

GENERAL DESCRIPTION

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The VKORD-O Series with new features is suitable for hotel, office, hospital, school, factory and supermarket applications. The low noise and compact series are completely leak tested, evacuated, dehydrated and charged with refrigerant prior to shipment.

REFRIGERANT R410A

- VKORD-O Series uses the environmentally friendly refrigerant, R410A in each system.
- Zero ozone depletion potential.

HERMETIC SCROLL COMPRESSOR(S)

Reliability

- No contact scroll design that minimizes friction, increases volumetric efficiency and reduces vibration, thus longer service life.
- Suction gas cooled motor.

Low Power Consumption:

- High EER.
- No crankcase heater required.

CLASS F INSULATION CONDENSER FAN MOTOR

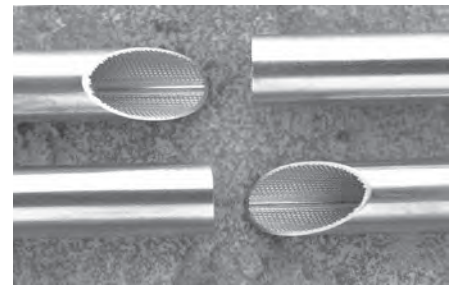
- Extra safety margin and longer motor life even in extreme operating conditions.
- IP 55 construction ensure extra motor protection (VKORD-68Q Series to 1520Q).
- Low motor speed at 950 rpm ensures quiet condenser fan operation.

MULTIPLE COMPRESSOR (VKORD-2500 Series and above)

- By cycling off compressor operation to match building load, no energy is being wasted when room load requires lesser cooling capacity.
- No total shut down when servicing or repairing a faulty compressor.

EFFICIENT CONDENSER COIL

- Staggered row of 3/8"OD inner groove tubes with 25 to 30% more surface area guarantee better heat transfer.
- Mechanically expanded into die-formed corrugated aluminum fins.
- Integral subcooling circuit to maximize efficiency.
- One or multiple thermal expansion valve promotes efficient cooling and superheat during reverse cycle
- Leak and pressure tested to 650 psig.



SAFETY CONTROL

- High-low pressure cutout to protect compressor from high discharge pressure and system leakage.

FULLY LEAK TESTED REFRIGERANT CIRCUIT

- Compressors, condenser coil, filter drier, sightglass, thermo-expansion valve, distributor and evaporator coil is brazed in complete sealed loop.
- Leak and pressure tested at 650 psig.
- Pressure ports are provided on the discharge, liquid and suction line.
- Evacuated, dehydrated and charge with refrigerant gas prior to shipment.

CASING

- Constructed from heavy gauge galvanized steel.
- Panels are painted with epoxy powder paint for excellent finish, weatherability and corrosion resistance.
- Evaporator section is insulated with 1 x 1 1/2 lb per.cu.ft of linacoustic fibreglass.

EFFICIENT EVAPORATOR COIL

- Independent thermal expansion valve with external equalizer for better refrigerant control and wider load condition.
- Leak and pressure tested to 650 psig
- Evacuated, dehydrated and charged with refrigerant gas.

DRIVE PACKAGE AND BLOWERS

- Belt driven drive package offers flexibility on various air flow rate and various static pressure applications (VKORD-160Q Series and above).
- Single large diameter double inlet double width blowers (AMCA certified) reduce the noise level and eliminates the need for common transition and eliminates air unbalance.

FILTERS

- 1" thick with side loading for VKORD-40Q Series to 145Q.
- 2" thick with side loading for VKORD-160Q Series and above



OPTIONAL ACCESSORIES

- Factory wired starters
 - DOL for compressors and fan motors.
 - Auto-transformer for compressors.
- Suction stop valve(s), discharge stop valve(s) and liquid stop valve(s).
- Fan staging (VKORD-160Q Series and above) of multiple fans for head pressure control.
- Thermostat.
- Hydrophilic fins or copper fins for better corrosion resistance.
- Hot gas by pass for low load and low ambient conditions.
- Hot water heating coils.
- Electric heaters.

