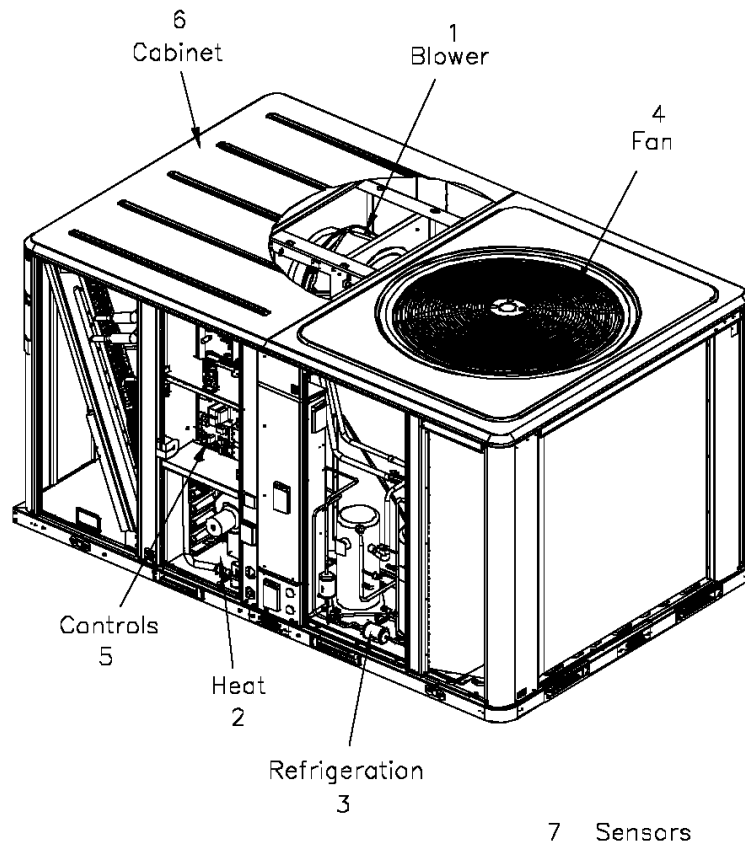


General Assembly

75009320

REV
A

Typical illustration. Unit may not appear exactly as shown.



View is determined by facing Appearance Nameplate

Parts List Number :YHCUP9

Model Number :YHC120F3EMA0000

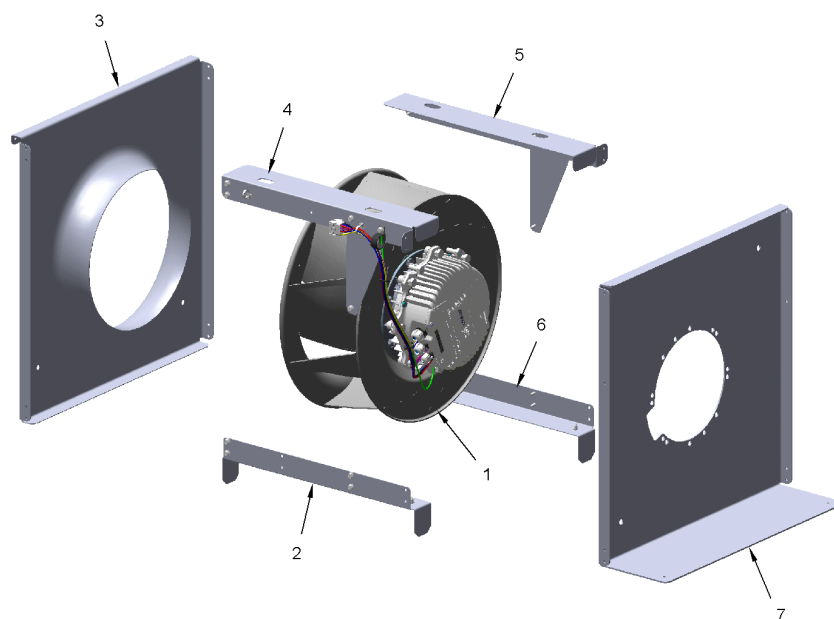
Part No.	Reference No.	Quantity	Description
75009291	1		BLOWER
75009709	3		REFRIGERATION
75010937	4		FAN
75009394	8		MODEL NUMBER DESCRIPTION, DIGITS 1-17
75009395	8		MODEL NUMBER DESCRIPTION, DIGITS 18-31
75009396	8		MODEL NUMBER NOTES
NGRAPHIC	9		OPTIONAL FIELD INSTALLED ACCESSORIES

