41Q1	PC60C3XN1	41.0	3.66	3.28	27.8	2.56	3.18	7.70	

1. Rated CFM same as for cooling.
2. Heating MBH based on ARI standards of 70° DB entering indoor air, 72% RH outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.
 CP equals MBH output divided by (total KW input x 3.412).
 HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

ACCESSORIES

Refer to Price Manual for specific model numbers.

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

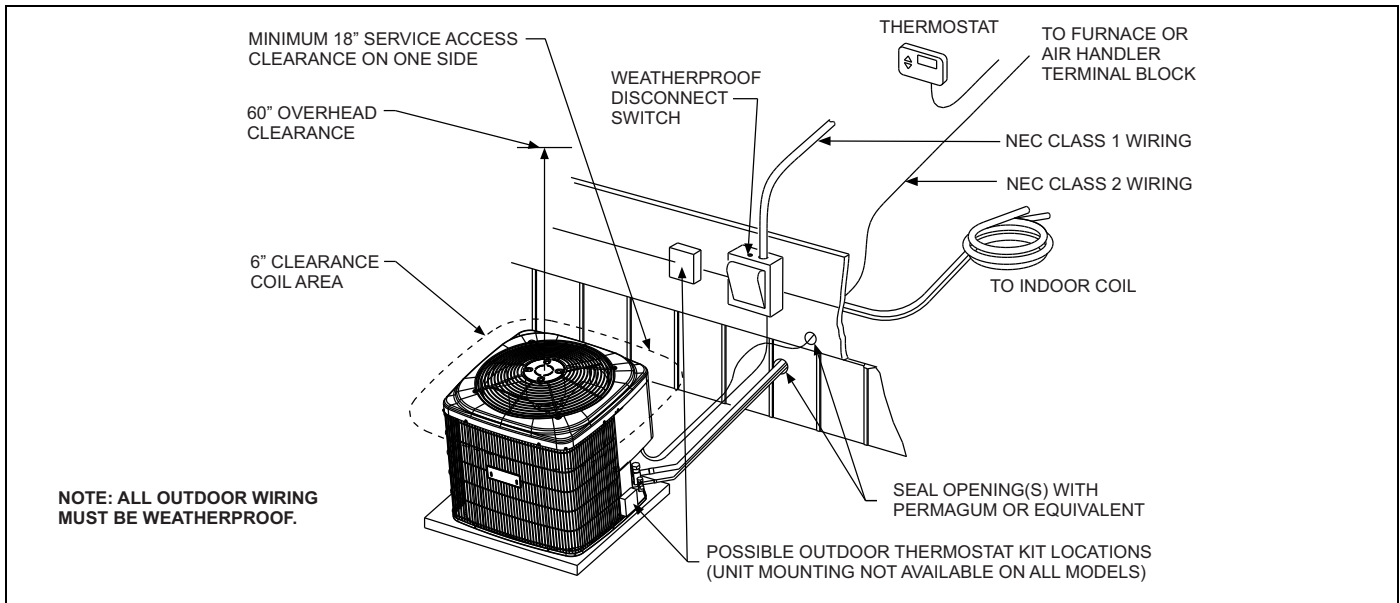
Thermostats - Compatible thermostat controls are available through accessory sourcing. For optimum performance and installation, refer to the UPGNET "Low Voltage Wiring Diagram" document to select and apply controls.

SOUND LEVEL - TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)

