TECHNICAL SALES GUIDE - 50 Hz AND 60 Hz

DCS Mega Saber Series

Air Cooled Condensing Units

65 to 125 Tons [R-407c]

Mega Series (DCS)

"Include YORK Simplicity Controller"

YORK®
BY JOHNSON CONTROLS

CONTENTS

PRODUCT NOMENCLATURE

D	C	S	760	C01	4	A	1	1

Product Category
D = Condensing Unit

Product Identifier
C = Std. efficiency

Series Name
S = Saber

Nominal Cooling Capacity
760 = 65 Tons
900 = 75 Tons
1080 = 90 Tons
1200 = 105 Tons
1500 = 125 Tons

Mode
C01 = Cooling only [R-407c]

Power Supply
1 = 220 V /3 Ph / 60 Hz
2 = 380 V /3 Ph / 60 Hz
3 = 460 V /3 Ph / 60 Hz
4 = 380-415 V /3 Ph / 50 Hz

Factory Installed Options
A = No option installed
B = Heresite coating on condensing coil
E = Cu / Cu condenser coil
G = Disconnect switch
H = Phase monitor
I = BMS
N = Low ambient kit
X = Volt free contact
Y = Pressure Gauges

Field Installed Options
1 = No option installed

Product Generation
1 = First generation

DESCRIPTION

Models DCS 760,900,1080,1200,1500 (65, 75, 90, 105 & 125 Nominal Tons)

YORK Saber Johnson Controls YORK Saber Condensing units are high efficiency condensing units Models 760 & 900 have three independent refrigerant circuits, models 1080 & 1200 have four independent refrigerant circuits and model 1500 has five independent refrigerant circuits for efficient part load operation. Although, the units are primarily designed for roof top installation they can also be slab mounted at ground level. A wide variety of factory mounted options and field installed accessories make the Saber condensing units suitable for almost every application.

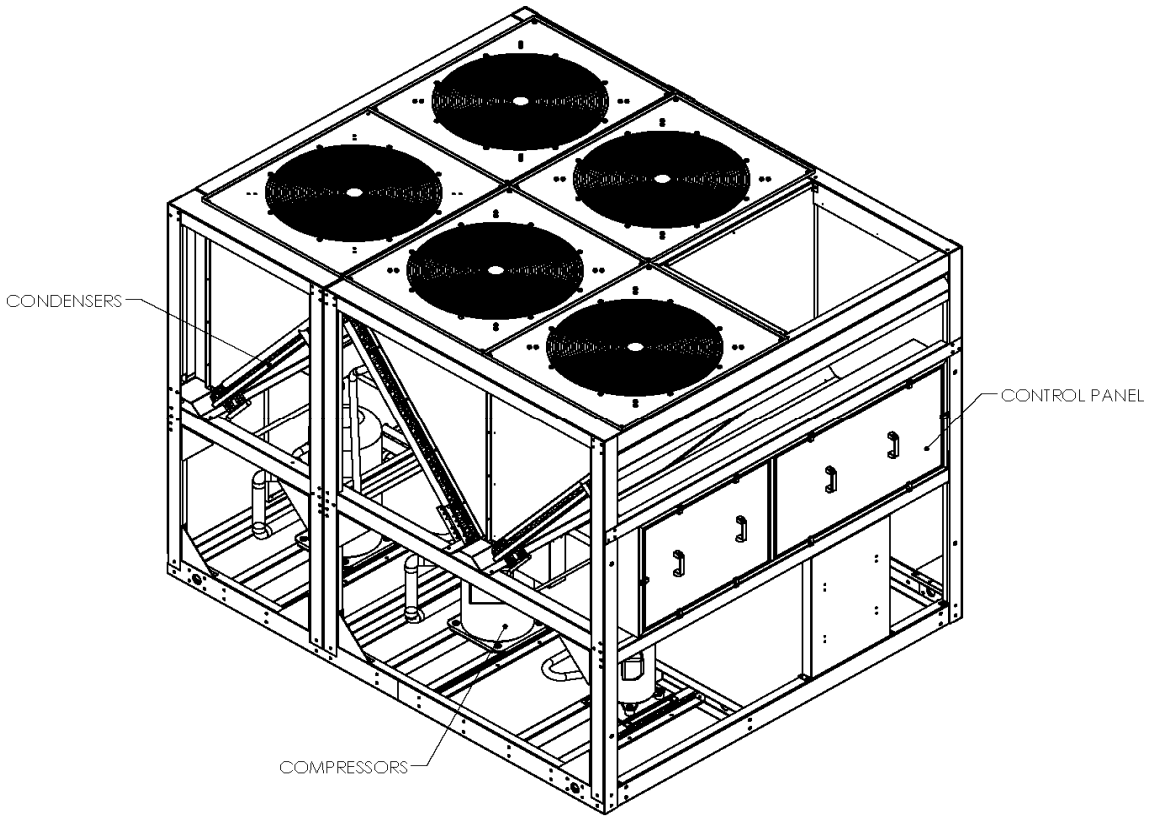
YORK Saber Condensing units are rated in accordance with ARI 360.

YORK Saber Condensing units are designed to operate satisfactorily in a wide range of ambient temperatures from 125°F (52°C) down to 50°F (10°C) as standard.

All standard units include :

- Powder paint finish that meets ASTM B 117, 750 hour salt spray standard
- Multi-stage cooling provided by three, four or five independent refrigerant circuits with filter driers, high and low pressure switches and freezestats
- High Efficient Scroll Compressors.
- Totally Enclosed Air Over (TEAO) IP55 Condenser fan motors with Class F insulation.
- Microprocessor based Simplicity TM control board.
- Copper tubes / aluminum fins condenser coils.
- Rigging holes in base rails for overhead lifting.
- Single point power connection.
- 1 year limited warranty on the complete unit and additional 4 years warranty on compressors.

Typical Unit Configuration



FEATURES

Saber condensing units are self-contained and assembled on full perimeter base rails with rigging holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation. The power supply can be routed into the control box through a gland in the wiring panel on the front of the unit.

Compressors are Hermetic Scroll type of advanced designed ensuring High Energy Efficiency Ratio less noise, less vibration and outstanding endurance. Crankcase heaters, internal pressure relief valve, internal compressor motor protection.

Condenser fans are propeller type of heavy duty construction, dynamically balanced and suitable for operate up to 80°C ambient. Fans are driven by TEAO IP55 motors with Class F insulation. The fan blade pitch Angle is designed for maximum airflow and minimum noise.

The condenser coils are constructed of seamless internally enhanced copper tubes which are mechanically bonded to aluminum fins. Heat Exchangers are tested up to a pressure 450 psig.

All cabinet panels are made from painted GI sheets which hot dip galvanized are providing an excellent resistance to UV & corrosion.

All Saber condensing units are equipped with a control panel that includes all the necessary operating and safety controls that are needed for reliable operation. Compressors are protected with internal thermal overload and fan motors with external overload.

Transformers and control circuits are protected with fuses. The microprocessor based **Simplicity**™ control board which provides both intelligent monitoring and easy diagnostics, as featured below.

