Chiller Quote request for MCS Microprocessor Upgrade

1) FILL OUT THE ONLINE FORM
2) PRINT TO PDF (Creates a file on your desktop or other)
3) EMAIL FILE TO SALES@MCSCONTROLS.COM

General Information

Company_____ Name_____ Title _____
Email _____ Phone _____ Mobile _____

Unit Information

Installation Site Name_____ *example: ABC Elementary School* Unit Manufacturer _____ *example: Trane, Dunham Bush* Model Number _____ *example: CVHE32, HWSC225D*

Unit Serial # _____ Site Unit # _____ *example: Chiller #2*

What is the voltage to the unit? ◯ 208V ◯ 230V ◯ 460V ◯ 4160V Other Voltage _____

What is the control voltage in the unit? ◯ 24V ◯ 115V ◯ 230V What type of refrigerant is being used? _____

Building Management System Information (BMS) Do you want:

	None	Hardwired	Network
BMS Target Reset	◯	◯	◯
BMS Run/Stop	◯	◯	◯
BMS Demand Step Limiting	◯	◯	◯
BMS Demand FLA% Limiting	◯	◯	◯

Do you want Low Ambient Unit shut off? If yes, what value? _____
If ambient is below a certain value the system will not run

Do you want High Ambient Unit shut off? If yes, what value?_____

If communication to the BMS is lost default the BMS run to:

Network Connection

IP Address _____
Subnet Mask _____
Default Gateway _____
MCS Port_____

Ethernet_____
◯ Bacnet IP Device ID 181
◯ Modbus IP

RS485_____
◯ Bacnet MSTP
◯ Modbus RTU
◯ Johnson N2
◯ Lontalk

Address
Baud Rate _____
MAX Masters _____
Network # _____

Evaporator Information

How many refrigeration circuits Does each circuit have a Liquid Line Solenoid?

Where is the Evaporator located? ◯ On Package ◯ Remote

What is the Evaporator type? What is the medium we are cooling Other _____

Does it have a electronic expansion valve? If yes, who is the manufacturer? _____

What is the model #? _____ How many valves per circuit? _____ Are we controlling them?

How many chilled water pumps? Is MCS controlling the chilled water pumps? Is there a barrel heater?

Do you have a primary and standby chilled water pump(s) Are they on a VFD? Is the unit making ice?

Condenser Information (up to 20 circuits)

What is the condenser type?

Is MCS controlling the condenser?

Is the condenser

Water Cooled

Is there a cooling tower just for this chiller?

If yes, do you want to control the cooling tower?

Is there a VFD on the cooling tower pumps?

How many fans on the cooling tower?

Are there VFD's on the fans?

If no, is there a bypass water valve?

Air Cooled

If air cooled how many banks of fans (fan circuits) do you have?

How do the fan banks relate to the refrigerant circuit?

Circuit	Fan Bank1	Fan Bank2	Fan Bank3	Fan Bank4	Fan Bank5	Fan Bank6	Fan Bank7	Fan Bank8
1	◯	◯	◯	◯	◯	◯	◯	◯
2	◯	◯	◯	◯	◯	◯	◯	◯
3	◯	◯	◯	◯	◯	◯	◯	◯
4	◯	◯	◯	◯	◯	◯	◯	◯
5	◯	◯	◯	◯	◯	◯	◯	◯
6	◯	◯	◯	◯	◯	◯	◯	◯
7	◯	◯	◯	◯	◯	◯	◯	◯
8	◯	◯	◯	◯	◯	◯	◯	◯
# of stages (# of relays)								

Are they on a VFD If yes:

What is the control voltage span?_____ What is the full close to full open time delay?_____
The actuator must accept at least a 0-10 volt DC signal

Compressor Information

Compressor Type? Number of Compressors per Circuit?_____

If Reciprocating Compressors, how many Unloaders per compressor?

Comp1 Comp3 Comp5 Comp7

Comp2 Comp4 Comp6 Comp8

What is the compressor Model # and FLA (full load amps)?

Comp1		FLA1		Tons1		CFM1		Comp5		FLA		Tons5		CFM5	
Comp2		FLA2		Tons2		CFM2		Comp6		FLA6		Tons6		CFM6	
Comp3		FLA3		Tons3		CFM3		Comp7		FLA		Tons7		CFM7	
Comp4		FLA4		Tons4		CFM4		Comp8		FLA8		Tons8		CFM8	

What is the compressor starter type?

Do you want 2 relays to control the transition?

Does the compressor have start up bypass? Does it have Liquid Line Solenoid? Per circuit?

Does the compressor have hot gas bypass? If yes, which circuits? ○1 ○2 ○3 ○4 ○5 ○6 ○7 ○8

Does the compressor have fast unload? Does the compressor have an oil cooler?

Does the compressor have economizer? If yes, on circuit ○1 ○2 ○3 ○4 ○5 ○6 ○7 ○8

Does the compressor have liquid injection to cool the motor?

Does the compressor have chamber injection? If yes, what is the cooling medium?

Control Informa on

Will the unit have a Touch Screen ○ On Unit ○ Remote

Does the unit have a Run/Stop switch?

Does the unit have an Emergency Stop switch?

Do you want a Warning output?

Do you want an Alarm output?

Does the unit have a heatpump?

Do you want to monitor unit Amperage?

Do you want to monitor unit KW?

Do you want to monitor Ambient Temperature?

Do you want to monitor Phase loss?

Do you want to monitor voltages? If yes Phase A-B ○ Phase B-C ○ Phase A-C ○

Is there any other information we should know?