

2021 TRADE SCOPES INDEX

AUTOMATIC TEMPERATURE CONTROLS SCOPE

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Revised 2007

SUB TO MECHANICAL THROUGH BID DEPOSITORY

The control contractor shall include a complete control installation in accordance with plans, specifications, issued addenda and the Saskatchewan Bid Depository Rule and Regulations.

NOTE #1

Prewired factory-packaged equipment, so specified under the Mechanical Scope, shall mean equipment in a completely electrically operable state after one final connection of power wiring and remote-control connections if specified.

NOTE #2

Automatic temperature controls shall mean controls, which must:

1. be intended for equipment whose main purpose is to affect the temperature, humidity and pressures within a building, and
2. produce these changes automatically, and
3. include all items in the Automatic Temperature Controls Scope.

Provided, however, that the controls do not directly switch the power lines to the equipment; the wiring of such controls to remain the responsibility of the electrical contractor.

They shall **INCLUDE** the following items regardless of where they appear in the tender documents unless specifically noted otherwise in this scope:

1. Environmental Control
 - 1.1 Heating controls.
 - 1.2 Ventilation controls.
 - 1.3 Cooling controls.
 - 1.4 Humidification controls.
 - 1.5 Air conditioning controls.
 - 1.6 Refrigeration controls, (devices used to automatic system stop start only.).
 - 1.7 Boiler controls (not specified as part of prewired package boiler).
 - 1.8 Motorized dampers – supplied to job site for distribution and installation by others.
 - 1.9 Controls compressor complete with accessories and isolation.
 - 1.10 Remote reading gauges, transmitters and recorders for automatic recorders.
 - 1.11 Air flow stations (when not supplied as part of packaged equipment) - supplied to jobsite for distribution and installation by others.
 - 1.12 Combination control and balancing valves (single unit for both functions) – supplied to jobsite for distribution and installation by others.
2. Building Centralization Control
 - 2.1 Centralized temperature, humidity, pressure and flow indication and recorders.
 - 2.2 Centralizations of air conditioning, heating, ventilation, humidification and refrigeration equipment operation.

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3. Building Life Safety Control and Equipment Safety Control
 - 3.1 Motorized smoke dampers.
 - 3.2 Motorized fire dampers.
 - 3.3 Firestats.
 - 3.4 Freeze protection thermostats.
 - 3.5 Shutdown safety devices forming part of the automatic temperature control.
4. General Items
 - 4.1 Hoisting for material and equipment under this section.
 - 4.2 Excavating, etc. for work under this section.
 - 4.3 Permits as required for work under this section.
 - 4.4 Inspections as required under this section.
 - 4.5 Manufacturer's warranty only, beyond the normal one-year warranty, as required under this section.
 - 4.6 Protection of other trades work from damage by this trade.
 - 4.7 Trade clean-up
 - 4.8 Electrical thermostats for equipment under Mechanical Scope intended for automatic temperature controls complete with subbases or adapter plates to mount on standard one gang electrical box. (Cover plates for electrical boxes by electrical contractor).
 - 4.9 Supply only of access doors when specifically required for access to automatic temperature control equipment only.
 - 4.10 Control wiring and/or air piping required for all automatic temperature controls supplied under the Mechanical Scope.

They shall include the following electrical wiring:

 - a) Remote thermostats and remote prewired auxiliary control panels.
 - b) Boiler feedwater, low water cut-offs, highlimits, flowswitches and operating controls control wiring.
 - c) The magnetic starter coil and relay coils supplied under the Electrical Scope and intended for Automatic Temperature Controls, including interlocking between starters and/or relays when controlled automatically. (Manually started control and interlock wiring by Electrical Contractor.)
 - 4.11 Orifice plates for system measurements and control.
 - 4.12 Utility Control Systems, Industrial and process control systems, oil and gas refining installation and control systems – operating and monitoring systems for water supply and waste water, includes metering and sensing devices, where specified in Division 15.

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They shall **EXCLUDE** the following items regardless of where they appear in the Tender Documents:

Temporary heat, light, power (up to a maximum of 120/208 volts and an adequate amperage for temporary lighting, heating and convenience outlets, sanitation) or as specified.

1. Motorized dampers – when specified as integral part of packaged equipment.
2. Automatic temperature controls – when specified as integral part of packaged equipment.
3. Temporary heat, light, power, sanitation.
4. Hoarding.
5. Water.
6. Final Cleaning.
7. Electrical wiring for controls, which directly switch the power line to the equipment (“Directly” shall mean not through magnetic coil).
8. Power wiring as outlined in Electrical Scope Included Item 57.
9. Control power supply outlets as outlined in Electrical Scope Included Item 18.
10. Fire alarm fan shutdown relays and wiring.

The following items will be **INCLUDED** by the mechanical Contractor:

1. All direct reading thermometers and pressure gauges for the heating and cooling systems.
2. Self-contained radiator control valves.
3. Self-contained control valves, domestic hot water control.
4. Self-contained filter gauges.
5. Liquid level controls for sumps, condensate pumps, cooling towers, and fuel storage tanks.
6. Thermostats not directly involving automatic temperature controls systems.