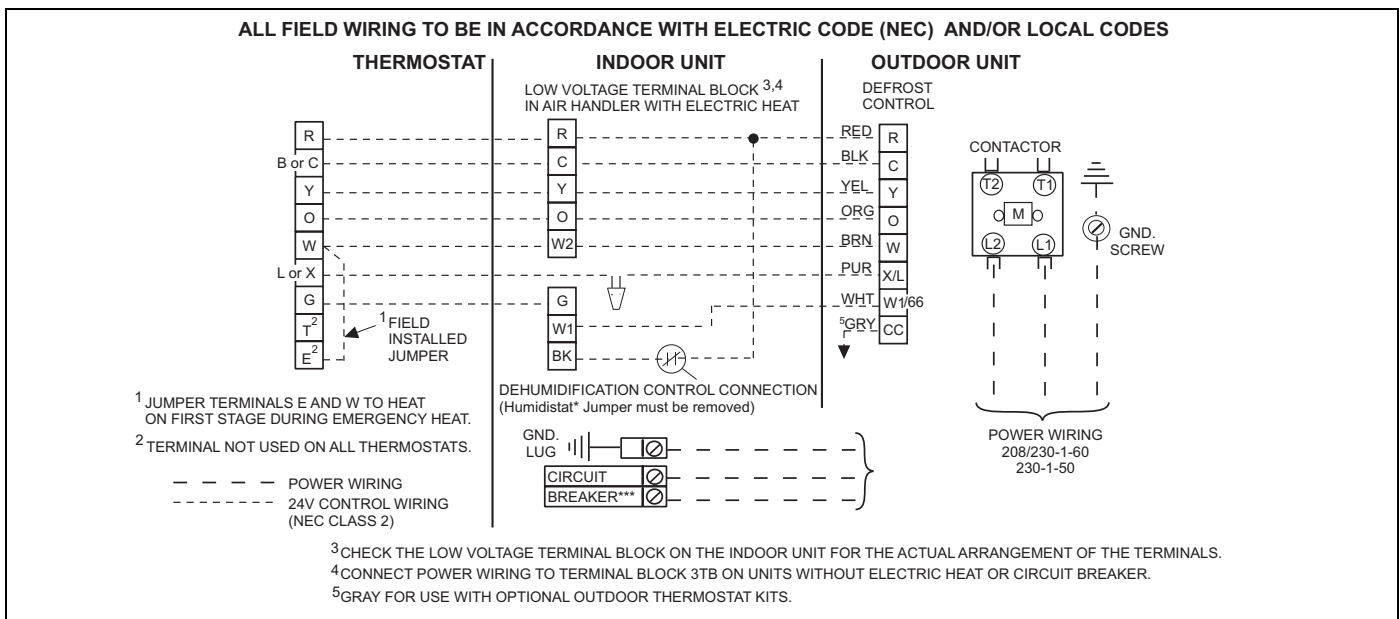
Size	Test Condition	63	125	250	500	1000	2000	4000	8000	dBA	SQI
	RSS Sound Power Calibration 1091 402	82.8	85.4	85.9	85.3	88.1	88.6	86.6	83.9	-	-
24	Cooling Mode	69.0	69.9	68.0	75.0	70.9	64.8	66.0	61.8	76.4	19.05
	Heating Mode	71.0	71.2	72.8	73.9	69.7	66.0	65.7	61.4	75.8	19.04
30	Cooling Mode	68.2	69.7	64.8	67.6	71.0	65.6	66.7	63.2	74.7	19.01
	Heating Mode	71.0	70.1	66.3	66.3	69.5	67.1	68.0	64.5	74.8	19.00
36	Cooling Mode	71.7	71.0	69.1	71.7	72.6	67.5	67.6	63.7	76.5	19.09
	Heating Mode	73.1	72.0	72.4	71.3	72.6	67.5	67.4	63.5	76.5	19.05
36	Cooling Mode (With Blanket)	72.2	71.6	69.5	71.2	67.3	64.0	65.0	60.0	73.5	19.04
	Heating Mode (With Blanket)	72.6	71.7	78.0	70.2	69.2	64.9	63.8	60.9	74.8	19.08
42	Cooling Mode	71.5	70.5	68.0	69.9	67.7	64.2	60.3	57.6	72.0	19.12
	Heating Mode	72.7	70.5	70.0	71.6	72.9	66.5	63.7	60.6	76.0	19.09

* Rated in accordance with ARI 270-2008 Standards.

