



NIAGARA BLOWER COMPANY

Service and Development in Air Engineering for Over 40 Years

Factory and General Offices: Buffalo, N. Y.—Executive Offices, New York, N. Y.

AIR ENGINEERING



Bulletin describes Niagara equipment for heat removal by the air method, cooling liquids and gases, condensing vapors; heat and moisture control by complete function air conditioning; vapor equilibrium by direct liquid contact.

BULLETIN No. 106

AIR CONDITIONING



Bulletin describes methods of obtaining precise control of temperature and moisture to help you make your product in any climate at any season. Illustrated with diagrams and photographs.

BULLETIN No. 122
BULLETIN No. 140
BULLETIN No. 58

AIR CONDITIONERS



Bulletin describes Niagara coil surface air conditioners for use with any refrigerant, offering any selection of air conditioning functions. Models available to match any load requirement.

BULLETIN No. 135

DRYING AND DEHUMIDIFYING



Bulletin 140 describes the use of a liquid absorbent for drying air, for drying materials at low temperatures, for packing and storing moisture sensitive materials and for processing. Photographs illustrate applications, diagram shows operation. Charts show air volume and dehumidifying capacities.

BULLETIN No. 140

HIGH PRESSURE STEAM HEATING



Bulletin describes method completely utilizing both the sensible and latent heat of high pressure steam. Trustworthy, long-lived equipment for heating or process.

BULLETIN No. 109

COOLING AND FREEZING



Bulletin describes Niagara "No-Frost" Method; production of low air temperatures for industrial uses, such as testing or processing at extreme sub-zero temperatures or for control of air moisture in atmospheres below the freezing point of water.

BULLETIN No. 95

"NO-FROST" METHOD



Bulletin describes Niagara "No-Frost" Method of refrigeration for food freezing, frozen food warehousing, fresh food pre-cooling and storage, giving completely automatic operation with no shut-down for defrosting.

BULLETIN No. 105

FAN COOLERS



Bulletin describes Niagara Fan Coolers, dry coil and brine spray types for use with brine, ammonia or freon refrigerants.

BULLETIN No. 110
BULLETIN No. 158

AEROPASS CONDENSERS



Bulletin describes evaporative refrigerant condensers providing protection against scaling of tubes, controlling of compressor head pressures, saving condenser water.

BULLETIN No. 111
BULLETIN No. 131

REFRIGERANT CONDENSERS



Catalog, illustrated with photos and diagrams, describes evaporative condensers for ammonia and freon with complete tables of sizes and capacities, method of selection, physical data. Niagara condensers offer both low installation and operating costs.

CATALOG No. C-2
BULLETIN No. 137
BULLETIN No. 142

AERO® HEAT EXCHANGERS



Bulletin describes evaporative cooling apparatus that keeps control of temperature within two degrees by modulating the flow of air. Saves 95% of cooling water. Provides heat when needed.

BULLETIN No. 130
BULLETIN No. 132

AERO® AFTER COOLERS



Describes equipment for cooling compressed air or gases, holding temperatures below ambient atmospheric temperature to prevent condensation of moisture. Includes application to air liquefaction systems.

BULLETIN No. 130

AERO® VAPOR CONDENSERS



Providing high vacuum, independent of a large supply of cooling water. Solves the problems of water supply and disposal. Fully automatic. Saves power. Saves steam.

BULLETIN No. 139R

LIQUID COOLERS



Cooling for chilled water or solutions, with elimination of freeze-up damage, with rapid chilling of large fluid volume and close temperature control.

BULLETIN No. 104

CONTINUOUS FOOD FREEZING



Bulletin 144, illustrated by photos and diagrams demonstrates method of continuous production quick-freezing constant flow high velocity air over product to always uniform freezing temperature in moving conveyor. Liquid spray prevents forming or building up frost, assuring full capacity constant for highest production.

BULLETIN No. 144



PANELBLOC DIVISION THE BETTCHER MANUFACTURING CORP.

3106 West 61 St. Cleveland, Ohio

PANELBLOC

PANELBLOC INFRA-RED RADIANT HEATERS BRING THE SUN INDOORS FOR COMMERCIAL AND INDUSTRIAL INSTALLATIONS

Through the eons man has benefited from radiant heat. First the sun and now the gas fired Overhead PANELBLOC takes over. With the speed of light healthful infra-red energy pleasantly warms objects and people without air disturbance.

A few of PANELBLOC'S advantages are:

- No fan—ideal for dusty areas.
- No motor—quiet as a sun's ray.
- No power consumption—unit generates own operating current.
- No costly electrical power installation charges.
- No possibility of shutdown due to power failure.
- No heat diverted by drafts from open doors or in open pavilions.
- No fuel wasted heating unnecessary spaces in building.

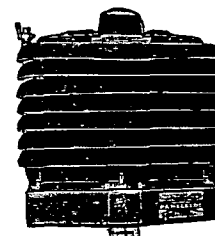
MODERN INFRA-RED METHOD

(U. S. and Foreign Patents Granted)

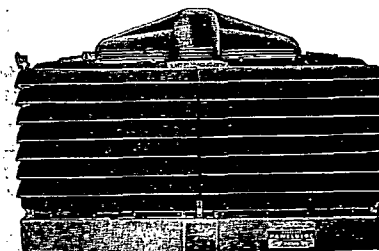
Developed to fill the gaps in Industrial and Commercial heating, PANELBLOC turns difficult heating problems into routine installations. PANELBLOC spot-heats with no need for costly partitions or false ceilings. Infra-red heat, like light, goes only where directed by the polished metal louvers. As a result people, equipment and particularly floors are pleasantly warm.

CONSTRUCTION AND OPERATION

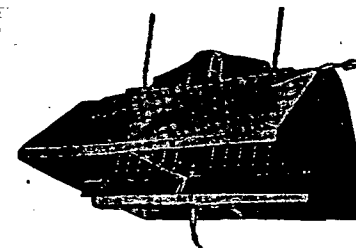
The combustion gases, produced from any commercial gas fuel pass through a unique panel heat exchanger of special steel. To overcome corrosion and high temperatures this heat exchanger is coated inside and out with vitreous enamel. The panel is heated to a carefully controlled temperature so that the infra-red waves (10 times longer than those from a glowing fire) produced have a wave length which gives maximum absorption. Maximum absorption means comfort heating.



CR-43 (62,500 Btu Input)



CR-125 (125,000 Btu Input)



CRH-125 (125,000 Btu Input)

Underwriters Laboratories Inc.
INSPECTED



For complete information, copies of Bulletins, Engineering Data, address NIAGARA BLOWER COMPANY, 405 Lexington Ave., New York 17, N. Y. Niagara District Engineers are located in principal cities.