

Multicell Radiator Corporation

Lockport, N. Y.

Manufacturers of Multicell Unit Heaters and Multicell One-piece Pure Copper Heating Surface for Special Heating and Refrigerating Purposes

Multicell Heating Surface is made of one piece seamless copper by an exclusive and patented process of electrical deposition. The surface is cellular in design and has an accordion-like pattern which allows it to absorb expansion and contraction within itself.

Every Multicell section is tested with 100 pounds air pressure under water. Multicell Surface is heavily tinned inside and outside to make it proof against corrosion.

The accordion-like action of the Multicell section is made possible by the diagonal pattern of its one-piece sections. This feature takes care of any expansion or contraction.

Multicell Frames are of all cast iron construction with flow and return headers cast integral with upper and lower frame members respectively. This rigid all cast frame absorbs all piping strains and will not deteriorate from corrosion.

In case of accidental damage individual sections on Multicell Heaters can easily be removed simply by uncoupling one union at each end of section.

Multicell Sections have ample waterways. They present so little resistance to steam flow that pressures are practically the same at inlet and outlet.

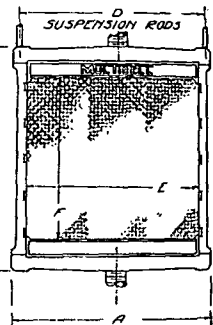
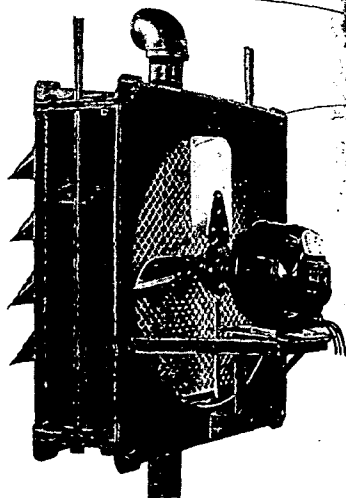
Multicell Elements will not gather dust and lint. Their surfaces are smooth and self-cleaning, thus maintaining their original high efficiency without attention.

Multicell Fans do not require special wiring.

Multicell Unit Heaters are unusually light. They are easily installed and they give a large heat output per pound of weight.

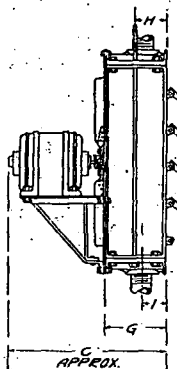
In addition to heating factories, Multicell Unit Heaters have many other uses. When equipped with variable speed motors, they are especially adaptable to churches, auditoriums, etc.

Multicell Unit Heaters are tested and rated in accordance with the standard code for testing and rating steam unit heaters, adopted January 1930, by Industrial Unit Heater Association and the American Society of Heating and Ventilating Engineers.



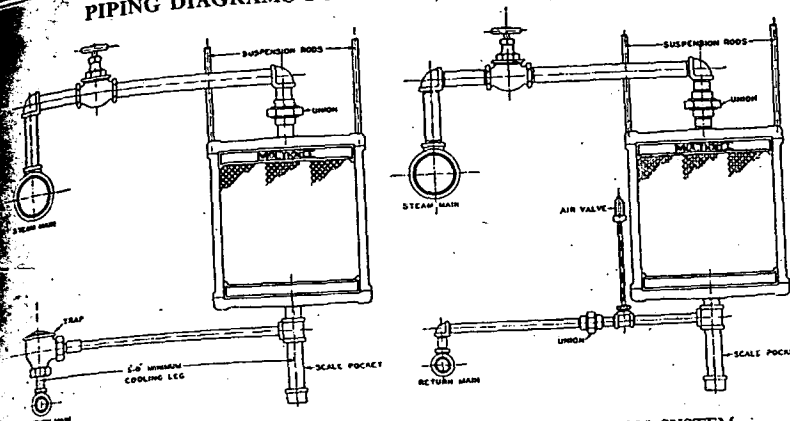
DIMENSIONS OF MULTICELL UNIT HEATERS

No. of Unit Heater	Characteristic Speed	Net Weight	Tapping		Diam. of Fan	Dimensions									
			Flow	Return		A	B	C	D	E	F	G	H	I	J
13	Const.	58	1 1/4	1 1/4	12	14 3/4	14 3/4	14	14 1/8	13 1/8	13	5	2 1/4	1 1/4	
	Var.	69	1 1/4	1 1/4	12	14 3/4	14 3/4	14	14 1/8	13 1/8	13	5	2 1/4	1 1/4	
18	Const.	135	2	2	18	21 3/4	24 3/4	16	20 3/4	19 1/4	17 1/4	6 1/2	3 1/4	2 1/2	
	Var.	173	2	2	18	21 3/4	24 3/4	16	20 3/4	19 1/4	17 1/4	6 1/2	3 1/4	2 1/2	
24	Const.	259	2 1/2	2 1/2	24	28 1/4	31 3/4	19 1/2	27 1/4	25 3/4	24	6 1/2	5 1/4	2 1/2	
	Var.	291	2 1/2	2 1/2	24	28 1/4	31 3/4	21	27 1/4	25 3/4	24	6 1/2	5 1/4	2 1/2	