TYPICAL INSTALLATION



TYPICAL FIELD WIRING



COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		CHGD24S41Q1														
INDOOR COIL MODEL NO.		PC35C3XN1														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	600					800					1000				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	23.1	26.4	26.4	29.2	31.0	26.0	28.0	27.8	30.2	31.7	28.9	29.7	29.2	31.3	32.5
	S.C.	23.1	21.6	18.6	18.7	15.9	26.0	25.0	20.8	20.3	16.9	28.9	28.5	22.9	21.8	18.0
	KW	1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
75	T.C.	22.1	24.7	24.7	27.4	29.5	24.7	26.1	26.0	28.5	30.3	27.3	27.6	27.2	29.6	31.1
	S.C.	22.1	20.8	17.8	17.9	15.1	24.7	23.9	20.0	19.7	16.1	27.3	26.9	22.2	21.5	17.1
	KW	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0
85	T.C.	21.1	23.0	22.9	25.6	28.1	23.4	24.2	24.1	26.7	28.9	25.6	25.5	25.3	27.9	29.6
	S.C.	21.1	20.1	17.0	17.1	14.2	23.4	22.8	19.3	19.1	15.3	25.6	25.4	21.5	21.1	16.3
	KW	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1
95	T.C.	20.2	21.3	21.2	23.7	26.6	22.1	22.3	22.3	25.0	27.4	24.0	23.4	23.3	26.2	28.2
	S.C.	20.2	19.3	16.2	16.3	13.4	22.1	21.6	18.5	18.5	14.4	24.0	23.4	20.8	20.7	15.4
	KW	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3
105	T.C.	18.3	19.0	18.6	21.5	24.3	20.2	20.4	19.7	22.6	25.1	22.1	21.8	20.7	23.7	26.0
	S.C.	18.3	18.2	15.0	15.3	12.4	20.2	20.3	17.4	17.6	13.6	22.1	21.8	19.7	19.8	14.7
	KW	2.0	2.0	2.0	2.1	2.2	2.2	2.2	2.1	2.2	2.3	2.3	2.3	2.2	2.3	2.4
115	T.C.	16.5	16.7	16.0	19.3	22.0	18.4	18.5	17.0	20.2	22.9	20.2	20.2	18.1	21.1	23.8
	S.C.	16.5	16.7	13.8	14.4	11.5	18.4	18.5	16.2	16.6	12.8	20.2	20.2	18.1	18.8	14.0
	KW	2.1	2.1	2.1	2.2	2.3	2.3	2.3	2.2	2.3	2.4	2.4	2.4	2.3	2.5	2.5
125	T.C.	14.7	14.5	13.4	17.0	19.7	16.5	16.5	14.4	17.8	20.6	18.3	18.6	15.5	18.5	21.6
	S.C.	14.7	14.5	12.6	13.4	10.6	16.5	16.5	14.4	15.7	11.9	18.3	18.6	15.5	17.9	13.3
	KW	2.2	2.2	2.2	2.3	2.5	2.4	2.4	2.3	2.5	2.6	2.6	2.6	2.4	2.6	2.7

