



## ACME PROCESS EQUIPMENT CO.

formerly ACME COPPERSMITHING & MACHINE CO. ORELAND, PENNSYLVANIA, U.S.A.

**CATALOG Nº 60** 

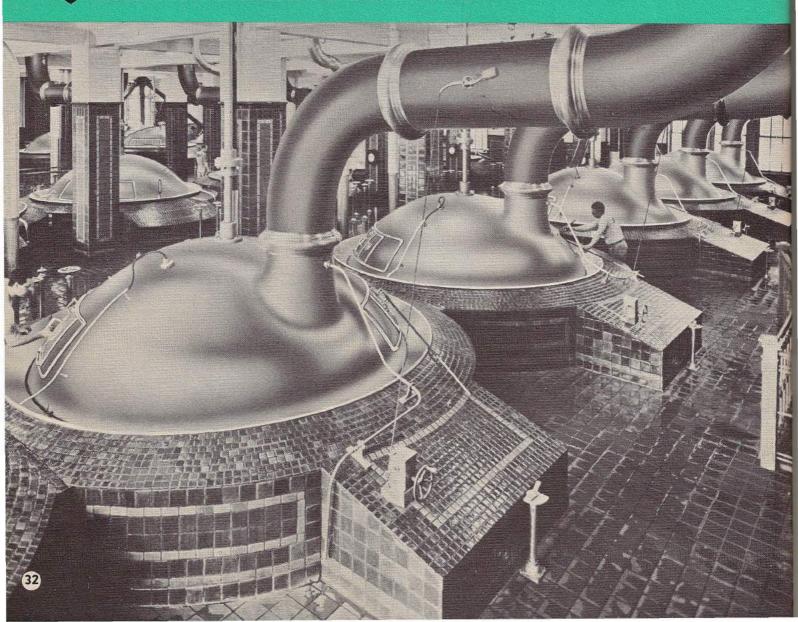
# BREWERY EQUIPMENT

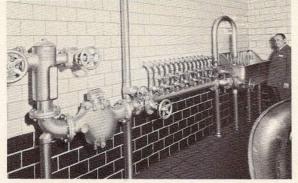


BREW KETTLES • WORT AND CELLAR COOLERS • HOT WATER TANKS
• LAUTER TUBS • MASH TUBS • CEREAL COOKERS
• SPENT GRAIN AND YEAST DRYERS • YEAST CULTURE APPARATUS
• MALT SYRUP EVAPORATORS

Acme brewhouse equipment is designed for more economical operation in producing high yields of quality products. Fabricated of copper, stainless steel, stainless clad, nickel, and all other ferrous and non-ferrous metals and alloys, every installation is individually engineered to best meet specific requirements and local conditions. Acme has been privileged to participate in the expansion programs of many leading breweries—in one instance more than doubling the capacity of an outstanding brewery. Acme engineers are available for planning a complete brewhouse or designing any piece of equipment.

- INSTALLATION OF NINE BREW KETTLES AND TEN MASH KETTLES 13'2" DIAMETER, COPPER CONSTRUCTION





WATER MIXER AND METER WITH PFAFF AND GRANDT

#### **BREW KETTLES**

Of great influence on the character and stability of beer is the nature of the kettle procedure. To best suit the requirements of the individual brewhouse or the preference of the brewmaster, Acme has designed and built kettles of virtually every type, including straight side, pear-shaped and apple-shaped.

Fabricated of copper or stainless steel, Acme kettles have likewise been designed for every method of heat transfer: steam jacket, percolator and coil, steam jacket and percolator combination, and direct fire.

In recommending method of boiling, careful consideration is given to the advantages of each method in relation to the cycle required and environmental factors. Great care is always taken to determine optimum amount of heating surface for most efficient operation of the kettle. Where the percolator type is recommended, simplicity of design allows for maximum efficiency of steam and ease of cleaning.

