

PART 1 - GENERAL

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| <u>1.1 Related Sections</u> | <ul style="list-style-type: none">.1 Section 01 00 10 - General Instructions..2 Section 01 33 00 - Submittal Procedures..3 Section 01 35 29.06 - Health and Safety Requirements..4 Section 01 74 21 - Construction/Demolition Waste Management And Disposal..5 Section 01 78 00 - Closeout Submittals..6 Section 21 05 01 - Common Work Results - Mechanical..7 Section 23 05 05 - Installation of Pipework. |
| <u>1.2 References</u> | <ul style="list-style-type: none">.1 American National Standards Institute (ANSI)/American Society of Mechanical Engineers International (ASME)..2 American Society for Testing and Materials International, (ASTM).<ul style="list-style-type: none">.1 ASTM B306-13, Standard Specification for Copper Drainage Tube (DWV)..2 ASTM B 32-08(2014), Specification for Solder Metal..3 ASTM C-564-14, Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings..3 Canadian Standards Association (CSA International).<ul style="list-style-type: none">.1 CAN/CSA B125-01, Plumbing Fittings..2 CSA B70-12, Cast Iron Soil Pipe, Fittings and Means of Joining..4 National Plumbing Code of Canada - 2010. |
| <u>1.3 Quality Assurance</u> | <ul style="list-style-type: none">.1 Health and Safety:<ul style="list-style-type: none">.1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements. |
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| <u>1.4 Submittals</u> | .1 | Submittals in accordance with Section 01 33 00 - Submittal Procedures, and Section 21 05 01 - Common Work Results Mechanical. |
| | .2 | Submit data for following: |
| | .1 | Pipes. |
| | .2 | Fittings. |
| <u>1.5 Closeout Submittals</u> | .1 | Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals. |
| <u>1.6 Waste Management and Disposal</u> | .1 | Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal, and Section 21 05 01 Common Work Results Mechanical. |
| <u>1.7 Delivery, Storage and Handling</u> | .1 | While delivering materials to site follow requirements of Section 01 00 10 - General Instructions and Section 21 05 01 - Common Work Results Mechanical. |

PART 2 - PRODUCTS

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| <u>2.1 Copper Tube and Fittings</u> | .1 | Above ground sanitary and vent to 63 mm or smaller. |
| | .1 | Pipe: |
| | .1 | Copper DWV to ASTM B 306. |
| | .2 | Fittings. |
| | .1 | Cast brass: to CAN/CSA-B125. |
| | .2 | Wrought copper: to CAN/CSA-B125. |
| | .3 | Solder: tin-lead, 50:50, type 50A, to ASTM B32. |

PART 3 - EXECUTION

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| <u>3.1 Installation</u> | .1 | In accordance with Section 23 05 05 - Installation of Pipework. |
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| <u>3.1 Installation
(Cont'd)</u> | <p>.2 Install in accordance with National Plumbing Code, Ontario Building Code and local authority having jurisdiction.</p> <p>.3 As recommended by the manufacturer provide adequate condensation drain for each indoor evaporator. Connect drain to existing pipe serving existing unit. Review site conditions and pipe slope to provide adequate drainage without interference with space usage.</p> <p>.4 Affix applicable label (drain) c/w directional arrows every 4.5 m.</p> <p>.5 Provide heat trace on all drains within coolers and freezers. Coordinate work with electrical trades and insulation contractor.</p> |
| <u>3.2 Testing</u> | <p>.1 Hydraulically test to verify grades and freedom from obstructions.</p> |