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

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.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		CHGD30S41Q1														
INDOOR COIL MODEL NO.		PC35C3XN1														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	800					1000					1200				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	27.2	30.9	30.9	33.8	35.1	29.9	32.4	32.4	34.5	34.8	32.6	33.9	33.8	35.2	34.4
	S.C.	27.2	24.9	21.7	21.4	18.3	29.9	28.0	23.8	22.8	18.8	32.6	31.1	25.9	24.2	19.3
	KW	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1
75	T.C.	25.8	28.8	28.7	31.7	33.5	28.3	30.2	30.1	32.6	33.5	30.9	31.6	31.5	33.5	33.5
	S.C.	25.8	24.0	20.6	20.5	17.3	28.3	27.0	22.8	22.1	17.9	30.9	29.9	25.0	23.8	18.6
	KW	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3
85	T.C.	24.4	26.7	26.5	29.7	32.0	26.8	28.0	27.9	30.7	32.3	29.1	29.3	29.2	31.7	32.6
	S.C.	24.4	23.0	19.5	19.6	16.3	26.8	25.9	21.8	21.5	17.1	29.1	28.8	24.1	23.4	17.9
	KW	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4
95	T.C.	23.1	24.6	24.3	27.6	30.4	25.2	25.8	25.6	28.8	31.1	27.3	26.9	26.9	30.0	31.7
	S.C.	23.1	22.0	18.4	18.7	15.4	25.2	24.8	20.8	20.8	16.3	27.3	26.9	23.2	23.0	17.2
	KW	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6
105	T.C.	20.7	21.2	21.2	24.2	27.9	22.9	23.1	22.2	25.0	28.8	25.1	24.9	23.1	25.8	29.6
	S.C.	20.7	20.2	17.0	17.3	14.2	22.9	22.9	19.3	19.3	15.3	25.1	24.9	21.5	21.4	16.4
	KW	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.8	2.8
115	T.C.	18.4	17.9	18.0	20.9	25.5	20.7	20.4	18.7	21.2	26.5	23.0	23.0	19.3	21.6	27.5
	S.C.	18.4	17.9	15.6	15.8	13.1	20.7	20.4	17.7	17.8	14.4	23.0	23.0	19.3	19.8	15.7
	KW	2.6	2.6	2.6	2.7	2.8	2.7	2.7	2.7	2.8	2.9	2.9	2.9	2.8	2.9	3.0
125	T.C.	16.0	14.5	14.9	17.5	23.0	18.4	17.7	15.2	17.5	24.2	20.8	21.0	15.5	17.4	25.3
	S.C.	16.0	14.5	14.1	14.4	12.0	18.4	17.7	15.2	16.3	13.5	20.8	21.0	15.5	17.4	14.9
	KW	2.7	2.7	2.7	2.8	2.9	2.9	2.9	2.8	3.0	3.1	3.0	3.0	2.9	3.1	3.2

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

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.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		CHGD36S41Q1														
INDOOR COIL MODEL NO.		PC43C3XN1														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1000					1200					1400				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	36.4	38.9	39.7	42.4	45.4	38.3	40.2	40.5	43.4	46.2	40.2	41.6	41.3	44.4	47.1
	S.C.	36.4	32.2	28.1	27.4	22.6	38.3	35.5	29.9	29.1	23.6	40.2	38.7	31.7	30.8	24.6
	KW	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6
75	T.C.	34.0	36.3	36.7	39.9	43.1	36.0	37.4	37.6	40.9	43.9	38.0	38.6	38.4	41.9	44.7
	S.C.	34.0	31.1	26.7	26.3	21.5	36.0	33.9	28.6	28.1	22.5	38.0	36.7	30.5	29.9	23.6
	KW	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.8
85	T.C.	31.6	33.7	33.8	37.3	40.8	33.7	34.6	34.7	38.3	41.5	35.9	35.6	35.6	39.4	42.2
	S.C.	31.6	29.9	25.3	25.2	20.5	33.7	32.3	27.3	27.1	21.5	35.9	34.7	29.3	29.0	22.6
	KW	2.6	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	3.0
95	T.C.	29.2	31.1	30.9	34.7	38.5	31.5	31.8	31.8	35.8	39.2	33.7	32.5	32.7	36.8	39.8
	S.C.	29.2	28.8	23.9	24.1	19.5	31.5	30.7	26.0	26.1	20.5	33.7	32.5	28.1	28.1	21.6
	KW	2.8	2.9	2.9	2.9	3.0	2.9	3.0	3.0	3.0	3.1	3.0	3.1	3.1	3.1	3.2
105	T.C.	26.4	26.9	26.8	31.4	35.8	28.7	28.6	27.3	32.5	36.5	31.0	30.4	27.9	33.6	37.1
	S.C.	26.4	25.8	22.2	22.8	18.3	28.7	28.2	23.9	24.8	19.4	31.0	30.4	25.7	26.9	20.5
	KW	3.0	3.0	3.0	3.1	3.2	3.1	3.1	3.1	3.2	3.3	3.2	3.3	3.2	3.3	3.4
115	T.C.	23.5	22.7	22.7	28.2	33.1	25.9	25.5	22.9	29.3	33.8	28.2	28.2	23.2	30.5	34.5
	S.C.	23.5	22.7	20.4	21.4	17.2	25.9	25.5	21.8	23.5	18.4	28.2	28.2	23.2	25.7	19.5
	KW	3.1	3.1	3.1	3.2	3.4	3.3	3.3	3.2	3.4	3.5	3.4	3.4	3.3	3.5	3.6
125	T.C.	20.6	18.6	18.5	24.9	30.4	23.0	22.3	18.5	26.1	31.1	25.5	26.0	18.4	27.3	31.8
	S.C.	20.6	18.6	18.5	20.1	16.0	23.0	22.3	18.5	22.3	17.3	25.5	26.0	18.4	24.5	18.5
	KW	3.3	3.2	3.2	3.4	3.6	3.5	3.4	3.3	3.5	3.7	3.7	3.6	3.4	3.7	3.8

