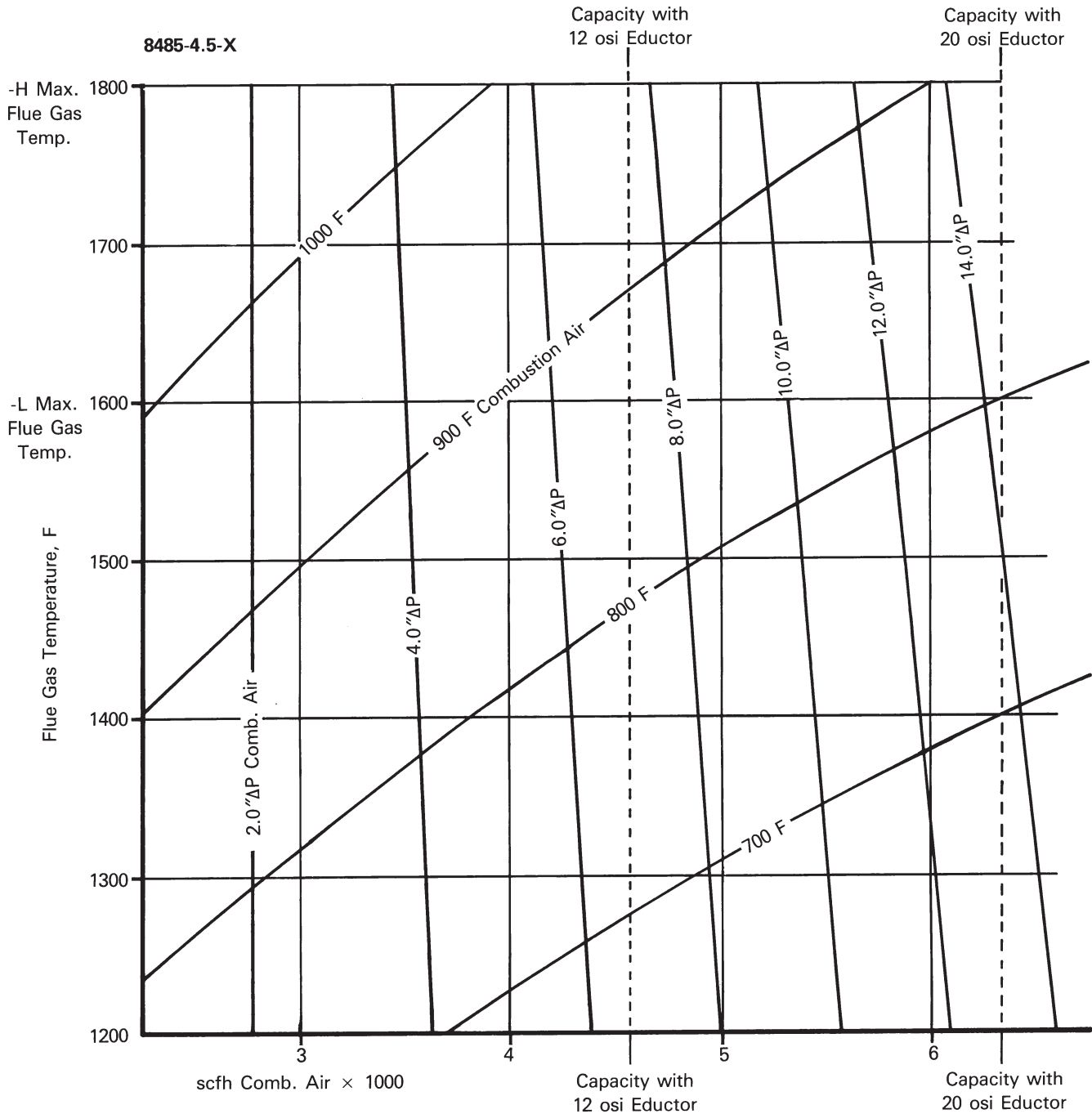
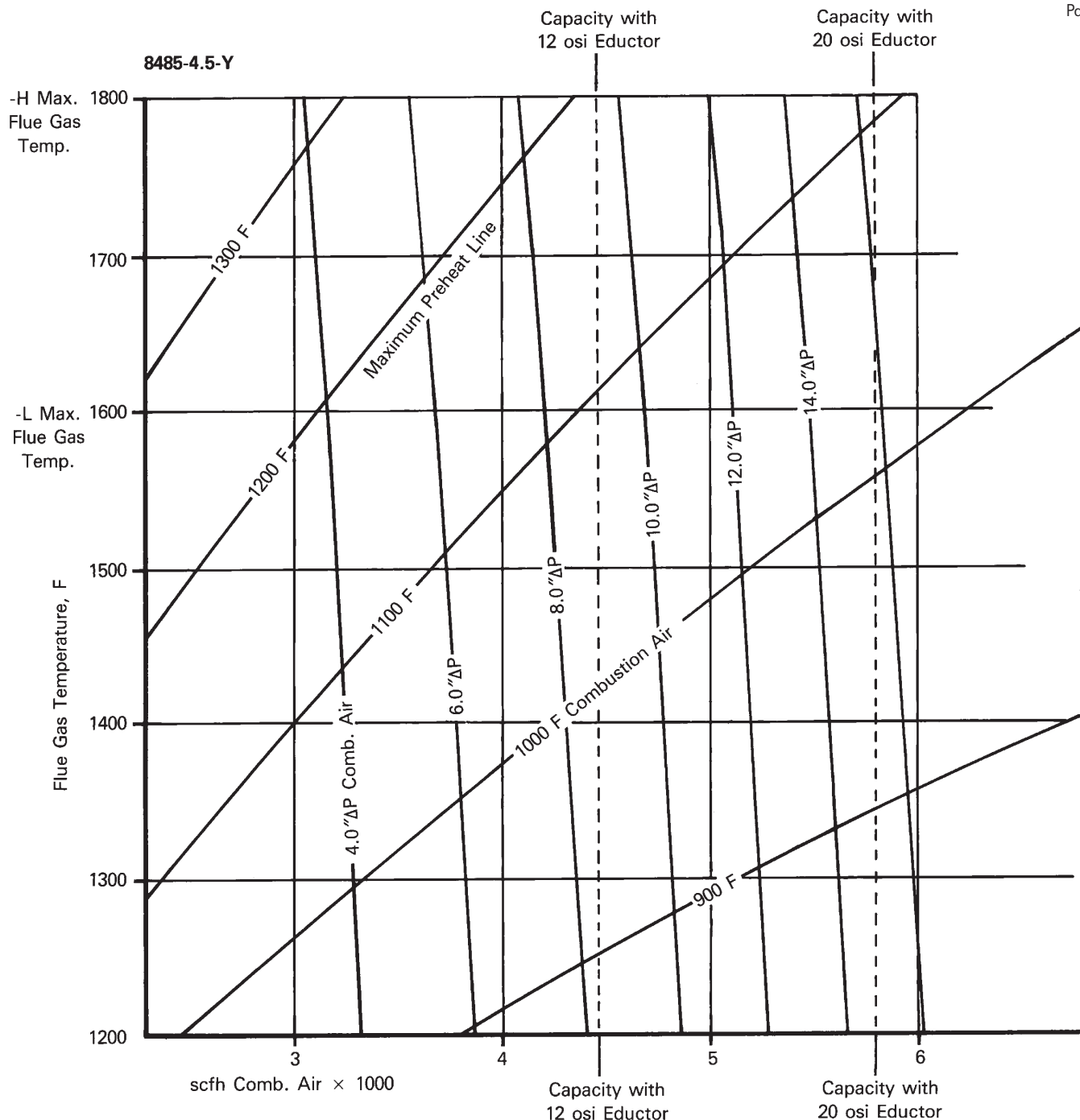


North American 8485-4.5 Recuperator Convection Type

Sheet 8485-2



For flue gas temperatures above 1600 F for -L models or 1800 F for -H models, turndowns greater than 3 to 1 will require introduction of flue gas dilution air upstream of the recuperator for its protection. For flue gas temperatures below these levels, dilution air may be required when turndown exceeds 6 to 1, depending on the location of the recuperator.



During periods of system turndown, any time preheat exceeds 1200 F, either flue gas dilution air must be introduced upstream of the recuperator for its protection, or flow of combustion air through the recuperator must be increased to limit preheat air temperature to 1200 F. In the latter case, either run the burners at excess air rates, or bleed off some combustion air downstream of the recuperator.

Eductor flow rates can be approximated with the following.

Type Nozzle:	12 osi Eductor Blower Pressure	100% of Combustion Air Flow
"Special"	16 osi Eductor Blower Pressure	90% of Combustion Air Flow
'R'	20 osi Eductor Blower Pressure	80% of Combustion Air Flow
'S'	24 osi Eductor Blower Pressure	70% of Combustion Air Flow
'T'		

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., is inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.



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