BLOWER

75009291

REV
B

TYPICAL ILLUSTRATION



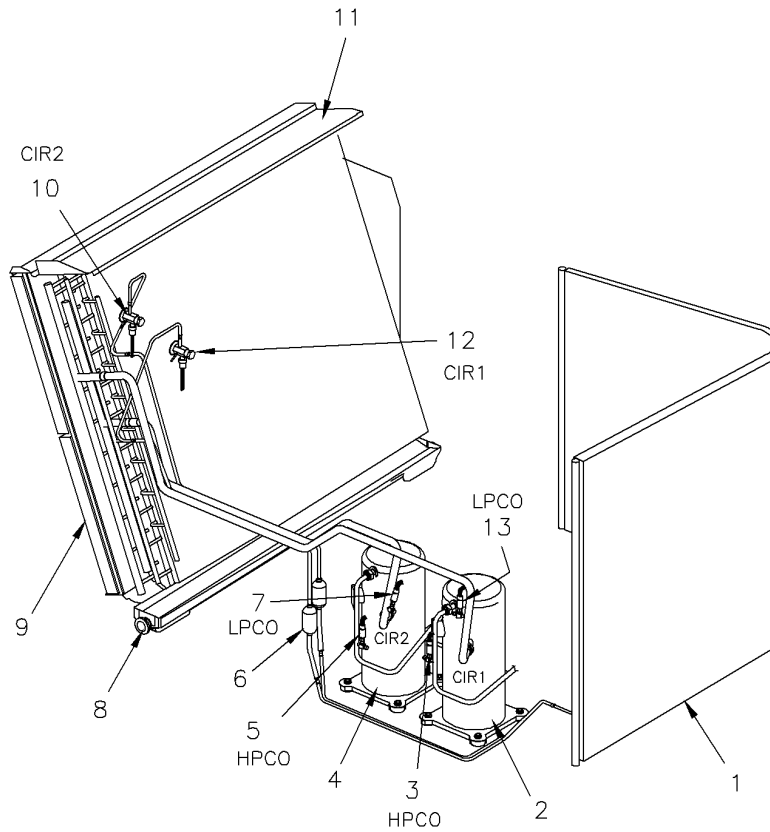
Part No.	Reference No.	Quantity	Description
CNT03511	*	1	CONTROL; LIMIT, 120F, AUTOMATIC RESET, SPST, NC, 15A/120VAC, 10A/240VAC, QC TERMINAL
SCR01557	*	16	SCREW; SHEET METAL 0.25-14 X 0.62, HEX HEAD, SLATE GRAY COLOR
WIR05194	*	1	WIRE; HARNESS, INDOOR FAN MOTOR (1Z,2S,3S,GND,37B,39B,40B,41B,45B,108C,158E)
FAN04605	1	1	FAN; INDOOR FAN/BLOWER ASSEMBLY, DIRECT DRIVE, 200-240V, 3.75 HP, AC, 50/60HZ, 3 PHASE, WITH HARNESS. INCLUDES MOTOR THAT IS NOT AVAILABLE SEPARATELY.
BRK03923	2	1	BRACKET; PLENUM BOTTOM ANGLE; 19.71 X 2.13 X 4.50
PLT04558	3	1	PLATE; PLENUM FRONT WITH ORIFICE, 24.60 X 24.00
BRK03921	4	1	BRACKET; PLENUM TOP FRONT ANGLE, 19.75 X 9.00
BRK03922	5	1	BRACKET; PLENUM TOP REAR ANGLE, 19.75 X 9.00
BRK03923	6	1	BRACKET; PLENUM BOTTOM ANGLE; 19.71 X 2.13 X 4.50
PLT04559	7	1	PLATE; PLENUM MOTOR MOUNTING, 24.31 X 24.00

Refrigeration

75009709

REV
A

Typical illustration. Unit may not appear exactly as shown.