- **Anti Short Cycle Protection:** To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti short cycle delay can be temporarily overridden with the push of a button.
- **Fan Delays:** Fan on and fan off delays are fully Programmable. Furthermore, the heating and cooling Fan delay times are independent of one another. All units are programmed with default values based upon their configuration of cooling and heating.
- **Safety Monitoring:** High flow pressure switches and suction line freezestats are supplied on all units to protect against loss of charge and the occurrence of coil frosting. The control board monitors the high and low pressure switches and the freezestats. The unit control board will alarm on compressor lockouts and repeated limit switch trips on electric heat units.
- **Nuisance Trip Protection:** To prevent nuisance Trouble calls, the control board uses a “three times, you’re out” philosophy. The high and low-pressure switches and the freezestats must trip three times within two hours before the unit control board will lock out the associated compressor.
- **On Board Diagnostics:** Each alarm will energize a trouble light on the thermostat, if so equipped, and Flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freezestat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time.
- **Nonvolatile Memory:** Alarms and programmed values are retained through the loss of power.

OPTIONS AVAILABLE

- **Heresite Coated Condenser Coils (factory installed):** Coating is applied by spray for maximum corrosion protection.
- **Copper Tube And Copper Fin Evaporator And Condenser Coils (factory installed)**.
- **Service Valve (factory installed)**. Compressor service valves for suction & discharge line.
- **Phase Monitors (factory installed):** Design to prevent unit damage, the phase monitor will shut the unit down in an out-of phase condition.
- **Main Disconnect Switch (factory installed):** Suitably sized in accordance with the applicable electrical codes.
- **Thermostat (field installed):** For 3 / 4 Stage cooling only and 2 Stage heating.
- **BMS Controls:** Johnson Controls YORK Saber series units offer factory mounted BMS controls- Consult your local sales office for details.
- **Low Ambient Kit (factory installed):** For unit to work satisfactorily down to 32°F (0°C).

PRODUCT DATA – 50 Hz (R-407c)

Model		DCS	760	900	1080	1200	1500
Condenser Coil	Tube		Enhanced Copper				
	Fins		Aluminum				
	Area	ft² (m²)	66.8 (6.2)	80.1 (7.4)	106.8 (9.9)	106.8 (9.9)	133.5 (12.4)
Condenser Fan & Motor	Type		4 Blade heavy duty Propeller Fan				
	Quantity	#	5	6	8	8	10
	Motor Type		6 Pole, Class F Insulation, Totally Enclosed Air Over, IP 55, 950 rpm				
	Motor size	hp (kW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)
	Quantity	#	5	6	8	8	10
Compressor	Type		Hermetic Scroll				
	# of Comp.s	#	3	3	4	4	5
Refrigerant	Type		R-407c				
	No of Circuits		3	3	4	4	5
	Charge	lbs (kgs)	62.7 (28.5)	74.8 (34)	96.8 (44)	100.1 (45.5)	125.4 (57)
Dimensions	Height	inches (mm)	85.9 (2182)				
	Width	inches (mm)	90.3 (2294)				
	Length	inches (mm)	110.2 (2800)		141.7 (3600)		181.1 (4600)
Weights	Basic Unit	lbs (Kg)	3256 (1480)	3762 (1710)	5434 (2470)	5830 (2650)	6688 (3040)

PRODUCT DATA – 60 Hz (R-407c)

Model		DCS	760	900	1080	1200	1500
Condenser Coil	Tube		Enhanced Copper				
	Fins		Aluminum				
	Area	ft² (m²)	66.8 (6.2)	80.1 (7.4)	106.8 (9.9)	106.8 (9.9)	133.5 (12.4)
Condenser Fan & Motor	Type		4 Blade heavy duty Propeller Fan				
	Quantity	#	5	6	8	8	10
	Motor Type		6 Pole, Class F Insulation, Totally Enclosed Air Over, IP 55, 1100 rpm				
	Motor size	hp (kW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)
	Quantity	#	5	6	8	8	10
Compressor	Type		Hermetic Scroll				
	# of Comp.s	#	3	3	4	4	5
Refrigerant	Type		R-407c				
	No of Circuits		3	3	4	4	5
	Charge	lbs (kgs)	62.7 (28.5)	74.8 (34)	96.8 (44)	100.1 (45.5)	125.4 (57)
Dimensions	Height	inches (mm)	85.9 (2182)				
	Width	inches (mm)	90.3 (2294)				
	Length	inches (mm)	110.2 (2800)		141.7 (3600)		181.1 (4600)
Weights	Basic Unit	lbs (Kg)	3168 (1440)	3630 (1650)	5258 (2390)	5654 (2570)	6468 (2940)

CONDENSING UNIT ONLY COOLING CAPACITIES AND POWER REQUIRMENTS – 50 Hz

Model	SST		85 °F (29.4 °C)			95 °F (35 °C)			105 °F (40.6 °C)			115 °F (46.1 °C)			125 °F (51.7 °C)		
			Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI
DCS	° F	° C	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW
760	35	1.7	666.3	195.3	57.2	623.8	182.8	63.3	573.8	168.2	70.2	525.8	154.1	77.8	474.1	138.9	86.3
	40	4.4	737.9	216.3	59.2	686.9	201.3	65.4	636.6	186.6	72.5	581.0	170.3	80.3	528.4	154.9	88.9
	45	7.2	809.7	237.3	61.5	756.8	221.8	68.0	692.4	203.0	75.0	641.5	188.0	83.1	583.9	171.1	91.7
	50	10.0	888.4	260.4	64.0	824.6	241.7	70.7	763.0	223.6	77.8	708.8	207.8	85.9	645.0	189.0	94.3
900	35	1.7	808.4	236.9	68.3	756.0	221.6	75.6	694.2	203.5	83.9	635.3	186.2	92.9	571.1	167.4	103.0
	40	4.4	896.1	262.7	70.8	833.5	244.3	78.2	771.3	226.1	86.6	702.6	205.9	96.0	637.9	187.0	106.2
	45	7.2	984.7	288.6	73.6	917.3	268.9	81.4	838.8	245.9	89.7	777.0	227.7	99.4	706.0	206.9	109.7
	50	10.0	1079.3	316.3	76.7	1001.4	293.5	84.7	924.1	270.9	93.1	860.6	252.2	102.9	781.7	229.1	113.0
1080	35	1.7	987.8	289.5	81.7	919.8	269.6	90.7	849.1	248.9	100.9	776.6	227.6	112.1	704.0	206.3	125.0
	40	4.4	1088.1	318.9	84.6	1017.4	298.2	93.7	937.0	274.6	103.8	859.7	252.0	115.5	784.4	229.9	128.4
	45	7.2	1196.2	350.6	87.8	1116.5	327.2	97.1	1037.4	304.1	107.3	952.5	279.2	119.0	870.0	255.0	132.0
	50	10.0	1305.8	382.7	91.5	1223.6	358.6	100.7	1131.0	331.5	110.9	1047.2	306.9	122.7	961.0	281.7	135.7
1200	35	1.7	1083.7	317.6	91.2	1009.8	296.0	100.8	928.8	272.2	111.9	847.2	248.3	123.8	763.3	223.7	137.1
	40	4.4	1194.4	350.1	94.4	1111.7	325.8	104.2	1031.2	302.2	115.5	943.9	276.7	128.0	851.0	249.4	141.5
	45	7.2	1313.2	384.9	98.1	1222.8	358.4	108.5	1139.0	333.8	119.7	1038.8	304.5	132.3	945.3	277.1	146.3
	50	10.0	1434.9	420.6	102.3	1352.0	396.3	112.9	1232.2	361.2	124.2	1140.5	334.3	137.1	1041.4	305.2	150.7
1500	35	1.7	1354.6	397.0	113.9	1263.1	370.2	126.1	1163.0	340.9	139.9	1059.1	310.4	154.8	951.9	279.0	171.6
	40	4.4	1493.3	437.7	118.0	1389.6	407.3	130.3	1270.7	372.4	144.4	1180.2	345.9	160.0	1063.9	311.8	176.9
	45	7.2	1641.2	481.0	122.6	1528.5	448.0	135.7	1414.2	414.5	149.8	1298.5	380.6	165.4	1177.9	345.3	182.8
	50	10.0	1799.5	527.4	127.7	1669.3	489.3	141.3	1552.1	454.9	155.3	1428.3	418.6	171.3	1301.5	381.5	188.5

