Varying dTmin Global

This sheet will set up a case study to report the pinch temperature and the min utility requirements for varying dTmin global values within a specified range.

IMPORTANT: Using this function will clear all dTcontrib information from individual streams (reverting to dTmin global for all streams).

1. Specify dTmin global range.

Max dTmin	30	°C
Min dTmin	5	°C

2. Click this button to run the case and re-plot the adjacent charts.

Run Case

Plot Data (No entry required):

dTmin	Hot Pinch	Cold Pinch	Hot Utility	Cold Utility
°C	°C	°C	kW	kW
5	-19	-24	1840	1840
6.25	-19	-25.25	1852.5	1852.5
7.5	6.5	-1	1870	1870
8.75	7.75	-1	1920	1920
10	9	-1	1970	1970
11.25	10.25	-1	2020	2020
12.5	11.5	-1	2070	2070
13.75	12.75	-1	2120	2120
15	14	-1	2170	2170
16.25	15.25	-1	2220	2220
17.5	16.5	-1	2270	2270
18.75	17.75	-1	2320	2320
20	19	-1	2370	2370
21.25	20	-1.25	2412.5	2412.5
22.5	20	-2.5	2425	2425
23.75	20	-3.75	2437.5	2437.5
25	20	-5	2450	2450
26.25	20	-6.25	2462.5	2462.5
27.5	20	-7.5	2475	2475
28.75	20	-8.75	2487.5	2487.5
30	20	-10	2500	2500

Varying Pinch Temperature vs dTmin

Varying Min Hot and Cold Utilities vs dTmin

Figure 10-168. A screen-shot of the results of hot, cold temperatures and utilities requirements for varying dTmin values and plots of these parameters for Example 10-58.