In all Acme kettles, regardless of type, proper correlation of evaporation rate, temperature and movement of the wort during boiling, achieves the most favorable calculated hourly evaporation rate, resulting in improved hop extraction and protein coagulation.

#### MASH COOKERS

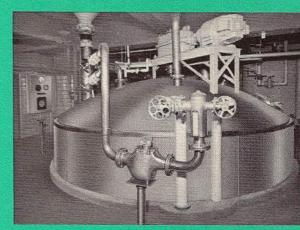
Acme Mash Cookers are designed to achieve maximum stirring of the mash during the cooking process so as to equalize the temperature throughout the mash, without destroying in any way the physical character of the malt. Through more efficient design, these cookers will operate most economically. Steam-jacketed or fired by direct steam, they can be designed for either atmospheric or pressure operation.



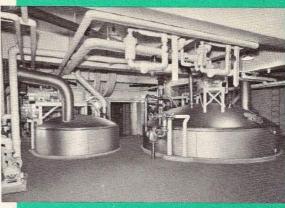
VALUABLE TECHNICAL BREWERY DATA AVAILABLE UPON REQUEST

Write to the attention of

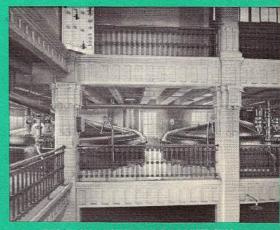
BREWERY DIVISION



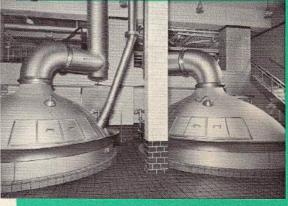
17'6" DIA. MASH TUB OF STEEL CONSTRUCTION, 500 BARREL CAPACITY, JACKETED BOTTOM



CEREAL COOKER AND MASH TUB



TWO RADIAL VALLEY BOTTOM LAUTER TUBS, 21'6" DIA. X 8' HIGH, WROUGHT IRON SHELL WITH COPPER DOMES.



TWO 16'0" DIA. STRAIGHT SIDE BREW KETTLES, COPPER CONSTRUCTION

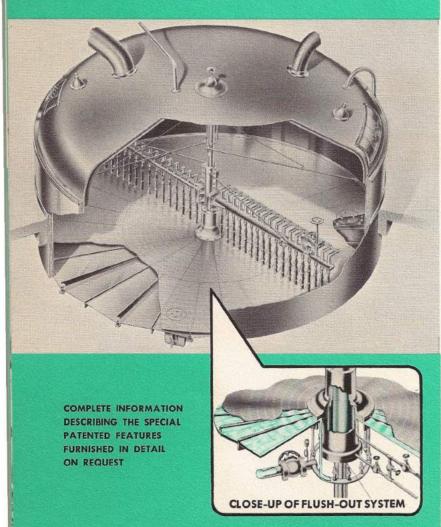
### ACME

Radial Valley Bottom

### LAUTER TUBS

offer =

PATENTED FEATURES



It has been definitely established that the use of a valley bottom lauter tub gives substantially bigger yields than those of the conventional flat bottom tub. Through quicker drainage, the sloping valleys remove the accumulation of under dough. The valley bottom is also more easily cleaned and much time is saved in its periodic flushing. In addition to these general advantages, the Acme Radial Valley Bottom offers three exclusive features, leading to quicker clarification, faster run-off time and more efficient flushing.

# PATENTED RADIAL VALLEY BOTTOM

Exclusive 3-way flow produces quicker clarification, faster run-off time. The draining valleys run radially from the center of the tub, sloping down to the periphery. In addition, each valley drains from crest to trough, on both sides, the full length of the segment. This creates greater flow velocity on every square inch of the bottom area, preventing sediment deposits and increasing yield. It also makes possible the flushing of the bottom in the quickest possible time.

## PATENTED FLUSHING SYSTEM BETWEEN BOTTOMS

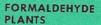
A special device controlled by a single valve flushes each section of the lauter tub simultaneously between the true and false bottoms, without the necessity of lifting the false bottom.