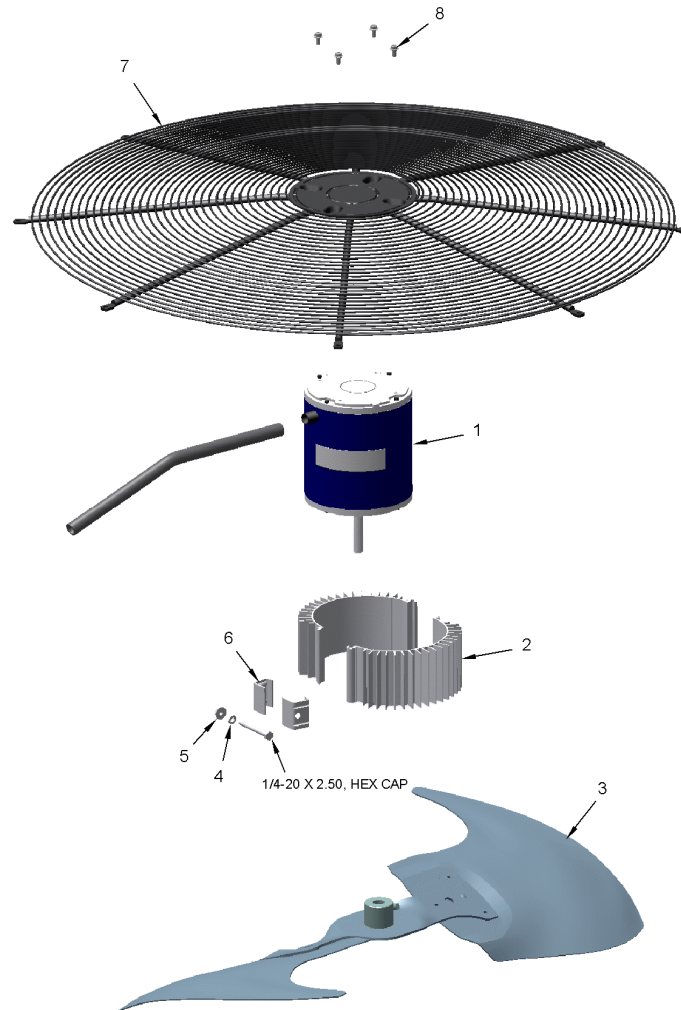
Part No.	Reference No.	Quantity	Description
BRK03234	*	2	BRACKET; INDOOR COIL, BOTTOM, 0.65 X 4.39 X 1.50
BRK03910	*	1	BRACKET; INDOOR COIL SUPPORT, 3.3 X 3.0
BRK03911	*	1	BRACKET; COMPRESSOR SUPPORT, 25.0 X 23.8 X 34.5
BRK04232	*	2	BRACKET; FILTER SEPARATOR
CAP00072	*	3	CAP; VALVE, SEAL, .25 FFL
CLP00296	*	2	CLIP; TXV BULB, 7/8 INCH
CNL01752	*	1	CHANNEL; MOUNTING PLATE SUPPORT, COMPRESSOR, 39.24 X 2.09 X 17.0
COR00006	*	2	CORE; VALVE PORT, .79 LENGTH, .206-36 UNS 2A THD
HTR10245	*	1	HEATER; CRANKCASE, 70W, 230V, 18AWG W/2 LEADS - ONE IS 65" LG W/ 1/4 INSUL FEMALE QC - ONE IS 65" LG W/ 1/4 UNINSUL FEMALE QC
HTR11909	*	1	HEATER; CRANKCASE, 40W, 230V, 18 AWG W/2 LEADS
KIT08039	*	2	KIT; GROMMETS. COMPRESSOR MOUNTING. (CONSISTS OF 4), 0.44 ID X 1.63 OD NEOPRENE RUBBER-BLACK 45-55 DUROMETER
NUT00355	*	8	NUT; HEX, LOCK, 5/16IN.-18
NUT00890	*	8	NUT; PALLET, 5/16-18 UNC 2B THD.
PLT04552	*	1	PLATE; COMPRESSOR MOUNTING, 38.14 X 18.69
PLU01049	*	1	PLUG; SCROLL COMPRESSOR HARNESS, CKT1, 12GA, 4A-RD, 6C-BL, 3C-BK, 62 IN LENGTH
SET00819	*	4	SEAT; SADDLE MOUNT ASSEMBLY
STM00803	*	4	STEM; SADDLE MOUNT, VALVE CORE, BRASS, .344 DIA X 1.29 SCHRAEDER TYPE FITTING (TO INCLUDE 5 PIECES)
THT02760	*	1	THERMOSTAT; WITH CLIP, .5/.625 TUBE, 72" BLACK WIRES, SPST, 230F OPEN, 180F CLOSE
THT02761	*	1	THERMOSTAT; WITH CLIP, .5/.625 TUBE, 72" RED WIRES, SPST, 230F OPEN, 180F CLOSE
VAL01483	*	2	VALVE; BODY, .44-20 THD X .25 ODS, STRAIGHT, BRASS, LESS CORE
WIR03440	*	1	WIRE; HARNESS, COMPRESSOR, 12 AWG, CC2
WIR04406	*	1	WIRE; HARNESS, LOW PRESSURE SWITCH, 42 IN LENGTH, BLUE WIRES, CIR 1
WIR04407	*	1	WIRE; HARNESS, LOW PRESSURE SWITCH, 55 IN LENGTH, YELLOW WIRES, CIR 2
COM10212	2	1	COMPRESSOR; SCROLL, SXA061B3BPZ, 5.0 TON, 200-230/60/3, R410A
SWT03402	3	1	SWITCH; HIGH PRESSURE, BRAZED, OPENS AT 650 PSIG, CLOSSES AT 550 PSIG, 61 INCH WHITE LEADS
COM10033	4	1	COMPRESSOR; SCROLL, SXA031C3BPZ, 2.58 TON, 200/230/60/3, R410A, RED
SWT03403	5	1	SWITCH; HIGH PRESSURE, BRAZED, OPENS AT 650 PSIG, CLOSSES AT 550 PSIG, 61 INCH ORANGE LEADS
DHY01511	6	2	DRIER; FILTER, LIQUID LINE, 5/16 ODM INLET X 5/16 ODF OUTLET, 8 CU INCH
SWT03623	7	1	SWITCH; LOW PRESSURE CUTOUT, 250 OPEN, ACTUATION PRESSURE 55 +/- 5, RESET PRESSURE 35 +/- 5
PAN03005	8	1	PAN; DRAIN, BLACK POLYCARBONATE, 62.5 X 4.0
DST00949	10	1	DISTRIBUTOR; ASSEMBLY, INDOOR, 9 OUTLETS, #2.5 NOZZLE
VAL09592	10	1	VALVE; EXPANSION; 3 TON, 3/8 ODF IN X 1/2 ODF OUT, NON-ADJUSTABLE, R410A, 128.7 PSIG
COL16361	11	1	COIL; INDOOR. INCLUDES THE DISTRIBUTORS, NOT THE TXVS
DST00950	12	1	DISTRIBUTOR; ASSEMBLY, INDOOR, 13 OUTLETS, #4 NOZZLE
VAL08977	12	1	VALVE; EXPANSION; 6 TON, 3/8 ODF IN X 1/2 ODF OUT, NON-ADJUSTABLE, R410A, 126 PSIG
SWT03623	13	1	SWITCH; LOW PRESSURE CUTOUT, 250 OPEN, ACTUATION PRESSURE 55 +/- 5, RESET PRESSURE 35 +/- 5

