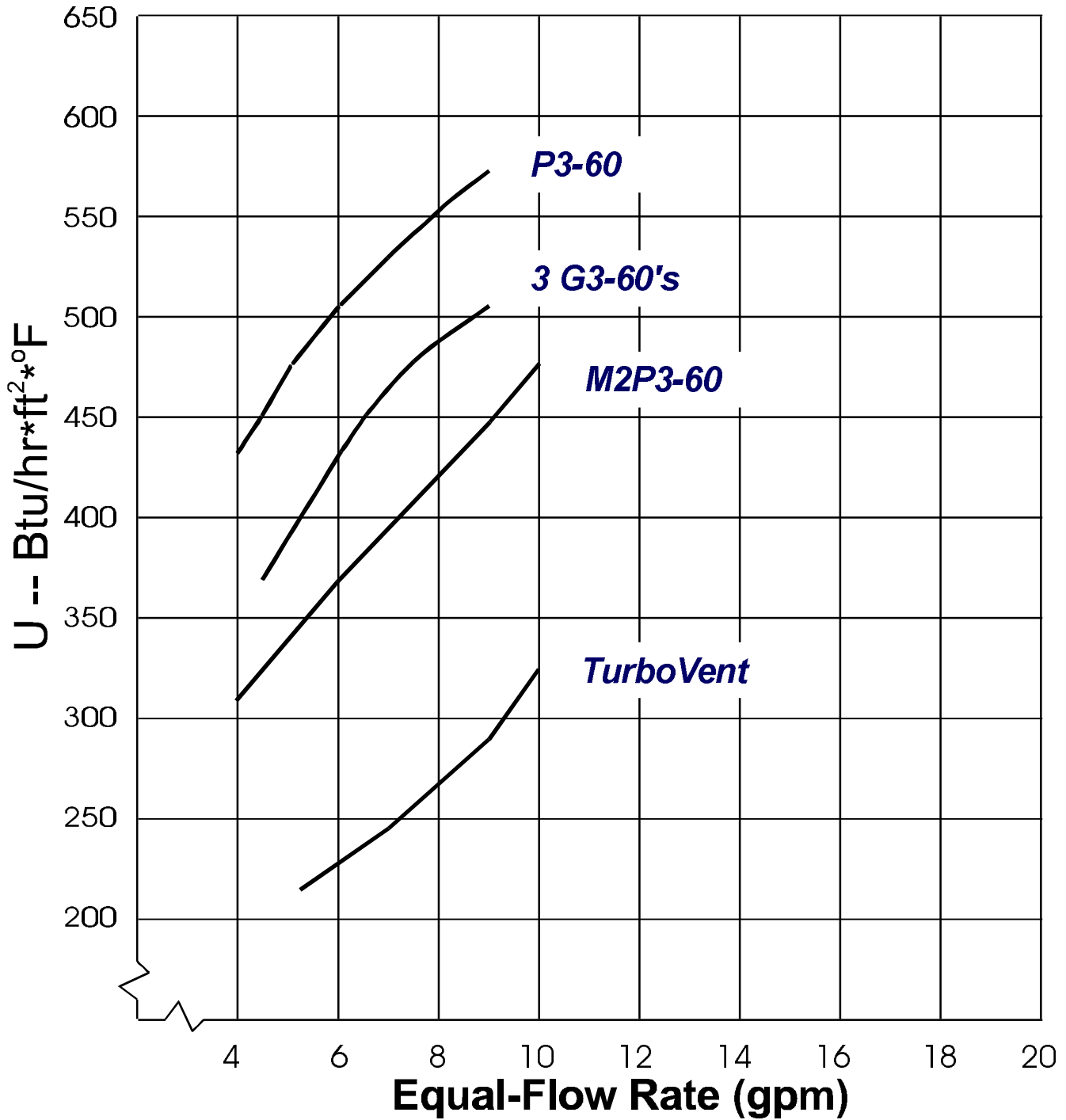


GFX^{*} vs. TurboVent^{}**



Heat Transfer Coefficient ("U") vs. Equal-Flow-Rate for 2 to 4 Model G3-60 GFX's in Parallel and a TurboVent Panel.

(NOTE: The coil pressure drops are: ~0.092 x gpm² for a TurboVent Panel, ~0.098 x gpm² for an M2P3-60, ~0.174 x gpm² for 3 G3-60's in parallel & ~.392 x gpm² for a P3-60)

GFX vs. SHELL & TUBE HEAT EXCHANGERS

PARAMETER	GFX*	SHELL & TUBE	(RATIOS)
Recycling Efficiency	84%	84%	1 : 1
LMTD	12.9°F	12.9°F	1 : 1
Overall Heat Transfer			
Coefficient (Btu/hr·F·ft ²)	442	103	4.3 : 1
Heat Transfer Area (ft ²)	11.3	48.5	1 : 4.3
Water Velocity: Waste	3	0.29	10 : 1
(ft/sec)	Cold 5.5	0.32	17 : 1
Materials	Copper	Stainless Steel	

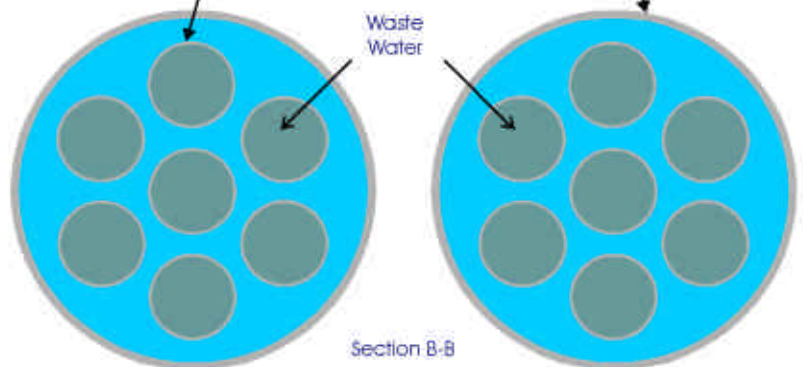
Notes: 1. Recycling efficiency is the ratio of the measured to maximum theoretical drop in drain water temperature. 2. LMTD is the log mean temperature difference. 3. GFX's efficiency was measured at a textile mill, with flow rates scaled from process rates. 4. Ludell's standard 7-tube design was scaled to yield GFX's high efficiency for identical flow conditions. 5. Substituting GFX's copper DWV tube with a stainless steel tube will lower the efficiency by about 5%.

Coil: 1/2" x 100' Type L
(298 1/2' Active Length) &
3 Tubes: 3" x 5' Type DWV
(14 1/4' Active Length)



Section A-A

Shell: 3" x 17 1/2' Type K
(35' Active Length) &
7 U-Tubes: 5/8" Type L
(245' Total Active Length)



Section B-B

