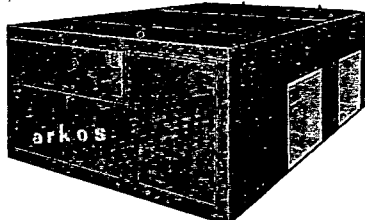


arkos®

Division of Arnold A. Kosarin & Associates Inc.
6970 West Jefferson Avenue
Detroit, Michigan 48217

MAKE-UP AIR HEATERS



MAKE-UP AIR BY ARKOS GIVES YOU MORE!

- Gas valves and controls completely enclosed . . .
To protect them against air contaminants.
To eliminate tampering.
To protect against physical damage.
- Two automatic safety shut-off valves furnished as standard . . .
In the event pipe scale or other obstructions should cause malfunction of one valve, the second valve would still be operable and protect against gas leakage.
- All major components are supported by separate heavy duty structural members . . .
So that none of the weight or strains of shafts, blowers, drives, couplings, or motors are transmitted to blower housings or outer casing. This promotes longevity, reduces maintenance and minimizes vibrations.
- Adjustable profile plates . . .
Permits field adjustment of air velocity over burner section. Permits optimum performance of burner under field conditions of varying CFM and external static pressure.
- The safety circuit has a back-up control for every major safety control . . .
In the event any safety control should fail, its function would be taken over by another safety control, incorporated into the system.
- All electrical controls contained within the gasketed control panel are bolted to a separate sub-base . . .
To facilitate service and insure that moisture and air borne contaminants cannot find their way into the panel to the detriment of the components.
- Each heater flame tested prior to shipment.
- Standard packaged heaters available in capacities from 3000 to 61,000 CFM. Larger sizes built to requirements. F.I.A., F.M. and J.I.C. compliance where applicable.
- Designed for outdoor or indoor installation.
- Filters and dampers available option.

ENGINEERING DATA

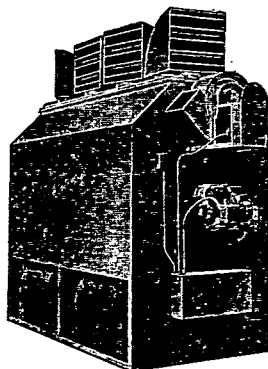
Heater Frame	CFM		H. P.*		BTU/HR. X.M	
	Min.	Max.	Min.	Max.	Min.	Max.
IX	6,000	9,000	1	5	400	1,200
X	8,500	13,000	1 1/2	10	600	1,600
XI	10,000	17,000	2	10	800	2,200
XII	14,000	22,000	3	15	1,000	2,800
XIII	20,000	30,000	5	20	1,600	3,800
XIV	29,000	39,000	7 1/2	25	2,200	5,000
XV	36,000	47,000	10	30	2,800	6,000
XVI	40,000	61,000	15	40	3,000	8,000

* Will vary with CFM & E.S.P. required.



Tested and rated in accordance with ASHRAE Standards 45-55 for Heavy Duty Furnaces and Direct Fired Heaters.

DIRECT FIRED HEATERS



patented

- 400,000—3,500,000 BTU/hr. output.
- Diamond-shaped stainless steel combustion chamber for maximum combustion volume and heat transfer.
- Ten year warranty.
- Automatic or manual switch-over on combination gas-oil burners.
- Four point floating chamber suspension allows free movement during heating and cooling.
- Radiation shield insures cool outer casing by providing live air insulation.
- Available for horizontal or inverted mounting, complete with vibration isolators.
- Gasketed dead-front control panel for maximum safety.
- Color-coded wiring facilitates servicing.
- Power rated burner for gas or oil firing.
- NAFM certified, heavy duty, double inlet, double width blowers.
- UL tested and approved for oil, gas, or combination, for both induced draft or forced draft operation.
- Completely wired, assembled and flame-tested prior to shipment.