CONDENSING UNIT ONLY COOLING CAPACITIES AND POWER REQUIRMENTS – 60 Hz

Model	SST		85 °F (29.4 °C)			95 °F (35 °C)			105 °F (40.6 °C)			115 °F (46.1 °C)			125 °F (51.7 °C)		
			Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI	Total Capacity		PI
DCS	° F	° C	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW	MBh	kW	kW
760	35	1.7	662.1	194.1	58.3	619.2	181.5	64.3	574.0	168.2	71.1	528.7	155.0	78.4	482.0	141.3	86.8
	40	4.4	733.0	214.9	60.2	680.5	199.4	66.2	633.5	185.7	73.1	584.1	171.2	80.6	535.5	156.9	88.8
	45	7.2	800.8	234.7	62.5	751.2	220.2	68.5	697.5	204.4	75.3	641.4	188.0	82.9	589.8	172.9	91.4
	50	10.0	876.7	257.0	64.9	811.9	238.0	71.1	756.7	221.8	77.8	704.8	206.6	85.5	646.4	189.5	94.0
900	35	1.7	781.0	228.9	69.1	731.1	214.3	76.4	679.1	199.1	84.6	627.6	183.9	93.4	574.2	168.3	103.7
	40	4.4	866.8	254.0	71.3	806.8	236.5	78.6	751.3	220.2	87.0	693.8	203.4	96.1	637.9	187.0	106.1
	45	7.2	946.7	277.5	74.1	890.6	261.0	81.4	828.0	242.7	89.6	762.0	223.3	98.8	702.5	205.9	109.2
	50	10.0	1041.9	305.4	76.9	960.6	281.6	84.4	900.8	264.0	92.7	838.1	245.6	102.0	770.0	225.7	112.4
1080	35	1.7	954.2	279.7	80.5	894.1	262.1	89.0	831.8	243.8	98.8	769.8	225.6	109.6	706.2	207.0	122.3
	40	4.4	1055.9	309.5	83.1	986.5	289.1	91.7	919.9	269.6	101.6	851.5	249.6	112.6	784.2	229.8	125.1
	45	7.2	1155.0	338.5	86.2	1087.4	318.7	94.9	1013.1	296.9	104.8	936.7	274.6	115.8	864.4	253.4	128.6
	50	10.0	1271.4	372.7	89.3	1181.9	346.4	98.2	1107.1	324.5	108.2	1030.6	302.1	119.3	950.0	278.5	132.2
1200	35	1.7	1041.1	305.1	92.1	975.4	285.9	101.7	906.7	265.8	112.8	836.1	245.1	124.7	765.5	224.4	138.3
	40	4.4	1155.3	338.6	95.1	1079.3	316.3	104.9	1004.3	294.3	116.0	925.0	271.1	128.0	850.6	249.3	141.5
	45	7.2	1263.5	370.3	98.8	1173.5	343.9	108.4	1097.1	321.6	119.6	1018.9	298.6	131.8	936.8	274.6	145.6
	50	10.0	1389.3	407.2	102.6	1300.9	381.3	112.5	1200.3	351.8	123.9	1116.1	327.1	136.3	1028.1	301.3	149.8
1500	35	1.7	1304.9	382.5	114.8	1219.0	357.3	127.2	1132.0	331.8	141.0	1045.4	306.4	155.9	957.0	280.5	172.8
	40	4.4	1438.8	421.7	119.0	1345.9	394.5	131.3	1252.2	367.0	145.0	1159.7	339.9	160.0	1063.2	311.6	176.9
	45	7.2	1582.0	463.7	123.5	1458.4	427.4	135.7	1380.1	404.5	149.4	1278.4	374.7	164.9	1170.8	343.2	182.0
	50	10.0	1736.6	509.0	128.2	1621.0	475.1	140.6	1503.6	440.7	154.6	1407.4	412.5	170.5	1283.3	376.1	187.5

Note : POWER REQUIREMENTS includes compressor(s) and condenser(s) fan motors.

Electrical Data – 50HZ (R-407c)

Power Supply	380-415 V /3 Ph / 50 Hz				
Model	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
DCS 760	59.3	310	3.2	177.3	225
	27.9	173			
DCS 900	59.3	310	3.2	211.9	250
DCS 1080	59.3	310	3.2	246.1	300
	43.6	272			
DCS 1200	59.3	310	3.2	277.6	300
DCS 1500	59.3	310	3.2	343.3	400

Electrical Data – 60HZ (R-407c)

Model	DCS-760				
Voltage	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
220 V / 3Ph / 60 Hz	93.6	605	5.0	338.2	400
	55.0	300			
380 V / 3Ph / 60 Hz	55.7	353	2.9	199.9	250
	30.7	139			
460 V / 3Ph / 60 Hz	43.6	272	3.0	165.5	200
	25.4	150			

Model	DCS-900				
Voltage	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
220 V / 3Ph / 60 Hz	93.6	605	5.0	381.7	450
380 V / 3Ph / 60 Hz	55.7	353	2.9	227.8	250
460 V / 3Ph / 60 Hz	43.6	272	3.0	186.3	225

Model	DCS-1080				
Voltage	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
220 V / 3Ph / 60 Hz	93.6	605	5.0	476.1	500
	81.4	505			
380 V / 3Ph / 60 Hz	55.7	353	2.9	269.0	300
	42.1	290			
460 V / 3Ph / 60 Hz	43.6	272	3.0	230.8	250
	37.9	225			

Model	DCS-1200				
Voltage	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
220 V / 3Ph / 60 Hz	93.6	605	5.0	509.0	600
380 V / 3Ph / 60 Hz	55.7	353	2.9	301.1	350
460 V / 3Ph / 60 Hz	43.6	272	3.0	245.5	250