FAN

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TYPICAL ILLUSTRATION



Part No.	Reference No.	Quantity	Description
WAS00041	*	1	WASHER; FLAT, PLAIN, #12 .25 ID X .56 OD, .065 THK, CARBON STL-PLD
MOT13448	1	1	MOTOR; 3/4 HP, 208-230/60/3, 1100 RPM, 48 FRAME, BALL BEARINGS, MAX FLA 2.7, MAX LRA 9.8
RNG01005	2	2	RING; EXTRUDED FIN, HEAT SINK, 3.00 WIDE, UNRESTRAINED DIM IS 7.20/6.61
FAN04206	3	1	FAN; 2 BLADE, 30.36 IN DIA, 18 DEG PITCH, CW, 5/8 BORE
WAS00670	4	1	WASHER; .26 ID X .49 OD
NUT00009	5	1	NUT; .25-20, HEX LOCK
BRK00688	6	2	BRACKET; CONNECTING, HEAT SINK
GRL01664	7	1	GRILLE; OUTDOOR FAN, 35 INCH MTG DIA
SCR01996	8	4	SCREW; #10-32 THREAD FORMING, IND 5/16 HEX FLG WASHER HEAD, .438/.408 LENGTH, W/GERNIBS TAPTITE II (4 PER BAG)

