

Document Number
Master Checklist
Tag No
Description
Worksection No
Discipline
System Name

Equipment Data

Equipment Type
Manufacturer
Model No
Serial No
Vendor

Location Data

Building Name
Floor Number
Room Number
Area Served
Parent Equipment

Nameplate Data	Specified	Submitted	Installed	Ctr	CQC	Cx	Comment No
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CHI-1A Model Verification

Mechanical Services

Manufacturer				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Model				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Serial number				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Capacity (kW)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condenser fluid type				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condenser fluid flow rate (L/s)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chilled fluid type				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chilled fluid flow rate (L/s)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Refrigerant type				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Compressor motor power (kW)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Compressor motor Voltage (V) / Phase (-) / Frequency (Hz)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

Inspection Items	Ctr	CQC	Cx	Comment No
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CHI-1B Physical Checks

Mechanical Services

Unit is free from physical damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Openings are sealed with plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All components present (cooler, condenser, compressor, motor, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Inspection Items	Ctr	CQC	Cx	Comment No
Motor bearings are double sealed and permanently lubricated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical disconnect is provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Installation and startup manual provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unit tags affixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2A Installation				Mechanical Services
Unit is secured as required by manufacturer and specifications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is a minimum of 1m of clearance around the entire unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is a minimum of 1.3m of clearance in front of starter or VSD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
There is a minimum clearance of unit length for tube pull space	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All components are accessible for maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unit labeled and is easy to see	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2B Refrigerant				Mechanical Services
Full operating charge of refrigerant and oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unit factory leak tested and report is attached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Relief pipe to outdoors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Refrigerant monitor installed and operational before refrigerant loaded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Drip leg and flex connector at unit connection to relief piping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2C Electrical				Electrical Services
Lugs tightened by chiller startup technician	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Safety disconnect switch installed in an accessible location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lug sizing matches wire size requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Primary and secondary fused control power transformer provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Star-delta starter provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
AIC and Withstand ratings exceed available fault shown on electrical drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VSD installed (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2D Controls Installation				BMS Services

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Inspection Items	Ctr	CQC	Cx	Comment No
Control panel accessible and labeled properly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All sensors are installed and calibrated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Safety items installed and verified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2E Controls Startup				BMS Services
Unit voltage and amps at specification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Remote start and stop signal operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chilled water reset signal operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Demand limiting signal operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unit "run" sequences operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unit "alarm" sequences verified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2F Mechanical Startup				Mechanical Services
Manufacturer's startup checklist completed and attached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
The following safety controls are operational and have been verified:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Low chilled water temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
High refrigerant pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Low oil flow protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of chilled water flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of condenser flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of refrigerant protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Motor current overload	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Phase reversal/ unbalance/ single phasing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Over/under voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Failure of water temperature sensor used by controller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Full load test to verify load limiting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
System starts and runs without any unusual noise or vibration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CHI-2G Test and Balancing				Mechanical Services

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Chilled water strainer is clean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Evaporator pressure drop (___)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chilled water flow rate (L/s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condenser water strainer is clean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condenser water pressure drop (___)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condenser water flow rate (L/s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

Type	Name	Company	Sign Off Date
Commissioning Authority			
Mechanical Sub Contractor			
BMS Sub Contractor			

Prepared By
Final Completion Date