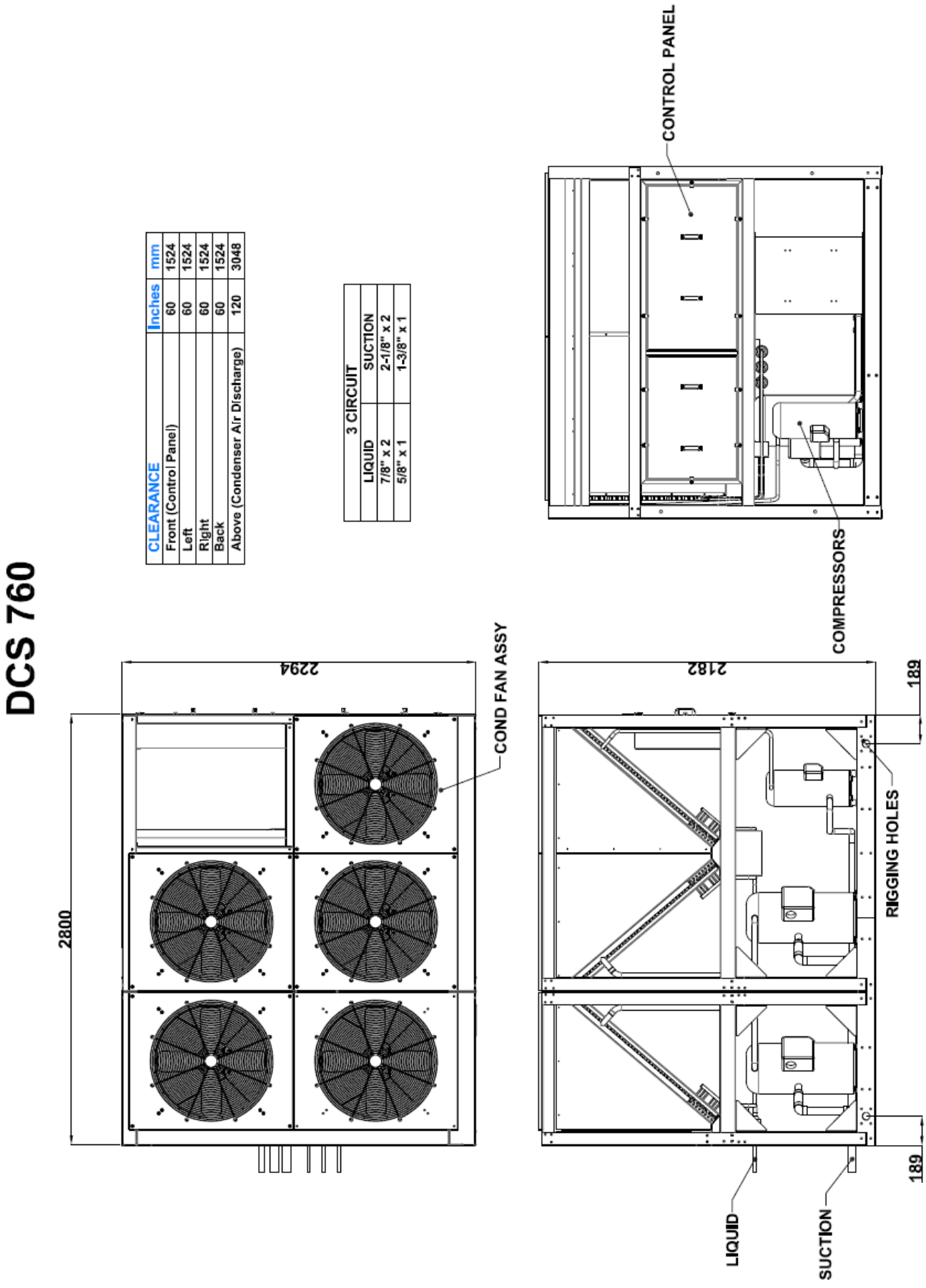
Model	DCS-1500				
Voltage	Compressors		Condenser Fan Motors	Minimum Circuit Amperes	Maximum Fuse Breaker Size
	RLA Each	*LRA Each*	*FLA Each*	*Amperes*	*Amperes*
220 V / 3Ph / 60 Hz	93.6	605	5.0	638.9	700
380 V / 3Ph / 60 Hz	55.7	353	2.9	377.4	400
460 V / 3Ph / 60 Hz	43.6	272	3.0	309.0	350

DIMENSIONAL DATA

DCS 760

CLEARANCE	Inches	mm
Front (Control Panel)	60	1524
Left	60	1524
Right	60	1524
Back	60	1524
Above (Condenser Air Discharge)	120	3048

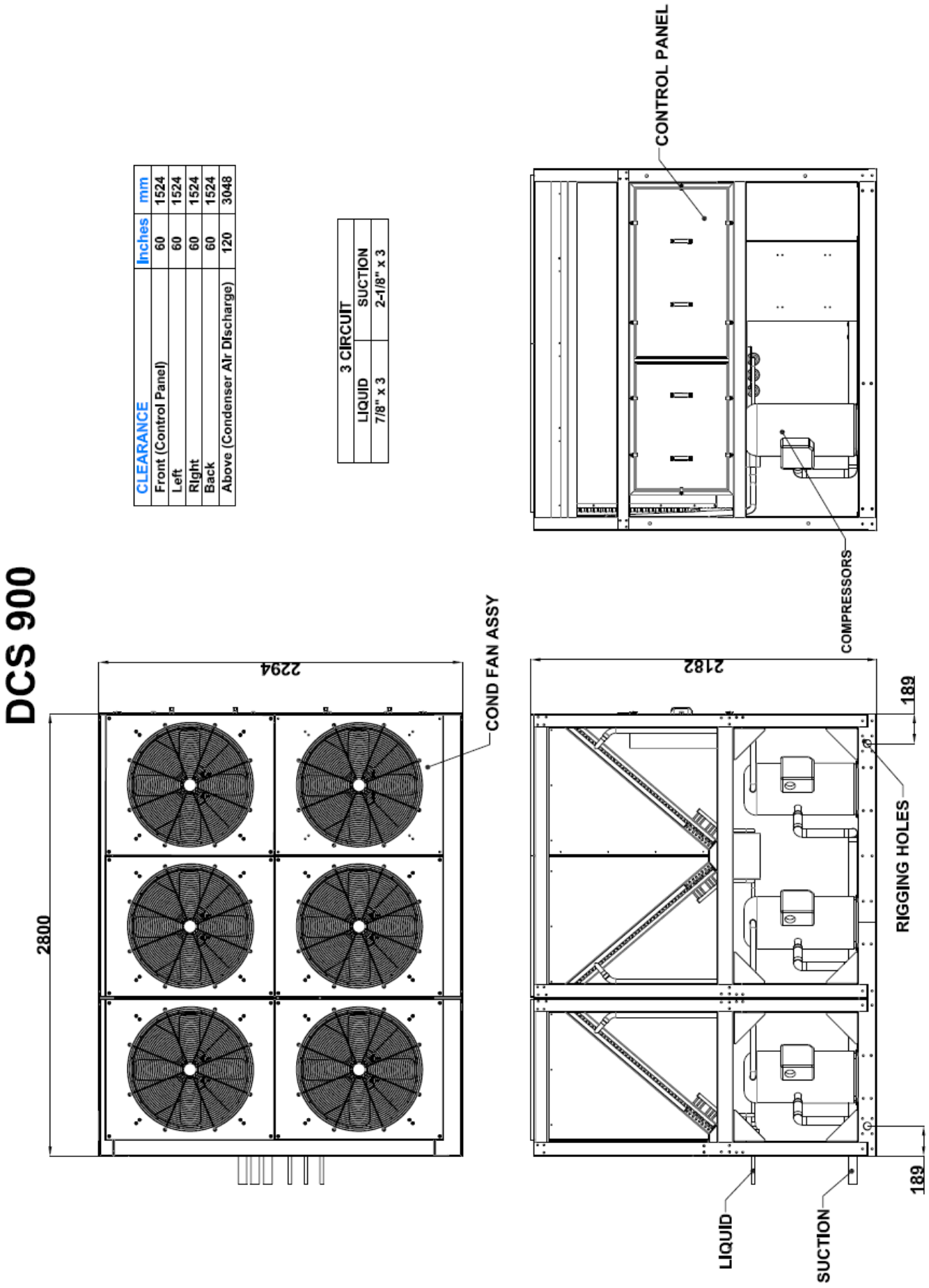
3 CIRCUIT	
LIQUID	SUCTION
7/8" x 2	2-1/8" x 2
5/8" x 1	1-3/8" x 1