Model Number Notes	75009396	REV D
Packaged Gas/Electric YHC072 to YHC120		
① Optional on YHC072, Standard on YHC074F to YHC120F. ② Manual outside air damper will ship factory supplied within the unit, but must be field installed. ③ Motorized Outside Air Damper is not available on Multi-Speed or SZVAV (Single Zone Variable Air Volume) products. ④ Not available with electromechanical controls ⑤ Economizer with Barometric Relief is for downflow configured units only. Order Economizer without Barometric Relief for horizontal configuration. Barometric Relief for horizontal configured units must be ordered as field installed accessory. ⑥ YHC072E,072F – Belt Drive Standard, 15=1 Optional. YHC074F,092E,092F,102E,102F,120E,120F – Ultra High Efficiency Direct Drive Plenum Fan is standard. ⑦ Single Zone VAV is only available on YHC074 to YHC120 units with ReliaTel Controls. ⑧ Discharge Air Sensing is also standard equipment on units with Single Zone and Supply Air Temperature Control VAV. ⑨ Multi-speed indoor fan available only on YHC074 to YHC120 units with ReliaTel Controls. ⑩ Epoxy coil and epoxy with hailguard options are not available for units with microchannel condenser coil. ⑪ Through the base electric required when ordering disconnect/circuit breaker options. ⑫ Through the base piping and shutoff (field assembly required). ⑬ Requires use of Disconnect or Circuit Breaker. Powered Convenience Outlet not available on High Efficiency 575V. ⑭ Novar is not available with SZVAV products. ⑮ Standard metering devices are TXVs. ⑯ Requires selection of 2" Pleated Filters (16=B or C) ⑰ Froststat cannot be field installed in electromechanical units. ⑱ High Pressure Control and Crankcase Heaters are standard on all units. ⑲ Froststat standard on Multi-Speed and SZVAV (Single Zone Variable Air Volume). ⑳ Not available with high temperature duct sensor accessory. ㉑ Return Air Smoke Detector cannot be ordered with Novar Controls. ㉒ The return air smoke detector may not fit up or work properly on the Precedent units when used in conjunction with 3rd party accessories such as bolt on heat wheels, economizers and power exhaust. Do not order the return air smoke detectors when using this type of accessory. ㉓ These options are standard when ordering Novar Controls. ㉔ This option is used when ordering Novar Controls. ㉕ Novar Sensor utilized with Digit 21=(4) Novar 3051 Controls² without Zone Sensor. ㉖ Demand Control Ventilation Option includes wiring only. The CO sensor is a field-installed only option. ㉗ Demand Control Ventilation Option not available with electromechanical controls.		