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

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.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		CHGD42S41Q1														
INDOOR COIL MODEL NO.		PC60C3XN1														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1200					1400					1600				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	39.7	42.2	42.3	46.6	50.3	41.4	43.0	43.0	47.1	51.6	43.2	43.9	43.7	47.7	52.9
	S.C.	39.7	37.8	32.1	32.0	25.7	41.4	41.1	34.2	33.9	27.1	43.2	43.9	36.3	35.8	28.4
	KW	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.4	2.5	2.5
75	T.C.	38.3	40.2	40.3	44.3	48.1	39.9	41.0	41.0	44.9	49.1	41.6	41.9	41.7	45.6	50.2
	S.C.	38.3	36.9	31.2	31.0	24.8	39.9	39.9	33.3	33.0	26.1	41.6	41.9	35.4	34.9	27.3
	KW	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85	T.C.	36.9	38.2	38.2	41.9	45.8	38.4	39.0	39.0	42.7	46.7	40.0	39.9	39.7	43.5	47.5
	S.C.	36.9	36.0	30.2	30.0	23.9	38.4	38.6	32.3	32.0	25.1	40.0	39.9	34.5	34.1	26.2
	KW	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
95	T.C.	35.4	36.1	36.2	39.6	43.5	36.9	37.0	36.9	40.5	44.2	38.4	37.9	37.7	41.4	44.9
	S.C.	35.4	35.1	29.2	29.0	23.0	36.9	37.0	31.4	31.1	24.1	38.4	37.9	33.5	33.2	25.1
	KW	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.3	3.3
105	T.C.	33.2	33.7	33.4	36.7	40.2	34.5	34.6	34.1	37.4	40.8	35.9	35.5	34.8	38.1	41.4
	S.C.	33.2	33.4	28.0	27.8	21.7	34.5	34.6	30.1	29.8	22.8	35.9	35.5	32.3	31.9	23.8
	KW	3.6	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.7	3.7
115	T.C.	31.1	31.3	30.6	33.8	37.1	32.2	32.3	31.3	34.4	37.5	33.4	33.2	32.0	34.9	37.9
	S.C.	31.1	31.3	26.8	26.6	20.4	32.2	32.3	28.9	28.6	21.5	33.4	33.2	31.0	30.6	22.6
	KW	4.0	4.0	4.0	4.0	4.1	4.0	4.0	4.0	4.0	4.1	4.0	4.0	4.0	4.0	4.1
125	T.C.	28.9	28.9	27.9	31.0	33.9	29.9	29.9	28.5	31.4	34.2	30.9	30.9	29.2	31.7	34.5
	S.C.	28.9	28.9	25.5	25.4	19.1	29.9	29.9	27.7	27.4	20.2	30.9	30.9	29.2	29.4	21.3
	KW	4.5	4.4	4.4	4.4	4.5	4.4	4.4	4.4	4.4	4.5	4.4	4.4	4.4	4.4	4.5

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

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.