DIMENSIONAL DATA

CLEARANCE	Inches	mm
Front (Control Panel)	60	1524
Left	60	1524
Right	60	1524
Back	60	1524
Above (Condenser Air Discharge)	120	3048

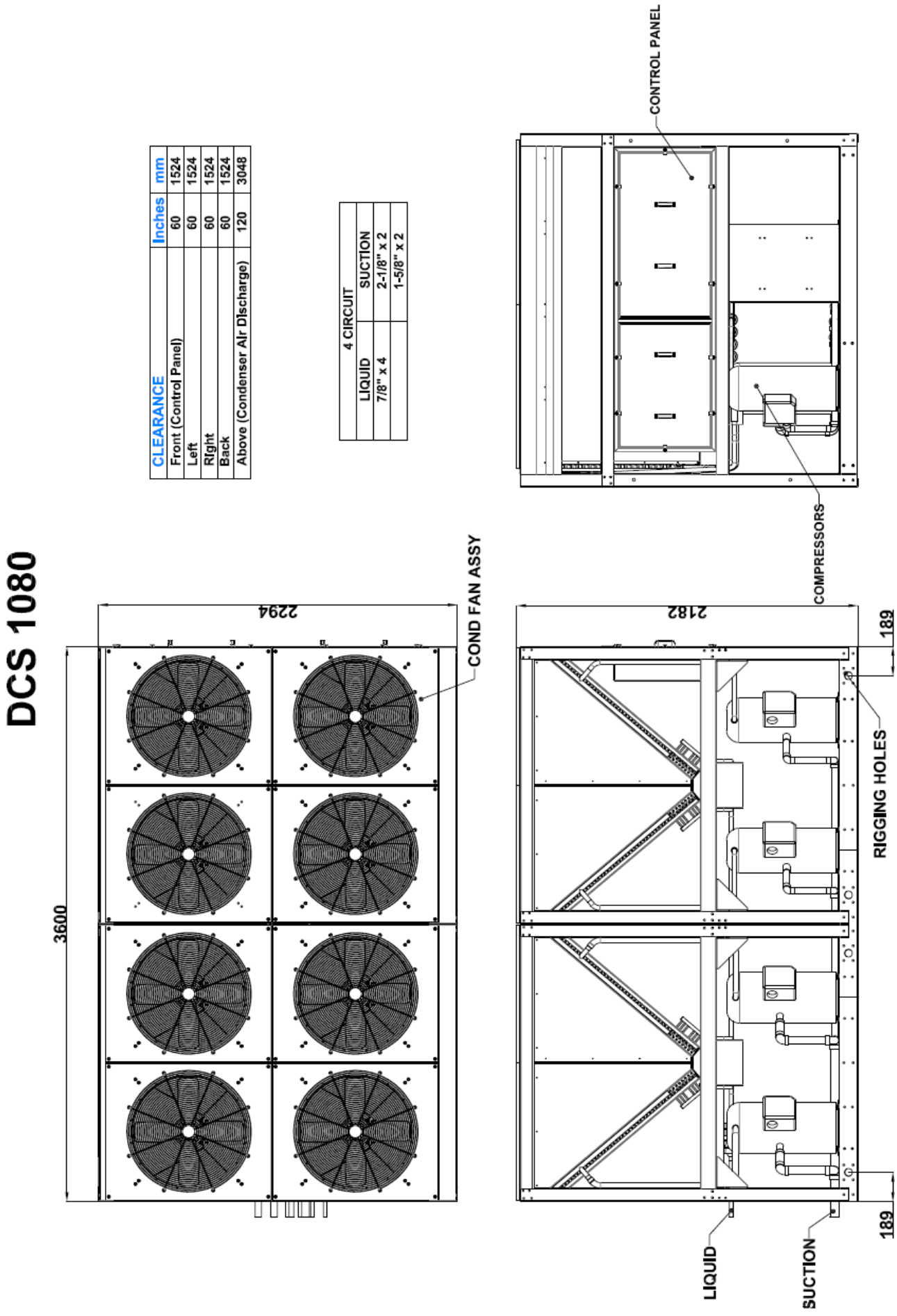
3 CIRCUIT	
LIQUID	SUCTION
7/8" x 3	2-1/8" x 3



DIMENSIONAL DATA

CLEARANCE	Inches	mm
Front (Control Panel)	60	1524
Left	60	1524
Right	60	1524
Back	60	1524
Above (Condenser Air Discharge)	120	3048