Model Number Description		75009395	REV D
Packaged Gas/Electric YHC072E to YHC120E Digits 18 through 27			
DIGIT 18 – Through the Base Provisions 0 = No Through the Base Provisions A = Through the Base Electric⁽¹⁾ B = Through the Base Gas Piping C = Through the Base Electric and Gas Piping⁽²⁾ DIGIT 19 – Disconnect/Circuit Breaker 0 = No Disconnect/No Circuit Breaker 1 = Unit Mounted Non–Fused Disconnect⁽¹⁾ 2 = Unit Mounted Circuit Breaker⁽¹⁾ DIGIT 20 = Convenience Outlet 0 = No Convenience Outlet A = Unpowered Convenience Outlet B = Powered Convenience Outlet ⁽¹³⁾ DIGIT 21 – Communications Options ⁽⁴⁾ 0 = No Communications Interface 1 = Trane Communications Interface 2 = LonTalk® Communications Interface 3 = Novar 2024 Controls⁽¹⁴⁾ 4 = Novar 3051 Controls without Zone Sensor⁽¹⁴⁾ 5 = Novar 3051 Controls Interface with DCV ⁽¹⁴⁾ 6 = BACnet® Communications Interface 7 = Air–Fi™ Wireless Communications DIGIT 22 – Refrigeration System Option 0 = Standard Refrigeration System ⁽¹⁵⁾ B = Dehumidification Option ⁽¹⁶⁾ DIGIT 23 – Refrigeration Controls 0 = No Refrigeration Control⁽¹⁷⁾ 1 = Froststat ⁽¹⁸⁾ ⁽¹⁹⁾ DIGIT 24 – Smoke Detector ⁽²¹⁾ 0 = No Smoke Detector A = Return Air Smoke Detector⁽²¹⁾ ⁽²²⁾ B = Supply Air Smoke Detector C = Supply and Return Air Smoke Detectors ⁽²¹⁾ ⁽²²⁾ D = Plenum Smoke Detector DIGIT 25 – Monitoring Controls 0 = No Monitoring Controls⁽²³⁾ 1 = Clogged Filter Switch⁽²³⁾ 2 = Fan Failure Switch⁽²³⁾ 3 = Discharge Air Sensing Tube⁽²³⁾ 4 = Clogged Filter Switch and Fan Failure Switch⁽²³⁾ 5 = Clogged Filter Switch and Discharge Air Sensing Tube⁽²³⁾ 6 = Fan Failure Switch and Discharge Air Sensing Tube⁽²³⁾ 7 = Clogged Filter, Fan Fail Switch and Discharge Air Sensing Tube⁽²³⁾ 8 = Novar 2024 Return Air Sensor⁽¹⁴⁾ ⁽²⁴⁾ 9 = Novar 3051 Zone Sensor ⁽¹⁴⁾ ⁽²⁵⁾ A = Condensate Drain Pan Overflow Switch B = Clogged Filter Switch⁽²³⁾ and Condensate Drain Pan Overflow Switch C = Fan Failure Switch⁽²³⁾ and Condensate Drain Pan Overflow Switch D = Discharge Air Sensing⁽²³⁾ and Condensate Drain Pan Overflow Switch E = Clogged Filter Switch⁽²³⁾, Fan Failure Switch⁽²³⁾ and Condensate Drain Pan Overflow Switch F = Clogged Filter Switch⁽²³⁾, Discharge Air Sensing Tube⁽²³⁾, and Condensate Drain Pan Overflow Switch G = Fan Failure Switch⁽²³⁾, Discharge Air Sensing Tube⁽²³⁾, and Condensate Drain Pan Overflow Switch H = Clogged Filter Switch⁽²³⁾, Fan Failure Switch⁽²³⁾, Discharge Air Sensing Tube⁽²³⁾, and Condensate Drain Pan Overflow Switch DIGIT 26 – System Monitoring Controls 0 = No Monitoring Controls 1 = Demand Control Ventilation (CO₂) ⁽²⁶⁾ ⁽²⁷⁾ DIGIT 27 – Unit Hardware Enhancements 0 = No Enhancements 1 = Stainless Steel Drain Pan			
See <u>Model Number Notes</u> graphic for explanation of Notes ⁽¹⁾ to ⁽²⁷⁾			

Model Number Description
Packaged Gas/Electric YHC072 to YHC120
Digits 1 through 17

75009394

REV
E

DIGIT 1 – Unit Function

Y = DX Cooling, Gas Heat

DIGIT 2 – Efficiency

H = High Efficiency

DIGIT 3 – Airflow

C = Convertible

DIGIT 4,5,6 – Nominal Gross Cooling Capacity (MBh)

072 = 6 Ton

074 = 6 Ton (Title 24 compliant)