#### FLUSHING SYSTEM OF HYDRAULIC CYLINDER

A separate unit is provided for the periodical flushing of the hydraulic cylinder to wash out accumulated sugar, grits or other sedimentation that interferes with efficient operation. This flushing can be accomplished while the tub is in operation or between brews, assuring a clean hydraulic cylinder at all times.

## PATENTED GRAIN DISCHARGE VALVE

The discharge valve is designed with a special grid top to permit filtering and drainage over the entire bottom area and also in the location where the discharge valve is placed. Because of this, the entire inside surface of the false bottom is completely effective.

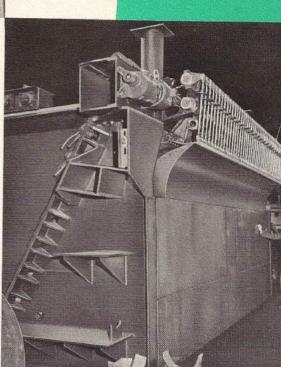




# ... more of the DIVERSE INDUSTRIES

SERVED BY
ACME EQUIPMENT

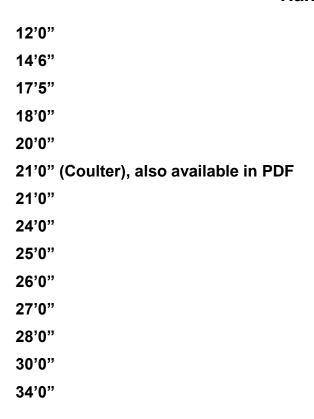




FOR THE PAPER INDUSTRY

TAR DEHYDRATION EQUIPMENT

## ACME LAUTER TUB DESIGNS ON HAND Hand Drawn



In most cases, matching Brewhouse equipment such as Brewkettle, Mash Tub, Cereal Cooker are also available.

Selection of Lauter Tubs can be done by using the following charts.

12-0"- 108

POUNDS OF MALT	BED CU. FT.	DEPTH
MALT		0.5
Visit Introduction 1		OF BED
	- wells	
5,000	150	15"
5,000	150	17½"
5,000	150	23''
5,000	150	15''
6,000	180	18''
6,000	180	21"
6,000	180	25''
6,000	180	100000
7,000	210	15½"
7,000	210	17½"
7,000	210	21''
7,000	210	24''
8,000	240	15"
8,000	240	18''
8,000	240	21"
8,000	240	24½"
9,000	270	14½"
9,000	270	17''
9,000	270	20"
9,000	270	22½''
10,000	300	15"
10,000	300	18''
10,000	300	20''
10,000	300	24''
11,000	330	15''
11,000	330	171/2"
11,000	330	21''
11,000	330	24''
12,000	360	14½"
12,000	360	18''
12,000	360	20''
12,000	360	23''
13,000	390	15''
13,000	390	171/2"
13,000	390	21''
13,000	390	24''
14,000	420	141/2"
14,000	420	18''
14,000	420	21"
14,000	420	24''
15,000	450	15''
15,000	450	17''
15,000	450	20''
15,000	450	24''
.5,000		