4 CIRCUIT	
LIQUID	SUCTION
7/8" x 4	2-1/8" x 2
	1-5/8" x 2

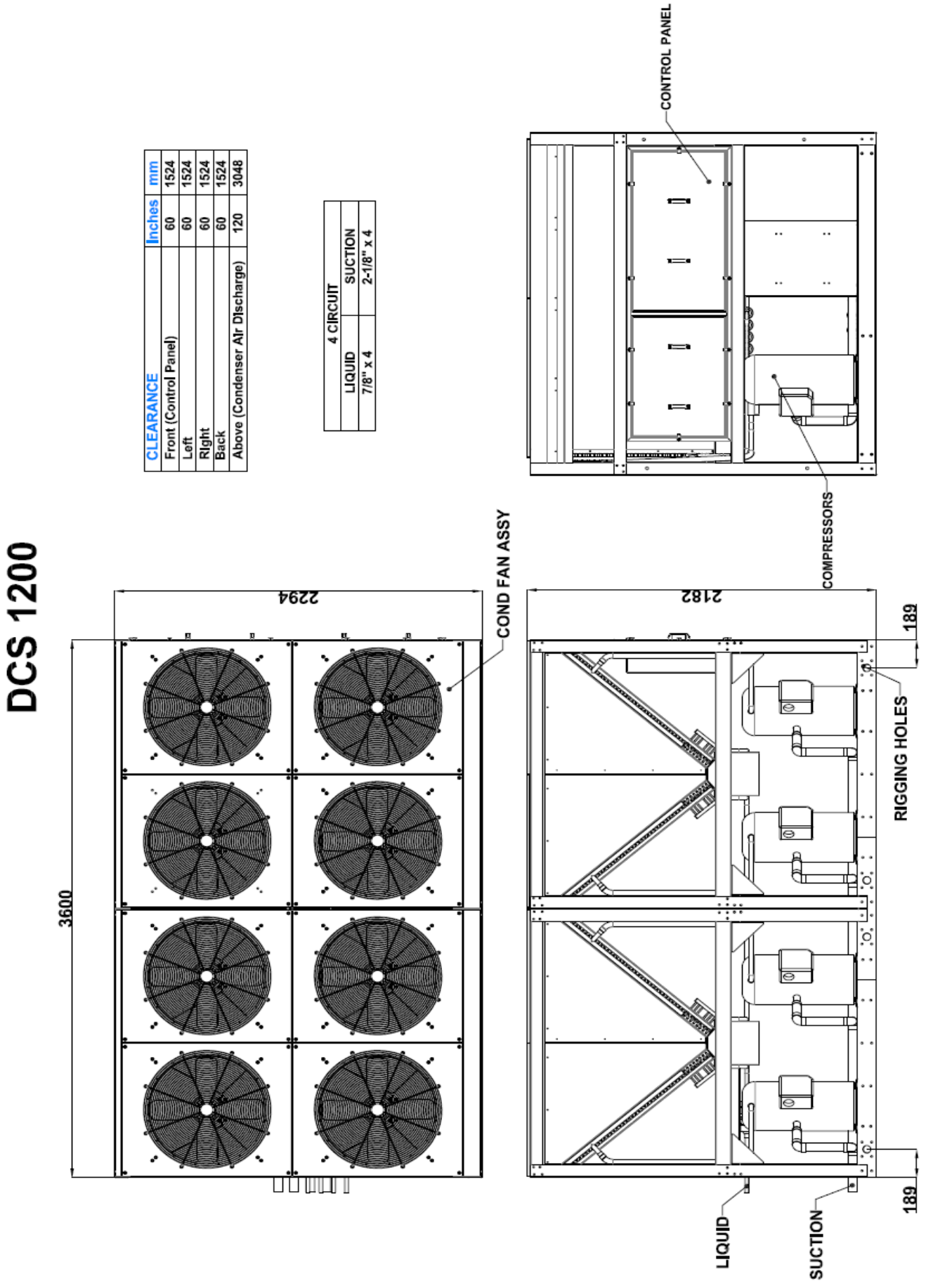


DIMENSIONAL DATA

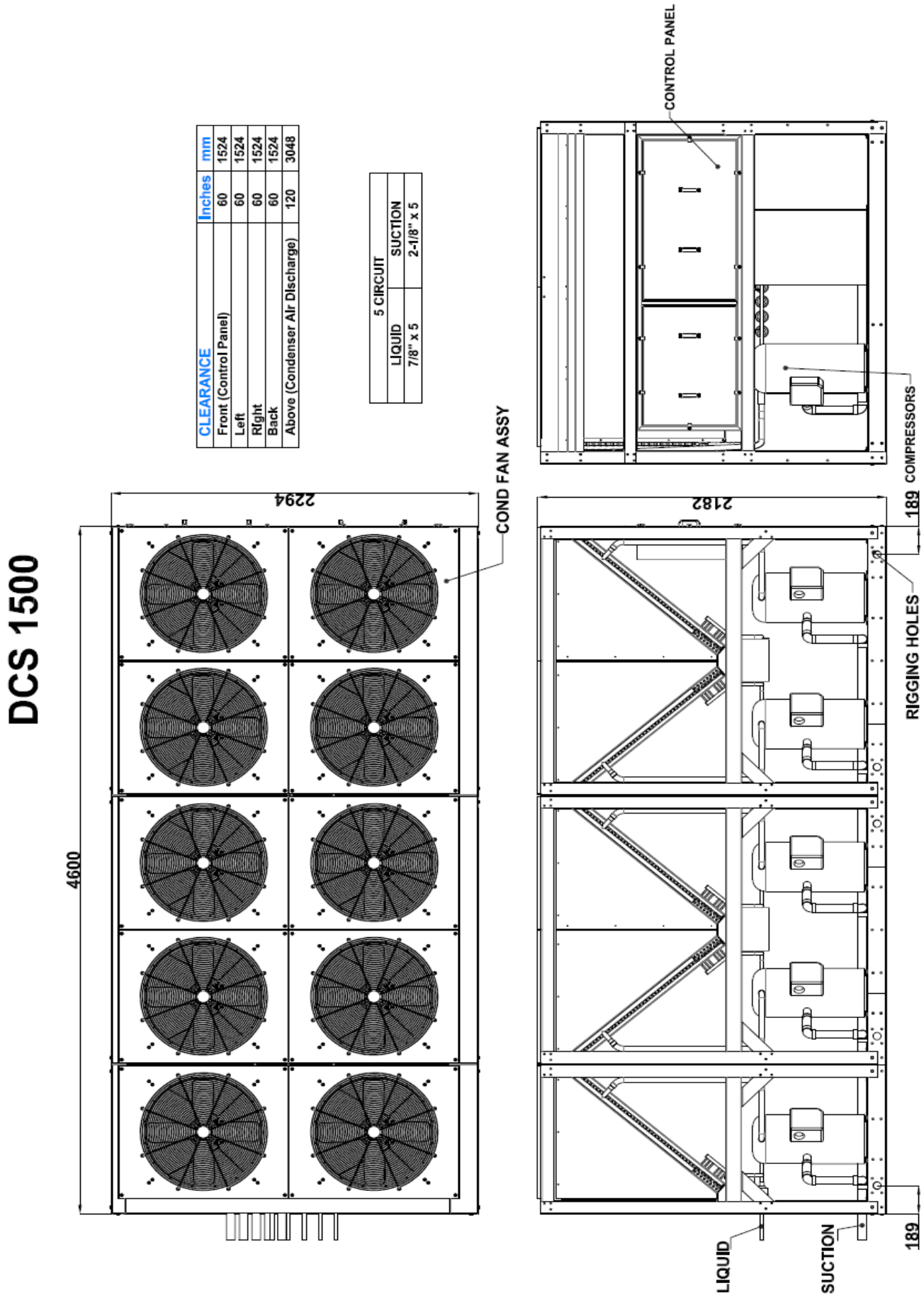
DCS 1200

CLEARANCE	Inches	mm
Front (Control Panel)	60	1524
Left	60	1524
Right	60	1524
Back	60	1524
Above (Condenser Air Discharge)	120	3048