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		CHGD24S41Q1								
EVAPORATOR COIL MODEL NO		PC35C3XN1								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		600			800			1000		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	28.4	2.1	4.0	30.1	2.0	4.3	31.8	2.0	4.6
	70	26.7	2.2	3.6	28.4	2.2	3.9	30.1	2.1	4.1
	80	25.1	2.3	3.2	26.8	2.3	3.5	28.5	2.2	3.7
47	60	23.4	1.9	3.5	24.5	1.9	3.7	25.7	1.9	3.9
	70	22.0	2.0	3.2	22.2	2.0	3.3	22.4	2.0	3.3
	80	20.6	2.1	2.9	19.9	2.0	2.9	19.1	2.0	2.8
40	60	20.7	1.9	3.2	21.9	1.9	3.4	23.1	1.9	3.5
	70	19.3	1.9	2.9	20.4	2.0	3.1	21.6	2.0	3.2
	80	17.9	2.0	2.7	19.0	2.0	2.8	20.0	2.1	2.9
30	60	17.2	1.7	2.9	18.1	1.8	3.0	19.0	1.8	3.0
	70	15.8	1.8	2.6	16.7	1.8	2.7	17.6	1.9	2.7
	80	14.3	1.8	2.3	15.2	1.9	2.4	16.2	1.9	2.5
17	60	7.9	1.6	1.5	11.2	1.6	2.0	14.4	1.7	2.5
	70	9.0	1.6	1.7	11.0	1.7	1.9	13.0	1.7	2.2
	80	10.0	1.6	1.8	10.9	1.7	1.9	11.7	1.7	2.0
10	60	10.5	1.5	2.1	11.2	1.6	2.1	11.9	1.6	2.1
	70	9.3	1.5	1.8	9.9	1.6	1.9	10.6	1.6	1.9
	80	8.0	1.5	1.6	8.6	1.6	1.6	9.3	1.6	1.7

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

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		CHGD30S41Q1								
EVAPORATOR COIL MODEL NO		PC35C3XN1								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		800			1000			1200		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	33.0	2.5	3.9	35.7	2.4	4.3	38.5	2.4	4.7
	70	31.4	2.6	3.6	34.1	2.6	3.9	36.9	2.6	4.2
	80	29.8	2.7	3.2	32.5	2.7	3.5	35.2	2.7	3.8
47	60	28.8	2.3	3.6	30.6	2.3	3.9	32.3	2.3	4.1
	70	26.6	2.4	3.2	28.3	2.4	3.4	29.9	2.4	3.6
	80	24.4	2.5	2.9	26.0	2.5	3.0	27.6	2.5	3.2
40	60	25.8	2.2	3.4	27.1	2.3	3.5	28.4	2.3	3.7
	70	24.2	2.3	3.0	25.4	2.3	3.2	26.6	2.4	3.3
	80	22.6	2.4	2.7	23.7	2.4	2.8	24.7	2.5	2.9
30	60	19.3	2.3	2.5	19.9	2.3	2.5	20.4	2.4	2.5
	70	20.8	2.2	2.7	21.5	2.3	2.8	22.2	2.3	2.9
	80	22.3	2.2	3.0	23.1	2.2	3.1	24.0	2.2	3.2
17	60	13.3	2.1	1.9	14.8	2.1	2.0	16.3	2.2	2.2
	70	15.4	2.1	2.2	16.5	2.1	2.3	17.7	2.1	2.4
	80	17.4	2.0	2.5	18.2	2.1	2.6	19.0	2.1	2.7
10	60	13.0	2.0	1.9	10.0	2.1	1.4	6.9	2.1	1.0
	70	14.5	2.0	2.1	13.4	2.0	1.9	12.2	2.1	1.7
	80	16.0	2.0	2.4	16.7	2.0	2.5	17.5	2.0	2.5

