

HEATEC TEC-NOTE

Publication No. 6-04-127

Thermal fluid—how much do you need?

Before initially filling your heating system with thermal fluid try to estimate how much to have on hand for startup. Thereafter, you should know exactly how

much is required. The Figures shown below can help you estimate the amount needed for typical plants. If your plant components differ from the ones listed, add or subtract accordingly.

Stationary Plant Thermal Fluid Capacity (Gallons)	
Heatec HC-200 heater	159
Two 30,000 gallon horizontal coil tanks for virgin asphalt	462
One 25,000 gallon vertical asphalt tank for PMAC	45
Heavy fuel preheater	30
Double Barrel drum mixer, 9 ft x 46 ft	10
Drag conveyor, 42 inch x 100 ft	132
Three 300-ton storage silos	210
Traverse conveyor, 36 inch x 33 ft	44
100 feet of asphalt piping, 4-inch dia	77
230 feet of hot oil piping, 1-1/2 inch dia	24
Plant Total	1193

Relocatable Plant Thermal Fluid Capacity (Gallons)	
Heatec HC-120 heater	96
Two 30,000 gallon horizontal coil tanks for asphalt	462
Double Barrel drum mixer, 8ft x 39 ft	10
Drag conveyor, 36 Inch x 95 ft	125
Two 200-ton storage silos	44
Traverse conveyor, 36 Inch x 14 ft	18
100 feet of asphalt piping, 4-inch dia	77
230 feet of hot oil piping, 1-1/2 inch dia	24
Plant Total	857

Portable Plant Thermal Fluid Capacity (Gallons)	
Heatec HCS-100 heater	96
One 30,000 gallon Heli-tank for asphalt	231
Double Barrel drum mixer 7 ft x 35 ft	10
Drag conveyor on surge bin, 24 inch x 50 ft	66
70 feet of asphalt piping, 4-inch dia	54
150 feet of hot oil piping, 2-inch dia	26
Plant Total	483

Heater Thermal Fluid Capacity (gallons)			
Model	Coil	Expansion Tank*	Total
HCS-70	35	25	60
HCS-100	52	44	96
HCS-175	89	70	159
HCS-250	150	70	220
HC-120	52	44	96
HC-200	89	70	159
HC-300	150	70	220

*Expansion tank 1/4 full.