4 CIRCUIT	
LIQUID	SUCTION
7/8" x 4	2-1/8" x 4



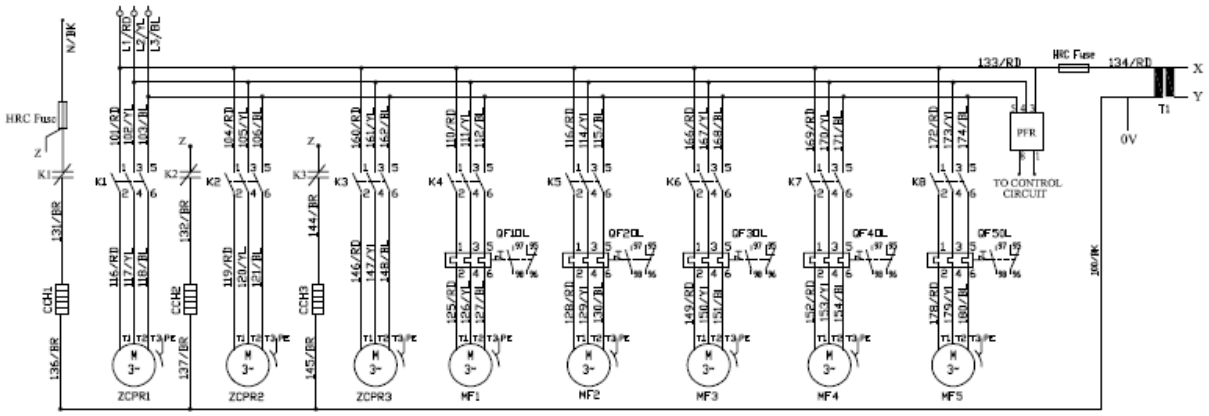
DIMENSIONAL DATA

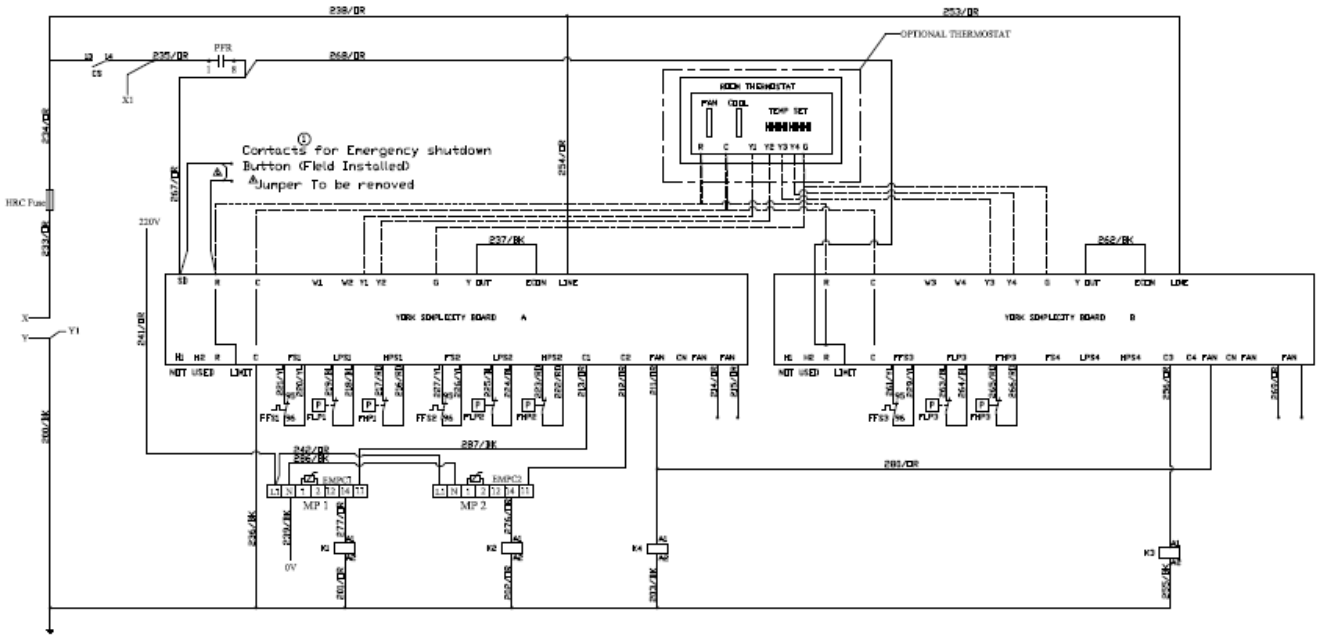


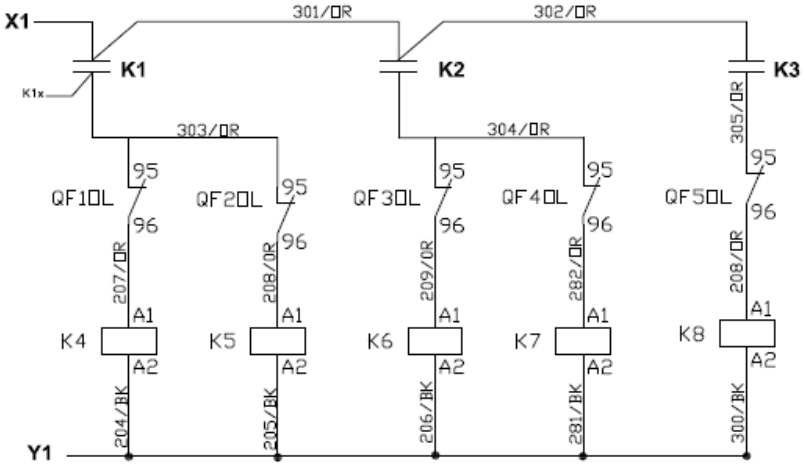
CLEARANCE	Inches	mm
Front (Control Panel)	60	1524
Left	60	1524
Right	60	1524
Back	60	1524
Above (Condenser Air Discharge)	120	3048

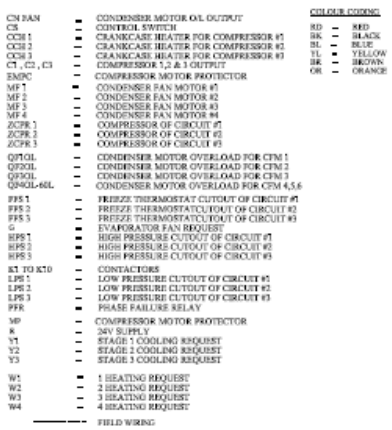
5 CIRCUIT	
LIQUID	SUCTION
7/8" x 5	2-1/8" x 5