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

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		CHGD36S41Q1								
EVAPORATOR COIL MODEL NO		PC43C3XN1								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1000			1200			1400		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	44.9	3.1	4.2	46.3	3.2	4.3	47.8	3.2	4.4
	70	42.7	3.3	3.8	44.3	3.3	3.9	45.8	3.4	4.0
	80	40.6	3.4	3.5	42.2	3.5	3.6	43.9	3.5	3.6
47	60	36.8	2.9	3.7	38.6	3.0	3.8	40.5	3.0	3.9
	70	28.4	2.8	3.0	33.4	3.0	3.3	38.5	3.2	3.5
	80	19.9	2.7	2.2	28.2	3.0	2.7	36.5	3.3	3.2
40	60	34.6	2.8	3.6	35.2	2.9	3.6	35.8	3.0	3.5
	70	24.0	3.0	2.4	32.5	3.0	3.2	41.1	3.1	3.9
	80	13.3	3.1	1.3	29.8	3.1	2.8	46.3	3.2	4.3
30	60	28.1	2.7	3.1	29.7	2.8	3.2	31.3	2.8	3.2
	70	25.2	2.8	2.7	27.3	2.9	2.8	29.4	2.9	2.9
	80	22.4	2.9	2.3	24.9	3.0	2.5	27.5	3.0	2.7
17	60	22.2	2.4	2.7	23.1	2.5	2.7	24.0	2.7	2.6
	70	21.0	2.5	2.5	21.6	2.6	2.4	22.2	2.7	2.4
	80	19.8	2.6	2.3	20.1	2.7	2.2	20.3	2.8	2.2
10	60	19.7	2.4	2.4	20.7	2.5	2.5	21.8	2.6	2.5
	70	15.0	2.4	1.8	17.5	2.5	2.1	20.1	2.6	2.2
	80	10.3	2.4	1.3	14.4	2.5	1.7	18.4	2.7	2.0

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

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		CHGD42S41Q1								
EVAPORATOR COIL MODEL NO		PC60C3XN1								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1200			1400			1600		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	48.7	3.5	4.1	48.7	3.5	4.1	48.7	3.4	4.2
	70	47.8	3.8	3.6	48.6	3.8	3.7	49.5	3.8	3.8
	80	46.8	4.2	3.3	48.6	4.2	3.4	50.3	4.1	3.6
47	60	42.5	3.3	3.8	42.9	3.3	3.8	43.3	3.2	3.9
	70	42.3	3.6	3.4	42.7	3.6	3.5	43.1	3.6	3.6
	80	42.0	3.9	3.1	42.4	3.9	3.2	42.9	3.9	3.3
40	60	40.1	3.2	3.7	40.5	3.2	3.7	40.8	3.2	3.8
	70	39.1	3.5	3.3	39.6	3.5	3.3	40.0	3.5	3.4
	80	38.2	3.8	2.9	38.7	3.8	3.0	39.2	3.8	3.0
30	60	33.5	3.8	2.6	33.8	3.7	2.7	34.1	3.7	2.7
	70	34.8	3.4	3.0	34.5	3.4	3.0	34.1	3.4	2.9
	80	36.2	3.1	3.4	35.1	3.1	3.3	34.1	3.1	3.2
17	60	27.8	3.6	2.2	28.4	3.6	2.3	29.1	3.6	2.4
	70	28.3	3.3	2.5	28.8	3.3	2.5	29.2	3.3	2.6
	80	28.8	3.0	2.8	29.1	3.0	2.8	29.4	3.0	2.8
10	60	26.3	3.6	2.1	26.9	3.6	2.2	27.6	3.6	2.2
	70	25.6	3.3	2.3	26.8	3.3	2.4	28.0	3.3	2.5
	80	24.8	3.0	2.4	26.6	3.0	2.6	28.4	3.0	2.8

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