70%	MALT/30	% ADJUN	ICT
POUNDS	POUNDS	BED	DEPTH
OF	OF	CU.	OF
MALT	ADJUNCT	FT.	BED
3,500	1,500	128	12½''
3,500	1,500	128	15''
3,500	1,500	128	18''
3,500	1,500	128	20''
4,200	1,800	153	13'' 15''
4,200	1,800	153	
4,200	1,800	153	17½"
4,200	1,800	153	21''
4,900	2,100	178.5	13''
4,900	2,100	178.5	15"
4,900	2,100	178.5	18"
4,900	2,100	178.5	20½"
5,600	2,400	204	12½"
5,600	2,400	204	15''
5,600	2,400	204	17½''
5,600	2,400	204	20''
6,300	2,700	230	12''
6,300	2,700	230	14½"
6,300	2,700	230	16½"
6,300	2,700	230	19½''
7,000	3,000	255	13''
7,000	3,000	255	15''
7,000	3,000	255	17''
7,000	3,000	255	20''
7,700	3,300	281	12½"
7,700	3,300	281	15''
7,700	3,300	281	18''
7,700	3,300	281	21''
8,400	3,600	306	121/2''
8,400	3,600	306	15''
8,400	3,600	306	17''
8,400	3,600	306	20''
9,100	3,900	332	13''
9,100	3,900	332	15''
9,100	3,900	332	17½"
9,100	3,900	332	20"
9,800	4.200	357	12½"
9,800	4,200 4,200	357	15''
9,800	4,200	357	18"
9,800	4,200	357	20"
10,500	4,500	383	12½"
10,500	4,500	383	15''
10,500	4,500	383	17''
10,500	4,500	383	20½"

60% M	AL T/409	% ADJU	JNCT
POUNDS	POUNDS	BED	DEPTH
OF MALT	OF ADJUNCT	CU. FT.	OF BED
3,000	2,000	120	11½"
3,000	2,000	120	14"
3,000	2,000	120	16½"
3,000	2,000	120	18½"
3,600	2,400	144	12''
3,600	2,400	144	14''
3,600	2,400	144	16½"
3,600	2,400	144	20''
4,200	2,800	168	12"
4,200	2,800	168	14"
4,200	2,800	168	16½"
4,200	2,800	168	19½"
4,800	3,200	192	11½"
4,800	3,200	192 192	16"
4,800	3,200 3,200	192	18½"
4,800 5,400	3,600	216	11½"
5,400	3,600	216	14"
5,400	3,600	216	16"
5,400	3,600	216	18"
6,000	4,000	240	12"
6,000	4,000	240	14"
6,000	4,000	240	16"
6,000	4,000	240	18½"
6,600	4,400	264	12''
6,600	4,400	264	14"
6,600	4,400	264	16½"
6,600	4,400	264	19''
7,200	4,800	288	12"
7,200	4,800	288	14½"
7,200	4,800	288	16"
7,200	4,800	288	18"
7,800	5,200	312	12'' 14''
7,800	5,200	312	16½"
7,800	5,200 5,200	312	18½"
7,800 8,400	5,600	336	12''
8,400	5,600	336	14"
8,400	5,600	336	16½"
8,400	5,600	336	19"
9,000	6,000	360	12"
9,000	6,000	360	14"
9,000	6,000	360	16"
9,000	6,000	360	19''

LAUTER	TUB SIZE	
DIA.	FILTER AREA SQ. FT.	
12'-6''	118	30 hb
11'-6''	99	
10'-6''	82	1
10'-0''	74	1
13'-6''	138	1
12'-6''	118	1
11'-6''	99	
10'-6''	82	
14'-6''	160	
13'-6''	138	
12'-6''	118	1
11'-6''	99	1
16'-0''	196	1
14'-6''	160	1
13'-6''	138	
12'-6''	118	1
17'-0''	222	
15'-6''	184	1
14'-6''	160	
13'-6''	138	
17'-6''	236	
16'-0''	196	
15'-0''	172	
14'-0''	149	30" hub.
18'-6''	263	
17'-0"	222	
15'-6''	184	
14'-6''	160	
19'-6''	293	
17'-6''	236	
16'-6''	209	
15'-6''	184	
20'-0''	310	
18'-6''	264	
17'-0''	222	
16'-0''	196	1
21'-0''	342	1
19'-0'' 17'-6''	278	]
17'-6''	236	
16'-6''	210	1
21'-6''	358	]
20'-0''	310	
18'-6''	264	]
17'-0''	222	