Product reference

Reference		Hz	Capacity		
			MBH	kW	Ton
VKORD400F	Cooling	50/60	36.2	10.6	3.014
VKORD400GOF	Heating	50/60	39.8	11.7	3.327
VKORD500F	Cooling	50/60	43.8	12.8	3.640
VKORD500GOF	Heating	50/60	49.6	14.5	4.123
VKORD680F	Cooling	50/60	60.0	17.6	5.004
VKORD680GOF	Heating	50/60	63.9	18.7	5.317
VKOR810F	Cooling	50/60	71.0	20.8	5.914
VKOR810GOF	Heating	50/60	78.2	22.9	6.512
VKOR950F	Cooling	50/60	80.2	23.5	6.682
VKOR950GOF	Heating	50/60	87.3	25.6	7.279
VKOR1080F	Cooling	50/60	98.7	28.9	8.218
VKOR1080GOF	Heating	50/60	104.4	30.6	8.701
VKORD1250F	Cooling	50/60	98.7	28.9	8.218
VKORD1250GOF	Heating	50/60	116.3	34.1	9.696
VKORD1450F	Cooling	50/60	128.3	37.6	10.691
VKORD1450GOF	Heating	50/60	133.3	39.1	11.118
VKORD1600F	Cooling	50/60	144.0	42.2	11.999
VKORD1600GOF	Heating	50/60	152.3	44.6	12.682
VKORD1900F	Cooling	50/60	168.3	49.3	14.018
VKORD1900GOF	Heating	50/60	165.1	48.4	13.762
VKORD2200F	Cooling	50/60	193.4	56.7	16.122
VKORD2200GOF	Heating	50/60	206.2	60.4	17.174
VKORD2500F	Cooling	50/60	223.8	65.6	18.653
VKORD2500GOF	Heating	50/60	234.9	68.8	19.563
VKORD2900F	Cooling	50/60	247.9	72.6	20.643
VKORD2900GOF	Heating	50/60	269.6	79.0	22.463
VKORD3200F	Cooling	50/60	290.4	85.1	24.198
VKORD3200GOF	Heating	50/60	310.6	91.0	25.875
VKORD3800F	Cooling	50/60	334.8	98.1	27.894
VKORD3800GOF	Heating	50/60	350.0	102.6	29.174
VKORD4350F	Cooling	50/60	388.1	113.7	32.330
VKORD4350GOF	Heating	50/60	404.6	118.5	33.695
VKORD4800F	Cooling	50/60	416.8	122.1	34.719
VKORD4800GOF	Heating	50/60	445.0	130.4	37.079
VKORD5100F	Cooling	50/60	445.8	130.6	37.135
VKORD5100GOF	Heating	50/60	477.6	139.9	39.780
VKORD5700F	Cooling	50/60	497.5	145.8	41.458
VKORD5700GOF	Heating	50/60	522.3	153.0	43.505
VKORD6400F	Cooling	50/60	561.5	164.5	46.775
VKORD6400GOF	Heating	50/60	580.6	170.1	48.367
VKORD7000F	Cooling	50/60	606.8	177.8	50.557
VKORD7000GOF	Heating	50/60	648.1	189.9	53.997
VKORD7600F	Cooling	50/60	663.7	194.5	55.305
VKORD7600GOF	Heating	50/60	681.1	199.6	56.755
VKORD8000F	Cooling	50/60	738.4	216.4	61.532
VKORD8000GOF	Heating	50/60	760.4	222.8	63.352
VKORD8900F	Cooling	50/60	820.9	240.5	68.385
VKORD8900GOF	Heating	50/60	838.1	245.6	69.835
VKORD9600F	Cooling	50/60	883.8	259.0	73.645
VKORD9600GOF	Heating	50/60	906.0	265.5	75.494
VKORD10200F	Cooling	50/60	958.1	280.7	79.816
VKORD10200GOF	Heating	50/60	933.9	273.6	77.797
VKORD11400F	Cooling	50/60	1046.0	306.5	87.152
VKORD11400GOF	Heating	50/60	1034.6	303.1	86.185
VKORD13400F	Cooling	50/60	1250.1	366.3	104.156
VKORD13400GOF	Heating	50/60	1197.3	350.8	99.748
VKORD15200F	Cooling	50/60	1387.7	406.6	115.615
VKORD1520YQHJ	Heating	50/60	1297.8	380.3	108.136

Notes: 1) Ratings Are Gross Capacities - For Net Capacities, Deduct Evaporator Blower Motor Heat.
 2) Cooling Mode: At 80 °F (DB), 67 °F (WB) Air on Evaporator And 95°F Ambient Air Temperature on Condenser.
 3) Heating Mode: At 70 °F (DB) Air on Evaporator And 45°F Ambient Air Temperature on Condenser.
 4) Model VKORD-400 & 500 are not offered for installation in US region.