| water piping shall be audipped with means for water for personal use at required otherwise. System shall be valved to supply system. Supply system. In a separate trench. etals shall electrically shall be coated and mmended in AWWA C-203. | | | |
|--|--|---|--|
| piping shall be ded with means for personal us dotherwise. shall be valved at the full size lated with a separate trench. shall electrically | (b) Steel and iron piping for gas service shall | | IESCA manuals, and shall |
| piping shall be ded with means for personal used otherwise. shall be valved system. tanks, including at the full size lated with a | (a) Gas service piping shall be installed in a Joints between lines of dissimilar metals isolate one metal from the other. | | (2) Air Distribution Systems Duct systems shall be designed and installed in accordance with a |
| piping shall be ded with means for personal us dotherwise. I shall be valved y system. I tanks, including at the full size | Pining Systems | | (1) <u>General</u> Suitable and durable means shall be provided to prevent transmission of objectionable noise or vibration generated by the system or equipment. |
| piping shall be ed with means for personal us d otherwise. shall be valvey system. | (2) <u>Central Domestic Hot Water Piping</u> All piping between heaters , boilers and storage circulating lines, shall be maintained throughout of | | chanical Cooling |
| piping shall be ped with means for personal us | < - | | s vent shall terminate less than 5 on connected appliances, except a |
| piping shall be | the temperature of the hot water ires to 110 deg. F, unless require | | (3) Vent materials including connectors shall be UL labeled and listed. They shall be installed in accordance with the listing, NFPA requirements and the manufacturer's instructions. |
| piping shall | Water Heating System and Storage neral Demostic hat water system shall be saving. | | (2) All gas fired heaters shall be vented. |
| uilding subjec may create a | (7) Cold water piping installed in locations of the buil freezing temperatures, or where pipe sweating me problem, and all circulating domestic hot water problem, and all circulating domestic hot water problem. | | Gas Fired Equipment (1) Equipment, including conversion burners, shall be labeled, listed and installed in conformance with the appropriate ANSI, AGA or UL requirements. |
| r draining. | Piping shall be properly sloped and arranged | | eating units ment shall |
| similar to that of e used where pipe of | (5) Pipe hangers and supports shall be of material states of the piping. Dielectric insulation fittings shall be dissimilar metals are connected. | (3) Parts and service shall be provided without charge during the first year after Substantial Completion of the project. | d in accordance with the en a recognized industry |
| to structural | itical damage | Standard manufacturer's warranty shall be provide equipment and remain effective regardless of char | Warm Air Heating System Work shall be installed in accordance with NFPA Standards 90A, 31 and 54. |
| III be coated and its application shall | (3) Underground threaded joints in ferrous pipe shall wrapped. Coating and wrapping material and its also conform with AWWA C-203. | (1) Operating instructions and a performance guarantee shall be furnished by the installer. | Work shall be installed in accordance with the National Electrical Code, enforced edition, and NFPA 70. |
| it by a protective also conform with | fected by such soil or shall be isolated from it I coating and its application shall also also also also also also also a | All | ng and ventilation shall the National Standards |
| earth free of | | (3) Manufacturer's wiring diagram shall be furnished for packaged units. For split systems a complete wiring diagram shall be furnished. Gas Equipment | Standards Except as modified on the drawings, the design, construction, installation, adjusting and labeling of all equipment, accessories and appurtenances |
| frost line. wer pipe 1 ft. above 4. <u>Distribution System</u> . Entire electrical system shall be | (1) Water service pipe shall be laid on solid ground below Service pipe may be laid in the same trench with sevent of solid earth at least | All moving machinery shall be protected and guarded to com the current safety standards of ANSI B 15.1. | (b) Provide three 0 & M manuals describing operation, servicing and maintenance requirements for each piece of equipment and material. |
| be supported on metal hangers or truction. S. <u>Excavations.</u> Conduit shall be laid on solid ground below grade. Service trenches shall of cinders, wood, rocks or other debris. Compact well | he wall shall the wall cons | Motors shall conform to Standard for Air Conditioners, Central Cooling UL 465. | bound folders 3 brochures of the compland material. |
| train is placed on 2. <u>Standards</u> : All electrical equipment shall be installed in current National Electrical Code, NFPA 70. | upporte otherwi: | h. Electric Equipment | <u>omittals</u> |
| c. <u>Connec</u> building. | (d) Storm sewer more than 5 ft. beyond the | and separate drain may be provided in lieu of the second drain pan. The additional pan, or the standing overflow, shall be provided with a drain pipe, min. 3/4" nominal pipe size discharaina at a point which can be readily observed | |
| (3) | "Plumbing Drawings". | of corrosion—resistant metal shall be installed beneath the cooling coil or unit to catch overflow condensate due to a clogged condensate drain; or one pan with standing overflow | (e) Paying for temporary heat during construction, unless noted otherwise. |
| indicated | otherwise. Concrete foundations and steel supports | (e) Where the cooling coil or air—conditioning unit is located above a habitable space, or where structural damage may result from condensate overflow, an additional watertight pan | (d) Openings, cutting and patching walls, roofs and ceilings for ductwork and piping. |
| ork Not Included | rk Not Included: Pavina for temporary water and sewer fo | | (b) Plumbing services and connections to units.(c) Electrical line voltage to units. |
| | permits. Roof flashing for vent piping. | le means shall be provided for the collecti sal of condensate from cooling equipment. | (a) Woo |
| sanitary sewer | the specifications. Securing and paving for all plumbing and | ment, suitable approved water treatment means will be required. Dielectric connectors shall be used between ferrous and non-ferrous piping in the cooling water circuit. | (d) Maintaining system for 1 year after Substantial Completion. |
| other Divisions of (6) Fire Alarm System, Security System | of items requiring installation by | (c) Where condenser cooling water is known to cause excessive corrosion, scaling or obstruction within the piping or equip— | (c) Temporary heat during construction. |
| Lighting Fixtures. | Storm se | any floor or outside grade shall be suitably protected to prevent damage to piping or injury to persons. | (b) Providing starters for electric motors furnished under "Mechanical". |
| (3) Lighting and Power Feeders. | Sanitary sewer. | | (a) Complete air conditioning system (heating, cooling and ventilating). |
| Tired eauipment. (2) Distribution, Lighting and Power Panels. | (b) (a) | minimum 3/8 inch thick material having a moisture and thermal transmission rate not in excess of 0.1 and 0.28 respectively. Insulate chilled water lines with maximum | Included: |
| | Except as modified herein, equipment and material sha accordance with the prevailing model plumbing code hothe project area. (1) Work included | (a) Distribution systems employing liquid media for cooling shall be designed in accordance with the applicable criteria contained in the ASHRAE Guide and shall be capable of producing summer comfort conditions within the concept of this standard. Refrigerant lines shall be insulated with a | Conditioning General Provide mechanical systems which will assure safety of operation, con— venience and comfort, protection from destructive elements reasonable durability and economy, and adequate capacity and quality. |

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