TO SECURE		
100	0% MAI	т.
POUNDS	BED CU.	DEPTH
MALT	FT.	BED
16,000	480	141/2"
16,000	480	17½"
16,000	480	20½"
16,000	480	24''
17,000	510	14½"
17,000	510	18''
17,000	510	20½"
17,000	510	23''
18,000	540	15"
18,000	540	18"
18,000	540	20½"
18,000	540	23"
19,000	570	15''
19,000	570	17½'
19,000	570	21''
19,000	570	23''
20,000	600	15''
20,000	600	17½"
20,000	600	21"
20,000	600	23''
21,000	630	15''
21,000	630	18"
21,000	630	21"
21,000	630	24"
22,000	660	15''
22,000	660	17½"
22,000	660	21"
22,000	660	24"
23,000	690	15"
23,000	690	18"
23,000	690	21"
23,000	690	23''
24,000	720	15"
24,000	720	18"
24,000	720	21''
24,000	720	24"
25,000	750	15''
25,000	750	18"
25,000	750	21''
25,000	750	25''
26,000	780	15''
26,000	780	18"
26,000	780	21''
26,000	780	24''

709	% MALT/3	0% ADJ	UNCT
POUNDS	POUNDS	BED	DEPTH
OF MALT	OF ADJUNCT	CU. FT.	OF BED
11,200	4,800	408	121/2'
11,200	4,800	408	15''
11,200	4,800	408	171/2"
11,200	4,800	408	20½"
11,900	5,100	434	12½"
11,900	5,100	434	15''
11,900	5,100	434	17½''
11,900	5,100	434	20''
12,600	5,400	459	13''
12,600	5,400	459	15''
12,600	5,400	459	18''
12,600	5,400	459	20''
13,300	5,700	485	12½"
13,300	5,700	485	14½"
13,300	5,700	485	18''
13,300	5,700	485	20''
14,000	6,000	510	121/2"
14,000	6,000	510	15''
14,000	6,000	510	18''
14,000	6,000	510	19½"
14,700	6,300	536	13''
14,700	6,300	536	15"
14,700	6,300	536	18''
14,700	6,300	536	21"
15,400	6,600	561	13"
15,400	6,600	561	15''
15,400	6,600	561	18''
15,400	6,600	561	20½"
16, 100	6,900	587	13''
16, 100	6,900	587	15''
16,100	6,900	587	18''
16,100	6,900	587	201/2''
16,800	7,200	612	13''
16,800	7,200	612	15''
16,800	7,200	612	18''
16,800	7,200	612	201/2''
17,500	7,500	638	13''
17,500	7,500	638	15''
17,500	7,500	638	18''
17,500	7,500	638	21''
18,200	7,800	663	13''
18,200	7,800	663	15''
18,200	7,800	663	18''
18,200	7,800	663	21"

60%	MALT/40	% ADJ	UNCT
POUNDS OF MALT	POUNDS OF ADJUNCT	BED CU. FT.	DEPTH OF BED
9,600	6,400	384	11½"
9,600	6,400	384	14''
9,600	6,400	384	16½"
9,600	6,400	384	17½"
10,200	6,800	408	12"
10,200	6,800	408	14''
10,200	6,800	408	16½"
10,200	6,800	408	18''
10,800	7,200	432	12"
10,800	7,200	432	14½"
10,800	7,200	432	16½"
10,800	7,200	432	18"
11,400	7,600	456	11½"
11,400	7,600	456 456	17''
11,400	7,600 7,600		18½"
12,000	8,000	456 480	111/2"
12,000	8,000	480	14''
12,000	8,000	480	17''
12,000	8,000	480	18''
12,600	8,400	504	12"
12,600	8,400	504	14"
12,600	8,400	504	17''
12,600	8,400	504	191/2''
13,200	8,800	528	12''
13,200	8,800	528	14''
13,200	8,800	528	17''
13,200	8,800	528	19''
13,800	9,200	552	12"
13,800	9,200	552	14''
13,800	9,200	552	17''
13,800	9,200	552	19''
14,400	9,600	576	12''
14,400	9,600	576	14''
14,400	9,600	576	17''
14,400 15,000	9,600	576	19''
15,000	10,000	600	12''
15,000	10,000	600	14'' 17''
15,000	10,000	600	20"
15,000 15,600	10,000	600	12"
	10,400	624	14"
15,600 15,600	10,400	624	17''
15,600	10,400	624	20"
13,000	10,400	024	20

