FANJET DIV.-Muellermist Irrigation Co.

2612–22 South Ninth Ave., Maywood, Illinois.

FANJET EVAPORATIVE ROOF COOLING SYSTEM

Adapted to Practically Any Kind of Roof Surface



Tests of a sprayed roof* show that it is more effective in excluding solar heat than a dry roof; more effective than a pool of water one inch deep; and more efficient than a pool six inches deep. For this reason engineers and plant managers are turning more and more to the sprayed roof as a relatively inexpensive means for improving working conditions in the absence of air conditioning, or of substantially reducing the load where there is air conditioning.

FANJET is a low priced roof cooling system with unusual features. No spray heads are required. By an exclusive patented process, copper pipe of special size and temper is pierced in such a way as to produce a fan shaped spray of peculiar character in that there are both fine and large drops. The fine drops wet the near areas while the large drops reach the outer areas with intersecting streams. Laterals are placed eighteen feet apart, with the pipe pierced on both sides except around the outside perimeters. The effect is a more evenly wetted surface than is possible by other meth ods.

The sprays are regulated by adjustable automatic controls, so that the quantity of water applied approximately balances evaporation, with little if any waste.

To absorb all solar energy on a hot day may call for up to 36 gal of water per 1000 sq ft per hr. This would mean an excessive demand rate on a large roof, so the roof is divided into sections to fit the available water supply, each being wetted in consecutive order. For design purposes allow 200 sq ft to one gallon of water. Evaporation from a properly wetted surface will go on with full efficiency for five or more minutes during the "off" period. The daily water requirements would be around 200 gal per 1000 sq ft.

Water pressure at roof level should be enough to allow 30 psi at the valve for each section.

Full information and estimates on request, without obligation.

Inquiry from Dealers invited.

* See ASHVE Transactions, Vol. 46, 1940, Research Paper 1157, p. 231

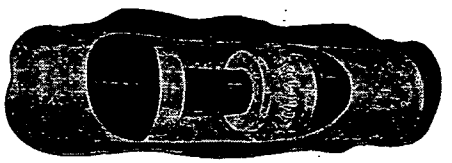
Durant Insulated Pipe Company

Palo Alto, California

Durant Insulated Pipe Co., Inc.
Williamstown, New Jersey

REPRESENTATIVES IN PRINCIPAL CITIES AND CANADA

DURANT Pre-Sealed INSULATED PIPE



Cutaway shows **DURANT** construction—Insulation and support sections are applied next to pipe—heavy gage galvanized steel casing is slipped over load bearing and spacer sections leaving a minimum 1 in. space which is filled with a special high melting point, non-porous asphalt. The result is a solid, compact unit, permanently waterproofed.

DURANT INSULATED PIPE is pre-fabricated into complete, insulated and waterproofed systems for use in underground or exposed locations. **DIP** is used for the conveyance of steam, hot water, refrigerants and process fluids, and for tracer type systems.

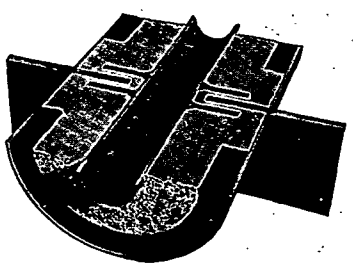
DIP is fabricated in all standard sizes—Pipe and Insulation supplied as specified—and is equally adaptable to single or multiple pipe units.

SPECIAL FEATURES



Assembly and installation of **DIP** units consists of joining pipe—applying insulation around pipe joint—securing connector to conduit ends—filling 1 in. space between insulation and connector with **DIP** special asphalt. Units may be assembled before placing in trench as shown here. No slabs, drains or supports are necessary.

The **DURANT** patented insulated anchor eliminates contact between pipe and anchor plate—provides electrical and thermostatic insulation against heat loss and electrolytic action.



The DURANT engineering staff and representatives are at your service—write or call for information, estimates, or new Durant catalog No. 55.