ENGINEERING DATA

Heater Model	Btu Output	CFM	Sq Ft Heating Surface	Blowers Motor Hp
A-40	400,000	5,500	130	1
A-55	550,000	7,200	130	1 1/2
A-65	650,000	8,100	155	2
A-75	750,000	9,300	155	2
A-85	850,000	10,600	218	3
A-100	1,000,000	13,200	218	5
A-125	1,250,000	16,500	356	5
A-150	1,500,000	19,800	356	7 1/2
A-175	1,750,000	23,100	475	10
A-200	2,000,000	26,200	475	10
A-275	2,750,000	36,300	673	15
A-350	3,500,000	46,200	673	20



PEERLESS PUMP

FMC Corporation

PLANTS: Los Angeles, Calif. 90031 Indianapolis, Ind. 46208
301 West Avenue 26 2005 Northwestern Avenue

Offices: New York; Detroit; Cleveland; Tampa; Atlanta; Indianapolis; Chicago; St. Louis; Denver; Dallas; Plainview, Lubbock, Texas; Phoenix; San Francisco, Fresno, Los Angeles, Calif.

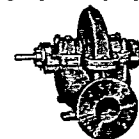
FOR HANDLING HOT, CHILLED, CLEAR OR CONDENSER WATER

Peerless Fluidyne end-suction close-coupled pump



HP range: 1 to 40 HP. Capacities: 30 to 800 gpm. Heads: up to 250 ft. Design: single-stage, end-suction. Drives: standard horizontal NEMA motor. Screwed and flanged connections. Sealed and packed types. Bronze impeller. Compact, versatile, dependable and efficient. Good hydraulic characteristics. Extremely durable and economical to operate. Completely described in Bulletin B-2100.

Peerless AquaLine horizontal centrifugal split case pump



For hot and cold water handling, circulation and boosting. Discharge sizes: 1 1/4 in. to 10 in. Capacities: up to 2600 gpm. Heads: up to 350 ft. Temperature range: up to 250°F. Drives: motor. The AquaLine volute is cast iron, bronze fitted, impeller is cast bronze. Available with packing gland or replaceable mechanical shaft seals. Highly dependable and economical to operate. Fully described in Bulletin B-2100.

Peerless Type A horizontal centrifugal split case pump



For the widest variety of pumping services. Capacities: to 60,000 gpm. Heads: to 400 ft. Single stage, split case design. Drives: direct-connected electric motor; belted drives; diesel, natural gas, and gasoline engine; steam turbine; combination drives. Double-suction sizes 1 1/4 in. through 42 in., bottom suction sizes 12 in. through 42 in. Completely described in Bulletin B-1700.

Peerless Deep Well Pump

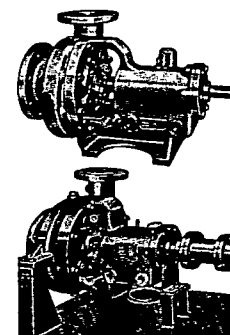
For water supply services. Capacities: 15 to 30,000 gpm for installations in 4 in. wells or larger, to any practical depth. Adaptable to motor, belt, gear or steam drives. This turbine pump features several design advantages special with Peerless; the cooling method, unique bearing contact, and packing arrangements are examples. Available in water or oil lubricated line-shaft types. Fully described in Bulletin B-141.

Peerless Hydro-line encased, vertical close-coupled centrifugal pump

Especially suited to pumping hot or cold water where floor space or NPSH is a problem. Capacities: up to 5000 gpm. Heads: to 3000 ft. Temperatures: up to 300°F. Drives: as required, standard vertical solid shaft or hollow shaft motors, steam turbines. Request Bulletin B-1700.

For Hydronic Systems

Peerless DM-DMR High Temperature High Pressure Pumps



Ideally suited for handling super heated water in hydronic systems. Easy to apply. Proven performance. Discharge sizes: 1 in. to 5 in. Capacities: up to 1000 gpm. Heads: up to 430 ft. Temperatures: to 450°F. Type DM is base mount while DMR is center line mount. Integrated design of pump permits maximum part interchangeability, reduces inventory of spare parts. Pumps are fully described in Bulletin B-1608 (DM) and B-1610 (DMR).

Peerless Hydro-Constant Pressure Systems

Maintains constant house system pressure under extreme variations in flow demands. This new proven system eliminates need for pressure tanks. Conserves valuable floor space. Maintains pressure within ± 2 psig. All changes are automatic. Described in Bulletin B-40-1.

Investigate the complete Peerless Pump Line

Peerless produces a comprehensive and complete range of pumps for practically all water handling requirements. Most of these pumps are suited to a variety of drives. Write us indicating your pump requirements.