	TUBSIZE
DIA.	FILTER AREA SQ. FT.
22'-6''	392
20'-6''	324
19'-0''	278
17'-6''	236
23'-0''	406
21'-0''	342
19'-6''	294
18'-6''	263
23'-6''	428
21'-6''	358
20'-0"	310
19'-0''	278
24'-6''	462
22'-6''	392
20'-6''	324
19'-6''	294
25'-0''	482
23'-0''	406
21'-0''	342
20'-0''	310
25'-6''	504
23'-6''	428
21'-6''	358
20'-0''	310
26'-0''	524
24'-0''	445
22'-0''	374
20'-6''	324
26'-6''	544
24'-6''	464
22'-6''	392
21'-0''	342
27'-0''	565
25'-0''	482
23'-0''	406
21'-6''	358
27'-6''	587
25'-6''	504
	428
23'-6''	
	358
21'-6''	358 608
23'-6'' 21'-6'' 28'-0'' 26'-0''	608
21'-6'' 28'-0''	TO COMMITTEE TO SERVICE TO SERVIC

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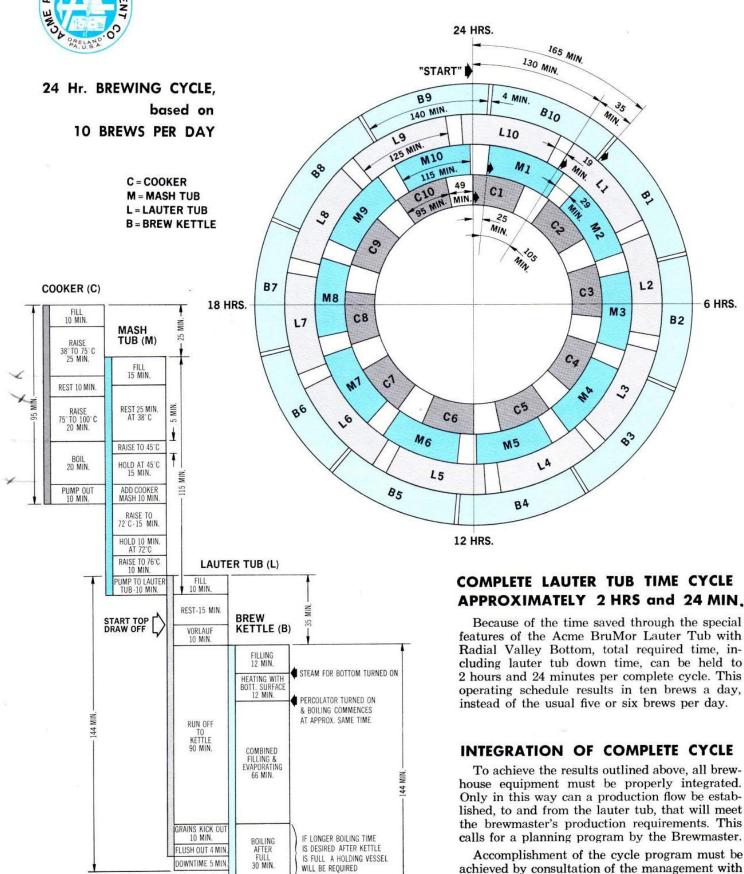
#### MORE BREWS PER DAY WITH AN ACME INTEGRATED SYSTEM

6 HRS.

**B2** 

the brewery equipment manufacturer and the

architect, working as a team.



HOPSTRAIN AND PUMPOUT

20 MIN DOWNTIME 4 MIN.

**OPERATING SCHEDULE** 

OF EQUIPMENT

6