TYPICAL WIRING DIAGRAM

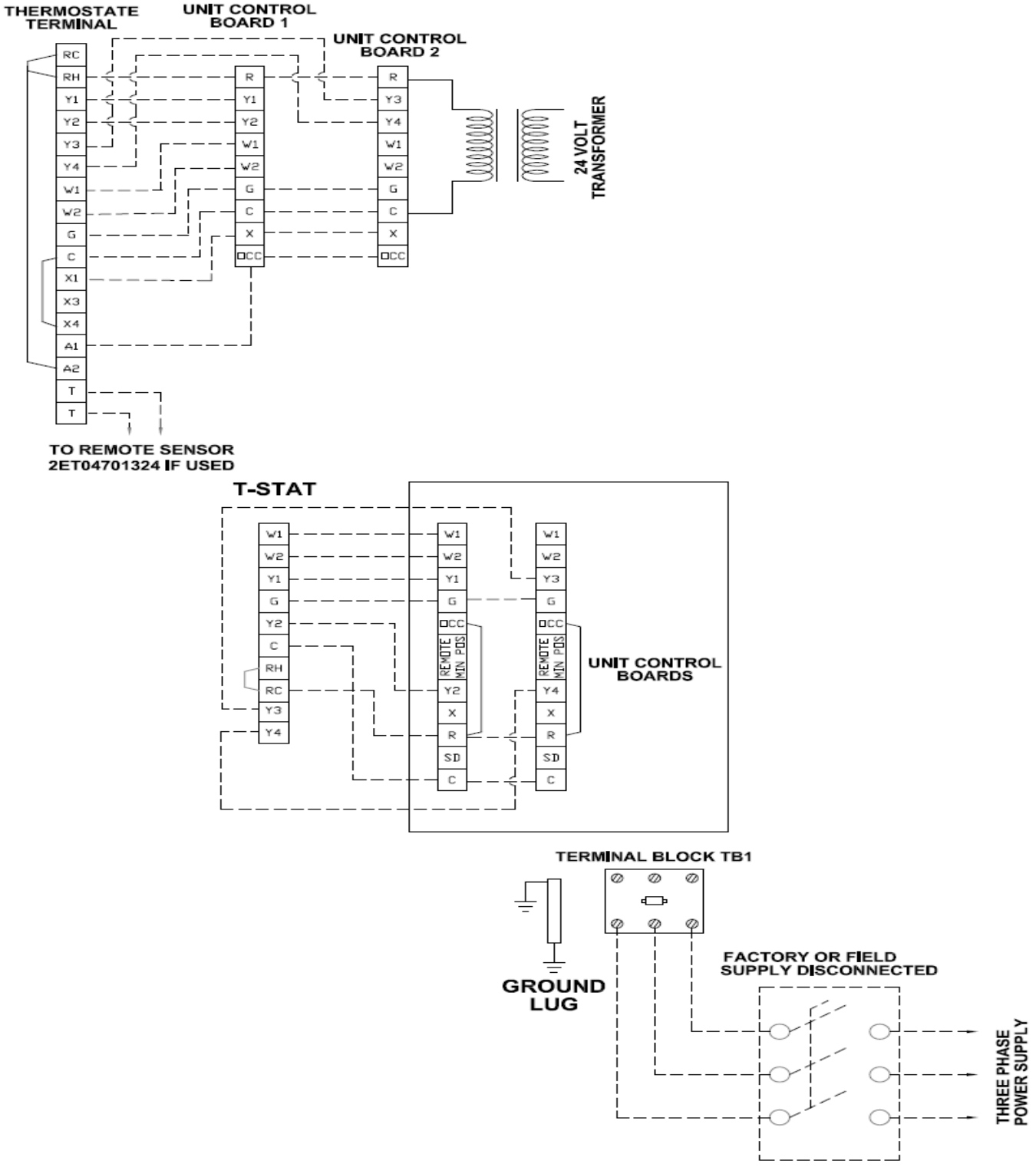








FIELD WIRING DIAGRAM: 50 Hz & 60 Hz



DESCRIPTION

Standard Units shall be factory assembled, cool only, designed for outdoor mounted installation. The units shall be factory wired, piped, All unit wiring shall be both numbered and colour coded.

UNIT CABINET AND FRAME

The main frame & cabinet panels shall be constructed of G90 GI panel sheets which are hot dip galvanized with PVC coating and shall provide an excellent resistance to UV & correction.

Panels shall be easily removable for inspection and maintenance, and shall be fixed to the frame with self tapping screws. Panels shall comply with ASTM B117 standards suitable for 750 hours salt spray test.

Cabinet panels shall be easily removable for servicing and maintenance. Full perimeter base rails shall be provided.

OUTDOOR (CONDENSER) FAN ASSEMBLY

Each unit shall have three or four condenser fans / motors. The outdoor fans shall be of direct driven propeller type, discharge air vertically and shall be dynamically balanced for smooth operation. The outdoor fan motors shall be TEAO IP55 with class F insulation. Motors shall have permanently lubricated bearings and shall have external overload protection.

REFRIGERANT COMPONENTS

Compressors

a. Compressors for all models shall be Hermetic Scroll. All compressors shall be internally protected with internal high pressure relief and over temperature protection. The compressors shall be mounted on neoprene mounts to eliminate vibration from being transmitted to the unit structure and cabinet.

Coils

a. Condenser coils shall have aluminum fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Condenser fin spacing shall be limited to 14 fins per inch to maximize heat transfer to minimize blockage and high pressure operating condition, special heresite coating shall be available as factory options.

b. Condenser coils shall be of the direct expansion, draw-thru, design. Coils shall be tested up to a pressure of 450 psig (condenser).

Refrigerant Circuit and Refrigerant Safety componentss hall include

a. Filter drier to eliminate any moisture or foreign matter.
b. Accessible service valve connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.
c. The refrigeration system shall provide at least 15°F of sub-cooling at design conditions.
d. All models shall have a minimum of 3 independent refrigerant circuits.
e. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hookup.
f. Unit control board shall have on-board diagnostics and fault code display.
g. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to 50°F.
h. Control board shall monitor each refrigerant safety switch independently.
i. Control board shall retain last 5 fault codes in nonvolatile memory, which will not be lost in the event of a power loss.

UNIT OPERATING CHARACTERISTICS

Unit shall be capable of starting and running at 125°F outdoor temperature. The compressor, with standard controls, shall be capable of operation down to 50°F outdoor temperature.

ELECTRICAL REQUIREMENTS

All unit power wiring shall enter unit cabinet at a single factory provided gland be capable of side entry.

MAINTENANCE

The Saber Condensing are premium quality machines with very low maintenance requirements.

Compressors used in Saber condensing Units are of Scroll type and are charged with the correct amount of refrigerant and lubricating oil. Unless there is a leak in the system, no topping up is generally required.

EVERY SIX MONTH

- The Condenser coils should be cleaned by spraying water over it at low pressure or with a brush while ensuring that the fins are not damaged.
- Check all electrical connections and tighten them if required.
- Clean all accessible electrical panels of dirt and dust before cleaning the control panels, ENSURE that the electrical power to the unit is switched off.

EVERY 12 MONTHS

In addition to the maintenance done every six months :

- Use a proper cleaning cloth to clean fan blades and motors.
- Ensure that the unit is working properly by checking, current, voltages, pressures and temperatures.
- Check the earthing or grounding of the unit.
- Check the exterior of the unit for any signs of corrosion. Even though it is highly unlikely, if any corrosion that is seen, should be removed by proper sanding the surface. Repaint the unit with proper touch up paint, available from Johnson controls York.
- Check the unit for any unusual vibrations or noise, locate the cause and rectify it by changing mounts, base isolators etc as required.

Notes

Notes

Notes

Johnson Controls provides comfortable environments wherever you Live, Work or Travel

Whether you're at home, in a car, or in an office or workplace, chances are there's a Johnson Controls product or service nearby, helping to make your environment more comfortable, safe and sustainable.

Johnson Controls creates smart environments that improve the places where people spend most of their time – their homes, workplaces and vehicles. We anticipate consumer needs, and then integrate technologies, products and services to make life better and easier.

For Johnson Controls, sustain ability matters at every level and through our products, service operations and community involvement, we promote the efficient use of resources to benefit all people and the world. Our triple bottom line of sustain ability that is, economic prosperity, environmental stewardship and social responsibility impacts each and every aspect of our business. York products are now a premier brand manufactured by Johnson Controls. The acquisition of York, gives us a unique insight into designing HVAC products that match your exact requirements. We provide solutions for today's most critical concerns - energy efficiency, refrigerant alternatives and indoor air quality.

Johnson Controls has a wide range of York products for residential, light commercial and commercial applications. Our offering includes package & split air conditioners and heat pumps. In addition, Johnson Controls offers chillers, air handling units, ventilation equipment and controls for larger projects.

Our advanced technology is leading the way in developing efficient and environment friendly solutions for your homes, offices and places of leisure.

Let us create the ideal environment for you.

Technical Sales Guide # TSG-65125-R407c-5060(DCSMEGA-14R02)
50&60Hz - R407c MGK

We reserve the right to change in part or in whole the specifications without prior notice.

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