092 = 7.5 Ton

102 = 8.5 Ton

120 = 10 Ton

DIGIT 7 – Major Design Sequence

E = R-410A Refrigerant

F = Microchannel Type Condenser Coils ①

DIGIT 8 – Unit Voltage

3 = 208–230/60/3

4 = 460/60/3

W = 575/60/3

DIGIT 9 – Unit Controls

E = Electromechanical

R = ReliaTel™ Microprocessor

DIGITS 10 – Heating Capacity

L = Low Heat

M = Medium Heat

H = High Heat

X = Low Heat, Stainless Steel Heat Exchanger

Y = Medium Heat, Stainless Steel Heat Exchanger

Z = High Heat, Stainless Steel Heat Exchanger

DIGIT 11 – Minor Design Sequence

A = First Sequence

DIGITS 12,13 – Service Sequence

** = First Sequence

DIGITS 14 – Fresh Air Selection

0 = No Fresh Air

A = Manual Outside Air Damper 0–50% ②

B = Motorized Outside Air Damper 0–50% ③

C = Economizer, Dry Bulb 0–100% without Barometric Relief ⑤

D = Economizer, Dry Bulb 0–100% with Barometric Relief ⑤

E = Economizer, Reference Enthalpy 0–100% without Barometric Relief ④ ⑤

F = Economizer, Reference Enthalpy 0–100% with Barometric Relief ④ ⑤

G = Economizer, Comparative Enthalpy 0–100% without Barometric Relief ④ ⑤

H = Economizer, Comparative Enthalpy 0–100% with Barometric Relief ④ ⑤

K = Low Leak Economizer with Barometric Relief

M = Low Leak Economizer with Reference Enthalpy with Barometric Relief

P = Low Leak Economizer with Comparative Enthalpy with Barometric Relief

DIGIT 15 – Supply Fan/Drive Type/Motor

0 = Standard Drive ⑥

1 = Oversize Motor

6 = Single Zone VAV ⑦ ⑧

7 = Multi-Speed Indoor Fan ⑨

E = VAV Supply Air Temperature Control Standard Motor ⑧

DIGIT 16 – Hinged Service Access

0 = Standard Panels/Standard Filters

A = Hinged Access Panels/Standard Filters

B = Standard Panels/2" MERV Filters

C = Hinged Access Panels/2" MERV Filters

D = Standard Panels/2" MERV 13 Filters

E = Hinged Access Panels/2" MERV 13 Filters

DIGIT 17 – Condenser Coil Protection

0 = Standard Coil

1 = Standard Coil with Hail Guard

2 = Black Epoxy Pre-Coated Condenser Coil ⑩

3 = Black Epoxy Pre-Coated Condenser Coil with Hail Guard ⑩

4 = CompleteCoat™ Condenser Coil

5 = CompleteCoat™ Condenser Coil with Hail Guard

See Model Number Notes graphic for explanation of Notes ① to ②⑦

Parts List Number :YHCUP9

Model Number :YHC120F3EMA0000

Part No.	Reference No.	Quantity	Description
BAYCURB044A	*	1	ROOF CURB
BAYGARD070A	*	1	GUARD; HAIL GUARD (BAYGARD070AA)
BAYLSW001A	*	1	POWER EXHAUST LIMIT SWITCH
BAYQACB111A	*	1	QUICK ADAPTER ROOF CURB
BAYQACB112A	*	1	QUICK ADAPTER ROOF CURB
BAYQACB113A	*	1	QUICK ADAPTER ROOF CURB
BAYTUBE402A	*	1	DISCHARGE AIR SENSING; GAS HEAT
DMP02176	*	1	DAMPER; 0-50% MANUAL OUTSIDE AIR DAMPER (BAYDMPR056BA)
DMP03539	*	1	DAMPER; 0-50 PERCENT MOTORIZED OUTSIDE AIR DAMPER, ELECTROMECHANICAL (BAYDMPR055B)
ECN00238	*	1	ECONOMIZER; ELECTROMECHANICAL, 0-100% DRY BULB (BAYECON088B)
KIT06658	*	1	KIT; ENTHALPY CONTROL (BAYENTH001AB)
KIT13711	*	1	KIT; VENTILATION OVERRIDE (BAYVNOR001BB) (OPTIONS BOARD KIT09433-BAYABRD001CA MUST BE INSTALLED IN THE UNIT FOR THIS ACCESSORY TO OPERATE).
KIT15163	*	1	KIT; POWER EXHAUST, 208/230V (BAYPWRX026A)
KIT15623	*	1	KIT; LP CONVERSION (BAYLPKT029C)
KIT16189	*	1	KIT; EBM FAN CONTROL WITH ECM BOARD FOR ELECTROMECHANICAL UNITS
THT02773	*	1	THERMOSTAT; WALL MOUNT, NON-PROGRAMMABLE 3H/2C (BAYSTAT155A)
THT02774	*	1	THERMOSTAT; WALL MOUNT, PROGRAMMABLE 3H/2C, (BAYSTAT150AA)
THT02775	*	1	THERMOSTAT; PROGRAMABLE TOUCH SCREEN 3H/2C
TMR00140	*	1	TIMER; ANTISHORT CYCLE (BAYASCT001)