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PIPING DIAGRAMS FOR MULTICELL UNIT HEATERS



VACUUM RETURN SYSTEM

GRAVITY RETURN SYSTEM

TABLES OF RATINGS

Tested and rated in accordance with the standard code for testing and rating steam unit heaters, adopted January, 1930 by the Industrial Unit Heater Association and the American Society of Heating and Ventilating Engineers.

NO. 13 MULTICELL UNIT HEATER

NO. 13 MULTIPLE HEATER										
R.P.M.	Motor H.P.	C.F.M. at Ent. Temp.	2 Lbs. Steam				5 Lbs. Steam			
			B.T.U.	E.D.R.	Final Temp.	Cond.	B.T.U.	E.D.R.	Final Temp.	Cond.
Air Entering Heater 70° F.										
860	1/30	445	26,800	111.6	125.4°	27.8	28,200	117.5	127.3°	29.4
1140	1/20	595	34,000	141.8	122.5	35.2	35,800	149.2	125.3	37.3
1440	1/20	755	41,100	171.2	120.0	42.6	43,300	180.5	122.6	45.1
Air Entering Heater 65° F.										
860	1/30	445	28,000	116.8	122.2°	29.0	29,600	123.4	125.1°	30.8
1140	1/20	595	35,500	148.0	119.2	26.8	37,300	155.5	122.2	38.8
1440	1/20	755	42,900	179.0	116.7	44.4	45,100	188.0	119.3	46.9
Air Entering Heater 60° F.										
860	1/30	445	29,100	121.3	119.1°	30.1	30,600	127.6	122.1°	31.8
1140	1/20	595	36,800	153.4	116.0	38.1	38,600	161.0	118.8	40.2
1440	1/20	755	44,600	186.0	113.4	46.1	46,900	195.5	116.0	48.8

NO. 18 MULTICELL UNIT HEATER

Air Entering Heater 70° F.										
860	1/15	1074	72,500	302.0	131.5°	75.0	75,900	316.0	134.9°	79.0
1140	1/6	1425	90,100	375.5	128.2	93.2	95,000	396.0	131.3	98.8
1440	1/6	1425	90,100	375.5	128.2	93.2	95,000	396.0	131.3	98.8
Air Entering Heater 65° F.										
860	1/15	1074	75,000	312.1	128.6°	77.6	79,000	329.0	132.0°	82.2
1140	1/6	1425	94,200	392.1	125.2	97.6	99,100	413.0	128.3	103.0
1440	1/6	1425	94,200	392.1	125.2	97.6	99,100	413.0	128.3	103.0
Air Entering Heater 60° F.										
860	1/15	1074	78,200	326.0	125.7°	81.0	82,100	342.0	129.0°	85.4
1140	1/6	1425	98,100	408.0	122.1	101.4	103,000	429.0	125.2	107.1
1440	1/6	1425	98,100	408.0	122.1	101.4	103,000	429.0	125.2	107.1

NO. 24 MULTICELL UNIT HEATER

Air Entering Heater 70° F.										
860	1/4	2560	152,100	634.0	124.6°	157.5	161,500	674.0	128.0°	168.0
1140	1/2	3380	190,000	791.0	121.7	196.8	200,800	835.0	124.6°	209.0
1440	1/2	3380	190,000	791.0	121.7	196.8	200,800	835.0	124.6°	209.0
Air Entering Heater 65° F.										
860	1/4	2560	159,000	662.0	121.5°	164.7	167,400	698.0	124.5°	174.2
1140	1/2	3380	198,200	825.0	118.4	205.1	209,000	870.0	121.4	217.5
1440	1/2	3380	198,200	825.0	118.4	205.1	209,000	870.0	121.4	217.5
Air Entering Heater 60° F.										
860	1/4	2560	165,800	691.0	118.3°	171.8	174,000	725.0	121.4°	181.0
1140	1/2	3380	207,000	862.0	115.4	214.1	217,200	905.0	118.0	226.2
1440	1/2	3380	207,000	862.0	115.4	214.1	217,200	905.0	118.0	226.2