



TABLE 8
INDIRECT HEATERS - WATER BATH VOLUMES

Heater Size Dia x Len.	Water Volume Required, bbl
24" x 3'	1.4
30" x 6'	4.2
30" x 10'	6.9
36" x 10'	8.7
48" x 10'	16.4
60" x 12'	31.0
72" x 12'	42.2
60" x 20'	48.6
60" x 24'	62.3
72" x 24'	82.5

TABLE 9
FREEZING POINT OF WATER-GLYCOL MIXTURES

Approximate Freezing Point °F	Percent by Volume Ethylene Glycol
29	5
25	10
21	15
16	20
11	25
4	30
- 3	35
-10	40
-20	45
-32	50